

SRL East Draft Structure Plan | Cheltenham

## **Transport Technical Report**





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# **Suburban Rail Loop**

### PREPARED FOR SUBURBAN RAIL LOOP AUTHORITY

SRL EAST DRAFT STRUCTURE PLAN – TRANSPORT TECHNICAL REPORT – CHELTENHAM

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



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## **Abbreviations and glossary**

TERM	DEFINITION	
AADT	Annual average daily traffic	
ABS	Australian Bureau of Statistics	
AJM JV	Aurecon, Jacobs, Mott MacDonald Joint Venture – Technical Advisor to the SRLA	
AM peak	The 2-hour peak period between 7am to 9am on a typical weekday	
BESS	Built Environment Sustainable Scorecard	
BIC	Business and Investment Case	
Car free / Car light	Option for a lifestyle that does not require a car to travel in most circumstances	
CBD	Central Business District of Greater Melbourne	
CASBE	Council of Sustainability in the Built Environment	
CoMo UK	Collaborative Mobility UK, A UK charity organisation promoting and advocating for the public benefit of shared transport options	
DDA	Disability Discrimination Act 1992 (Cth)	
DTP / DoT	Department of Transport and Planning / Department of Transport (formerly)	
EES	Environment Effects Statement for SRL East Rail Project	
End-of-trip facilities	Facilities available for people to shower, change clothes or otherwise transition from active transport to work or other activities.	
EPR	Environmental Performance Requirements	
EV	Electric vehicles	
Greater Melbourne	Covers the entirety of suburban Melbourne including as yet unreleased growth areas in outer suburbs, including 31 local government areas.	
GTP	Green Travel Plans	
IAC	Inquiry and Advisory Committee	
LGA	Local government area	
LMFP	Last Mile Freight Plan	
LXRP	Level crossing removal project	
LUTI	Land Use and Transport Interaction	
M&P	Movement and Place – a cross-disciplinary, place-based approach to the planning, design, delivery and operation of transport networks	
Micromobility	Transport provided by very light vehicles including bicycles, scooters and skateboards. Often shared and/or electric.	
Off-peak	The off-peak period between 6pm to 7am, and the inter-period between the morning and afternoon peaks between 9am to 3pm on a typical weekday	
PFN	Principal Freight Network	
Planning Area	The Planning Area declared within Cheltenham by the SRL Minister under the Suburban Rail Loop Act 2021 (Vic) on 4 December 2023.	
PM peak	The 3-hour peak period between 3 pm to 6 pm on a typical weekday	
PPTN	Principal Public Transport Network	
PSA	Planning Scheme Amendment	
PTV	Public Transport Victoria	
PUDO	Pick up / Drop off parking spaces	
SA2	Statistical Area Level 2	



TERM	DEFINITION	
SCC	Strategic cycling corridor	
SCO14	Specific Controls Overlay Schedule 14	
SRL	Suburban Rail Loop is a new orbital rail line from Cheltenham to Werribee and associated development together with planning for the increased intensification and activation of precincts in areas connected to and around the rail line.	
SRLA	Suburban Rail Loop Authority	
SRL East	The south-east section of SRL from Cheltenham to Box Hill, together with a series of integrated initiatives to create value and improve the precincts around the new stations	
SRL East Planning Areas	The SRL East Planning Areas are Cheltenham (CTM), Clayton (CLA), Monash (MSH), Glen Waverley (GWY), Burwood (BUW) and Box Hill (BOX)	
SRL East Rail project	Construction and operation of the SRL East rail connection, including tunnels from Cheltenham to Box Hill, six stations and the Southern Stabling and Maintenance Yard	
Structure Plan Area	The extent of land within the Planning Area to which the Cheltenham Structure Plan applies.	
TGSI	Tactile ground surface indicators	
V/C	Volume over capacity ratio	
VISTA	Victorian Integrated Survey of Travel and Activity	
VITM	Victorian Integrated Transport Model	

## **Executive summary**

As part of the Suburban Rail Loop (SRL) East project, Draft Structure Plans (Structure Plans) are being prepared for the neighbourhoods surrounding the new underground stations at Cheltenham, Clayton, Monash, Glen Waverley, Burwood and Box Hill.

The Structure Plans will set how the Vision will be delivered in the SRL East Structure Plan Areas to guide growth and transformational change, while protecting the character and features that people love about those areas. As the Cheltenham Structure Plan Area develops it will be important to protect and enhance access to, from and within Cheltenham.

Cheltenham sits along an existing high quality arterial spine of Nepean Highway and the major east-west link Bay Road, in addition to the Frankston Line and with connections to 13 bus routes. At Cheltenham, SRL East will provide high capacity and fast connections to nearby state and regional significant activity centres that are currently difficult to reach by public transport. More active and sustainable transport choices will help improve the amenity and liveability of the Structure Plan Area, access to Southland Shopping Centre, and the general health and wellbeing of individuals. Greater access to active and public transport routes will encourage a shift away from private vehicle for shorter trips to help reduce traffic congestion and adverse environmental impacts while provide for more efficient use of land.

This report sets out transport recommendations to inform the development of the Cheltenham Structure Plan. The recommendations consider future land use and associated population and employment growth, with the aim to support and encourage sustainable and active and public transport choices in Cheltenham in response to that growth, and to manage car parking, kerbside activities and freight deliveries.

The Cheltenham Structure Plan will identify how the five key themes of Boosting the Economy, Enriching Community, Better Connections, Enhancing Place and Empowering Sustainability will be delivered in the Structure Plan Area, and will set objectives, strategies and actions to achieve the Vison for the area.

The population, job and traffic growth demands associated with the land use changes and Structure Plan will require proactive management to realise the full potential of SRL East. The transport ambition and goals provide the foundations for managing the growth in transport in Cheltenham. These ambitions and goals are summarised in the Figure and Table below.

#### **Transport Ambition for Cheltenham**



Managing the growing number of trips through more people choosing to walk, cycle and catch public transport as Cheltenham develops.

GOAL		EXPLANATION
たざ	A safe and connected walking and cycling environment	Walking and cycling <sup>1</sup> will serve as the most convenient, safe and enjoyable means of travel in the neighbourhoods around each SRL station.

<sup>&</sup>lt;sup>1</sup> Walking and cycling represent the action of moving as a pedestrian or cyclists, whether or not someone is walking or cycling unaided or using any kind of wheeled mobility aid, including cycles, scooters, wheelchairs, mobility scooters, walking frames, prams or buggies.



GOAL		EXPLANATION
	A revitalised bus experience	In line with Victoria's Bus Plan, help change people's perception of buses. Provide a passenger-focused bus service, making road-based public transport a competitive, attractive and convenient choice.
	An all-inclusive transport network	Ensure transport is accessible to people of all ages, abilities and genders.
	Anchoring sustainable travel services and shared mobility to SRL East	SRL East stations are seamless integrated hubs, allowing quality interchanges between sustainable travel modes.
6	Prioritising safe and healthy movement	In line with Victoria's Road Safety Strategy 2021-2030, the transport network becomes safer for all, particularly vulnerable users. Uptake in walking and cycling contributes to an increase in daily physical activity.
	Smart and efficient use of parking	Parking management needs for all users, with a strong emphasis on providing for the needs of bike and micromobility users. Car parking spaces will be managed and used to maximise their effectiveness while considering impacts on the urban realm.
A.P.	Enable new and emerging innovative mobility	Neighbourhoods around each SRL station will enable emerging and innovative mobility to provide more and convenient choice, especially for shorter to medium distance trips.

This report is informed by assessing the existing transport conditions in Cheltenham and the SRL East Environment Effects Statement (EES) (2021). It sets out recommendations to support and encourage sustainable and active transport choices, and to manage parking, kerbside activities and freight deliveries.

A Precinct Parking Plan for Cheltenham is attached as Appendix A to this report. The SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham supports the justification of implementing Parking Overlays in Cheltenham.

The main transport challenges in Cheltenham are:

- The existing rail line, busy arterial roads (such as Nepean Highway, Bay Road and Chesterville Road) and large private and industrial blocks are barriers for pedestrians and cyclists
- The existing Southland Station and Southland Shopping Centre bus interchange are difficult to transfer as they are separated by the busy Nepean Highway corridor. Passengers are required to walk a significant distance to interchange between the public transport modes
- The bus network has meandering routes with some service gaps, reducing public transport accessibility to key destinations in Cheltenham. Most bus service frequencies are also low and there is lack of on-road bus priority, resulting in a service that is not competitive against the often more convenient option of the private car. The quality of bus stops and waiting area infrastructure is inconsistent across Cheltenham
- There is limited cycling infrastructure, with very few separated cycling routes serving Cheltenham. While the current private vehicle mode share is generally within the capacity of the road network other than some periods of congestion during peak hours, maintaining a similar private vehicle mode share into the future will not be sustainable (due to the forecast increase in trips) and will affect the liveability within the Structure Plan Area.

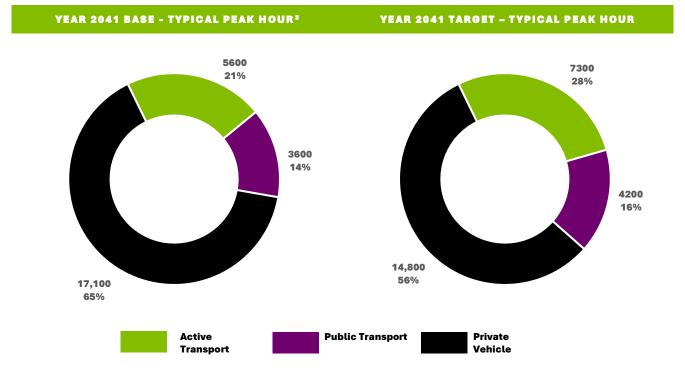
An assessment of how travel patterns within the Structure Plan Area will evolve and change was undertaken, which included setting a mode share target that reflects the broader set of transport choices. The assessment



identified that, in the future (with the SRL East Project), about 75 per cent of Cheltenham trips start and/or finish within 5 kilometres of Cheltenham or are along a corridor that will be served by a direct rail service to Cheltenham.

The primary focus of the sustainable transport mode share increase is the growth in active transport trips supported by the future mixed land uses and the potential for improved infrastructure and facilities to support short distance trips.

The Figure below shows the future Baseline Scenario (including SRL East) and target mode shares for a typical peak hour for Cheltenham.<sup>2</sup> The target shows an increase in active transport mode share by 30 per cent (an increase of 1700 trips during a typical peak hour) compared to the baseline from 21 per cent to 28 per cent, with public transport mode share increasing by 17 per cent (an increase of 600 trips a during typical peak hour).



<sup>&</sup>lt;sup>3</sup> Due to limitations in VITM actual active transport mode share may be higher than the baseline (see Section 3.4) forecast due to mixedused higher density land uses naturally favouring active transport and active transport initiatives from State Government and Local Councils which may occur from now until commencement of SRL East services.



<sup>&</sup>lt;sup>2</sup> Analysis is based on the primary mode for trips to, from and within Cheltenham (through trips are not included).

## Recommendations

Recommendations to improve transport and movement in Cheltenham are divided into infrastructure recommendations, and non-infrastructure recommendations:

- Infrastructure recommendations focus on improving strategic and local corridors, with a focus on optimising sustainable active and public transport networks to promote walking, cycling and public transport modes
- Non-infrastructure recommendations focus on policies, strategies, guidelines and plans to manage parking in the Structure Plan Area to promote sustainable transport choice and manage kerbside activities and freight delivery. Some recommendations are categorised as 'other opportunities' to be considered through other pathways and partnerships.

The Table below summarises the types of recommendations and their alignment with the transport goals. The infrastructure and non-infrastructure recommendations will deliver a more connected network and increased travel choice by building upon existing arterial road and rail access and contributing to a shift towards sustainable travel choices across the Cheltenham Structure Plan Area.



	TRANSPORT GOALS						
TRANSPORT RECOMMENDATIONS	A safe and connected walking and cycling environment	A revitalised bus experience	An all- inclusive transport network	Anchoring sustainable travel services and shared mobility to SRL East	Prioritising safe and healthy movement	Smart and efficient use of parking	Enable new and emerging innovative mobility
Infrastructure types							
New and Upgraded Strategic Corridors that enable the Structure Plan with a particular focus on active and public transport upgrades	V	V	~		~		
Upgraded local Green Streets, with a particular focus on active transport upgrades and support for innovative modes	~		~			~	
New Key Links, focussing on creating active transport permeability and connecting transport corridors	~		~	~			
New and upgraded crossings of busy roads	~		~		√		
Upgrades to public transport interchanges to enhance the services, facilities, and customer experience		~		~			
New bicycle hubs to encourage active transport to the SRL station, existing railway station and bus interchange	~	~		~			
Maintaining strategic traffic and freight corridors		~				√	
Designating low traffic neighbourhoods	~		~		~		
Non-Infrastructure types							
Development of SRL East Structure Plan Area appropriate parking rates					~	~	
Partnering with Council to plan and manage streets through local freight delivery and kerbside management plans						~	
Supporting travel choices including Green Travel Plans and encourage use of mobility hubs					V		~

## **1** Introduction

This section provides the background to the Suburban Rail Loop (SRL) East project. It sets out the scope and objectives of structure planning, and the purpose and structure of this report. The methodology for the transport technical assessment is explained. Stakeholder consultations undertaken to inform the recommendations in this report are discussed.

## 1.1 Background

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. The Minister for Planning approved the SRL East rail project in 2022.

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

Construction of the SRL East underground stations is underway at Cheltenham, Clayton, Monash, Glen Waverley, Burwood and Box Hill. SRL East provides an opportunity to enhance the surrounding neighbourhoods.

SRL East will support thriving and sustainable neighbourhoods and communities that offer diverse and affordable housing options, with easy access to jobs, transport networks, open space, and community facilities and services.

A vision for the Cheltenham SRL East neighbourhoods has been developed in consultation with the community and stakeholders that sets out the long-term aspirations for the SRL East Structure Plan Areas.

Figure 1.1 shows SRL East in the context of the entire SRL project and Melbourne's rail network.

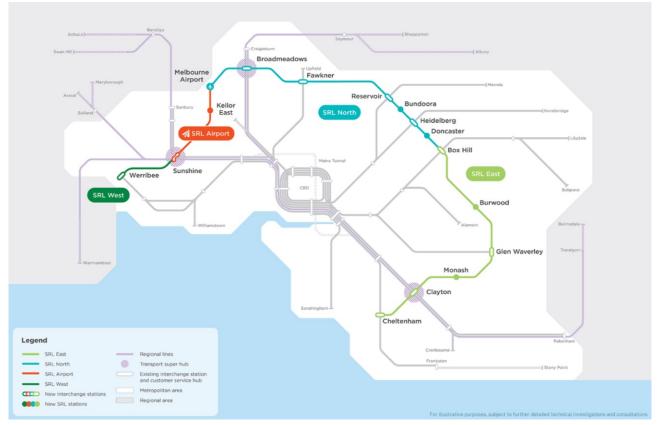


FIGURE 1.1 SRL EAST CONTEXT IN MELBOURNE'S RAIL NETWORK

### 1.2 Structure planning

Structure Plans are being prepared for defined areas surrounding the SRL East stations to help deliver the vision for each neighbourhood.

The Structure Plans cover defined SRL East Structure Plan Areas. These are the areas immediately surrounding the SRL stations, where the most growth and change will occur These areas cover a walkable catchment that extends from the SRL station entrances. Additional places are included within the Structure Plan 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 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. Matters covered in a Structure Plan include 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 across the SRL East Structure Plan Areas.



support urban centres across Melbourne that offer high quality lifestyles, housing and jobs close to public transport, services and other amenities.

This Structure Plan recognises that key planning approvals for SRL East were informed by the Minister's Assessment of the SRL East Environmental Effects Statement (EES) (2021), which was supported by relevant technical documents such the Traffic and Transport Impact Assessment. These approvals, now in place for delivering the rail infrastructure for SRL East, form the foundation for structure planning and this report.

The Structure Plan is the next step towards achieving SRL's integrated transport and land use outcomes and maximising the project's benefits.

#### 1.2.1 PLANNING AREA AND STRUCTURE PLAN AREA

This report also refers to the Planning Area. The Planning Area is a wider area that includes the Structure Plan Area. The Planning Area for Cheltenham was declared by the Minister for the SRL under the *Suburban Rail Loop Act 2021* (Vic) in December 2023. The declaration makes the Suburban Rail Loop Authority (SRLA) a planning authority under the *Planning and Environment Act 1987* for the land in Cheltenham to which the Planning Area applies and has effect.

As transport links connect beyond the Structure Plan Area and people move through it to access activities within the wider Planning Area, this report deliberately discusses transport networks, challenges and trips in the context of the wider Planning Area before focusing in on impacts and actions within the Structure Plan Area.

The Planning Area and the Structure Plan Area for Cheltenham are shown in Figure 1.2.





FIGURE 1.2 THE CHELTENHAM PLANNING AREA AND STRUCTURE PLAN AREA

## 1.3 Purpose and structure of this report

This report sets out transport recommendations to inform the development of the Structure Plan for Cheltenham.

As the Cheltenham Structure Plan Area develops it will be important to support and promote more sustainable modes of transport to, from and within Cheltenham. This will help reduce traffic congestion and adverse environmental impacts and provide for more efficient use of land (instead of over-providing car parking). More active and sustainable transport choices will help improve the amenity and liveability of the Structure Plan Area, and the health and wellbeing of individuals.

The recommendations aim to support and encourage sustainable and active transport choices in Cheltenham, and manage parking, kerbside activities and freight deliveries.

The structure of this report is:

- Section 1: Introduction provides the background and context of the technical assessment
- Section 2: Existing conditions describes the existing transport conditions, gaps and challenges in Cheltenham
- Section 3: The SRL project provides an overview of the project and its expected benefits, and sets out
  relevant aspects of the Traffic and Transport Impact Assessment delivered for the SRL East Environment
  Effects Statement (EES) (2021) that informed the Planning Approval
- Section 4: Transport ambition for Cheltenham sets out the transport ambition for Cheltenham and anticipated land use and the implications for transport
- Section 5: Future transport demands discusses travel patterns, including the trips generated and the distribution of where they are going to and from, and presents the target mode shares given the transport ambition
- Section 6: Infrastructure recommendations sets out the aspirational network for each transport mode recommendations to improve transport infrastructure and encourage sustainable travel in the Structure Plan Area
- Section 7: Non-infrastructure recommendations sets out the non-infrastructure recommendations to manage parking, promote active and sustainable transport choices, and manage kerbside activities and local freight deliveries
- Section 8: Conclusion including the considering of the alignment between transport goals and types of recommendations.

The SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham attached to Appendix A of this report summarises the context of parking in Cheltenham and outlines parking management tools recommended for the Cheltenham Structure Plan.



## 1.4 Methodology

This report demonstrates how transport recommendations will cater for the growth in trips as a result of the land use changes and associated transport demand anticipated from the Cheltenham Structure Plan Area.

The Minister's Assessment (discussed in Section 3.2) supported the finding of the Inquiry and Advisory Committee (IAC) convened to review the environment effects of SRL East; that the transport modelling completed for the Transport and Traffic Impact Assessment for the SRL East Environment Effects Statement (EES) 2021) was adequate for this phase of the project. This transport modelling underpinned the assessment of operational transport effects and considered land use changes and future travel patterns associated with the operation of the SRL East rail infrastructure and has formed the basis for the preparation of this Transport Technical Report.

A 'vision and validate' approach was applied to respond to the growing transport task to 2041 expected from the land use changes in the Cheltenham Structure Plan Area. The 'vision and validate' approach focuses on defining the desired transport network ('vision') to inform and support the Structure Plan and identifies how the transport recommendations will work towards achieving the desired 'outcome for the transport network ('validate').

The transport recommendations respond to the transport ambition and seek to encourage more sustainable transport demand and reduce car reliance and impacts, while more broadly informing the vision for the Cheltenham Structure Plan Area.

The steps to plan, develop and validate the transport recommendations were:

- Step 1: Review existing conditions involved considering the current transport conditions and identifying strengths, challenges, gaps and opportunities.
- Step 2: Review the baseline involved understanding the future set in the SRL East EES, including the land use development uplift and the changes to the network.
- Step 3: Setting the transport ambition and goals were determined to inform the Cheltenham Vision and the Structure Plan. This forms part of the 'vision' process of the 'vision and validate' approach. The development of the transport goals considered the transport challenges, gaps and opportunities in the Structure Plan Area. Future travel demand was assessed and a mode share target for Cheltenham was set and reviewed against the existing mode shares for other Melbourne suburbs.
- Step 4: Determine the initial movement network and opportunities to inform the structure planning process. Given the transport ambition for the Structure Plan Area, how these could be achieved beyond what was outlined in the SRL East EES to achieve the ambitions was considered.
  - The aspirational strategic and local movement network for all modes in the Structure Plan Area was developed by SRLA in consultation with the Department of Transport and Planning (DTP) and the cities of Kingston and Bayside. The network was developed using DTP's Movement and Place (M&P) Framework and applied SRLA's modal principles in response to land use changes proposed in the Structure Plan.
  - » The strategic M&P assessment identified gaps between the current and aspirational performance. Initial transport infrastructure recommendations were developed to address these gaps for consideration during development of the Structure Plan and stakeholder engagement.
  - » Initial non-infrastructure recommendations were developed in response to the transport ambition, including to encourage effective parking management and support sustainable travel choices.



- Step 5: Iterate the development of the Structure Plan with transport. Transport networks and recommendations were iteratively developed.
- Step 6: Validate recommendations involved checking recommendations against the transport challenges and ambition to cater for the projected changes in land use and associated transport demand in the Structure Plan Area.

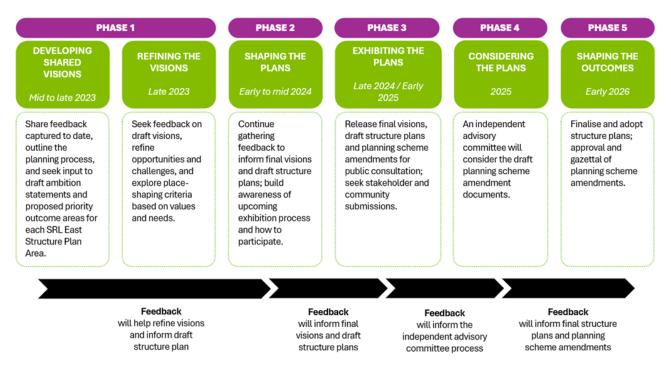
Implementation of the recommendations contributes to a shift towards sustainable travel choices beyond that forecast in the SRL East EES.

#### 1.4.1 PEER REVIEW

This technical report has been independently peer reviewed by Hilary Marshall of Ratio. The peer review report is attached as Appendix B of this report, which sets out the peer reviewer's opinion on the SRL East Draft Structure Plan –Transport Technical Report – Cheltenham.

### 1.5 Stakeholder consultation

SRLA has developed a comprehensive engagement plan for the overall structure planning program. The engagement plan is shown in Figure 1.3 and includes early engagement to inform the draft Structure Plans through to statutory steps such as exhibition and advisory committee processes. The engagement plan considers community and stakeholder engagement.



#### FIGURE 1.3 SRL EAST STRUCTURE PLANNING ENGAGEMENT PLAN

SRLA engaged with the Department of Transport and Planning (DTP) and the cities of Bayside and Kingston to inform the development of the transport recommendations.

This included working collaboratively with DTP to gain endorsement of the M&P network for the Cheltenham structure planning and the changes to the project's reference design (Rev C) provided in the SRL East EES (2021). The changes include introducing a new set of traffic signals on Nepean Highway just north of Enright Street. Due to the new signals, Nepean Highway Service Road on the western side of Bay Road was closed, which in turn required the relocation of the 'pickup / drop-off' parking into the East-West Street The new signals



have substantially improved the pick-up / drop-off parking, pedestrian and cycle connectivity of the station environs and generally accords with the requirements of the SRL East EES panel report to provide a pedestrian and cycle crossing Nepean Highway near Enright Street.

Workshops with officers were held officers from the cities of Bayside and Kingston. A Better Connections workshop discussed emerging key directions relating to transport connections. A M&P and parking workshop discussed the M&P transport network (walking, cycling and general traffic classifications) and the parking provision approach.

A workshop with the cities of Bayside and Kingston was also held in October 2024 to discuss Bay Road.

Feedback from the workshops included:

- Better Connections workshop:
  - The cities of Bayside and Kingston advocated improvement to the bus services. This report recommendations support improved public transport services
  - The roles of Bay Road were discussed. Following earlier comments and workshops, a further workshop with the cities of Bayside and Kingston was held in October 2024 with the focus on Bay Road. This is discussed in the next section
  - » The cities of Bayside and Kingston supported improved permeability across Nepean Highway. This report recommendations support improved permeability across Nepean Highway
  - » An active transport link was suggested across the Frankston Line between the Gasworks and Lyle Anderson Reserve. This report makes recommendations that support an active transport crossing of the Frankston Line
  - » Improving cycling priority was suggested, including on Reserve Road, the Frankston Line C1 off road path and Mathieson Street. This report recommendations support an active transport priority on these corridors.
- M&P and parking workshop:
  - » Generally aligned on the walking hierarchy and strategic cycling corridors
  - » Support for the active transport crossing across the Frankston Line.
- October 2024 Bay Road workshop:
  - » SRLA provided update of changes from previous transport documents
  - » SRLA presented the evolution of the design, including options assessed prior to the SRL East EES in the vicinity of the rail overpass of Bay Road, including challenges of existing condition
  - » The network priority of major corridors over the 1.6-kilometre radius from the SRL station was discussed.

More information is provided in the SRL Structure Planning Engagement Reports on the SRL website at https://bigbuild.vic.gov.au/library/suburban-rail-loop/reports/engagement-reports/structure-planning-engagement-report.



Consultation with the cities of Bayside and Kingston to date is summarised in Table 1.1 and Table 1.2.

#### TABLE 1.1 STAKEHOLDER TRANSPORT CONSULTATIONS AND CONSULTATION TOPICS

STAKEHOLDER	CONSULTATION TOPIC	TRANSPORT CONSULTATIONS	
City of Bayside and City of Kingston	Structure planning program	<ul><li>Workshop conducted in May 2024</li><li>Workshop conducted in August 2024</li><li>Workshop conducted in October 2024.</li></ul>	
	SRL rail-related works	Ongoing engagement to comply with rail project environmental approvals	

## TABLE 1.2 CITY OF BAYSIDE AND CITY OF KINGSTON CONSULTATION DISCUSSION POINTS AND RESPONSES

CONSULTATION TOPIC	KEY ISSUES DISCUSSED	STRUCTURE PLAN RESPONSE
Structure planning program	<ul> <li>Precinct key directions</li> <li>Transport 'Better Connection' themes</li> <li>M&amp;P classification for the Structure Plan Area (walking, cycling and general traffic classifications)</li> <li>Development parking provision (suggested zones and rates)</li> <li>Role of Bay Road.</li> </ul>	<ul> <li>SRLA has developed infrastructure recommendations to reflect the workshopped 'Better Connection' themes and M&amp;P network classifications</li> <li>SRLA will continue to work with the cities of Bayside and Kingston at project planning and delivery stages to deliver the infrastructure recommendations that reflect the M&amp;P classifications</li> <li>SRLA has considered the comments received and reviewed and refined the development parking provision, including the Parking Overlay areas and the car parking provision</li> <li>SRLA has considered feedback received on the role of Bay Road in the Structure Plan and the project as a whole.</li> </ul>



## **2** Existing conditions

This section discusses current transport conditions and challenges in Cheltenham, including the context, active transport, public transport, general traffic and freight, road safety and parking. It outlines the key national, state and local transport policies and strategies relevant to Cheltenham.

## 2.1 Context

#### 2.1.1 KEY DESTINATIONS

The Cheltenham Planning Area is located about 20 kilometres south-east of the Melbourne Central Business District (CBD) and identified in Plan Melbourne to contain a number of centres including the major activity centres of Cheltenham-Southland and Cheltenham (SRL Precinct). These serve as major retail, hospitality and community hubs, attracting trips from across the municipal catchment. The Cheltenham Planning Area also includes the Highett neighbourhood activity centre.

The Cheltenham-Southland MAC is centred on Southland Shopping Centre, which is a regional shopping centre, commercial and entertainment hub serving the south-eastern corridor of Melbourne. Southland Shopping Centre extends over Nepean Highway with 367 retailers and 12 million annual visitors.<sup>4</sup>

The Bayside Business District and Moorabbin Industrial Area are located on the outskirts of Cheltenham and form a focus for commercial, industrial and emerging residential land uses. Cheltenham currently supports 10,500 jobs,<sup>5</sup> generating trips from, within and to Cheltenham.

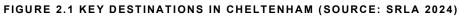
Cheltenham is also home to activity centres, educational uses, community and recreation facilities (such as Sir William Fry Reserve, Cheltenham Park, Waves Leisure Centre and a number of golf courses) as well as some industrial uses along the main arterial roads that provide a suburban focal point for services, employment and social interaction. The Highett Activity Centre is located to the north-west of Cheltenham, which includes a mix of retail, employment and moderate residential growth. These form key destinations and trip generators in Cheltenham and are shown in Figure 2.1.

<sup>&</sup>lt;sup>5</sup> AJM JV, 2025, Economic Profile – Cheltenham



<sup>&</sup>lt;sup>4</sup> Scentre Group, 2024, Westfield Southland, <https://www.scentregroup.com/our-customers/westfield-destinations/westfield-southland >







#### 2.1.2 PUBLIC TRANSPORT AND WALKING ACCESSIBILITY

Figure 2.2 shows the average Transit Score against the average Walk Score for the Cheltenham Structure Plan Area and several areas across metropolitan Melbourne. The data included for the Cheltenham Structure Plan Area include individual location scores (noted within the shaded area), which make up the aggregate score for the Structure Plan Area.

The Transit Score<sup>6</sup> is a 0 to 100 rating tool that measures how well a specific location is serviced by public transport, with 0 being poor public transport access and 100 being great access to public transport. Increased access to public transport service routes and service types result in higher scores.

The Walk Score<sup>7</sup> is a 0 to 100 rating that measures how walkable a specific location is and how accessible it is to nearby amenities. Increased density and diversity of nearby amenities and pedestrian friendliness result in higher scores.

The Cheltenham Structure Plan Area has moderate to high Walk Scores with an average of 72. The Structure Plan Area has a moderate Transit Score with an average of 54. It is noted that the south-west section of the Cheltenham Structure Plan Area has low walk and low Transit Scores (lower left data points).

In the future, increased land use density and diversity is expected to further improve Cheltenham's Walk Score, whilst the SRL East project and other future public transport upgrades are expected to increase its Transit Score (i.e. shift it to the 'top right' of the figure).

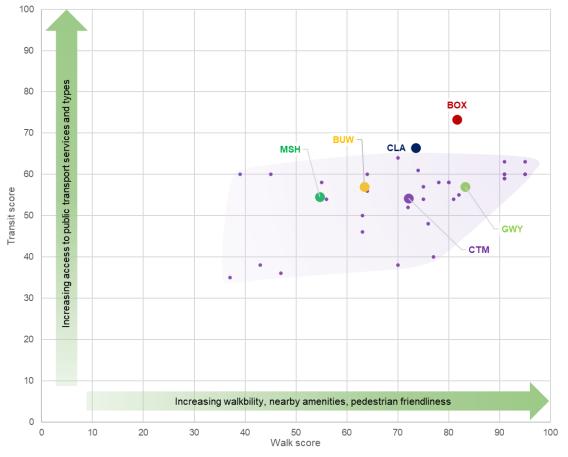


FIGURE 2.2 TRANSIT VS. WALK SCORE FOR THE CHELTENHAM STRUCTURE PLAN AREA

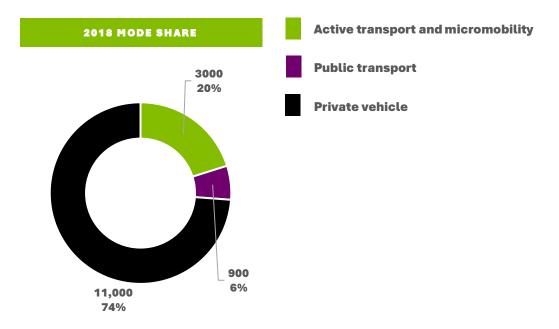
<sup>6</sup> Walk Score, 2024, Transit Score® Methodology, <https://www.walkscore.com/transit-score-methodology.shtml>

<sup>&</sup>lt;sup>7</sup> Walk Score, 2024, Walk Score Methodology, < https://www.walkscore.com/methodology.shtml>



#### 2.1.3 MODE SHARE AND TRAVEL PATTERNS

In 2018, the majority of trips in the Cheltenham Structure Plan Area were by private car (74 per cent) followed by active transport (20 per cent) and public transport (6 per cent) as shown in Figure 2.3. Trips are those travelling to, from and within Cheltenham, trips passing through Cheltenham are excluded.



## FIGURE 2.3 CHELTENHAM 2018 PRIMARY MODE SHARE - WEEKDAY TYPICAL PEAK HOUR (SOURCE: DTP VITM 2018)

As indicated by household travel information from the Victorian Integrated Survey of Travel and Activity (VISTA) data, mode share varies by trip purpose.<sup>8</sup> The mode share is influenced by factors including the availability of effective public transport options, access to private vehicles and travel distance.

Based on VISTA data, the main journey purposes for trips to, from and within Cheltenham include:9

- Shopping (21 per cent)
- Work (20 per cent)
- Social (12 per cent)
- Accompanying someone<sup>10</sup> (9 per cent)
- Personal business (8 per cent) and recreational (8 per cent)
- Education (5 per cent).

The remaining trips are distributed across other journey purposes such as for picking-up or delivering something and other purposes.

The most common outflows are shown in Figure 2.4.11

<sup>&</sup>lt;sup>11</sup> The VISTA data includes data captured all day on a weekday. The data used is from 2012 – 2020.



<sup>&</sup>lt;sup>8</sup> Includes the Cheltenham SA2 boundaries which extend slightly beyond the Planning Area.

<sup>&</sup>lt;sup>9</sup> The VISTA data includes data captured all day on a weekday. The data used is from 2012 – 2020.

<sup>&</sup>lt;sup>10</sup> Includes trips to various destinations including education, services, transport etc.

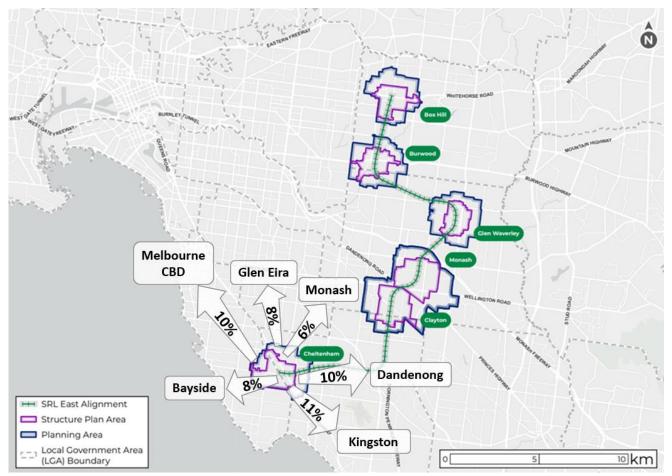


FIGURE 2.4 COMMON WORK DESTINATIONS FROM CHELTENHAM<sup>12</sup>

Commuter travel from Cheltenham is primarily by private vehicle mode with a strong north-west south–east connection via Nepean Highway, providing links to the major employment centres outside Melbourne CBD.

Employment in Melbourne CBD is the primary destination for non-private car commuter trips and is accessed via stations on the Frankston Line including the existing Highett Station, Southland Station and Cheltenham Station, with the latter being on the express service stopping schedule.

#### 2.1.4 RESIDENTIAL CAR OWNERSHIP

The main household type in Cheltenham is 'couples with children', with the main dwelling structure a detached house. While most of the older housing stock in Cheltenham comprises one to two-storey detached houses, higher-density living is becoming more common. In 2019, an amendment to the Kingston Planning Scheme (C159) came into effect allowing the Highett Gasworks site to be redeveloped by others (not part of the SRL scope) including a diverse range of homes of various sizes and types.

From 2016 to 2021 there was notable growth in higher-density dwellings (flats and apartments in three storey and larger blocks that include four storeys or more).

Car ownership levels by household type within the area around the SRL station at Cheltenham are shown in Figure 2.5. This varies by dwelling type and size, with slightly lower rates for those living in flats or apartments. Car ownership is higher in Cheltenham than areas such as Melbourne where there are higher levels of public transport services and mode share near significant employment, retail and other land uses. Cheltenham has

<sup>&</sup>lt;sup>12</sup> Base map source: SRLA, 2024. Data source: VISTA (2012 – 2020) for the Cheltenham ABS SA2 boundaries which extend slightly beyond the Planning Area. Common work destinations from Cheltenham in the figure are SA2 locations.



slightly lower car ownership levels for all dwellings than the Bayside and Kingston local government areas (LGAs) and Metropolitan Melbourne.

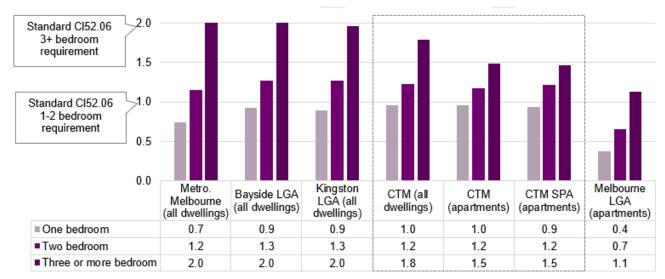


FIGURE 2.5 CHELTENHAM AVERAGE CAR OWNERSHIP COMPARISON BY HOUSEHOLD TYPE (SOURCE: ABS 2021)

The zero car ownership levels by household type in Cheltenham are shown in Figure 2.6. Apart from onebedroom dwellings and apartments, Cheltenham recorded a slightly higher proportion of dwellings that do not own a car compared to the wider Bayside and Kingston LGAs.

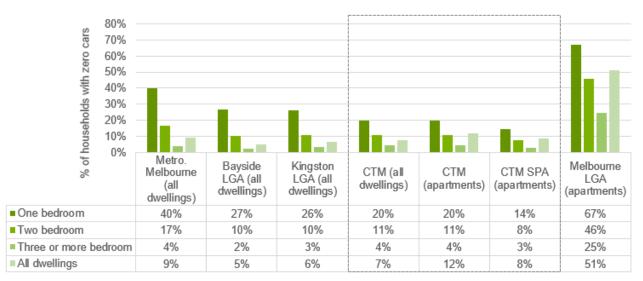


FIGURE 2.6 CHELTENHAM – ZERO CAR OWNERSHIP COMPARISON BY HOUSEHOLD TYPE (SOURCE: ABS 2021)

#### 2.1.5 RESIDENTIAL BICYCLE OWNERSHIP

VISTA includes bicycle ownership data for different household types and sizes.<sup>13</sup> While the sample size is small, the VISTA data provides an indication of bicycle ownership in the Cheltenham Planning Area which is summarised in Figure 2.7 and Figure 2.8.

<sup>&</sup>lt;sup>13</sup> The VISTA data used is from 2012 – 2020 and 2022. Note relatively small sample data available for some SRL East Planning Areas and metrics.



The data indicates that the Cheltenham Planning Area currently has relatively low bicycle ownership, particularly for smaller households. However, as household size grows, bicycle ownership increases with two or more people households on average exceeding the bicycle parking requirements suggested by the current Clause 52.34 Planning Scheme rates.

Cheltenham's relatively low VISTA bicycle ownership levels align with the relatively low level of cycling movements recorded in Cheltenham. Aside from Bay Road during the weekday peak period and Chesterville Road in the weekend peak period, cycling activity surveyed around the SRL station at Cheltenham recorded up to 15 cyclists during the weekday peak period and 9 cyclists during the weekend peak period.<sup>14</sup>

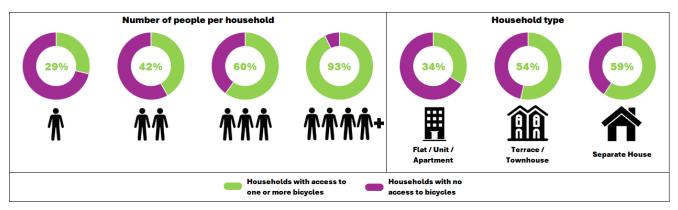
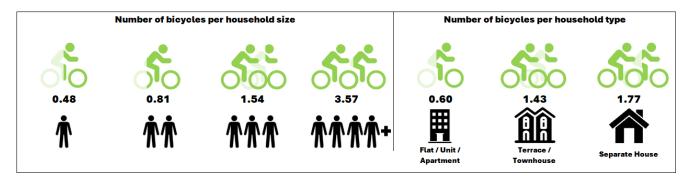


FIGURE 2.7 CURRENT HOUSEHOLDS IN THE CHELTENHAM PLANNING AREA WITH ACCESS TO AT LEAST ONE BICYCLE (SOURCE: VISTA 2012-2020 AND 2022)



### FIGURE 2.8 CURRENT BICYCLE OWNERSHIP PER HOUSEHOLD SIZE AND TYPE IN CHELTENHAM PLANNING AREA (SOURCE: VISTA 2012-2020 AND 2022)

<sup>&</sup>lt;sup>14</sup> Source: SRLA, 2023. Recorded weekday peak period between 3pm – 4pm and weekend peak period between 11am – 12pm.



## 2.2 Transport network

#### 2.2.1 WALKING

The pedestrian network of Cheltenham is shown in Figure 2.9, where the walkable network shown includes footpaths, shared use paths and trails. Many trips in different parts of Cheltenham are by walking. Most streets in Cheltenham have footpaths on both sides of the road and provide access between the residential areas and key destinations.

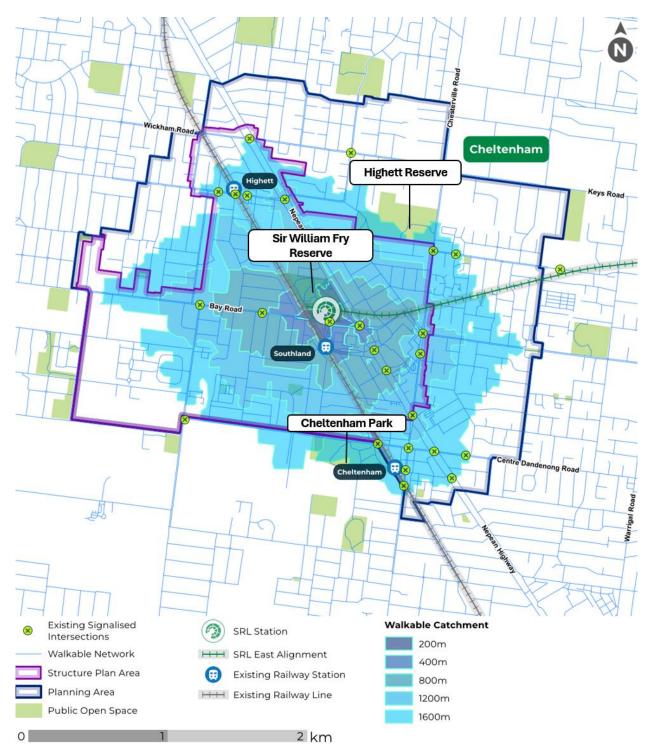


FIGURE 2.9 WALKING CATCHMENT AROUND THE SRL STATION AT CHELTENHAM (SOURCE: SRLA 2024)



The 800-metre walkable catchment from the SRL station at Cheltenham shown in Figure 2.9 indicates the station is within a 10-minute walk to Southland Shopping Centre and Sir William Fry Reserve. The catchment is primarily concentrated along Bay Road and the adjacent connector and local roads that branch off it. The 1600-metre walkable (20-minute walk) catchment generally covers the Structure Plan Area except to the west of Reserve Road where the Cheltenham Memorial Park and Cemetery is located.

Areas of high-quality pedestrian provision are present most notably in the Highett and Cheltenham Activity Centres, along Highett Road, Charman Road / Park Road, as shown in Figure 2.10. These high streets feature active frontages, shade and plenty of places to stop and rest. Such areas see high volumes of pedestrian activity and also form regionally significant walking links.

Amenity and safety were enhanced with the level crossing removals on Charman Road and Park Road in Cheltenham, which provided more than 3 kilometres of walking and cycling paths connecting the existing Mentone and Cheltenham Stations, improving urban realm, lighting and accessibility in the Cheltenham Activity Centre. These enhancements will be extended by the Charman Road Shopping Strip Footpath and Streetscape Rejuvenation Project.<sup>15</sup>



FIGURE 2.10 PEDESTRIAN AMENITY ON CHARMAN ROAD (SOURCE: SRLA 2022)

<sup>&</sup>lt;https://www.kingston.vic.gov.au/files/sharedassets/public/hptrim/charman-road-mentone-shopping-strip-revitalisation-at-balcombe-roadintersection/bulletin-questionnaire-charman-road-traders.pdf>



<sup>&</sup>lt;sup>15</sup> City of Kingston, August 2023, Makeover planned for the Charman Road Shops, Mentone, [Bulletin],

East–west crossings of the Frankston Line were enhanced in the south of Cheltenham with the recent level crossing removals at Charman Road and Park Road and the Cheltenham Station Plaza.

There are three rail corridor crossings north of Park Road and provided along the 2-kilometre length of the rail to the existing Highett Station. These rail crossings are located at Highett Road (at-grade pedestrian level crossing), Bay Road (grade separated rail crossing) and Jean Lane (at-grade pedestrian level crossing).

The Bay Road footpath that runs under the rail bridge is a primary pedestrian access route to Southland Station and Southland Shopping Centre (see Figure 2.11).

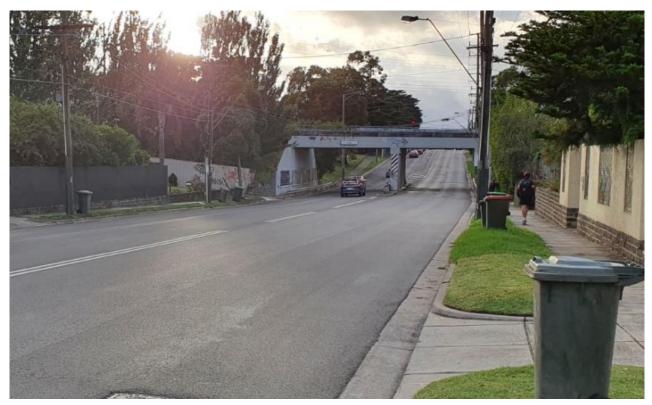


FIGURE 2.11 BAY ROAD UNDERPASS

Jean Street Reserve and Garfield Lane located directly south of Southland Shopping Centre were recently upgraded by the Kingston City Council to improve safety and amenity for pedestrians.<sup>16</sup>

The City of Kingston is also currently investigating improved crossing facilities at the following locations:<sup>17</sup>

- Charman Road / Station Road (Cheltenham) Council is investigating signalisation of this intersection to
  provide improved pedestrian crossing opportunities to the new station precinct
- Karen Street at Matthieson Street (Southland) Council is investigating a new pedestrian crossing at this
  intersection and considering reducing traffic speeds to 50 km/h on Karen Street and Tennyson Street.

<sup>&</sup>lt;sup>17</sup> City of Kingston, 2023, Walking and Cycling Plan 2023 – 2028, < https://www.kingston.vic.gov.au/council/council-documents/plans-policies-and-reports/cycling-and-walking-plan>



<sup>&</sup>lt;sup>16</sup> Your Kingston, Your Say, March 2023, Jean Street Reserve and Garfield Lane park and safety upgrades, <<u>https://www.yourkingstonyoursay.com.au/jeanstreetreserveandgarfieldlane?tool=guest\_boo</u>k>

High levels of pedestrian activity in Cheltenham are concentrated within the Highett and Cheltenham Activity Centres on Highett Road and Charman Road throughout the week.

Lower levels of pedestrian movement occur along vehicle-oriented routes around Southland Shopping Centre and bus interchange. However, access is busier on the weekend.

Pedestrian movement volumes along key roads surveyed at midblock locations in 2023 are listed in Table 2.1.

## TABLE 2.1EXISTING PEDESTRIAN MOVEMENT VOLUMES IN THE CHELTENHAM STRUCTURE PLAN<br/>AREA (SOURCE: SRLA 2023)

STREET	WEEKD	WEEKEND PEAK	
SIREEI	12:00 - 13:00	16:00 – 17:00	11:00 – 12:00
Highett Road (between Railway Parade and Henry Street)	250	190	240
Charman Road (between Park Road and Station Road)	200	120	180
Bay Road (between Munro Avenue and Davie Avenue)	30	30	30
Karen Street (between Nepean Highway and Matthieson Street)	10	50	210
Nepean Highway (Southland Shopping Centre, near Jamieson Street)	80	70	40

#### WALKING CHALLENGES

The walking challenges in the Structure Plan Area are summarised and shown in Figure 2.12.



Location-specific walking challenges:

- Pedestrian accessibility and safety are impacted by barriers to movement including the railway corridor and infrequent protected crossing points along highly trafficked arterial roads such as Nepean Highway, Bay Road and Chesterville Road. For example, Nepean Highway has crossing points that are typically multi-legged, requiring pedestrians to wait longer than one signal phase to cross (Figure 2.13).
- The pedestrian catchment is interrupted by large private and industrial blocks that extend walking trips, including Southland Shopping Centre (when closed), Bayside Business District, Moorabbin Industrial Area, Cheltenham Gasworks site and the former CSIRO site.

Amenity varies throughout Cheltenham, with lower-quality pedestrian environments outside the activity centres and along vehicle-orientated main roads such as Bay Road and Nepean Highway. Inactive frontages such as around Southland Shopping Centre result in a poor pedestrian environment.

Nepean Highway Service Roads allow for on-street parking and has many vehicle crossovers on the footpath. Crossovers particularly reduce the amenity and feeling of pedestrian comfort along the Bay Road and Nepean Highway corridors.

Structure Plan Area walking challenges:

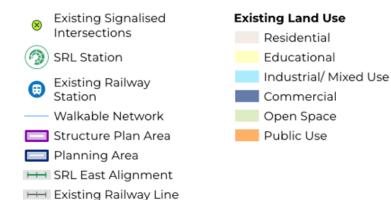


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Pedestrians are generally not prioritised in Cheltenham, with long wait times at signalised intersections crossing key corridors.



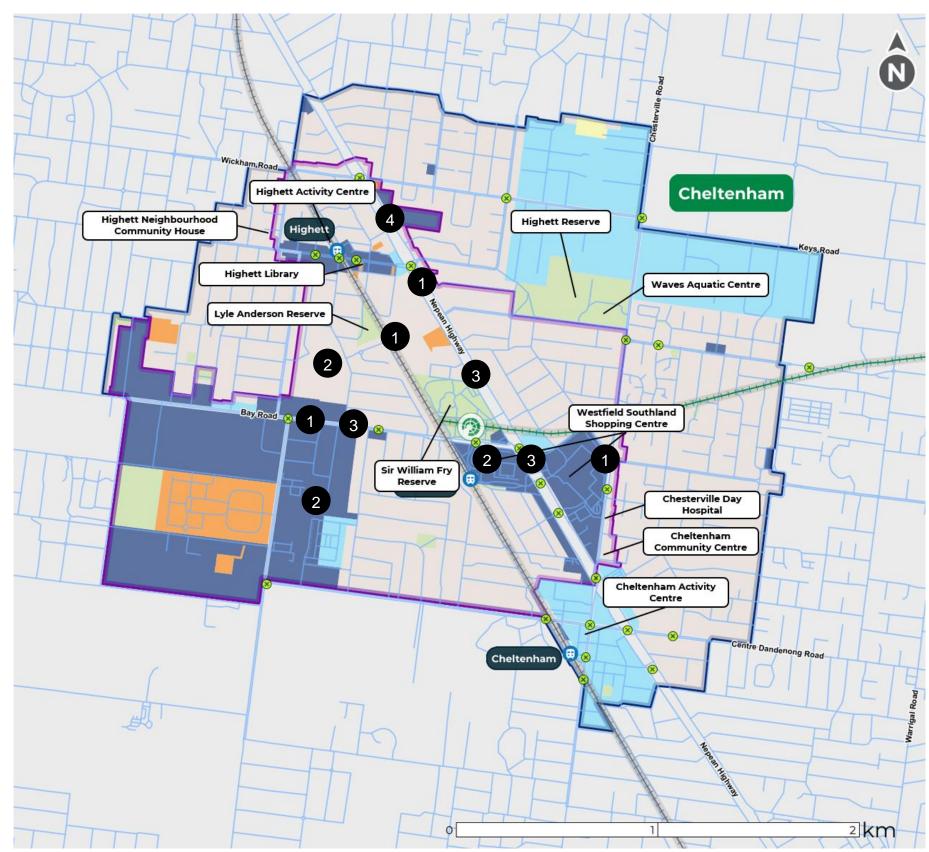


FIGURE 2.12 WALKING CHALLENGES IN THE CHELTENHAM STRUCTURE PLAN AREA



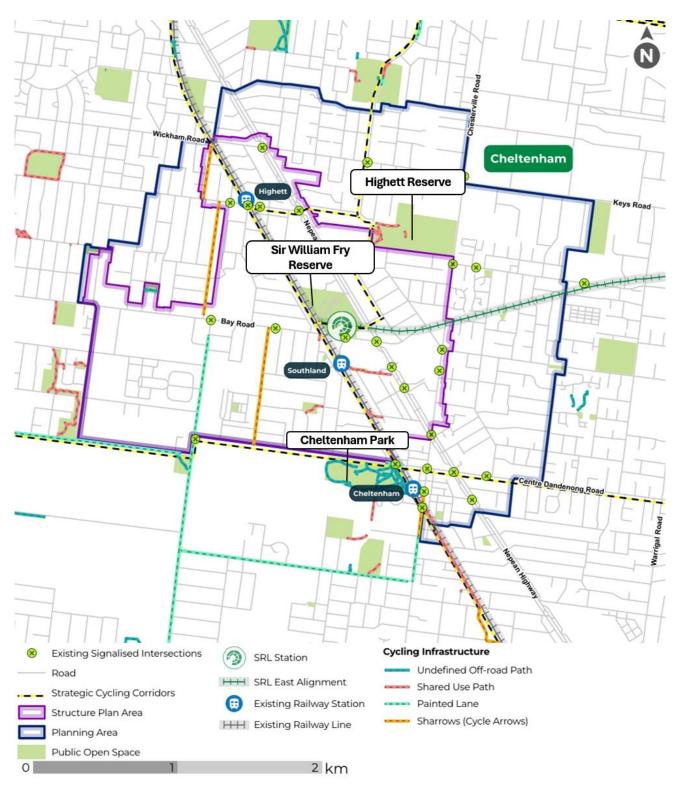


FIGURE 2.13 NEPEAN HIGHWAY PEDESTRIAN CROSSINGS

#### 2.2.2 CYCLING, INCLUDING MICROMOBILITY

Cycling and micromobility in this section refers to bicycles, scooters and skateboards, including shared and/or electric modes. E-bikes and e-scooters (share schemes and private ownership) are also captured in this mode as they are currently limited to a maximum speed of 25 km/h and legally allowed on public low-speed roads, shared use paths, bike paths and on-road cycle lanes in Victoria.

Figure 2.14 shows the existing cycling infrastructure and Strategic Cycling Corridors (SCCs) in Cheltenham. SCCs form part of the DTP aspirational cycling network that aims to support commuter trips and link to destinations that have metropolitan and regional significance such as employment and activity centres. These corridors can be on and off road, on municipal and state roads and should be designed to provide a safe, lowerstress cycling for transport experience. However, not all SCCs currently have adequate cycling infrastructure to support a safe and low-stress cycling environment.





Despite the SCC network shown in Figure 2.14, there are few separated cycle routes serving Cheltenham.

Cheltenham does not have separated cycle routes beyond the shared use path that runs partially along the Frankston Line. The route runs through Cheltenham from the southern extent through the Cheltenham Activity Centre to Jean Lane, where it currently terminates.



FIGURE 2.15 SHARED USE PATH AT CHELTENHAM STATION (SOURCE: SRLA 2022)

On-road bike lanes are provided on Reserve Road, Tulip Street and sections of Charman Road in the south of Cheltenham. However, these lanes also allow on-street parking and are observed to be often occupied. Cyclists cycling near these vehicles are at much greater risk of being 'doored' (crashes resulting from vehicle doors being opened onto a cyclist's path).

Public consultation is currently on-going about redesigning the road layout on Bernard Street<sup>18</sup> to provide improved facilities for cyclists and access to Cheltenham Secondary School.

Bicycle lanterns are provided at some road crossings in Cheltenham, including at Charman Road and Park Road as shown in Figure 2.16.

<sup>&</sup>lt;sup>18</sup> City of Kingston, 2023, Walking and Cycling Plan 2023 – 2028, < https://www.kingston.vic.gov.au/council/council-documents/plans-policies-and-reports/cycling-and-walking-plan>





#### FIGURE 2.16 SHARED USE PATH CROSSING ON CHARMAN ROAD (SOURCE: SRLA 2022)

The levels of cycling activity in Cheltenham are very low, concentrated within the activity centres during the weekday afternoons and around Southland Shopping Centre on the weekends.

Cyclist movements along key roads in the Structure Plan Area are presented in Table 2.2.

TABLE 2.2 EXISTING	CYCLING MOVI	EMENT VOLUMES	(SOURCE: SRLA 2023)

STREET	WEEKDAY PEAK 15:00 – 16:00	WEEKEND PEAK 11:00 - 12:00
Highett Road	15	<5
Bay Road	20	<10
Charman Road	10	15
Chesterville Road	15	40

#### CYCLING AND MICROMOBILITY CHALLENGES

The cycling and micromobility challenges in the Structure Plan Area are summarised and shown in Figure 2.17.



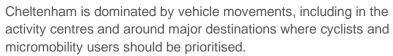
#### Location-specific cycling challenges:



2

3

The rail line and heavily trafficked roads such as Nepean Highway, Bay Road, Reserve Road and Chesterville Road discourage north-south and east-west movements through the Structure Plan Area, with few crossing points and long crossing wait times.



The rail line, Centre Dandenong Road / Park Road and Rowans Road / Highett Road / Peace Street / Matthieson Street / Enright Street form part of the SCC network, although it currently has limited cycling infrastructure and does not meet the requirements for a SCC.

#### Structure Plan Area cycling challenges:



There is limited infrastructure such as end-of trip facilities to support the continued uptake of micromobility as an emerging transport mode in Cheltenham.



The lack of dedicated provision for cyclists throughout Cheltenham reduces safety, and significantly lowers the use of bicycles as a means of transport. Where on-road cycle lanes are present, they are shared with on-street parking. Cyclists cycling near these often occupied on-street parking spaces are at much greater risk of being 'doored'.

Wayfinding for cyclists and micromobility users is limited to basic measures and lacks intuitive customer-focused messaging.



Residential

Commercial

Educational

Open Space

Public Use

Industrial/ Mixed Use

- 😟 Existing Railway Station
- ----- Road
- 🔲 Structure Plan Area
- Planning Area
- HI SRL East Alignment
- HH Existing Railway Line

#### **Cycling Infrastructure**

- ----- Undefined Off-road Path
- ---- Shared Use Path
- ---- Painted Lane
- ---- Sharrows (Cycle Arrows)

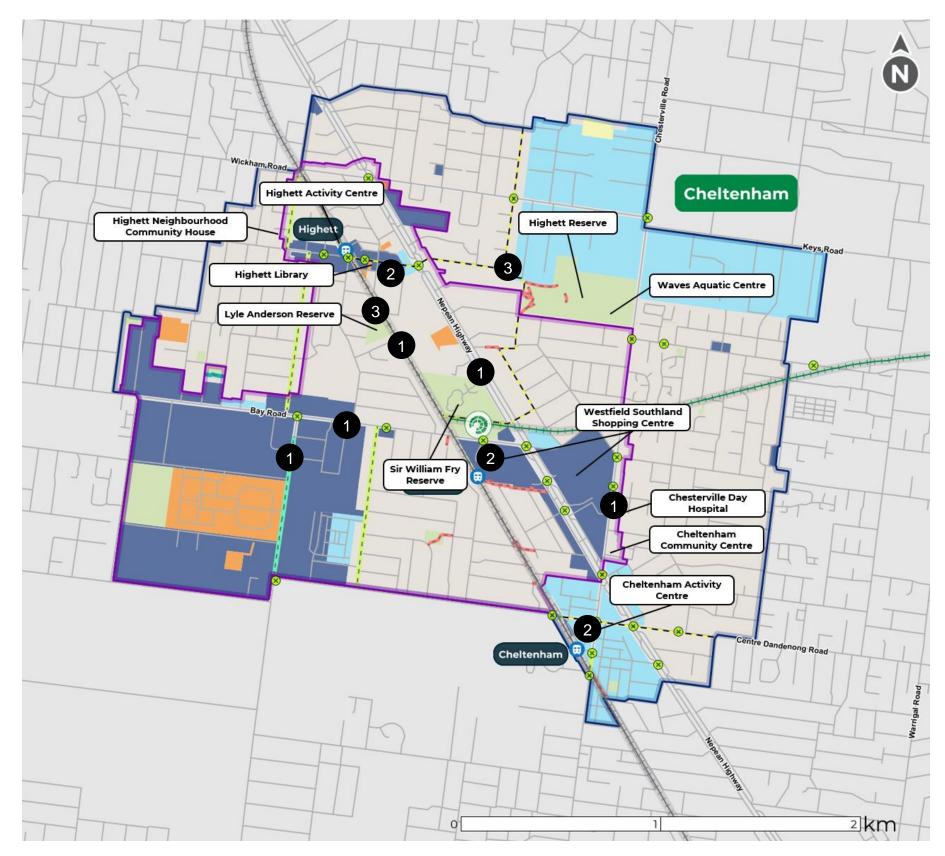


FIGURE 2.17 CYCLING CHALLENGES IN THE CHELTENHAM STRUCTURE PLAN AREA

#### 2.2.3 PUBLIC TRANSPORT

Cheltenham includes three existing stations on the Frankston Line (the existing Highett Station, Southland Station and Cheltenham Station) and a network of bus routes with a bus interchange at Southland Shopping Centre and bus stops located along key arterial roads.

The Frankston Line provides access to the outer eastern suburbs between Frankston and Melbourne CBD.

Buses support public transport connectivity across the remainder of Cheltenham and from outer suburbs in the south-eastern metropolitan region.

Figure 2.18 shows the extent of the current Principal Public Transport Network (PPTN) coverage in Cheltenham. This network identifies high-quality public transport service routes and the land within a 400-metre radius of the route or railway station. The current PPTN coverage in the Structure Plan Area is around 67 per cent, concentrated at and adjacent to the existing Highett Station, Southland Station and Cheltenham Station as well as Bay Road and Chesterville Road. It should be noted that the PPTN coverage as currently outlined in the planning scheme was updated in 2018. and therefore does not include SRL East.



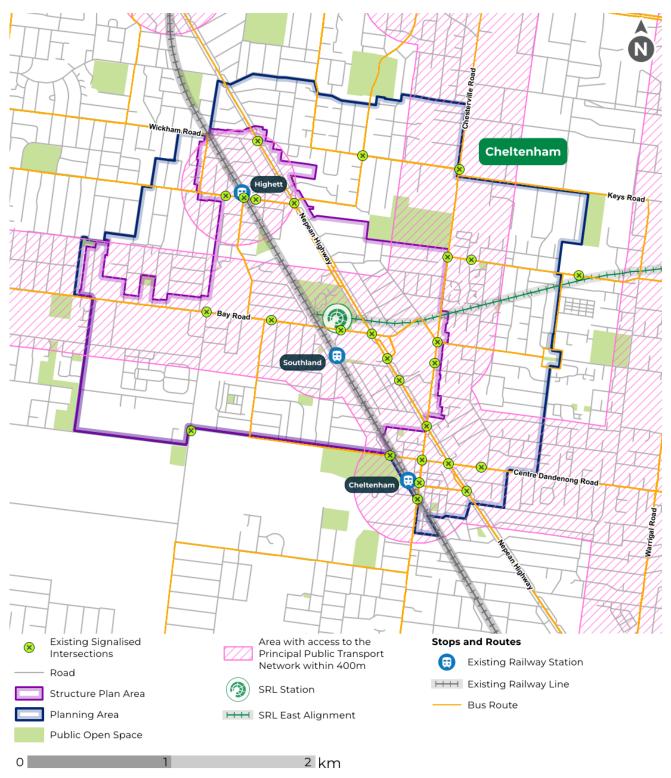


FIGURE 2.18 PUBLIC TRANSPORT NETWORK AND PRINCIPAL PUBLIC TRANSPORT NETWORK COVERAGE (SOURCE: SRLA 2024)

#### RAIL NETWORK

Cheltenham is serviced by the existing Cheltenham, Highett and Southland Stations along the Frankston Line. The three stations are located in the existing activity centres.

The existing Southland Station is located to the west of Southland Shopping Centre and south of Bay Road and is within transfer distance to the SRL station at Cheltenham. The existing Cheltenham Station is located around 1.1 kilometres to the south-east and Highett Station 1.2 kilometres to the north-east, in the northern edge of the Cheltenham Planning Area.

The existing Cheltenham Station operates a turn-up-and-go frequency on weekdays. During the morning peak, there are trains every 5 minutes to and from the city with a journey time of 29 to 38 minutes to the CBD. The existing Cheltenham Station is also serviced by express trains during the peak periods. The existing Southland and Highett Stations are not serviced by express services.

Average peak period station entries are presented in Figure 2.19. The existing Southland Station opened in November 2017 to provide more direct public transport services to Southland Shopping Centre and the surrounding residential and industrial areas. The existing Southland Station currently caters for around 200 boardings in the AM peak, the existing Cheltenham Station caters for around 950 and Highett Station around 500. Patronage has not returned to pre-Covid levels at any of the stations, however, has been increasing year on year since 2020-21.

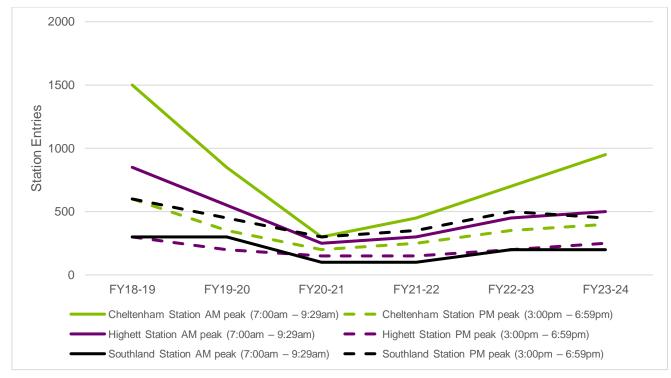


FIGURE 2.19 PEAK PERIOD STATION ENTRIES (SOURCE: DATA VIC)

Modelled peak period boardings and alightings by access mode are summarised in Table 2.3. Most passengers arrive and depart Cheltenham Station by car. Across the AM peak, 50 per cent drive to the station, 38 per cent walk and 12 per cent arrive by bus. In the PM peak, 47 per cent of passengers depart the station by car, 40 per cent by foot and 13 per cent by bus.<sup>19</sup>

<sup>&</sup>lt;sup>19</sup> Based on DTP VITM 2018



Walking is the primary mode to and from this station during the peak periods.<sup>19</sup>

STATION		AM PEAK (7 – 9 AM)				PM PEAK (3 – 6 PM)					
STATION		WALK	DRIVE	V/LINE	BUS	TOTAL	WALK	DRIVE	V/LINE	BUS	TOTAL
	Boardings	600	800	N/A	200	1600	400	0	N/A	200	600
Cheltenham	Alightings	300	0	N/A	200	500	600	700	N/ A	200	1500
LP-b-str	Boardings	400	300	N/A	0	700	700	100	N/A	100	900
Highett	Alightings	700	0	N/A	0	700	500	400	N/A	0	900

## TABLE 2.3MODELLED PEAK HOUR BOARDINGS AND ALIGHTINGS (AND ACCESS MODES) 20, 2018<br/>(SOURCE: VITM)

The existing Southland Station is accessible on the eastern side of the rail line only via the existing Southland Station car park, with no direct access to the residential area west of the station.

The existing Cheltenham Station was rebuilt in 2020 with the removal of the Park Road and Charman Road level crossings. The new station forecourt fronts Charman Road, with vehicular access via Railway Walk. It connects to the 3.5-kilometre shared use path to the south of the rail line between Cheltenham and Mentone. The station precinct includes an improved taxi rank, two pick-up / drop-off zones, additional bike parking with a Parkiteer cage and bike hoops, and a new multi-level car park. Bus stops for Cheltenham Station are located on Charman Road and Station Road with two bus stops located on either side of Charman Road, around 70 metres from the station entrance and one bus stop on Station Road, around 170 metres from the station entrance.

The existing Highett Station can be accessed directly from Highett Road. The Highett Road level crossing is earmarked for removal by the Level Crossing Removal Project (LXRP) by 2029.<sup>21</sup> This will include a new rail bridge, station and community space. The bus stop for the existing Highett Station is located directly south of the station entrance along Highett Road.

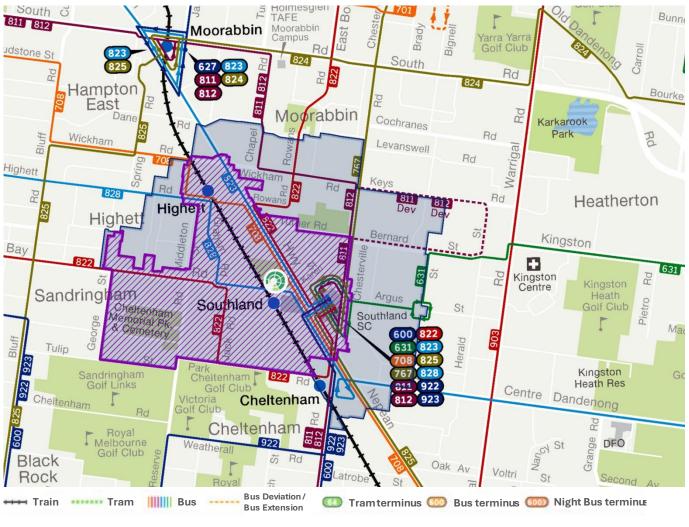
#### BUS NETWORK

Cheltenham has a network of 13 bus routes operating in Cheltenham, all of which pass through the Southland Shopping Centre bus interchange. However, only four bus routes pass within 300 metres of the SRL station at Cheltenham, as shown in Figure 2.20. These provide access across the south-east to Southland Shopping Centre, rail stations, activity centres and industrial areas. In addition to the bus services in Figure 2.20 is the Melbourne Airport Skybus which stops at the Southland Shopping Centre bus interchange. Nepean Highway and Bay Road / Karen Street form key bus access routes to the east of Nepean Highway.

<sup>&</sup>lt;sup>21</sup> Victorian Infrastructure Delivery Authority, 2024, Frankton Line level crossing removals,< https://bigbuild.vic.gov.au/projects/levelcrossing-removal-project/projects/frankston>



<sup>&</sup>lt;sup>20</sup> Southland MMRN is not operational in DTP's 2018 VITM Reference Case public transport network (version VITM18\_v1.21). As such, there is no patronage or mode of access figures available from VITM that are directly comparable against Cheltenham and Highett.



– Planning Area – Structure Plan Area

#### FIGURE 2.20 BUS NETWORK IN CHELTENHAM (BASE MAP SOURCE: PTV 2023)

The bus network provides a reasonably comprehensive coverage of Cheltenham catchment and is important for connecting households to the east of the suburb of Cheltenham where there is no rail line.

The bus routes have a service frequency in each direction of every 15 to 60 minutes, with the SmartBus route 902 around every 15 minutes. Route 754 includes express services in peak periods to connect the existing Rowville to Cheltenham Station.

Most of the routes (85 per cent) operate on weekends, and more than half operate until at least 9 pm every night. Higher frequency of service operates along key arterial roads, including Chesterville Road and Nepean Highway, south of Bay Road. During the interpeak period and weekends, the number of services operating in Cheltenham is generally less frequent (30 to 40 minutes).

The busiest bus stops in the Structure Plan Area as shown in



Table 2.4 include the Southland Shopping Centre bus interchange and Cheltenham Station.

## TABLE 2.4BUS STOP PATRONAGE STATISTICS (SOURCE: VITM 2018, DEPARTMENT OF<br/>TRANSPORT INSIGHTS TEAM (JUNE 2021), TABLEAU PUBLIC - 2018-19 BUS STOP<br/>PATRONAGE MELBOURNE)

BUS STOP LOCATION	DAILY AVERAGE BOARDINGS
Highett Station	2600
Southland Station	1700
Cheltenham Station	3800
Southland Shopping Centre bus interchange	850
Pine Street / Chesterville Road	180
Cheltenham Station / Station Road	270
Sir William Fry Reserve / Nepean Highway	40
Pine Street / Chesterville Road	180
Munro Avenue / Bay Road	30
Highett Station / Highett Road	100

#### PUBLIC TRANSPORT CHALLENGES

The public transport challenges in the Structure Plan Area are summarised and shown in Figure 2.21.



Location-specific public transport challenges:

The existing Southland Station is difficult to access with no direct entrance from the west, requiring pedestrians to walk through the car parking area of Southland Shopping Centre on the eastern side (Figure 2.22). This decreases perceptions of safety and diminishes customer experience. Also, despite being next to the rail line, residents of Tulip Grove are required to travel out onto Bay Road and back to access the station entrance, a distance of 600 metres or about a 7-minute walk.

The existing Southland Station and the Southland Shopping Centre bus interchange are located on opposite sides of the Nepean Highway (around 500 metres apart). The integration between the two facilities is not obvious and requires passengers to travel within the shopping centre (when open) or along Bay Road, crossing the busy Nepean Highway

The Southland Shopping Centre bus interchange does not provide a positive customer experience, located undercover with high noise levels and poor lighting (see Figure 2.23). Only two of the bus stops provide appropriate seating with tactile ground surface indicators (TGSIs). The remaining two stops do not have the infrastructure required to meet the *Disability Discrimination Act 1992* (Cth) (DDA Act) requirements. Wayfinding to the bus interchange from Nepean Highway and Karen Street is also observed to be poor.

Existing Frankston Line express services do not stop at the existing Southland and Highett Stations during peak periods (in the peak direction), resulting in lower frequency peak services.

#### Structure Plan Area public transport challenges:

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The bus network is convoluted and includes a range of service gaps and meandering routes, which reduce public transport accessibility to key destinations in Cheltenham.



Bus service frequencies are insufficient to provide a competitive alternative to the private car and increase overall journey times.

Bus service reliability and performance are hampered by a lack of on-road bus priority measures such as bus lanes and priority signals at intersections.

The quality of bus stops and waiting area infrastructure is inconsistent across Cheltenham.

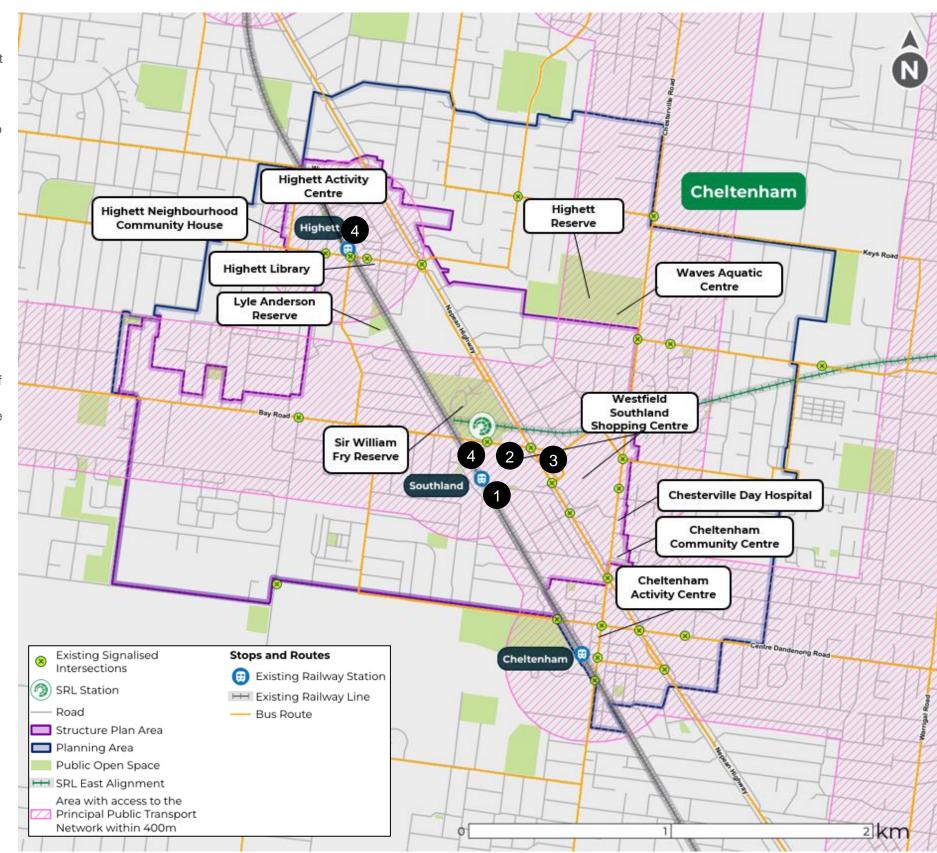


FIGURE 2.21 PUBLIC TRANSPORT CHALLENGES IN THE CHELTENHAM STRUCTURE PLAN AREA





FIGURE 2.22 SOUTHLAND STATION ACCESS VIA SOUTHLAND SHOPPING CENTRE VEHICULAR ACCESS

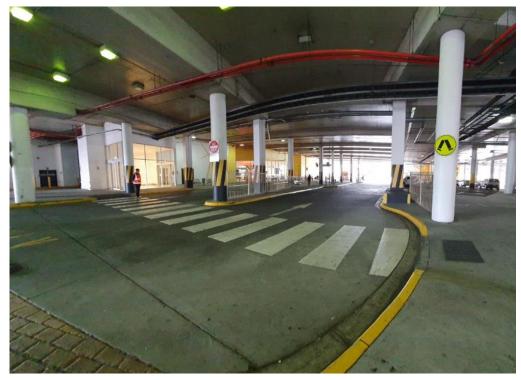


FIGURE 2.23 SOUTHLAND SHOPPING CENTRE BUS INTERCHANGE



#### 2.2.4 PRIVATE VEHICLES

#### ROAD NETWORK CHARACTERISTICS

Vehicle access throughout Cheltenham is provided by multi-lane arterial roads and an extensive network of connector and local streets. The road network hierarchy and existing signalised intersections in Cheltenham is shown in Figure 2.24

Nepean Highway runs north-west to south-east through the centre of Cheltenham. It forms the primary road route from central Melbourne through to Melbourne's southern and bay side suburbs, supporting significant through traffic to and from the inner city as well as for access in Cheltenham. The highway has a street width of 65 to 72 metres, three to four lanes in each direction widening at intersections, service roads, and a speed limit of 80 km/h.

Bay Road forms the main east-west route through Cheltenham and provides access to Southland Station, Southland Shopping Centre, Bayside Business District and to Sandringham and the western coast. Bay Road has a street width of more than 25 metres, four lanes and a speed limit of 60 km/h.

Highett Road, Park Road / Centre Dandenong Road and Wickham Road also provides key east-west routes with direct access to key destinations such as the activity centres, stations, business and industrial areas. Chesterville Road / Charman Road is the main north-south route through Cheltenham, between the Moorabbin industrial area to the north and Beach Road in the south via the Cheltenham Activity Centre and the existing Cheltenham Station. On-street parking is available widely throughout Cheltenham, providing convenient vehicle access.

No Principal Freight Network (PFN) routes pass through the Cheltenham Planning Area, although the arterial roads form part of the B-Double Heavy Vehicle network catering for freight vehicles.

Nepean Highway also operates as the primary freight route in Cheltenham and provides a link from the Melbourne CBD through to the Mornington Peninsula.

The loading areas for Southland Shopping Centre are accessed off Bay Road, Karen Street and Chesterville Road.

Warrigal Road and South Road are located just outside the Planning Area (around 2 kilometres east and north of the SRL station at Cheltenham respectively). These two roads form part of the PFN and an alternative to Nepean Highway. The routes provide freight access to Monash Freeway, and Mordialloc Freeway / Mornington Peninsula Freeway.



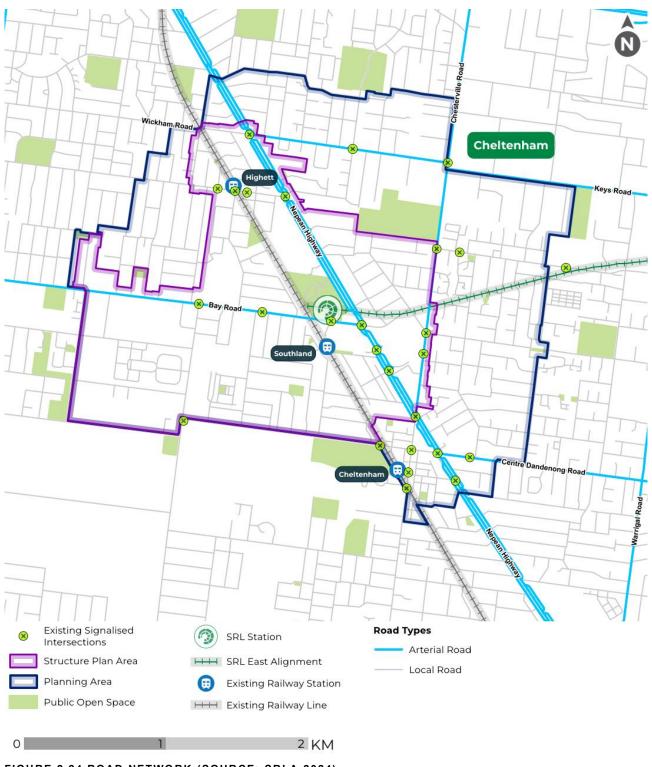


FIGURE 2.24 ROAD NETWORK (SOURCE: SRLA 2024)

#### ROAD NETWORK CONDITIONS

The traffic volumes for key routes in Cheltenham are listed in Table 2.5.

In Cheltenham, heavy vehicle volumes comprise 5 to 7 per cent of the total traffic along the key arterial roads per direction.

ROAD	CLASSIFICATIONS	SPEED LIMIT	DIRECTION	LANES	AM PEAK 2023 [VEH/H]	PM PEAK 2023 [VEH/H]	AADT	% AADT HV
Nepean	Arterial Highway	80 km/h	Southbound	3	2100	2700	32,000	5%
Highway			Northbound	3	2900	2600	34,000	5%
Bay Road	Arterial Other	60 km/h	Eastbound	2	N/A	N/A	8700	6%
			Westbound	2	N/A	N/A	12,000	6%
Highett Road	Arterial Other	40 km/h	Eastbound	1	N/A	N/A	4200	N/A
			Westbound	1	N/A	N/A	4200	N/A
Centre Dandenong	Arterial Other	60 km/h	Eastbound	2	800	850	9400	6%
Road			Westbound	2	600	550	7700	6%
Wickham Road	Arterial Other	60 km/h	Eastbound	1	N/A	N/A	4600	6%
			Westbound	1	N/A	N/A	4600	6%
Chesterville Road	Arterial Other	60 km/h	Southbound	1	350	450	4800	7%
Nuau			Northbound	1	400	500	6000	7%
Park Road	Municipal Road	60 km/h	Eastbound	1	N/A	N/A	5400	N/A
			Westbound	1	N/A	N/A	5400	N/A
Charman Road	Municipal Road	60 km/h	Southbound	1	N/A	N/A	4500	6%
			Northbound	1	N/A	N/A	6600	6%
Karen Street	Municipal Road	60 km/h	Eastbound	1	N/A	N/A	6900	6%
			Westbound	2	N/A	N/A	8000	6%
Rowans Road	Municipal Road	60 km/h	Eastbound	1	N/A	N/A	4400	N/A
			Westbound	1	N/A	N/A	4400	N/A

Notes:

 AM Peak, PM Peak and AADT: A range of traffic volumes have been provided where traffic volumes vary across the road/corridor (where available). Data was last updated on DTP Open Data website on 4/5/2023 at the time of data retrieval but some data may be historic and include traffic conditions during COVID-19 lockdowns.

'N/A' – no data available at time of extraction.

 Municipal Roads are council owned, supporting slower speeds and lower traffic volumes compared to arterial roads, freeways and highways.

- Arterial Highways and Arterials (other) have similar functions as both are designed for moderate to high traffic volumes. Arterial
  roads and highways are typically used for inter-suburban or inter-urban journeys, often linking to freeways. Arterial Highways often
  support more volumes of traffic with more lanes and higher speeds compared to Arterials (other).
- Freeways are designed to move large numbers of vehicles and freight at higher speeds than arterial roads and are strategic corridors connecting state significant regions.

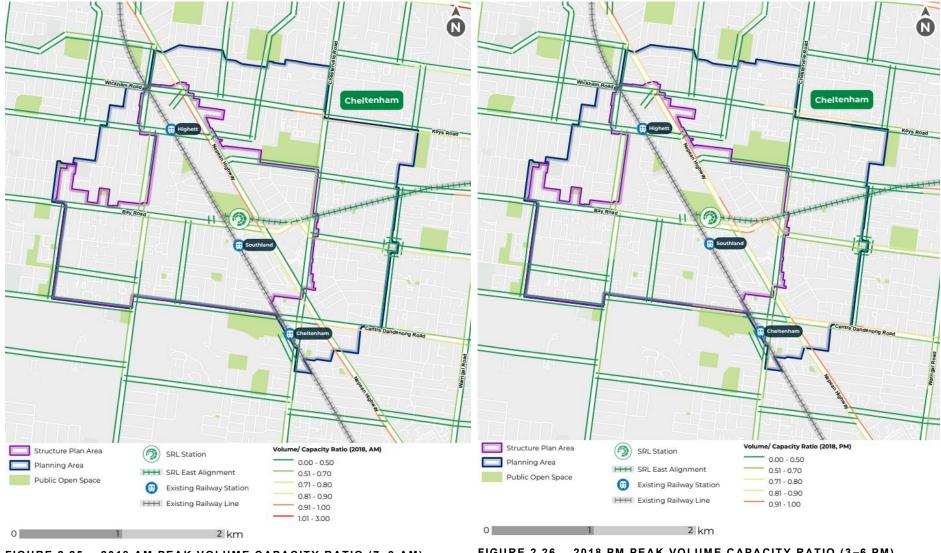


Figure 2.25 and Figure 2.26 show the road network conditions in the AM and PM peaks at a strategic level. The VITM modelling of Cheltenham indicates that much of the local road network operates at an acceptable level of service, either at or below a volume over capacity ratio (V/C) of 0.85.

On the other hand, major arterial and collector roads including Nepean Highway, Karen Street, Centre Dandenong Road, Wickham Road, Keys Road and Bernard Street have sections where higher V/C ratios are observed.

A higher V/C ratio indicates there is more congestion on these roads, and they are nearing capacity. Note that VITM is coarse and strategic in nature and the signalisation or any detailed operational parameters of intersections that would ordinarily serve to manage traffic flows are not explicitly coded in the model. As such, actual delays experienced along some roads may differ to what is shown here. The focus of the strategic model is to provide network context.





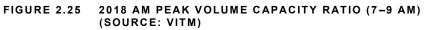


FIGURE 2.26 2018 PM PEAK VOLUME CAPACITY RATIO (3-6 PM) (SOURCE: VITM)



#### ROAD SAFETY

From January 2019 to January 2024 there were 148 crashes in the Cheltenham Structure Plan Area.<sup>22</sup> Around 36 per cent of the crashes resulted in severe injuries to road users, with the rest being other injury accidents. There were no fatal crashes in the Cheltenham Structure Planning Area during this time.

Figure 2.27 shows the crash locations across the Structure Plan Area, where locations with a high crash density experienced more than around 8 crashes, and low crash density locations are where less than four crashes have occurred.<sup>22</sup>

Pedestrians were involved in around 18 per cent of crashes, motorcycles were involved in around 10 per cent of crashes and heavy vehicles were involved in 1 per cent of crashes.<sup>22</sup> Rear-end vehicles (vehicles in same lane) and right-through collisions were the most common incidents, causing around 23 per cent and 16 per cent of the crashes respectively.

A total 51 per cent of crashes occurred at intersections and 71 per cent of crashes occurred during the day. Intersections and road segments identified as accident hotspots are highlighted in Figure 2.27. The crash hot spots in Cheltenham with the highest number of crashes and associated injury severity are listed in Table 2.6.

### TABLE 2.6CRASH HOT SPOT STATISTICS BETWEEN JANUARY 2019 - JANUARY 2024 (SOURCE:<br/>DATA VIC)

INTERSECTION / LOCATION	OTHER INJURY	SERIOUS INJURY	FATAL	TOTAL
Nepean Highway / Southland Shopping Centre access	3	5	0	8
Bay Road / Southland Shopping Centre access	7	4	0	11
Bay Road / Nepean Highway / Karen Street	13	4	0	17

<sup>22</sup> DataVic



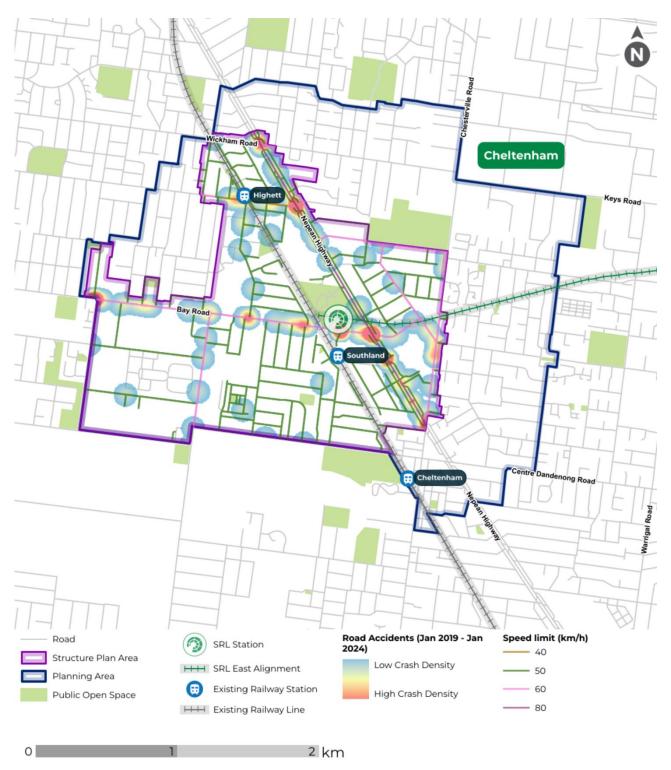


FIGURE 2.27 CHELTENHAM CRASH LOCATIONS AND CLUSTERS JANUARY 2019 - JANUARY 2024 (SOURCE: DATA VIC)

#### GENERAL TRAFFIC AND FREIGHT CHALLENGES

The general traffic and freight challenges in the Structure Plan Area are summarised and shown in Figure 2.28.



#### Location-specific general traffic and freight challenges:



Cheltenham caters for relatively high through traffic volumes along Nepean Highway, which can contribute to congestion and impact on trips within Cheltenham.

#### Structure Plan Area general traffic and freight challenges:



There is a heavy reliance on private vehicles for access within, to and through Cheltenham. This is placing pressure on the local and arterial road network. This reliance varies by travel distance, which is influenced by a range of factors including the availability of effective public transport options.

The road network encourages driving to, from and within Cheltenham. Road management prioritises vehicle movements through high-speed design and prioritising general traffic over other modes.

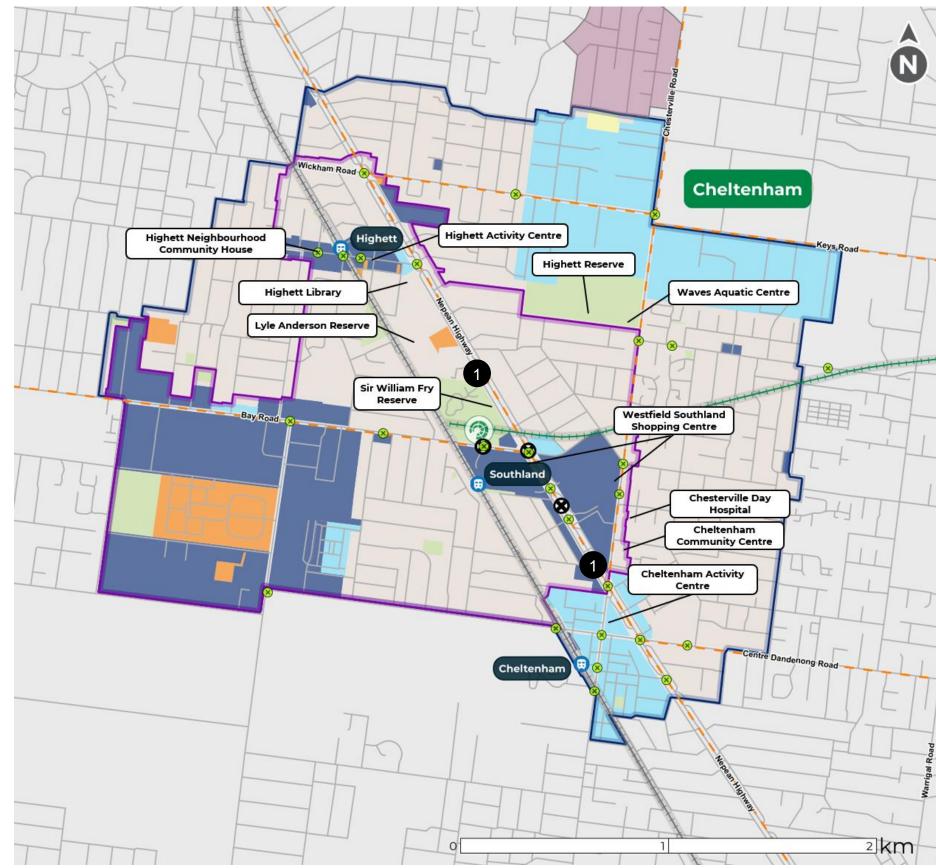


FIGURE 2.28 GENERAL TRAFFIC AND FREIGHT CHALLENGES IN THE CHELTENHAM STRUCTURE PLAN AREA

Existing Land Use

Residential

Educational

Commercial

Open Space

Public Use

Industrial/Mixed Use



⊗

Crash Hotspot

🜐 Existing Railway Station

Strategic Traffic Route
 Heavy vehicle restricted area

Structure Plan Area
Planning Area

HH SRL East Alignment

HH Existing Railway Line

SRL Station

----- Road

Existing Signalised Intersections

#### 2.2.5 INTEGRATED PARKING

Car parking across Cheltenham is available in the form of on-street and off-street car parking options at key destinations and residential, commercial, retail and industrial areas. A significant proportion of land in the Cheltenham Structure Plan Area is dedicated for parking, which reduces public amenity and encourages commuters to drive.

While parking is generally controlled by some form of parking restriction such as time-limited parking, permit / commuter zone, loading zones, taxi zones, or accessibility parking, it is largely free (except at Southland Shopping Centre). Secure bicycle parking and end-of-trip facilities are relatively limited.

#### OFF-STREET PARKING

There are almost 9300 publicly accessible off-street car parking spaces in the Cheltenham Structure Plan Area distributed across a mixture of at-grade and multi-level car parks. These parking locations are shown in Figure 2.29.

Southland Shopping Centre contains around 73 per cent of Cheltenham's off-street car parking and is predominantly accessed via Nepean Highway, Karen Street, Chesterville Road and Bay Road.

Ticketed and paid parking was introduced at Southland Shopping Centre with the opening of Southland Station, intended to deter commuters from using the shopping centre's car park. Southland Shopping Centre offers up to 3 hours of free parking to visitors and staff, followed by a charge after 3 hours.

The abundance of car parking at Southland Shopping Centre can encourage private vehicle usage and ownership for staff and visitors, despite the shopping centre being situated adjacent to the existing Southland Station and bus interchange.

Commuter parking is provided in the Structure Plan Area at the existing Highett Station (130 spaces). No commuter parking is provided at the existing Southland Station.

Outside of the Structure Plan Area, the existing Cheltenham Station has 277 all-day parking spaces in the station precinct and along Edward Street as well as 64 short-term parking spaces including 36 spaces in the multilevel passenger car park and 28 spaces in the nearby 'triangle' car park.<sup>23</sup>

Several Council-managed car parks are situated near Highett Station for retail purposes. Additionally, retail stores along Nepean Highway generally provide for ample customer parking (such as Anaconda and Officeworks). Off-street parking supply for sports and recreational facilities (Lyle Anderson Reserve and Sir William Fry Reserve) are Council-managed, with Sir William Fry Reserve parking being time restricted.

Electric vehicle charging stations are currently provided at Southland Shopping Centre (4 plugs), Southland Shopping Centre Icon Car Wash (1 plug) and Buckingham International Hotel, Highett (1 plug).<sup>24</sup>

More information about off-street car parking supply and demand is provided in Section 2.2.2 of the SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham.

<sup>&</sup>lt;sup>23</sup> Victorian Infrastructure Delivery Authority, 2024, Your new Cheltenham Station fact sheet, <a href="https://bigbuild.vic.gov.au/library/level-crossing-removal-project/frankston/cheltenham-mentone/fact-sheets/your-new-cheltenham-station-fact-sheets/">https://bigbuild.vic.gov.au/library/level-crossing-removal-project/frankston/cheltenham-mentone/fact-sheets/</a> vour-new-cheltenham-station-fact-sheets/





Off-Street Parking	Count	Restriction Type	Paid Parking?
Civic	180		
Cheltenham Community Centre car park	17	Visitor and Staff	No
Cheltenham Community Centre Church of Christ car park	42	Unrestricted	No
Highett Neighbourhood Community Hub Parking	54	1P-4P	No
Moorabbin Magistrates' Court	67	1P	No
Commercial	1310		
1121-1123 Nepean Hwy car park	150	Unrestricted	No
241-245 Bay Road Car Park	130	Unrestricted	No
296 Bay Road, Cheltenham	23	1P-4P	No
Hallmark Business Park Bayside car park	286	Unrestricted	No
iSelect Employee and Visitors car park	350	Unrestricted	No
Lentara Court car park	75	Unrestricted	No
Melaleuca Drive parking	31	Unrestricted	Yes
Melaleuca Drive Reserved Area	70	Unrestricted	Yes
Rietmans Business Park car park	95	Unrestricted	No
The Assembly Cheltenham car park	20	1P-4P	No
Tulip Street Business Park car park	80	Unrestricted	No
Medical	71		
Primary Medical and Dental Centre Highett car park	48	1P-4P	No
Southland Medical Centre car park	23	1P-4P	No
Shopping centre	7263		
Aldi Supermarket parking	123	1P-4P	No
Dan Murphy's Highett Car Park	52	1P-4P	No
Henry Street, Highett Village car park	50	1P-4P	No
Highett Shopping Centre car park	214	>4P	No
Jamieson Street car park	14	<1P	No
Station Street Highett parking	25	Unrestricted	No
View Lane car park	45	1P-4P	No
View Street, Highett car park	20	1P-4P	No
Westfield Southland Parking (east of Nepean Hwy)	3570	3P then Ticketed	Yes
Westfield Southland Parking (west of Nepean Hwy)	3150	3P then Ticketed	Yes
Sports and Recreation	192		
Lyle Anderson Reserve car park	35	Unrestricted	No
Sandringham Driving Range Parking	65	Unrestricted	No
Sir William Fry Reserve car park south	35	1P-4P	No
Sir William Fry Reserve North car park	57	1P-4P	No
Train Station	250		
Alternative rail passenger parking Cheltenham	120	Unrestricted	No
Highett Station East car park	42	Unrestricted	No
Highett Train Station West car park	88	Unrestricted	No

FIGURE 2.29 CHELTENHAM OFF-STREET CAR PARKING (SOURCE: AJM JV PARKING INVENTORY)



#### **ON-STREET PARKING**

A parking inventory of the on-street parking was completed for the Cheltenham Structure Plan Area, highlighting the prevalence of on-street parking currently available within the Structure Plan Area. Figure 2.30 shows the on-street parking locations and corresponding parking restrictions in the vicinity of the SRL station at Cheltenham.

A total 6036 on-street parking spaces are provided in the Structure Plan Area with varying time restrictions.

Although Bay Road is largely 'No Stopping' within the Structure Plan Area of the SRL station at Cheltenham, the service roads along Nepean Highway predominantly provide unrestricted parking spaces.

The residential areas closest to the SRL station at Cheltenham are largely time restricted (2 to 4 hours), which implies they are intended to manage any longer-term parking demand for Southland Shopping Centre, discouraging any parking in nearby residential areas.

Outside a 400-metre radius of the SRL station at Cheltenham, on-street parking is readily available across the Cheltenham Structure Plan Area, with parking available on Bay Road between Hamlet Street and Reserve Road in the Bayside Business District. Similarly, ample parking is provided in the Moorabbin industrial area on Chesterville Road, Keys Road and Wickham Road.

Just outside the Cheltenham Structure Plan Area, there are two car share scheme on-street spaces provided in the Planning Area, with one on Panorama Avenue and one on Albert Street, both near Highett Road.

More information about on-street car parking supply and demand is provided in Section 2.2.2 of SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham.





FIGURE 2.30 ON-STREET PARKING RESTRICTIONS - CHELTENHAM (SOURCE: AJM JV PARKING INVENTORY)



#### BICYCLE AND MICROMOBILITY PARKING

Current cycling parking provision is limited and generally uncovered with varying levels of security.

The Highett Road shopping strip (west of the Frankston Line) accommodates 34 bicycle parking spaces, with Highett Station providing 17 bicycle parking spaces through Parkiteer, in addition to 22 uncovered spaces.

Similarly, the existing Cheltenham Station currently provides 26 parking spaces through Parkiteer,<sup>25</sup> in addition to 12 uncovered spaces.

Despite the high number of staff and visitors commuting to Southland Shopping Centre, there are only three known bicycle parking spaces provided, situated undercover adjacent to the carpark.<sup>26</sup>

There are currently no dedicated parking facilities for micromobility devices.

More information on bicycle parking locations is provided in Section 2.3 of SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham.

#### INTEGRATED PARKING CHALLENGES

The parking challenges in Cheltenham are summarised and shown in Figure 2.31.

<sup>&</sup>lt;sup>26</sup> AJM JV parking inventory



<sup>&</sup>lt;sup>25</sup> https://parkiteer.com.au/locations/

#### Location-specific integrated parking challenges:



Significant numbers of on- and off-street car parking spaces are provided throughout the Structure Plan Area, with a high concentration at Southland Shopping Centre. These limit other uses that could provide increased economic and social benefits.

Some on-street car parking spaces in residential areas are shortterm restricted spaces (2P or less). This implies a high level of parking demand intrusion from non-residential land uses (particularly Southland Shopping Centre) into residential areas.



4

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Ground level parking facilities obstruct active travel opportunities.

Kerbside parking is abundantly available in Cheltenham but lacks the appropriate diversity of controls to meet the evolving needs of the area.

#### Structure Plan Area integrated parking challenges:

- Car parking provision, whether on or off-street, is a key factor that influences people's decision to own and use a car. Provision of development car parking into the future in line with the wider area will result in increased congestion and inefficient use of space.
- Car parking in the Structure Plan Area is not currently managed in a manner that efficiently meets user needs. The amount of parking (available at no cost to the user) is causing people to drive despite other transport options being available.



Limited *Disability Discrimination Act 1992* (Cth) (DDA Act)-compliant on-street car parking is provided.

Current provision of cycling and micromobility storage and end of trip facilities does not support and encourage active and sustainable transport trips. End-of-trip facilities in Cheltenham including secure parking, showers and lockers are provided only in newer developments which are not typically accessible to the public.

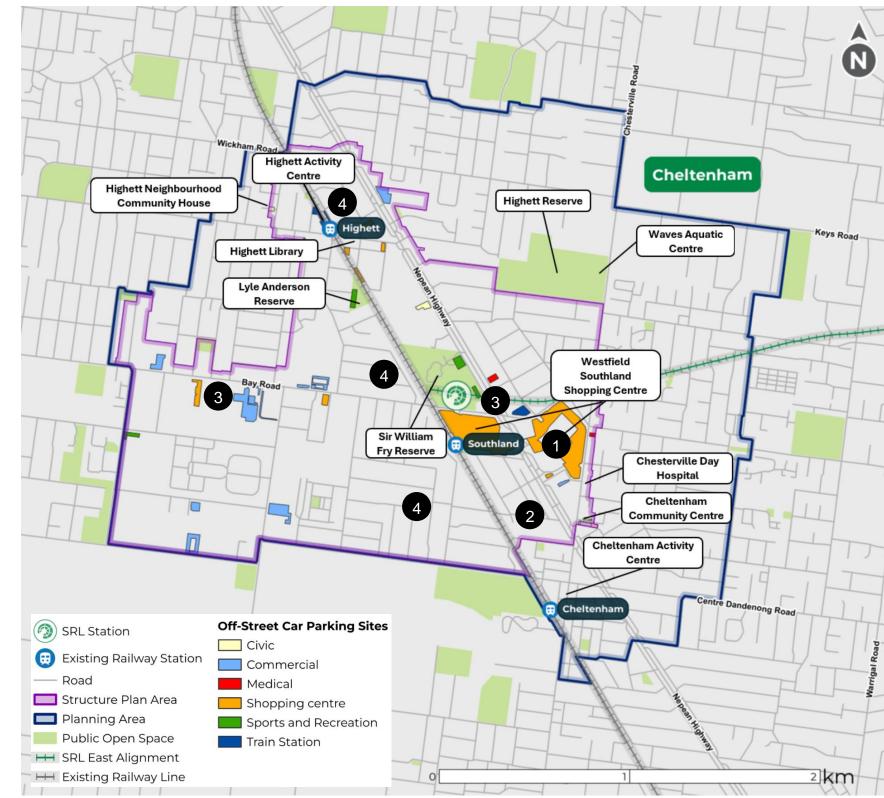


FIGURE 2.31 INTEGRATED PARKING CHALLENGES IN THE CHELTENHAM STRUCTURE PLAN AREA

## 2.3 Relevant policies and strategies

#### 2.3.1 OVERVIEW

Victoria's legislative and policy framework sets a vision for an integrated transport system that is accessible, inclusive and safe for all Victorians.

A primary aim of the framework is to promote economic, environmental and social prosperity with integrated land use and transport networks. These networks should provide efficient and effective movement of people and goods and minimise transport costs with greater use of active and public transport modes.

#### 2.3.2 LEGISLATION

The legislation that provides the framework for the development of the Cheltenham and other SRL East Structure Plan Areas is summarised in Table 2.7.

LEGISLATION	DESCRIPTION	
Planning and Environment Act 1987 (Vic)	This Act establishes Victoria's framework for land use planning, development, and protection in the present and future interests of all Victorians. Planning schemes are subordinate instruments under the Act that apply to local government areas and set out how land may be used and developed.	
Transport Integration Act 2010 (Vic)	his Act recognises that land use and transport planning are integrated and sets a vision for an integrated and sustainable transport system that contributes to an inclusive, prosperous, and environmentally esponsible Victoria. The Act obligates transport planners and strategic land-use planners to have regard to the land-use impacts of decisions. This includes objectives that relate to social and economic inclusion; conomic prosperity; environmental sustainability; efficiency co-ordination; and reliability and safety, health and wellbeing.	
<i>Road Safety Act 1986</i> (Vic)	This Act provides for safe, efficient and equitable road use.	
Road Management Act 2004 (Vic) This Act establishes a statutory framework for the management of the road network which framework (Vic) uses of road reserves for roadways, pathways, infrastructure and purposes.		
Local Government Act 2020 (Vic)	This Act gives legislative force to local government powers, including in respect or roads.	
Suburban Rail Loop Act 2021 (Vic)This Act recognises the scale and complexity of planning and delivering a project that encompase municipalities. The Act establishes the SRLA and provides it with the power to plan, deliver and operation of SRL and development associated with SRL.		

#### TABLE 2.7 TRANSPORT LEGISLATION

#### 2.3.3 POLICIES, STRATEGIES AND PLANS

The evolution of Melbourne from a mono-centric to a poly-centric city has been at the heart of the Victorian Government policy for many years. Strategies such as Plan Melbourne and DTP's strategic plans have been pursuing the need to consider development growth and supporting infrastructure more efficiently.

More recently, recognition of climate change and the harm of private car travel to the environment and health of our communities has led to plans and policies such as the National Electric Vehicle Strategy and Victoria's Road Map to Zero Emissions.

Policies, strategies and plans that informed the transport ambition for Cheltenham are summarised in Table 2.8.



## TABLE 2.8 NATIONAL AND STATE POLICIES THAT INFORM THE TRANSPORT AMBITION FOR CHELTENHAM

PLANS AND POLICIES	DESCRIPTION			
Plan Melbourne 2017– 2050 and Plan Melbourne addendum 2019 (DTP, 2017 and 2019)	Sets out a long-term strategic vision for land-use and development in Victoria. Its policies include Melbourne becoming a polycentric city which is sustainable and resilient and which supports vibrant and healthy neighbourhoods where people can meet most daily needs within a 20-minute active or public transport trip from home.			
Victoria Infrastructure Strategy 2021—2051 (Infrastructure Victoria, 2021) and Victorian Infrastructure Plan 2021 (Victorian State Government, 2021)	Victoria's Infrastructure Strategy 2021–2051 provides recommendations to the Victorian Government for planned infrastructure in Victoria. The 30-year strategy seeks to address existing infrastructure pressures, demand on existing infrastructure, and assist in planning the timing and location of required and necessary new infrastructure. The Infrastructure Strategy includes strategic opportunities to improve the Victorian rail network, including SRL as an intended rail project. The Victorian Government has responded to the Strategy with the Victorian Infrastructure Plan 2021 that provides government's response to the Strategy.			
Public Transport Guidelines for Land Use Development (DTP, 2008)	The Public Transport Guidelines for Land Use and Development aim to assist decision-making on statutory and strategic planning proposals for land use developments that affect public transport planning and delivery. It is intended the Guidelines will assist with site design to facilitate the delivery and use of public transport services. Good design for public transport helps ensure the provision of a sustainable transport network now and for future. The Guidelines assist in addressing the public transport aspects of structure plans and other strategic			
	planning documents for SRL East.			
	The Strategic Plan sets out the visions for integrating transport and land use to create thriving places and connected communities. Key focus areas of the Strategic Plan relevant to transport and SRL include:			
	Improving integration across transport, land and planning systems			
Strategic Plan 2024–28 Thriving Places and	<ul> <li>Setting and implementing a strategy for support jobs, housing, and transport while building on Melbourne's distinctiveness, liveability, and sustainability</li> </ul>			
Connected Communities	Enhancing environmental sustainability through initiatives that create healthy and liveable communities     and places			
(DTP, 2023)	Support access to lower emission modes of transport			
	Improving social outcomes and liveability for all Victorians			
	Giving Victorians more transport options and improve access to essential services.			
	Sets out the six strategic directions that will establish long-term objectives for movement. Directions considered key to SRL East structure planning include:			
Future Directions	• Enable new travel patterns – planning transport to facilitate new travel patterns that connect more people to more jobs through local movements, public and active transport and increasing vehicle occupancy			
(DTP, Nov 2023)	<ul> <li>Promote transition to environmentally sustainable transport – supports pledges and targets set out Victoria's Climate Change Strategy</li> </ul>			
	<ul> <li>Maximise opportunities created by new and evolving technologies – micromobility and new forms of managing travel</li> </ul>			
	Support the many different journeys people take every day and meet a diverse range of needs.			
Movement and Place in Victoria (DTP, February 2019)	The Movement and Place (M&P) Framework brings to life the strategic objectives of transport and land use planning in Victoria in the context of road safety and environmental outcomes. The Framework provides a tool to translate the broad transport outcomes the <i>Transport Integration Act 2010</i> (Vic) aims to achieve into priority changes to improve link and place performance for communities. The M&P Framework supports how DTP plans the road and transport network, while acknowledging that each street and road will have different roles in supporting place and movement. It translates the broader transport network into a series of aspirations for individual roads, streets and interchanges based on their desired functions in the network as well as balancing the needs of people and communities.			
National Electric Vehicle Strategy (Department of Climate Change, Energy, the Environment and Water, 2023	The Electric Vehicle Strategy sets out national aims to increase electric vehicle (EV) demand through affordability and increasing infrastructure.			

PLANS AND POLICIES	DESCRIPTION
Victoria's Climate Change Strategy (Department of Climate Change, Energy, the Environment and Water, 2021)	The Climate Change Strategy recognises that transport is the state's second-biggest contributor to greenhouse gas and minimising this will be key to meeting emission targets. The Strategy recognises the role of SRL in increasing 'clean' public transport. It commits to 100% of all Victoria's new buses to be zero emission from 2025; a 25% active transport mode share by 2030; and 50% of all light vehicle sales to be zero emission by 2030.
Victoria's Zero Emissions Vehicle Road Map	The Zero Emissions Vehicle Road Map signals an intent for the state to transition to net zero emission in road
(Department of Environment, Land, Water and Planning, 2021)	transport by 2050, noting that it will take around 25 years to manage the transition, with a target for half of all new vehicle sales to be zero emissions by 2030.

SRL East will be crucial to achieving the objectives of these plans and strategies. It will address the imbalance between travel choices for suburb to central city trips and getting from one suburban hub to another, providing true modal choice for middle to outer Melbourne orbital movements. SRL East structure planning will adopt a 'live locally' approach based on the *Plan Melbourne* 20-minute neighbourhood principle, where every day needs can be met within a short walk, cycle, or local public transport trip from home. Residents should be able to access local facilities, learning institutions, green spaces, housing, transport interchanges, and job opportunities through a 20-minute journey. This aims to facilitate people living and working with less need to travel by private car. It is expected that appropriate structure planning and the delivery of SRL East will:

- Provide a more efficient public transport network as passengers would not need to travel into the city and then out to their ultimate destination
- Encourage local trips to be made by active and public transport, reducing reliance on private car trips
- Improve the viability of living in the outer and middle suburbs and drive growth and community around the new infrastructure
- Reduce middle to outer Melbourne orbital movements made by private car
- Enable more people to live in the SRL East Structure Plan Areas closer to jobs and activity reducing personal time spent travelling.

#### 2.3.4 LOCAL PLANS AND POLICIES

The Cheltenham Planning Area and Structure Plan Area are located in the cities of Kingston and City of Bayside. The statutory framework for the Planning Area will be covered in the Kingston and Bayside Planning Schemes.

The recommendations for the Cheltenham Structure Plan Area are influenced by and will support Kingston City Council and Bayside City Council transport policies and will seek to maintain effective transport networks in Cheltenham and the municipalities. The key transport themes in the Kingston and Bayside City Council policies include:

- The need to move away from private car travel to more sustainable modes of transport, with a road user hierarchy that reflects this shift
- Walking and cycling as the preferred transport choice, particularly for short local trips



• Potential for reducing car parking rates in major activity centres.

Local policies and strategies that have informed this report are summarised in Table 2.9 while the directions and actions that have informed specific Cheltenham recommendations for the Structure Plan Area are identified in the relevant areas of this report.

DOCUMENT	DESCRIPTION	RELEVANT INSIGHTS
Kingston Planning Scheme (last updated Jan 2024) Kingston Integrated Transport Strategy 2020	Establishes the statutory framework for land use and development in City of Kingston. Clause 18 covers transport. Local policy is included to cover car parking. SRL is recognised in transport and settlement clauses of the planning scheme. Clause 11.01-1R recognises SRL as a key strategy in facilitating substantial growth and change in major employment, health, education and activity centre precincts. <i>Was SRL considered? Yes</i> Aims to establish transport outcomes that ensure a well-connected, sustainable and coordinated transport system. <i>Was SRL considered? Yes</i>	<ul> <li>Vision of a transport network that balances the needs of different type of transport users, providing a range of transport options appropriate to how the transport network and places are used by communities</li> <li>Activity centres are the focus for integration of public transport, pedestrian and cycle 'systems'</li> <li>Integrate land use and transport planning to create more sustainable communities</li> <li>Supports shared car parking in new development.</li> <li>Make walking and cycling the preferred transport choice, particularly for short trips</li> <li>Prioritise works on local roads that establish a network of continuous cycling and walking routes</li> <li>Establish a coordinated and seamless public transport system that minimises interchange times.</li> </ul>
Kingston Cycling and Walking Plan 2023–2028	Sets the long-term vision for walking and cycling in the municipality. 'To make Kingston a cycling and pedestrian friendly city through the provision of a network of safe, direct, connected, and accessible pedestrian and cycle routes that help residents and visitors walk and cycle as much as possible.' <i>Was SRL considered? Yes</i>	<ul> <li>Safer and easier cycling and walking routes</li> <li>Improving community health and the environment by encouraging these modes</li> <li>Prioritising the transition to sustainable transport by reducing demands for parking by improving spread and connectivity of active and public transport options</li> <li>Develop 20-minute neighbourhoods</li> <li>Program to review and consider bike and scooter parking.</li> </ul>
Kingston Council Plan 2021–2025	Overall plan for the municipality: 'An inclusive, resilient community with a thriving economy where we all share a safe, sustainable environment.' <i>Was SRL considered? Yes</i>	<ul> <li>Develop 20-minute neighbourhoods</li> <li>Manage movement including traffic and parking to make community activities accessible</li> <li>Build sustainable transport options to reduce congestion and pollution</li> <li>Improving connections and supporting safe travel.</li> </ul>
Kingston Parking Management Policy, 2024	A framework to manage parking across the municipality. Was SRL considered? No	<ul> <li>Restricting parking near intersections.</li> <li>Recognises conflicts between parking and cycle safety and connectivity.</li> </ul>



DOCUMENT	DESCRIPTION	RELEVANT INSIGHTS
Kingston Road Safety Strategy, 2021	Program for improving road safety. Was SRL considered? No	<ul> <li>Safer roads and neighbourhoods for active transport.</li> </ul>
Kingston Climate and Cological Emergency Response Plan, 2021	Identifies Kingston's emission sources and means to reduce. <i>Was SRL considered? No</i>	<ul> <li>Prioritises sustainable transport modes over private car</li> <li>Allocating more road space to sustainable modes</li> <li>Installing more bike lanes, paths and cycle infrastructure</li> <li>Promoting active transport.</li> </ul>
Bayside Planning Scheme (last updated Jan 2024)	Establishes the statutory framework for land use and development in Bayside. Includes Clause 18 to cover transport. Local policy included to cover car parking. SRL is recognised in transport and settlement clauses of the scheme. Clause 11.01-1R recognises SRL as a key strategy in facilitating substantial growth and change in major employment, health, education and activity centre precincts. Clause 11.03-1L-06 sets out the vision for land contained in the Highett Activity Centre <i>Was SRL considered? Yes</i>	<ul> <li>Vision of a transport network that balances the needs of different type of transport users, providing a range of transport options appropriate to how the transport network and places are used by communities</li> <li>Activity centres are the focus for integration of public transport, pedestrian and cycle 'systems'</li> <li>Integrate land use and transport planning to create more sustainable communities</li> <li>Supports shared car parking in new development</li> <li>Improvements to pedestrian safety across the road network.</li> </ul>
Bayside Integrated Transport Strategy 2018 - 2028	Establishes a strategic direction to guide transport planning decision-making in Council over the next 10 years to be safe and convenient for the community to choose their preferred mode of transport. <i>Was SRL considered? No</i>	<ul> <li>Desire to achieve sustainable transport as the mode of choice, facilitated through the creation of a well-connected, safe, accessible and convenient transport system</li> <li>Integration of all transport modes, with sustainable transport routes between key destinations that are safe and easy.</li> </ul>

DOCUMENT	DESCRIPTION	RELEVANT INSIGHTS
Bayside Bicycle Action Plan 2019Image: State of the state	Guides the delivery of a range of actions and initiatives designed to support cycling as a convenient alternative to private vehicle trips in the municipality. Includes actions set out in the Integrated Transport Strategy. Supersedes the 2013 Bayside Bicycle Strategy. <i>Was SRL considered? No</i>	<ul> <li>Vision to increase bicycle use through the municipality through development of infrastructure and promotion of cycling as a healthy and sustainable mode of transport.</li> <li>Four of the seven objectives would directly feed into SRL planning:         <ul> <li>Objective 1 – High quality on-road bicycle network</li> <li>Objective 2 – High quality off-road bicycle network</li> <li>Objective 4 – Integration of cycling with land use development, public transport and other public amenities</li> <li>Objective 5 – Planning to support cycling.</li> </ul> </li> </ul>
Bayside Parking Strategy 2023-2033 Parking Sustainability	A new strategy aimed to establish a coordinated, consistent and transparent approach for the provision and management of car parking in Bayside. It provides support to move away from the traditional reactive approach to car parking. <i>Was SRL considered? No</i>	<ul> <li>Maximising the management of existing parking resources so that sufficient parking opportunities are available for those who need it</li> <li>Promoting a shift to sustainable transport modes that are inclusive for all</li> <li>Balancing modal priorities and dedicated space for important activities.</li> </ul>
Cheltenham Activity Centre Structure Plan Review (Precincts A, D & E) 2018 (Developed by Kingston City Council)	The Structure Plan Review seeks to identify and capitalise on the opportunities enabled via the lowering of the rail line, creation of new development sites above and around rail infrastructure, future expanded commercial role of Cheltenham and its integration with the land use and built form objectives for adjoining Precincts. <i>Was SRL considered? No</i>	<ul> <li>Desire to achieve a contemporary 'people focused' activity centre and a thriving retail strip embodying employment and community life</li> <li>Facilitating active transport as the preferred choice to help achieve a people-focused activity centre.</li> </ul>
Highett Structure Plan 2018 (Developed by Bayside City council)	The Structure Plan provides a description of the preferred future pattern of development in the Highett area. Highett is identified in State and local planning policy as a neighbourhood centre, and a location for local shopping, business, and community services. <i>Was SRL considered? No</i>	<ul> <li>Desire to facilitate better movement of people by all modes of transport</li> <li>Enhance the natural environment by providing new and improved green spaces.</li> </ul>

## 2.4 Summary

Table 2.10 summarises the key findings of the existing conditions assessment.

The review of key national, state and local transport polices and strategies relevant to Cheltenham informed the development of recommendations for the Cheltenham Structure Plan Area. The recommendations will support key transport policies and strategies and seek to maintain effective transport networks in Cheltenham and the municipality.

MODE	SUMMARY		
Active transport	<ul> <li>Most streets in Cheltenham have footpaths on both sides of the road and provide access between the residential areas and key destinations.</li> </ul>		
	<ul> <li>Pedestrian amenity varies throughout Cheltenham. Areas of high-quality pedestrian provision are present most notably in the Highett and Cheltenham Activity Centres, along Highett Road, Charman Road / Park Road. Amenity and safety were enhanced with the level crossing removals on Charman Road and Park Road in Cheltenham, which provided more than 3 kilometres of walking and cycling paths connecting the existing Mentone and Cheltenham Stations.</li> </ul>		
	• There are few separated cycle routes serving Cheltenham including the shared use path that runs along the Frankston Line through Cheltenham from the southern extent through the Cheltenham Activity Centre to Jean Lane, where it currently terminates. The remainder of the road network in Cheltenham has no or limited cycling infrastructure.		
	• The existing rail line, busy arterial roads (such as Nepean Highway, Bay Road and Chesterville Road) and large private and industrial blocks are barriers for pedestrians and cyclists.		
Public transport	• Cheltenham includes three existing stations on the Frankston Line (the existing Highett Station, Southland Station and Cheltenham Station) and a network of bus routes with a bus interchange at Southland Shopping Centre and bus stops located along key arterial roads.		
	<ul> <li>A network of 13 bus routes operates in Cheltenham, all of which pass through the Southland Shopping Centre bus interchange. Buses support public transport connectivity across Cheltenham and from outer suburbs in the south-eastern metropolitan region.</li> </ul>		
	• The existing Southland Station and Southland Shopping Centre bus interchange are difficult to transfer as they are separated by the busy Nepean Highway corridor. Passengers are required to walk a significant distance to interchange between the public transport modes.		
	• The bus network is also convoluted with service gaps and meandering routes, reducing public transport accessibility to key destinations in Cheltenham. Most bus service frequencies are also low and there is lack of onroad bus priority, resulting in a service that is not competitive against the often more convenient option of the private car.		
	• The quality of bus stops and waiting area infrastructure is inconsistent across Cheltenham.		
Private	Vehicle access throughout Cheltenham is provided by multi-lane arterial roads and an extensive network of connector and local streets.		
	<ul> <li>No Principal Freight Network (PFN) routes pass through the Planning Area. However, the arterial roads (such as Nepean Highway, Bay Road and Chesterville Road) form part of the B-Double Heavy Vehicle network catering for freight vehicles.</li> </ul>		
vehicles	• Cheltenham caters to a significant level of through traffic, which can contribute to congestion and impact on trips within Cheltenham.		
	• While the current private vehicle mode share is generally within the capacity of the road network other than some peak hour congestion points, maintaining a similar private vehicle mode share into the future will not be sustainable and will be detrimental to the liveability within the Structure Plan Area.		

TABLE 2.10 EXISTING CONDITIONS SUMMARY BY MODE



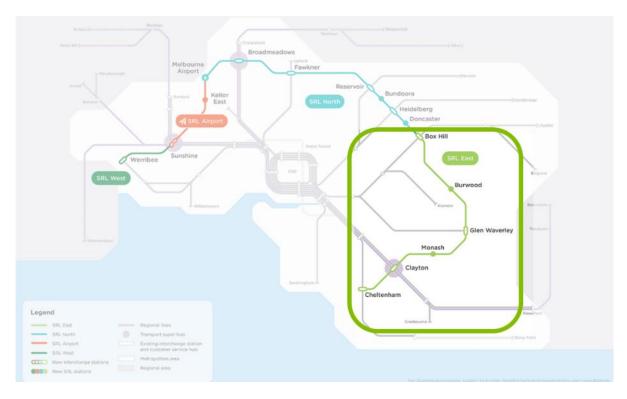
MODE	SUMMARY	
Integrated parking	<ul> <li>There are almost 9300 publicly accessible off-street car parking spaces in the Cheltenham Structure Plan Area, distributed across a mixture of at-grade and multi-level car parks.</li> </ul>	
	<ul> <li>There are currently 6036 on-street car parking spaces within the Structure Plan Area with varying parking restrictions. In residential areas, a significant number of on-street parking spaces comprise short-term restrictions (4 hours or less). These short-term restrictions are intended to manage any longer-term parking demand for Southland Shopping Centre, discouraging such parking in nearby residential areas.</li> </ul>	
	<ul> <li>Public bicycle parking in Cheltenham is limited with majority of public bicycle parking provided in the existing Cheltenham Station and Highett Station (including uncovered spaces and Parkiteers) and Highett Road shopping strip (west of the Frankston Line). End-of-trip facilities in Cheltenham, including secure parking, showers and lockers, are provided only in newer developments which are not typically accessible to the public.</li> </ul>	
	There are currently no dedicated parking facilities for micromobility devices.	
	<ul> <li>There is a significant level of ground-level parking provided to service existing recreational, educational, commercial and employment parking demands.</li> </ul>	
	<ul> <li>Kerbside parking is abundantly available in Cheltenham but lacks the appropriate diversity of controls to meet the evolving needs of the area.</li> </ul>	

## 3 The SRL project

### 3.1 Overview

The Cheltenham Planning Area is one of six precincts that form part of SRL East. – the first stage of the 90kilometre orbital loop linking every major rail line between Cheltenham, Melbourne Airport and SRL West (to Werribee) as shown in Figure 3.1. The six stations include **Cheltenham** (located near Southland, between Cheltenham and Highett), **Clayton**, **Monash** (located in Notting Hill, between Clayton and Glen Waverley), **Glen Waverley**, **Burwood** (located between Box Hill South and Ashwood), and **Box Hill**.

SRL will connect major employment, health and education centres in the city's middle suburbs and provide highly accessible nodes that can be used to support Melbourne's growing housing and employment needs in a sustainable manner. To do this, more than just the SRL stations are required. The SRL Precincts will need to foster a new approach to travel and living in these areas.



#### FIGURE 3.1 SRL EAST IN THE CONTEXT OF THE WIDER SRL PROJECT

High population growth on Greater Melbourne's expanding urban fringe has been driving many households further from employment centres, leading to longer commutes, increased congestion and more crowded public transport. This pattern of growth risks entrenching disadvantage, with inequitable access to good jobs, services, affordable housing, amenities and recreational opportunities. There is already significant demand for orbital travel around Melbourne, with many people travelling to work and other destinations by car because there isn't a fast rail option.

SRL addresses these challenges by delivering important cross-suburb travel connections between major employment centres, hospitals, universities and retail, shortening commutes and improving cross-suburb



connectivity. While growth in SRL Precincts will give more Victorians access to employment opportunities, affordable housing and services – all within a short walk from a station.

Construction of SRL East from Cheltenham to Box Hill began in June 2022, and SRL East is expected to start operating by 2036.

# 3.2 SRL East Project Environment Effects Statement and planning approvals

The SRL East Project's Environment Effects Statement (EES) was released in 2021. The EES identified the benefits and potential impacts of the SRL East Project on people and places during its construction and operation and proposed ways to avoid, minimise, offset or manage any effects.

Planning approvals for the SRL East Project were informed by the EES and were granted following the Minister's Assessment in late 2022. These approvals included Planning Scheme Amendment (PSA) GC197 that introduced an Incorporated Document under Specific Controls Overlay Schedule 14 (SCO14) to facilitate delivery of the SRL East Project. Amendment GC197 came into force on 30 September 2022.

A key condition of the Incorporated Document is an Environmental Management Framework containing Environmental Performance Requirements (EPRs) managing the project's design, construction and operation impacts. These included EPRs specifically managing traffic and transport impacts associated with the SRL East Project, some of which refer to impacts on the wider precincts. The Environmental Management Framework was approved by the Minister for Planning on 17 October 2022.

The EES nominated Environmental Performance Requirements (EPR's) were contained within the SRL East Project Environmental Management Framework as approval requirements for the project. There are eight transport EPR's, EPR's T1-T5 relate to detailed project construction and delivery issues (traffic management and coordination, road reinstatement etc) and are not the focus of this section or the TTR. Rather Table 3.1 below highlights sections of EPR's T6-T8 which in addition to actions delivered by the SRL East Project could benefit from relevant commentary and actions within the TTR. The Minister's Assessment of the EES also identified some issues for further assessment which are discussed in Section 3.5 of this report.



#### TABLE 3.1 EPRS RELEVANT TO THIS REPORT<sup>27</sup>

TRANSPORT BASED EPR	TRANSPORT TECHNICAL REPORT CONSIDERATION	
T6. Road transport design and operation		
T6-2. Develop and implement street network designs for each affected stre road management authorities that includes:	eet within the Project Land in consultation with the relevant	
a) The design of the road network should reflect the aspirational Movement and Place outcomes for each precinct as well as changed demands as a result of the Project	Movement and Place classification reviews and existing level of service gap assessments, and Recommendation to safeguard the M&P modal priorities	
b) Maintaining safe operations through the precincts.	Pedestrian and cyclist safety considered in network upgrade recommendations including strategic corridors, green streets and new and upgraded signal crossings	
T6-3. Develop and implement a plan for each precinct to manage reinstate road management authorities, that:	ed parking within the Project Land, in consultation with relevant	
a) Minimises the permanent loss of parking where possible and determine the optimal parking provision in the area, including prioritising meeting specialised parking needs within the precinct such as emergency services, loading and DDA compliant parking.	The Parking Precinct Plan provides recommendations with respect to parking that may be relevant in responding to this EPR requirement, however the focus of the EPR is reinstatement of parking impacted by the SRL project and	
b) Reduces the risk of overflow parking in local streets	will be addressed as a project not structure planning issue.	
c) Provides alternative locations for station commuter parking impacted during construction identified in consultation with relevant stakeholders. If needed this may be provided outside the Project Land.		
d) Includes recommended Pick Up / Drop Off (PuDo) locations following further assessment during the design phase.		
T6-5 Collaborate with DoT and Councils to manage the operation of the road network in the vicinity of SRL precincts for all road users. This would encourage appropriate mode of access to the station precincts and to discourage through traffic. This should include reviewing the performance of the wider network so that opportunities to re-distribute through traffic away from station precincts can be pursued and sensitivity testing of different precinct development scenarios.	The TTR seeks to address transport movements to, from and within the Structure Plan Area with Section 5.4 explaining the target mode share for the precinct and actions to achieve that mode share explained in Section 6 and 7.	
T7. Public transport design and operation		
T7-1. Design the SRL stations and new bus interchanges to ensure integration with existing and planned future uses so they provide connections to key destinations and existing railway stations and bus interchanges and be in accordance with the Urban Design Strategy (UDS). The design should also provide adequate wayfinding to facilitate passenger transfers.	Infrastructure recommendation supporting the planning for new or upgraded bus interchanges	
T7-2. Implement measures to address pedestrian congestion at and around station entrances where they interface with the precincts, to the extent practicable, in consultation with relevant road management authorities.	Considered in upgraded strategic corridors providing access to station entrances, to be addressed in design scope beyond the precinct Transport Technical Reports	
T8. Active transport design and operation	·	
T8-3. Provide wayfinding information to enhance connectivity for pedestrians, cyclists and public transport users to move to, from, through and within the interchanges and precincts.	Considered in the SRL East Structure Plan - Urban Design Report - Cheltenham	

The remaining transport EPRs are considered to relate specifically to the construction of the SRL East Project and contractors are responsible for the implementation of the measures to address these.

<sup>&</sup>lt;sup>27</sup> bigbuild.vic.gov.au/\_\_data/assets/pdf\_file/0003/717645/SRL-East-Environmental-Management-Framework.pdf

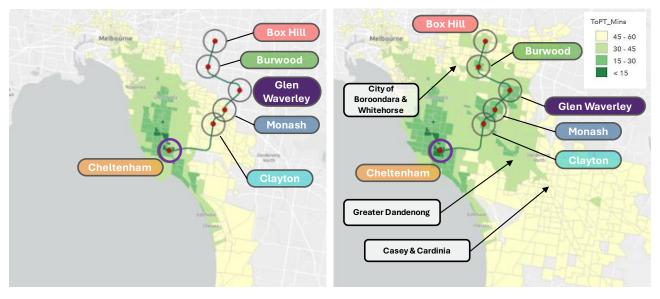


## 3.3 SRL Cheltenham rail infrastructure and works

This section summarises the SRL East Project's scope being delivered under the SCO14 Incorporated Document and outlined in the Surface and Tunnel Plans approved by the Minister for Planning on 18 October 2022.

The SRL station at Cheltenham will provide a fourth railway station to Cheltenham (in addition to the existing Highett Station, Southland Station and Cheltenham Station), and a third station within the Structure Plan Area. The SRL station at Cheltenham is the south-eastern terminus of SRL East and for the SRL project. The station is expected to cater for around 10,000 passenger boardings from Cheltenham per weekday by 2041.<sup>28</sup>.

The increasing public transport accessibility of Cheltenham is shown in Figure 3.2. Cheltenham residents will be able to access education, work and services near all SRL East stations within 30-minutes or less. Travel times between Cheltenham and many suburbs in the municipalities of Whitehorse, Boroondara, Greater Dandenong, Casey and Cardinia will reduce by 15 to 30 minutes.



2041 Base Case without SRL - AM Peak PT Travel Time to Cheltenham

**2041 Project Case with SRL** - AM Peak PT Travel Time to Cheltenham

## FIGURE 3.2 INCREASED PUBLIC TRANSPORT ACCESSIBILITY OF CHELTENHAM WITH THE SRL EAST PROJECT<sup>29</sup>

The new SRL station at Cheltenham is projected to service 8000 passengers daily when trains are running in 2035, with about 2700 people interchanging with Frankston Line services.

Source: Victorian Integrated Transport Model

<sup>&</sup>lt;sup>29</sup> SRL East – Traffic and Transport Impact Assessment. TA R.2 Transport IA Revision 01, October 2021 (Section 6.1.3)



<sup>&</sup>lt;sup>28</sup> SRL East – Traffic and Transport Impact Assessment. TA R.2 Transport IA Revision 01, October 2021 (Table 5.4)

Improvements to walking and cycling, public transport and road connections and infrastructure around the SRL station will provide an accessible, safe and integrated network for travel through and within Cheltenham.

The SRL East Project scope is generally in accordance with the project's reference design, which will be subject to minor changes during the detailed design phase.

The SRL East station at Cheltenham and associated surface transport infrastructure works are summarised and shown in Figure 3.3.





2

SRL station at Cheltenham located within Sir William Fry Reserve with station entrance off Bay Road.

A new *Disability Discrimination Act 1992* (Cth) (DDA)-compliant pedestrian and cyclist overpass at Bay Road connecting the SRL station and the existing Southland Station. The precise location is still to be determined and requires further assessment.



4

A new bus interchange accessed off Bay Road.

A new street and signalised intersection connecting the station to Nepean Highway.

5 Bi-directional off-road cycle path on Bay Road, Nepean Highway and the SRL station at Cheltenham access street connecting the new station, Southland Shopping Centre, the existing Southland Station and Sir William Fry Reserve.

New signalised crossings of Bay Road and Nepean Highway to provide safe crossing opportunities for pedestrians and cyclists.

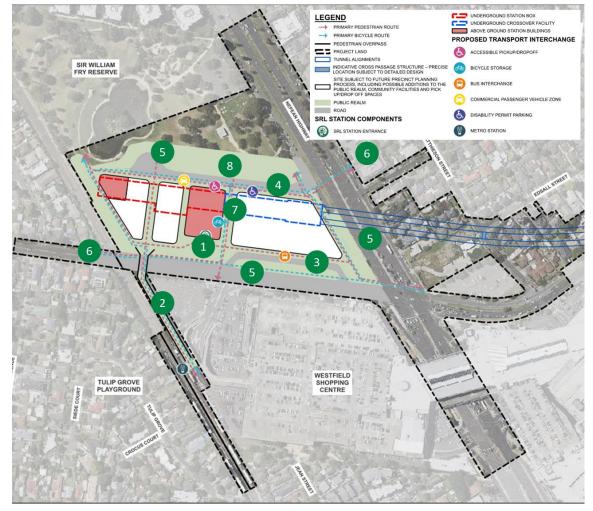


6

A 320-space cycle parking hub at the SRL station.



DDA compliant 'Accessible' pick-up / drop-off areas and taxi bays adjacent to the SRL station entrance.



# FIGURE 3.3 MAIN SRL EAST AND ASSOCIATE SURFACE TRANSPORT INFRASTRUCTURE IN CHELTENHAM (BACKGROUND MAP SOURCE: SURFACE AND TUNNEL PLANS ENDORSED APRIL 2024)



# 3.4 EES traffic and transport assessment

A Traffic and Transport Impact Assessment was prepared for the SRL East Environment Effects Statement (EES) (2021). The impact assessment outlined the proposed infrastructure to be provided as part of SRL East station works and evaluated the associated traffic impacts and benefits on the transport network for stakeholders and the broader community.

In Cheltenham, the impact assessment focused on the impacts associated with construction and operation of the SRL East station at Cheltenham. While the physical impacts were localised within the 'SRL East project land' affected by the project works (see Figure 3.4), the impact assessment considered the wider implications on the transport network from the localised works. Figure 3.5 shows an extract of the broader traffic network assessed for the EES Traffic and Transport Assessment, which includes the Cheltenham Structure Plan Area.

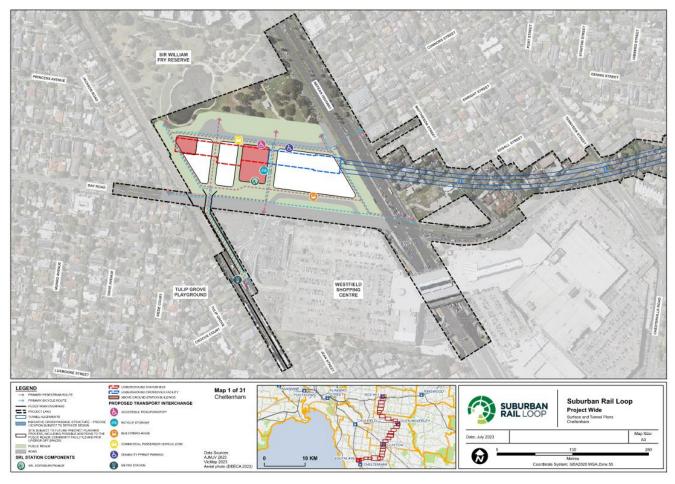


FIGURE 3.4 PROJECT LAND AREA IN CHELTENHAM





FIGURE 3.5 WIDER TRANSPORT NETWORK MODEL (BASE MAP) ASSESSED BY THE SRL EAST PROJECT'S EES AND CHELTENHAM STRUCTURE PLAN AREA

The operational assessment for the EES Traffic and Transport Impact Assessment was undertaken by comparing the future state in 2041 without SRL East (known in that report as the 'Future No Project Case') against the future state with the SRL East Project (known in that report as the 'Project Case').

Each transport mode was assessed considering growth in population, employment and enrolments and the associated change in travel demands in the vicinity of the SRL East Project. The *Future No Project Case* used an existing land use forecast which did not take the SRL East Project into account. The growth in population, employment and enrolments for the *Project Case* was developed specifically for the SRL East Project using CityPlan, a Land Use and Transport Interaction (LUTI) model for Victoria which estimates the land use impacts and shift in demographics as a result of major transport projects like SRL East.

In simplest terms, CityPlan used the existing forecast of land use growth in Victoria developed without the SRL East Project and redistributed land use development (and associated population and employment) across Melbourne including into the SRL East Project's precincts in response to the increased transport accessibility and development capacity proposed through the SRL East Project. The CityPlan model was peer reviewed during the development of the SRL Business and Investment Case (2021) and its use was subsequently tested through the SRL East EES Independent Advisory Committee process.



The transport modelling of the *Project Case* was subject to extensive review through the EES Traffic and Transport Impact Assessment and the Minister's Assessment ultimately concluded that **'I support the** *Independent Advisory Committee's finding that the transport modelling undertaken to underpin the assessment of operational transport effects is adequate for this phase of the project'* (notwithstanding some areas of further assessment discussed in the following section).<sup>30</sup> Given the outcome of that assessment, the EES Project Case has been adopted as the foundation or 'Baseline Scenario' for this report's assessment, and including its recommendations which inform the Cheltenham Structure Plan.

Further discussion of the previous EES Traffic and Transport Impact Assessment, including future growth forecasts, in comparison to, as well as their relative suitability for use as part of structure planning is provided in Section 4.3.

# 3.5 EES further assessment requirements

In addition to the EPR's outlined in Section 3.2, the Minister's Assessment<sup>31</sup> for the EES included additional specific matters for further assessment as part of the planning for the SRL East Project. These matters include those related to the SRL East Project and some related to wider precinct matters. The key transport planning-related matters for further assessment are summarised in Table 3.2, which identifies how these are being addressed by the SRL East Project. Note this report is focused on the wider precinct matters that relate to Cheltenham as part of structure planning, not matters related to the SRL East Project scope.

MATTERS FOR CONSIDERATION	SRL EAST PROJECT SCOPE	WIDER PRECINCT PLANNING (THIS REPORT)
Modelling:		
<ul> <li>Refinements to the EES modelling will be required over time to optimise the benefits of the project including sensitivity testing.</li> </ul>		
Paid connections – Cheltenham:		
<ul> <li>Future proofing for a paid connection between the existing Cheltenham Station and the SRL station with connection to be provided 'in due course, subject to funding'.</li> </ul>		
Parking – Cheltenham:		
No commuter car parking considered acceptable		
EES pick-up / drop-off location and provision to be reviewed.		
<ul> <li>Consult with relevant road management authorities on reinstating parking impacted as a result of the project works</li> </ul>		
Bus interchange – Cheltenham:		
• Further consideration of the bus interchange to optimise location.		
Active transport – Cheltenham:		
<ul> <li>Include convenient and safe crossing facility of Nepean Highway in the vicinity of Enright Street</li> </ul>		
Bay Road pedestrian and cycle bridge to be widened		
<ul> <li>Development of shared paths beyond the project boundary are not required, bus should be considered by DTP as concurrent projects to help facilitate the aspirational mode split to cycling.</li> </ul>		

## TABLE 3.2 MINISTER'S REQUIREMENTS FOR FURTHER CONSIDERATION - CHELTENHAM

Section 1.5 provides details of the consultation and assessments completed to address the identified areas of further assessment by the Minister, required as part of future precinct planning following the EES.

<sup>&</sup>lt;sup>31</sup> <u>https://www.planning.vic.gov.au/ data/assets/pdf file/0026/651905/SRL-East-Ministers-assessment.pdf</u>



<sup>&</sup>lt;sup>30</sup> Minister for Environment and Climate Action, SRL East Minister's Assessment under Environment Effects Act 1978 (2022) p. 29

# 4 Transport ambition for Cheltenham

# 4.1 Overview

The areas surrounding the new SRL stations will attract significant investment, creating new local employment and housing opportunities, driving population and employment growth and land use changes.

To support Cheltenham's future role as an attractive place to live, work and/or establish businesses, the structure planning for Cheltenham needs to:

- Support the delivery of housing, jobs, services, and amenities in the right locations for new and existing residents, workers and visitors
- Enable infrastructure investment across transport, education, health, open space and other amenities.

A set of transport ambitions and goals common to all SRL East Structure Plan Areas were developed to help the Vision for each Structure Plan Area and surrounds, and to inform the Structure Plans.

The SRL East Structure Plans will identify how the five key themes of Boosting the Economy, Enriching Community, Better Connections, Enhancing Place and Empowering Sustainability will be delivered in the Structure Plan Area and set objectives, strategies and actions to realise the Vision for the area.

The areas surrounding the new SRL stations will attract significant investment, creating new local employment and housing opportunities, driving population and employment growth and land use changes.

This section also compares the baseline with the Cheltenham Structure Plan's land use.

# 4.2 Transport ambition and goals

The population, job and traffic growth demands will require proactive management to achieve the full potential of SRL East. The transport ambition provides a foundation for managing the growth in Cheltenham, as stated in Figure 4.1.

#### **Transport Ambition for Cheltenham**



Managing the growing number of trips through more people choosing to walk, cycle and catch public transport as Cheltenham develops.

.....

#### FIGURE 4.1 TRANSPORT AMBITION FOR CHELTENHAM

From the transport ambition, a set of transport goals and modal principles were developed to support the Vision for Cheltenham. The development of these goals and modal principles considered the existing transport challenges, gaps and opportunities.



The transport ambition and goals should be considered with the Vision and themes outlined in the Cheltenham Structure Plan, which address requirements such as those in the *Transport Integration Act 2010* (Vic). The development of the Structure Plan and this report has informed the infrastructure and non-infrastructure recommendations to achieve the transport ambition of providing better transport choices.

The transport goals are listed and explained in Table 4.1.

## TABLE 4.1 TRANSPORT GOALS

GOAL		EXPLANATION
<b>بَر</b> ي مَ	A safe and connected walking and cycling environment	Walking and cycling <sup>32</sup> will serve as the most convenient, safe and enjoyable means of travel in the neighbourhoods around each SRL station.
	A revitalised bus experience	In line with Victoria's Bus Plan, help change people's perception of buses. Provide a passenger- focused bus service, making road-based public transport a competitive, attractive and convenient choice.
	An all-inclusive transport network	Ensure transport is accessible to people of all ages, abilities and genders.
	Anchoring sustainable travel services and shared mobility to SRL East	SRL stations are seamless integrated hubs, allowing quality interchanges between sustainable travel modes.
6	Prioritising safe and healthy movement	In line with Victoria's Road Safety Strategy 2021-2030, the transport network becomes safer for all, particularly vulnerable users. Uptake in walking and cycling contributes to an increase in daily physical activity.
	Smart and efficient use of parking	Parking management needs for all users, with a strong emphasis on providing for the needs of bike and micromobility users. Car parking spaces will be managed and used to maximise their effectiveness while considering impacts on the urban realm.
	Enable new and emerging innovative mobility	Neighbourhoods around each SRL station will enable emerging and innovative mobility to provide more and convenient choice, especially for shorter to medium distance trips.

# 4.3 Future population and employment growth

The population and employment forecasts for the Cheltenham Structure Plan Area are shown in Figure 4.2. The resident population in the Cheltenham Structure Plan Area is forecast to increase from 9,400 in 2021 to 20,800 residents by 2041. The worker population is forecast to increase from 10,600 to 22,600.<sup>33</sup> With more people living and working in Cheltenham, the new SRL station will become a focus point for movement.

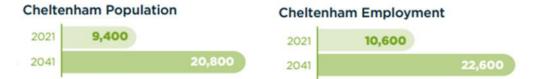


FIGURE 4.2 POPULATION AND EMPLOYMENT GROWTH WITHIN THE STRUCTURE PLAN AREA

 <sup>&</sup>lt;sup>32</sup> Walking and cycling represent the action of moving as a pedestrian or cyclists, whether or not someone is walking or cycling unaided or using any kind of wheeled mobility aid, including cycles, scooters, wheelchairs, mobility scooters, walking frames, prams or buggies.
 <sup>33</sup> AJM (2025), Economic Profile – Cheltenham



While the future development projections within the transport model for the Baseline Scenario<sup>34</sup> are consistent with the Structure Plan overall, the Structure Plan has redistributed growth within Cheltenham compared to the model input:

- Residential growth particularly in areas near the amenity and along key transport corridors
- Greater diversity of land use including retail, hospitality, commercial and residential land uses around the SRL station at Cheltenham and Southland Shopping Centre, with existing mixed land uses maintained in the Highett Neighbourhood Activity Centre
- Office and commercial development along Bay Road within the Bayside Business District
- Employment growth concentrated within the Bayside Business District with greater mix of business types such as warehousing and manufacturing.

The consistency of the input scenarios for the EES and structure planning reaffirms the adoption of the Project Case in the EES Traffic and Transport Impact Assessment as the Baseline Scenario is appropriate.

# 4.4 Summary and implications

The transport ambition for a growing Cheltenham is to encourage as many of the additional trips expected to be undertaken by active transport or public transport. This includes providing a local transport network to facilitate Plan Melbourne 20-minute neighbourhoods, and the transport goals have been set towards achieving this ambition.

Cheltenham will need to evolve so that while its people and employment intensity increases, growth is managed through sustainable and active transport, while maintaining car access via the existing arterial road network. The transport network will need to evolve so that residents, workers and visitors have better travel options and experiences on active and public transport to manage increased movements to, from and within Cheltenham.

This vision has set the basis for the development of the transport recommendations as part of the 'vision and validate' approach. A comparison of the Structure Plan's land use forecasts with those in the Baseline Scenario has found it is an appropriate basis to apply the vision and validate approach. This approach allows the transport ambition and goals for Cheltenham to be at the centre of the recommendations in this report, enhancing connectivity and considering benefits to the economy, community, place and sustainability.

<sup>&</sup>lt;sup>34</sup> The Baseline Scenario is based on the EES Traffic and Transport Impact Assessment (2021). See Section 3.4 for more information.



# **5 Future transport demands**

# 5.1 Overview

Given the transport ambition to manage the growing number of transport trips by encouraging the use of sustainable transport modes, this section presents the approach to set an appropriate mode share target. It considers the potential for transport choices to better meet the Structure Plan and transport ambition by:

- Determining the number of trips generated given the land use
- Understanding, at a broad level, where these trips started and ended (trip distribution)
- Developing a mode share target by considering which trips could change from one mode to another given land use and travel patterns.

This mode share target was then justified through benchmarking with comparator suburbs. Using the Baseline Scenario as a starting point (see Section 3.4 for more details), this was undertaken by assessing how travel choices and the mode share may further change with improvements to sustainable modes of transport (active and public transport) that address the challenges and gaps.

Analysis is based on the primary mode<sup>35</sup> for trips to, from and within Cheltenham (through-trips are not included).

# 5.2 Trip generation

The number of trips to and from Cheltenham is primarily influenced by the land use plans and population and employment forecasts. A resident population of 20,800 and worker population of 22,600 by 2041 is forecast in the Cheltenham Structure Plan Area. As shown in Figure 5.1 this results in about 21,000 trips in the morning peak hour and 31,500 trips in the evening peak beginning, ending, or being entirely within Cheltenham.

There is a slightly greater proportion of trips out of Cheltenham (production) during the AM peak hour, which is primarily driven by residential land uses. Trips into Cheltenham (attraction) are slightly lower and driven by employment land uses (see Figure 5.1). Similarly, in the PM peak hour, the trip attraction is higher than production, with high levels of attraction driven by retail facilities in Cheltenham (Southland Shopping Centre). The overall number of trips in the PM peak hour is higher than the AM peak hour due to increased levels of retail and leisure trips in the PM peak hour.

<sup>&</sup>lt;sup>35</sup> Refers to the main mode of travel used by an individual traveling to/from Cheltenham. For example, a trip comprising of walking to/from a public transport facility and using public transport would be classed as a public transport trip.



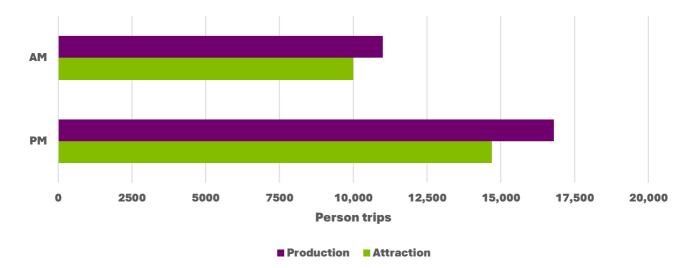


FIGURE 5.1 CHELTENHAM TRIP PRODUCTION AND ATTRACTION (AM AND PM PEAK HOUR 2041) (SOURCE: VITM)

# 5.3 Trip distribution patterns

Trip distribution patterns have been provided based on the AM peak. The general trends for the AM peak are also representative of the PM peak.

The distribution of trips shows the majority of trips to and from Cheltenham are located within the local area or surrounding suburbs (approximately 5 kilometres<sup>36</sup>) amidst a broad catchment that spans the inner and eastern Melbourne Metropolitan area (see Figure 5.2).

Surrounding areas which generate and attract notable trips include Bentleigh East, Moorabbin, Mentone and Hampton East. However, these represent a relatively small proportion of trips compared to internal trips within Cheltenham. Outside of Cheltenham and surrounding areas, no individual area appears to generate or attract a substantial share of overall travel demand.

<sup>&</sup>lt;sup>36</sup> Qualitative assessment of Figure 5.2 shows the majority of areas with high levels of trips occur within approximately 5 km radius of Cheltenham).



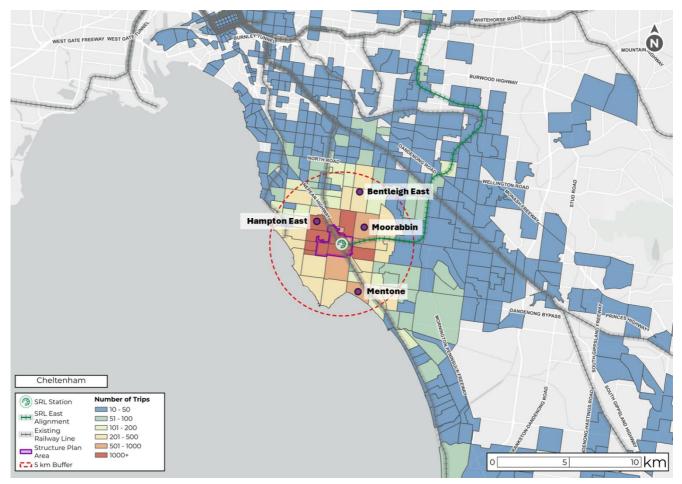


FIGURE 5.2 TRIP DISTRIBUTION – ORIGIN AND DESTINATION OF ALL TRIPS TO AND FROM CHELTENHAM (AM PEAK 2041)

Based on the data in Figure 5.2, a summary of key areas and corridors (Figure 5.3) shows that approximately 60 per cent of all trips to and from Cheltenham are from within Cheltenham itself and surrounding suburbs. Trips outside Cheltenham and surrounding suburbs which potentially could be undertaken by a single seat trip on the Frankston Line or SRL East account for a further 15 per cent of trips.<sup>37</sup> The remaining 25 per cent of trips are from elsewhere across Metropolitan Melbourne. The mode share assessment focuses on the 75 per cent of trips in the Cheltenham Structure Plan Area, surrounding suburbs, or along rail corridors as having potential to use public and active transport.

<sup>&</sup>lt;sup>37</sup> Based on trips which are potentially within an 800 m walk of a train station. The Frankson Line includes over 30 stations which offer a single seat trip, while SRL East includes six stations, hence the higher potential for trips which could be undertaken by the Frankston Line.



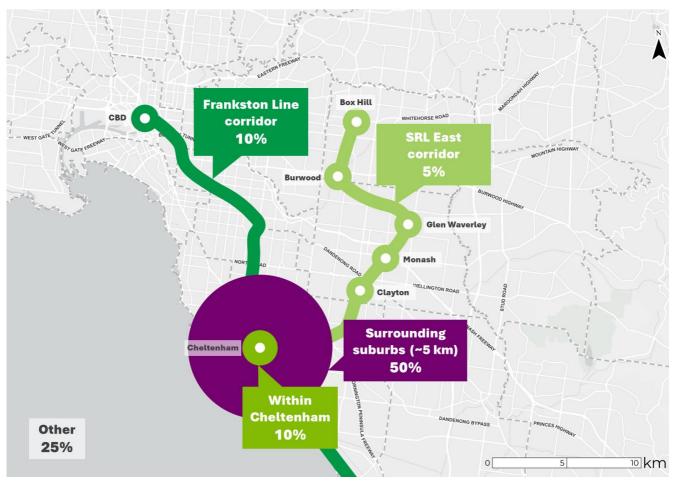


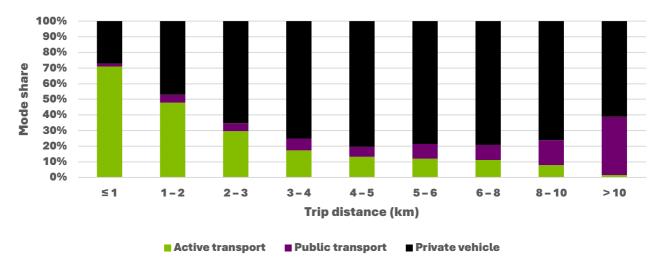
FIGURE 5.3 TRIP DISTRIBUTION - KEY AREAS AND CORRIDORS FOR ALL TRIPS TO AND FROM CHELTENHAM (AM PEAK 2041)<sup>38</sup>

The ability to switch trips to sustainable modes will depend on improvements made to those modes, in addition to the shift achieved through increased land use density and road network congestion. For example, for public transport to be used for a wider variety of trips, such as weekend shopping trips, the frequency of services would need to be made sufficiently attractive. For cycling to be a viable option for carrying cargo, bicycle lanes and parking would need to be designed to support larger bicycles. The other 25 per cent of trips may benefit from the recommendations of this report, but have not been assumed given they are likely more reliant on broader public transport changes that are beyond the scope of the SRL East PSP project.

Assessment of the Baseline Scenario mode share by distance (Figure 5.4) shows the opportunity to increase sustainable transport mode share through the shift of short distance private vehicle trips.

<sup>38</sup> For the purpose of understanding strategic trips all percentages have been rounded to the nearest 5 per cent. Where overlap occurs between the 5 km area and rail corridors, trips have been allocated to the 5 km area. Trips along the rail corridors do not account for trips interchanging from other lines (i.e. only direct (single seat) trips have been included).





### FIGURE 5.4 MODE SHARE BY DISTANCE TO CHELTENHAM (BASELINE AM PEAK 2041)

In particular, for trips of 1 to 2 km in distance almost 50 per cent are forecast to be undertaken by private vehicle which could readily be undertaken by active or public transport to the Structure Plan Area. There is also a significant proportion of trips to and from surrounding suburbs (less than 5 kilometres) that could also switch to public and active transport.

# 5.4 Target mode share

Mode shares are a frequently used transport planning metric to provide a broad sense of how people choose to travel in an area. They are typically presented as the share of person trips by private car, public transport, and active transport.

Mode shares provide an indication of the relative attractiveness of the transport modes available in the area. When an area with mixed land uses is served by convenient and frequent public transport and provided with safe, direct and comfortable walking and cycling infrastructure, private vehicle usage tends to be lower as people have the choice to travel in other ways.

Setting a mode share target is useful as it:

- Communicates the future vision for the way that people travel, including the level of change expected from today, and compared to the Baseline Scenario and other areas
- Informs the transport recommendations to achieve this level of change
- Can be measured and monitored through existing processes, such as the ABS census
- Suggests how well the transport system meets the travel needs of the community.

Setting a target for increased sustainable transport mode share in Cheltenham reflects the future higher-density, mixed use, transit-oriented development close to high-quality public transport services. In turn, this means there is greater opportunity for active and public transport compared to suburbs with more limited transport alternatives. In addition, mode share targets also consider that private vehicle trips will increase in volume over the life of the Structure Plan. Targeting increased active and public transport mode share for trips to, from or within Cheltenham will help maintain strategic road corridors for broader traffic functions across Melbourne.



The trip distribution patterns and trip lengths (see Section 5.3) suggest there is potential to achieve a greater mode share shift to sustainable modes in Cheltenham than was estimated in the Baseline Scenario. This is possible due to the shifting of short distance trips to more sustainable modes which is supported by the proposed mix of land uses.

A comparison of the land use and transport characteristics of the six precincts has been undertaken to estimate an appropriate modal split target for each precinct. Cheltenham has similar characteristics to both Clayton and Glen Waverley having an existing railway station and adjacent bus interchange near existing activity centres with a similar walk score for all three precincts. While Box Hill has the highest transit score and is served by bus, rail and tram services centred around an activity centre that has undergone the largest scale of development uplift in the last 20 years. In contrast, both Burwood and Monash have the lowest walk scores with no access to existing railway stations and have little recent land use change.

Based on the above groupings the following targets for have been set to increase sustainable transport mode share compared to the baseline scenario:

- Clayton, Cheltenham, and Glen Waverley have been set the highest increase of 25% in sustainable transport because they have a more immediate potential for change. Of this 25%, 75% of those changing modes is allocated to active transport and 25% to public transport.
- Box Hill has been set the lowest increase of 15% in sustainable transport as some mode shift has already occurred with development in recent years. Of this 15%, 75% of those changing modes is allocated to active transport and 25% to public transport.
- Burwood and Monash have been set an increase of 20% in sustainable transport reflecting the significant potential for change which is expected to occur closer to the opening of the SRL Station. Of this 20%, 75% of those changing modes is allocated to active transport and 25% to public transport.

The primary focus of the sustainable transport mode share increase is the growth in active transport trips supported by the future land uses and short distance trips.

Figure 5.5 shows the future Baseline Scenario (including SRL East) and target mode shares for a typical peak hour<sup>39</sup> for Cheltenham. The target shows a 25 per cent increase in sustainable transport made up of a 30 per cent increase in active transport and a 17 per cent increase in public transport. This illustrates the ability of Cheltenham to manage the growing number of transport trips through more people choosing to walk, cycling and catch public transport as Cheltenham develops.

<sup>&</sup>lt;sup>39</sup> Typical peak hour represents the average of the AM peak hour and PM peak hour.



#### YEAR 2041 BASE - TYPICAL PEAK HOUR<sup>40</sup>

#### YEAR 2041 TARGET - TYPICAL PEAK HOUR

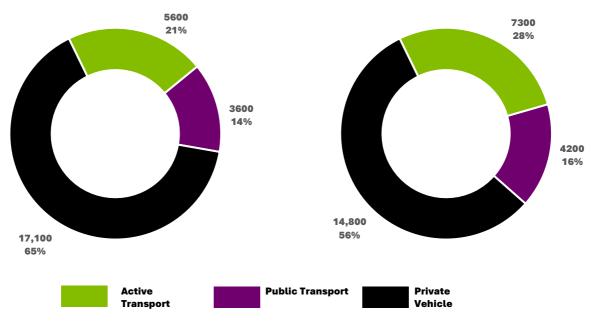


FIGURE 5.5 CHELTENHAM MODE SHARES

# 5.5 Mode share target rationale

To assess the rationale of the mode share target for Cheltenham, the target has been compared to comparator areas in Melbourne.

Assessment of ABS 2016 census data<sup>41</sup> for Greater Melbourne highlights the trend that areas with high population densities (Figure 5.6) typically have lower private vehicle mode shares, driven by factors including the spatial proximity of residential, employment and leisure land uses, as well as assumed or inferred higher degrees of access to public transport services that enable a shift to sustainable travel choices.

Plotting the 2041 Baseline Scenario and target mode share for Cheltenham shows the baseline and target private vehicle mode shares are within the upper and lower bounds of the general trends observed for existing areas with similar residential densities (Figure 5.6).

The mode shares for Cheltenham are shown in Figure 5.6:

- Baseline upper end of the green bar
- Target lower end of the green bar
- Purple area indicates the trendline plus the 95 per cent prediction interval.

<sup>&</sup>lt;sup>41</sup> 2016 ABS Census data considered appropriate for mode share analysis as it is pre-COVID and 2021 is pre-COVID 'normal'. 2021 ABS Census data considered appropriate for car ownership data as on balance 2016 and 2021 data is similar.



<sup>&</sup>lt;sup>40</sup> Due to limitations in VITM actual active transport mode share may be higher than the baseline forecast due to mixed-used higher density land uses naturally favouring active transport and active transport initiatives from State Government and Local Councils which may occur from now until commencement of SRL East services.

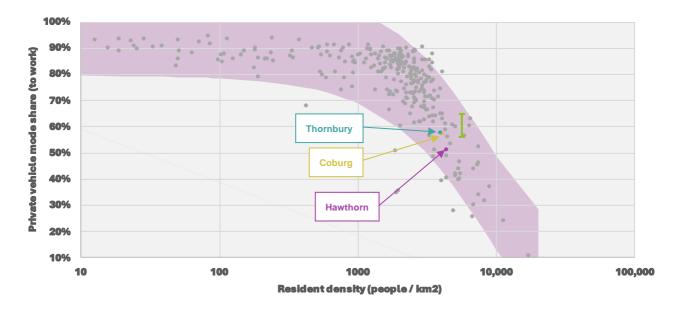
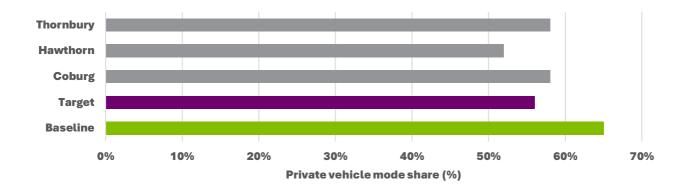


FIGURE 5.6 DISTRIBUTION OF MELBOURNE'S POPULATION DENSITY AND PRIVATE VEHICLE MODE SHARE BY SA2 LEVEL WITH CHELTENHAM 2041 MODE SHARE RANGES (SOURCE: ABS CENSUS 2016, JOURNEY TO WORK, PLACE OF USUAL RESIDENCE)

In addition, the future mode shares for Cheltenham have been reviewed against the existing mode shares for various areas across Melbourne to understand how they compare against current travel patterns. Areas were selected based on their areas were selected based on their similar resident density to Cheltenham of the future identifying potential target mode shares. As shown in Figure 5.7, the private vehicle mode share target for Cheltenham resembles existing mode shares exhibited for other areas in Melbourne. These areas reflect an appropriate target given the mix of higher density land uses, range of public transport services available, and quality of the active transport network. It must be noted that the Cheltenham mode target is for 2041 compared to the other areas mode shares surveyed in 2016. It is expected that the comparable areas mode shares will improve by increasing the sustainable transport mode share and therefore decreasing the private car travel in the future.



#### FIGURE 5.7 HIGH-LEVEL BENCHMARKING OF 2041 PRIVATE VEHICLE MODE SHARE TARGETS FOR CHELTENHAM (EXISTING AREAS SOURCE: ABS YEAR 2016 JOURNEY TO WORK, PLACE OF USUAL RESIDENCE)



# **6** Infrastructure recommendations

This section summarises the modal ambitions for the Cheltenham Structure Plan Area, including the modal principles and the corresponding strategic and local modal networks for the Planning Area.

It sets out the transport infrastructure recommendations for the Structure Plan Area for each mode, and details how the recommendations address the transport challenges identified in Section 2, and how they adhere to the modal principles.

# 6.1 Modal principles and movement networks

## 6.1.1 OVERVIEW

The modal principles and transport networks that provide the strategic justification to support the future of the Structure Plan Area through the identified infrastructure recommendations are outlined in this section.

## GUIDING PRINCIPLES

A set of guiding principles have been established for each mode to inform the development of the recommendations which will influence the movement experience throughout Cheltenham. The principles were consolidated from a broader set of network-wide transport principles, which were developed using the DTP-adopted Movement & Place (M&P) classifications. These classifications, which have been specifically applied in the context of the SRL East structure planning, are designed to encourage the use of active and public transport while balancing the competing demands of movement and access in a rapidly evolving urban landscape.

These guiding principles align with the overarching transport ambition and goals set for the Cheltenham Structure Plan Area. They provided a framework throughout the identification of the proposed infrastructure recommendations, so that planned developments contribute to a more connected and accessible Cheltenham. By adhering to these principles, the recommendations will help achieve the desired outcomes for mobility, while also supporting broader urban planning objectives for Cheltenham. The following sections detail how these principles are applied to achieve an integrated and forward-thinking transport network.

The guiding principles for the SRL East Structure Plan Areas for each mode are provided in the following sections.

## MOVEMENT NETWORKS

The DTP-adopted M&P classifications for SRL East structure planning informed the identification of future strategic and local corridors for each mode.

Strategic corridors connect to destinations with metropolitan and regional significance such as employment and designated activity centres. Strategic modal corridors will provide high-quality connections that prioritise the movement of a particular mode, while still considering the function of other modes along that corridor.

More local links will provide an attractive corridor for moving within Cheltenham and to the precinct core and other local destinations within and around Cheltenham.

The strategic and local walking, cycling, public transport, and general traffic/freight corridors across Cheltenham generally align with the M&P classifications in Table 6.1.



1-W2	W3*
1- C2	C3*
1 – B2	B3
T1 – GT3 & F1 – F3	GT4*
1 · T′	- B2

#### TABLE 6.1 STRATEGIC AND LOCAL CORRIDORS AND ASSOCIATED M&P CLASSIFICATIONS

\* Referred to as municipal links or routes in the DTP Movement & Place Technical Appendix (September 2020)

The strategic and local corridors within the Cheltenham Planning Area for each mode are provided in the following sections.

## 6.1.2 WALKING

Provide for a vibrant community where walking is the preferred way to get to wherever you need to go locally.



FIGURE 6.1 WALKING USER TYPES AND INFRASTRUCTURE

References to walking in this report include moving as a pedestrian unaided, or using any kind of wheeled mobility aid, such as wheelchairs, mobility scooters, walking frames, prams or buggies as shown in Figure 6.1.

The walkability of east and west trips through Cheltenham are limited by Nepean Highway and the Frankston Line corridor which severs Cheltenham and offers limited crossing opportunities. Large multi-legged intersections can also lead to long walking times for pedestrians. The walking experience is also unattractive around Southland Shopping Centre. Many pedestrian facilities will need to be enhanced, such as safer and more efficient pedestrian crossings of busy roads, and wider footpaths to improve the walking experience.

Delivering a desirable pedestrian environment is critical to supporting the sustainability, functionality and liveability of the Structure Plan Area, and offers significant health benefits.

Infrastructure recommendations for corridors that improve priority for walking are provided in Section 6.2.



## WALKING PRINCIPLES

As outlined in Section 6.1.1, a set of guiding principles were established to inform the development of the recommendations that will influence the walking experience in Cheltenham. These walking principles are provided in Figure 6.2. These walking principles align with the transport ambition and goals and provided a framework throughout the development of the infrastructure recommendations to ensure walking formed part of the integrated transport network.

Provide for a vibrant community where walking is the preferred way to get to wherever you need to go locally		
The SRL East S	Structure Plan Areas will	Strategic walking corridors
The SRL East S	<ul> <li>maximise the convenience of walking, providing direct and continuous routes to shops, schools, workplaces, and public transport facilities</li> <li>maintain an inclusive, accessible walking network that caters for persons of all abilities</li> <li>provide a safe walking environment</li> <li>support comfortable and enjoyable walking experiences, enabling people to be</li> </ul>	Strategic walking corridors         Strategic walking corridors         Provide access to primary walking destinations         intersections         will have safe and convenient crossing locations at intersections and key destinations         provide clear connections for pedestrians travelling between modes         reduce conflict between people walking and cycling         and street space respond to changes in use
	more physically active	and community needs are supported by an inviting public realm, seating, lighting, and trees

#### FIGURE 6.2 WALKING PRINCIPLES

## WALKING CORRIDORS

Strategic walking corridors connecting destinations with metropolitan and regional significance and local walking corridors moving people around Cheltenham as defined in Section 6.1.1 for the Cheltenham Planning Area are shown in Figure 6.3.

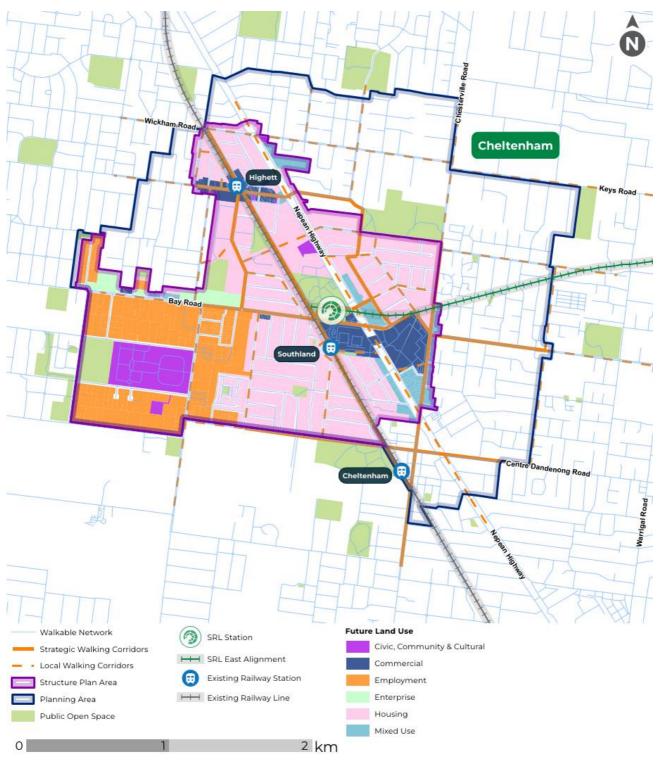


FIGURE 6.3 WALKING CORRIDORS IN THE CHELTENHAM PLANNING AREA



# 6.1.3 CYCLING AND MICROMOBILITY

The SRL East Structure Plan Areas provide world class active transport options. Bikes and other micromobility devices are some of the most attractive options for people to access local shops, schools, workplaces, and public transport facilities for longer journeys.



FIGURE 6.4 CYCLING AND MICROMOBILITY DEVICES

References to cycling in this report include personal mobility devices such as bicycles, scooters and cargo bikes, including electric powered devices.

Cycling connections in Cheltenham are limited. There are no segregated or separated cycling routes that follow the road network, and the few on-road cycle lanes are fragmented and often occupied by parked cars. Nepean Highway and the Frankston Line also limit east-west cycling movements through the Planning Area.

Recommendations for cycling and micromobility aim to support the use of mobility devices of all kinds, allowing everyone to navigate the community safely and sustainably, with the associated health benefits of active transport.

Cycling in the Cheltenham Planning Area will be more available and safer for people of any gender, age or ability with well-planned and designed on and off road infrastructure which may include provision for cycling separated from other traffic, or providing for cyclists on streets with reduced speeds and with lower traffic volumes, supporting a wider range of devices. Cycling will support an alternative to driving for trips that may be too long for walking and facilitate quick short distance trips.

Micromobility devices such as e-scooters and e-bikes can also be offered as a shared service where anyone can unlock and use a device from a public fleet for a fee. Shared micromobility offers the flexibility and convenience of e-bikes and e-scooters without the need to pay upfront costs or securely store a private device at home or at a destination.

The shared e-scooter trials in the Melbourne, Yarra and Port Phillip municipalities (launched in 2022) have generated significant benefits for the community. The average number of trips per day per e-scooter is 4.3 to  $5.5^{42}$  across each quarter of 2023, which is among the highest e-scooter use in the world. For the same 2023 period the average length of e-scooter trips in the trial area ranged from 1.66 to 1.78 kilometres, showing the potential of the mode to assist with modal shift in the 1 to 2-kilometre trip distance bracket identified in Figure 5.4.<sup>42</sup> User surveys have found that around 28 per cent of e-scooter trips in the trial areas replaced a vehicle trip,<sup>43</sup> helping to reduce congestion and contribute to car light living. Despite the City of Melbourne's decision to end the trial in its municipality, other councils are considering working with the hire scheme operators in the future and private scooter uptake continues to increase in Melbourne. In October 2024, the Victorian

<sup>&</sup>lt;sup>43</sup> Williams, G. (2024, April 4). Making E-scooters Safer [Press release]. https://www.premier.vic.gov.au/sites/default/files/2024-04/240404-Making-E-Scooters-Safer.pdf



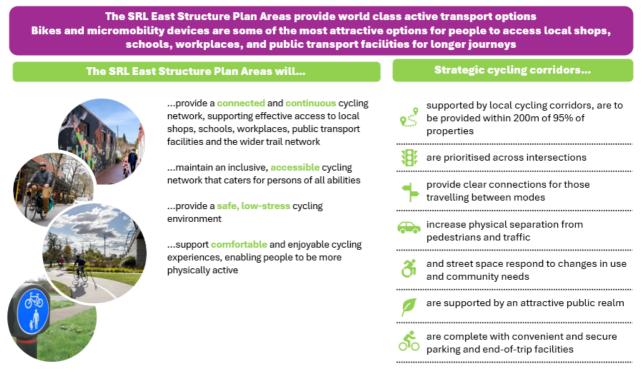
<sup>&</sup>lt;sup>42</sup> <u>https://public.ridereport.com/regions/australia</u> (Data range captured for each quarter of 2023)

Government announced that share hire e-scooters will be permanently legalised across Victoria, subject to agreement with councils.<sup>44</sup>

Infrastructure recommendations to improve cycling and micromobility transport in the Structure Plan Area are provided in Section 6.2.

## CYCLING PRINCIPLES

As outlined in Section 6.1.1, a set of guiding principles were established to inform the development of the recommendations that will influence the cycling experience in Cheltenham. These cycling principles are provided in Figure 6.5. These cycling principles align with the transport ambition and goals and provided a framework throughout the development of the infrastructure recommendations to ensure cycling formed part of the integrated transport network.



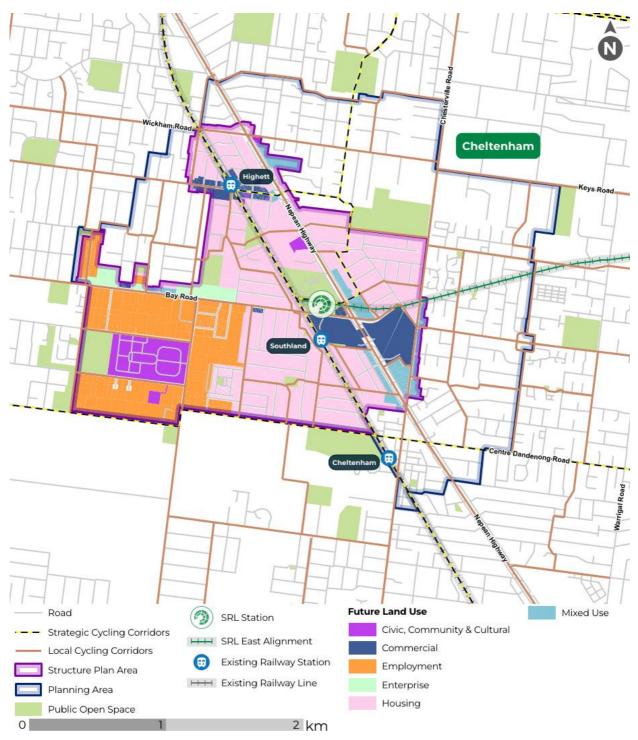
**FIGURE 6.5 CYCLING PRINCIPLES** 

## CYCLING CORRIDORS

Strategic cycling corridors connecting destinations with metropolitan and regional significance and local cycling corridors moving people around Cheltenham as defined in Section 6.1.1 for the Cheltenham Planning Area are shown in Figure 6.6.

<sup>&</sup>lt;sup>44</sup> Victorian Government (2024). Permanent E-Scooter Rules in Place Across the State. https://www.premier.vic.gov.au/permanent-escooter-rules-place-across-state







## 6.1.4 PUBLIC TRANSPORT

Anchored around the new SRL interchanges, public transport is the most attractive option for people to travel distances that are too long to walk, cycle or use other micromobility devices.



#### FIGURE 6.7 PUBLIC TRANSPORT MODES AT CHELTENHAM

Cheltenham is well serviced by the Frankston Line and supported by buses. The precinct core will play a vital role for connecting people to all transport services and modes, including the SRL station. The network of quality public transport corridors will connect across the greater Melbourne metropolitan area. Generally, the Cheltenham Structure Plan Area is relatively well serviced by nearby public transport when compared to some parts of Greater Melbourne.

Public transport will be a comfortable and reliable option for travelling when it is not within a comfortable walking distance, is too far to cycle or use micromobility devices, and is an attractive alternative to private vehicle use. In addition to the well-known environmental benefits, public transport is also a good way to increase health benefits through incidental exercise compared to private vehicles, by walking or cycling to stations and stops.

The precinct core will play a vital role for connecting people to all transport services and modes, including the SRL station. The network of quality public transport corridors will connect across the greater Melbourne metropolitan area.

Infrastructure recommendations to improve public transport corridors are provided in Section 6.2 of this report.

## PUBLIC TRANSPORT PRINCIPLES

As outlined in Section 6.1.1, a set of guiding principles were established to inform the development of the recommendations that will influence the public transport experience in Cheltenham. These public transport principles are provided in Figure 6.8. These public transport principles align with the transport ambition and goals and provided a framework throughout the development of the infrastructure recommendations to ensure public transport formed part of the integrated transport network.

Anchored around the new SRL interchanges, public transport is the most attractive option for people to travel distances that are too long to walk, cycle or use other micromobility devices

The SRL East Structure Plan Areas will			S	trategic public transport corridors
	connect people, between home, work, schools, shopping and transport interchanges as an efficient alternative to the car		്	should facilitate a network whereby a strategic public transport stop or interchange or a local public transport stop within 800m or 400m respectively to 95% of properties
	be accessible for everyone regardless of age and ability travel on routes that are direct and offer attractive travel times		¢	will have quality, comfortable and direct active transport networks coupled with high frequency, direct and reliable public transport
	promote development opportunities		₿	will have priority for buses along their alignment to provide users with predictable journey times
			ð	have roads at bus stops that are easy to access for pedestrians of all ages, abilities and genders
			0	will have public transport service levels that unlock development potential

### FIGURE 6.8 PUBLIC TRANSPORT PRINCIPLES

### PUBLIC TRANSPORT CORRIDORS

Strategic public transport corridors connecting destinations with metropolitan and regional significance and local public transport corridors moving people around Cheltenham are defined in Section 6.1.1 for the Cheltenham Planning Area. SRLA and DTP have worked together to identify these strategic and local bus corridors taking into consideration existing bus routes and the introduction of the new SRL East Stations. While it is too early to detail specific route changes with the SRL stations expected to be delivered by 2035.

Figure 6.9 shows the most likely strategic and local corridors identified through this collaboration with DTP.

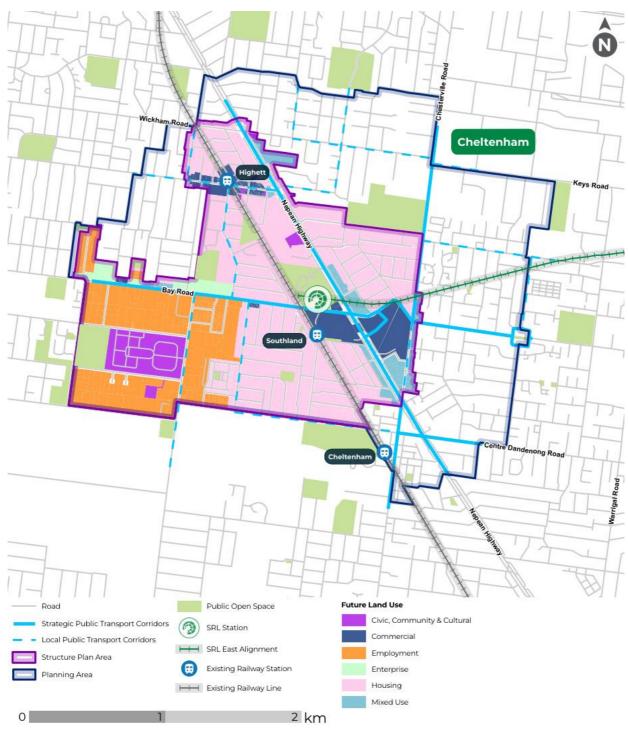


FIGURE 6.9 PUBLIC TRANSPORT CORRIDORS IN THE CHELTENHAM PLANNING AREA

# 6.1.5 GENERAL TRAFFIC AND FREIGHT

A vision of healthy, safe and sustainable communities will be delivered by well-planned strategic access and local neighbourhoods, anchored by the opportunity for people to live car free or car light.



FIGURE 6.10 EXAMPLES OF GENERAL TRAFFIC AND FREIGHT VEHICLES

Cheltenham benefits from access to strategic road routes including Nepean Highway, Bay Road, Highett Road, Centre Dandenong Road, Wickham Road and Chesterville Road. Protecting arterial road access while increasing priority for other modes particularly in the precinct core will support liveability in Cheltenham for residents, workers and visitors. The option of car light living will be achievable in the Structure Plan Area as access to other modes increases and denser mixed land use develops and help to manage congestion on existing road network.

No Principal Freight Network (PFN) routes pass through the Structure Plan Area. However, strategic routes such as Nepean Highway, Bay Road, Highett Road, Centre Dandenong Road, Wickham Road and Chesterville Road are designated to carry freight through or to the Structure Plan Area. Warrigal Road, South Road and Mordialloc Bypass are located just outside the Structure Plan Area (just over two kilometres east and north of the SRL station at Cheltenham respectively), and form part of the PFN and an alternative to Nepean Highway. The strategic road network facilitates heavy vehicle traffic servicing Southland Shopping Centre, subject to restrictions preventing significant heavy vehicle traffic during peak times.

Freight (including smaller parcels), service and emergency vehicles will need to be appropriately accommodated to support the future growth of Cheltenham. This includes maintaining important freight and emergency access to major land uses such as Southland Shopping Centre.

Introducing new freight management practices for the Structure Plan Area through 'last mile' policies will impact how new freight tasks are undertaken and influence existing freight tasks for the betterment of businesses and the community.

Providing mobility hubs and implementing Last Mile Freight Plans (discussed in Section 7.2 and Section 7.3) and built form controls will provide measures for managing freight in the Structure Plan Area. Freight management policies prepared in consultation with the cities of Kingston and Bayside and partners will introduce new freight management practices and assets to Cheltenham, such as parcel lockers, cargo bikes and small electric vehicle delivery vans to reduce the freight burden on the network and environment.

Infrastructure recommendations to improve freight management in Cheltenham are provided in Section 6.2.



## GENERAL TRAFFIC AND FREIGHT PRINCIPLES

As outlined in Section 6.1.1, a set of guiding principles were established to inform the development of the recommendations that will influence the general traffic and freight experience in Cheltenham. These general traffic and freight principles are provided in Figure 6.11. These general traffic and freight principles align with the transport ambition and goals and provided a framework throughout the development of the infrastructure recommendations to ensure general traffic and freight formed part of the integrated transport network.



#### FIGURE 6.11 GENERAL TRAFFIC AND FREIGHT PRINCIPLES

## STRATEGIC AND LOCAL TRAFFIC CORRIDORS

Strategic general traffic and freight corridors connecting destinations with metropolitan and regional significance and local general traffic corridors moving people around Cheltenham as defined in Section 6.1.1 for the Cheltenham Planning Area are shown in Figure 6.12.

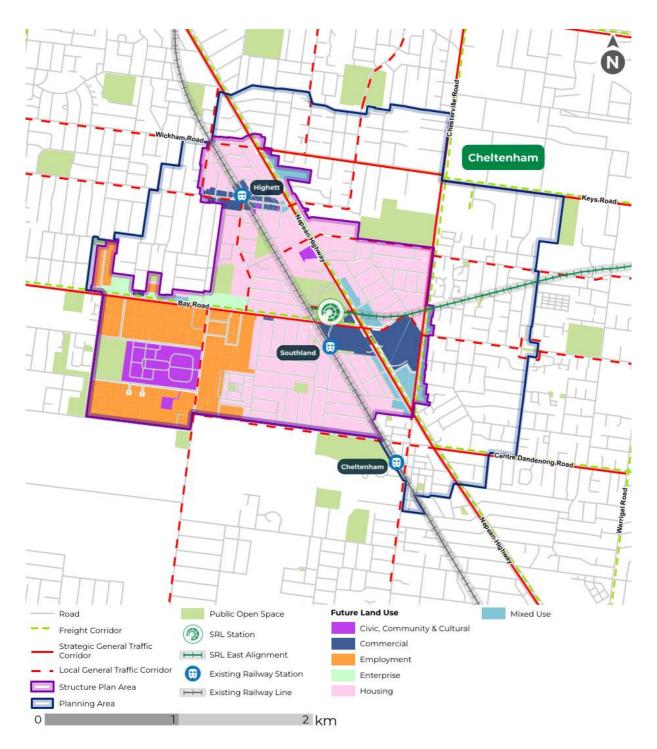


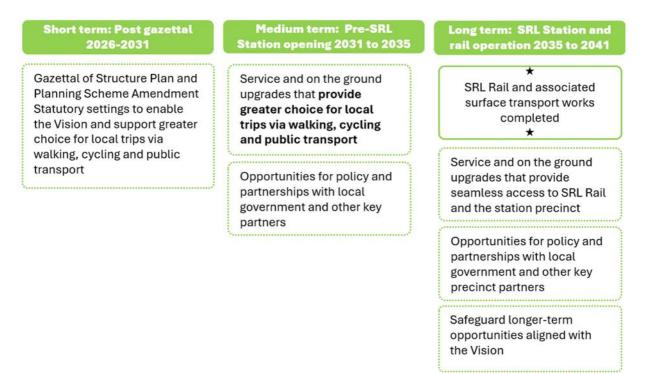
FIGURE 6.12 STRATEGIC TRAFFIC AND LOCAL ACCESS CORRIDORS IN THE CHELTENHAM PLANNING AREA

# 6.2 Infrastructure recommendations

# 6.2.1 OVERVIEW

Infrastructure recommendations have been developed to inform the Structure Plan and help achieve the Cheltenham transport ambition. The sequencing of implementing the recommendations is based on the phases outlined in Figure 6.13 to reflect the anticipated development of the Cheltenham Structure Plan Area.

More details on the timeframes of the delivery of the recommendations are provided in the Cheltenham Structure Plan.



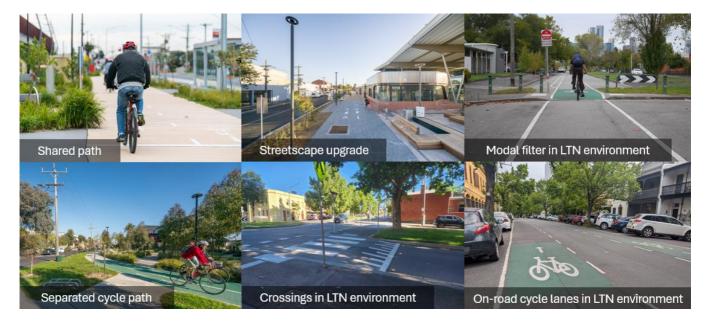
## FIGURE 6.13 PHASES OF DEVELOPMENT AND TRANSPORT PLANNING

The infrastructure recommendations focus on upgrades to strategic and local movement corridors that provide the greatest opportunity to provide improvements to facilitate sustainable transport including walking, cycling, public transport and place-making, while maintaining the strategic function of general traffic and freight corridors. These recommendations can be broadly categorised into four groups with recommendation types, as summarised in Table 6.2.

RECOMMENDATION GROUP	INFRASTRUCTURE RECOMMENDATION TYPES	
Setting the priority network	<ul> <li>New and Upgraded Strategic Corridors that help achieve the Cheltenham Vision with a particular focus on active and public transport upgrades</li> <li>Upgraded local Green Streets, with a particular focus on general active transport upgrades and support for innovative modes.</li> </ul>	
Unlocking the priority network	<ul> <li>New Key Links, focusing on creating active transport permeability and connecting transport corridors</li> <li>Existing streets that require upgrades outside existing road reserves</li> <li>New and upgraded crossings of busy roads.</li> </ul>	
Hubs and interchanges integrated with the network	<ul> <li>Upgrades to public transport interchanges to enhance the services, facilities, and customer experience</li> <li>New bicycle hubs to encourage active transport to the station.</li> </ul>	
Enabling the priority network	<ul> <li>Maintaining strategic traffic and freight corridors</li> <li>Designating low traffic neighbourhoods</li> <li>Managing integrated parking for all modes.</li> </ul>	

#### TABLE 6.2 INFRASTRUCTURE RECOMMENDATION TYPES

Figure 6.14 below identifies examples of potential treatments that could be considered when recommendations are progressed into project design and delivery by a delivery agency. Some treatments are particularly relevant to low traffic neighbourhoods (LTN).



## FIGURE 6.14 EXAMPLES OF POTENTIAL TREATMENTS

The infrastructure recommendations for Cheltenham aim to address the various modal challenges identified across the Structure Plan Area while adhering to the modal principles proposed in this report to ensure the movement network continues to cater for the demand of Cheltenham as it evolves. While responding to some mode-specific challenges, the recommendations intend to facilitate an integrated approach to encouraging a mode shift towards public and active transport while maintaining capacity and efficiency for general traffic, particularly on the main roads through Cheltenham.

The infrastructure recommendations for the Cheltenham Structure Plan Area are provided in the following sections.



# 6.2.2 SETTING THE PRIORITY NETWORK

In setting the priority movement network, identifying specific Upgraded Strategic Corridors and Green Streets is important to providing a network of appropriate and integrated connections through and within Cheltenham to support the transport ambition. The general nature of Upgraded Strategic Corridors and Green Streets are described in Table 6.3.

# TABLE 6.3UPGRADED STRATEGIC CORRIDORS AND GREEN STREET RECOMMENDATION<br/>DESCRIPTIONS (SOURCE: SRLA 2024)

RECOMMENDATION TYPE RECOMMENDATION TYPE DESCRIPTION	
Upgraded Strategic Corridors are street corridors that require improvements to achieve the transport corridors corridors and streetscaping, or an upgrupping public transport corridor with enhanced priority. Each Upgraded Strategic Corridor is described by associated infrastructure recommendation that outlines the significant changes to the street cross section and/or the adjacent land uses.	
Green Streets	Green Streets are a collective network of street corridors that are proposed for upgraded pedestrian and cycling connectivity, improved access to important local destinations, and an enhanced tree canopy. The recommended upgrades to Green Streets are high-level, focussing on street typologies rather than unique cross-sections. As such, one infrastructure recommendation covers the upgraded network of Green Streets across Cheltenham.

The identified recommendations for Cheltenham intended to set the priority movement network are detailed in Table 6.4 with the identified corridors and streets in Cheltenham shown in Figure 6.15.



#### TABLE 6.4 INFRASTRUCTURE RECOMMENDATIONS - SETTING THE PRIORITY NETWORK

REF	SRL EAST RAIL PROJECT APPROVED SCOPE	
1	Deliver a high quality station interchange Deliver a new world class, integrated station interchange and Activity Centre core that prioritises walking, bike and public transport connectivity.	
REF	RECOMMENDATION	STRATEGIC JUSTIFICATION
2	Enable balanced priority for all transport modes on Nepean Highway Enable enhanced priority for buses, pedestrians and bike users on Nepean Highway, while improving place, amenity and streetscapes. Maintain traffic functionality. Plan for rapid and frequent bus services with premium bus stop	Nepean Highway isa strategic general traffic and freight corridor and forms an important part of the strategic bus network in Cheltenham. Whilst functionality for these modes must be maintained, proposed walking and public realm improvements will address existing challenges by:
		Providing a higher level of safety for pedestrian and other vulnerable road users
	infrastructure.	<ul> <li>Improving the amenity for pedestrians along and across the corridor and maintaining the connection to the precinct core and public transport hub</li> </ul>
		<ul> <li>Improving bus stop infrastructure and amenity and ensuring bus service reliability and performance is maintained.</li> </ul>
		Upgrades along Nepean Highway and service roads will respond to identified modal principles including to:
		• Allow walking corridors to be supported by an inviting public realm, seating, lighting, and trees
		Provide quality, comfortable and direct active transport networks coupled with high frequency, direct and reliable public transport
		Provide priority for buses along their alignment to provide users with predictable journey times
		<ul> <li>Provide roads at all bus stops that are easy to access for pedestrians of all ages, abilities and genders</li> </ul>
		Reduce conflict between vehicles and people walking and cycling.



3	Enable balanced priority for all transport modes on Bay Road Enable enhanced priority for buses, pedestrians and bike users on Bay Road, while improving place, amenity and streetscapes. Plan for faster, more frequent bus services with premium bus stop infrastructure.	Bay Road forms an important part of the strategic bus network and is a strategic general traffic and freight corridor. Whilst functionality for traffic and freight needs to be considered with a balanced approach, proposed bus infrastructure and service, walking and public realm improvements will address existing challenges by:		
		Providing a higher level of safety for pedestrian and other vulnerable street users		
	Note: upgrades to Bay Road between the Frankston line and Nepean Highway are to be delivered as part of the SRL East Rail Project.	Improving the amenity for pedestrians along the corridor and maintaining the connection to the precinct core and public transport hub		
		Upgrading bus stop infrastructure and amenity and ensuring bus service frequency, reliability     and performance is improved.		
		Upgrades along Bay Road will respond to identified modal principles including to:		
		Allow walking corridors to be supported by an inviting public realm, seating, lighting, and trees		
		<ul> <li>Provide quality, comfortable and direct active transport networks coupled with high frequency, direct and reliable public transport</li> </ul>		
		• Provide priority for buses along their alignment to provide users with predictable journey times		
		<ul> <li>Provide roads at all bus stops that are easy to access for pedestrians of all ages, abilities and genders</li> </ul>		
		Reduce conflict between vehicles and people walking and cycling.		
4	Enable Frankston Line Off-road Trail Enable a new north-south active transport spine through the heart of Cheltenham, connecting Highett, Southland and Cheltenham centres.	The Frankston Line Off-road Trail provides a strategic north south walking and cycling corridor that provides convenient access to the precinct core as well as a leisure trail through Cheltenham. The Frankston Line Off-road Trail will address challenges by:		
		Completing a high quality continuous active transport link through Cheltenham		
		<ul> <li>Providing a higher level of safety and amenity for pedestrians and cyclists accessing and along Frankston Line Off-road Trail.</li> </ul>		
		<ul> <li>Increase access, priority and amenity for pedestrians, cyclists and micromobility users to key destinations.</li> </ul>		
		Improving active transport conditions along the Frankston Line Off-road Trail also responds to identified walking and cycling principles including:		
		• Walking corridors be supported by an inviting public realm, seating, lighting, and trees		
		Provide access to primary walking destinations		
		Reduce conflict between pedestrians and cyclists and other micromobility		
		• Improve the amenity for pedestrians along the corridor and maintaining the connection to the precinct core and public transport hub.		

5	Enable a new east-west active transport spine	East west active transport corridors are currently limited in Cheltenham. Providing an additional link
	Enable a new east-west active transport spine, stitching together communities currently divided by the Frankston line and Nepean Highway and improving access to the Highett Reserve, Moorabbin Magistrates Court and Sir William Fry Reserve.	that connects key destinations across the neighbourhoods either side of the Frankston line and Nepean Highway will address challenges by:
		Removing existing barriers to walking and cycling connectivity through Cheltenham
		Prioritising pedestrian and cycling movements and reducing conflict with vehicular traffic within the precinct
		• Increasing access, safety, priority and amenity for pedestrians, cyclists and micromobility users to key residential and leisure destinations.
		Providing a new east west active transport spine also responds to identified walking and cycling principles including to:
		• Walking corridors be supported by an inviting public realm, seating, lighting, and trees
		Provide access to primary walking destinations
		Reduce conflict between pedestrians and cyclists and other micromobility
		• Facilitate the provision of local cycling corridors within 200m of 95% of properties.
6	Enable a people-focused Highett Road Enable enhanced priority for pedestrians and bike users on Highett Road, while improving place, amenity and streetscapes.	Highett Road is an activity centre within the northern neighbourhoods of Cheltenham and provides active and public transport access to Highett Station. Enabling upgrades to provide a people focused Highett Road will address challenges by:
		• Providing a safer and more accessible active transport corridor through Highett activity centre
		<ul> <li>Improving the amenity for pedestrians along the corridor and maintaining the connection to Highett Station.</li> </ul>
		Enabling a people focused Highett Road also responds to identified walking and cycling principles including to:
		Provide access to primary walking destinations
		Limit the impact of cars and service vehicles on high-activity and high-value places
		• Walking corridors be supported by an inviting public realm, seating, lighting, and trees
		• Facilitate the provision of local cycling corridors within 200m of 95% of properties.



7	Enable a network of local Green Streets 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.	<ul> <li>A network of Green Streets consistent with recommendations in the SRL East Structure Plan - Urban Design Report - Cheltenham will facilitate a low traffic environment with a higher ability to cater for sustainable transport modes. The provision of Green Streets will address existing challenges by:</li> <li>Improving public amenity to encourage people to walk and cycle the shorter distance trips including to the strategic corridors within Cheltenham</li> <li>Discouraging general traffic along these streets, contributing to the low traffic neighbourhoods within Cheltenham</li> <li>Improving local bus stop amenity to be consistent throughout Cheltenham.</li> <li>A network of Green Streets will respond to identified active and public transport modal principles including to:</li> <li>Reduce conflict between vehicles and people walking and cycling</li> <li>Allow walking corridors to be supported by an inviting public realm, seating, lighting, and trees</li> <li>Allow street space to respond to changes in use and community needs</li> <li>Facilitate the provision of local cycling corridors within 200 m of 95% of properties</li> <li>Facilitate the provision of a local public transport stop within 400 m or strategic public transport stop or interchange within 800 m of 95% of properties.</li> </ul>
8	Safeguard aspirational modal priorities as per the Movement and Place classifications	Movement and Place classifications have informed the development of the modal strategic corridors, Green Streets and Strategic Corridors informing a range of the Recommendations in this report. The classifications will also inform future transport assessments and design options as the precinct develops.



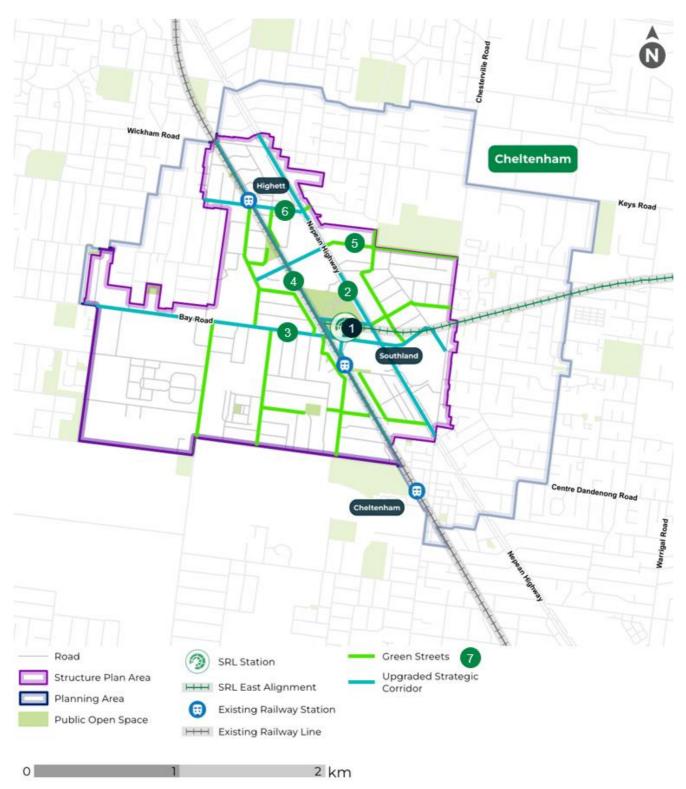


FIGURE 6.15 INFRASTRUCTURE RECOMMENDATIONS - SETTING THE PRIORITY NETWORK

#### 6.2.3 UNLOCKING THE PRIORITY NETWORK

Connectivity through and within Cheltenham is generally hindered by large urban blocks and major arterial roads. The type of recommendations that aim to address these challenges include the provision of Key Links, upgrading existing roads beyond the existing road reserve, and provision of new and upgraded crossings to enhance active transport connectivity.

#### **KEY LINKS**

The increased permeability enabled by Key Links helps to improve the attractiveness of walking by reducing travel times and creating low-stress active transport routes. They also improve the place and amenity value of existing routes. Key Links can be implemented in multiple ways including:

- Fixed Key Link specific alignment across identified parcels of land requiring access to be created during land development
- Flexible Key Link the specific location of the Key Link is flexible and multiple parallel options may be considered. A wider area highlighting the need for increased permeability has been identified.

There are three types of Key Links varied by their importance (critical, important and local). There are only Important and Local Key Links identified in Cheltenham, which can be summarised as:

- Critical Key Links are considered essential connections to achieving the Vision for Cheltenham
- Important Key Links provide connection to or between strategic transport corridors
- Local Key Links aim to improve local active transport connections / permeability and place activation.

#### NEW AND UPGRADED PEDESTRIAN AND CYCLE CROSSINGS

Improvements to walking and cycling crossings including new and upgraded intersections and crossings across major arterial roads such as Nepean Highway, Bay Road and Wickham Road improve priority for active transport users in line with demand, reducing crossing delay. It can also help reduce the frequency of cyclists needing to dismount to cross the road.

Where there is a strong active transport desire line but no crossings across a major road, new crossings in the form of pedestrian-operated signals, cyclist-operated signals, non-signalised crossings, or signalised intersections have been identified.

Similarly, some existing intersections and/or crossings require upgrades to improve active transport connectivity where there is a strong desire line. The upgrades may include minor relocations, public transport integration, improved safety through painted markings or raised wombat crossings, or provision of bicycle lanterns.

The identified recommendations for Cheltenham intended to unlock the priority movement network are detailed in Table 6.5, with the identified links and intersections in Cheltenham shown in Figure 6.16.



#### TABLE 6.5 INFRASTRUCTURE RECOMMENDATIONS - UNLOCKING THE PRIORITY NETWORK

REF	SRL EAST RAIL PROJECT APPROVED SCOPE	
1A	<b>Critical – Key Link:</b> Deliver a new east-west service road within the pedestrian core connecting Enright Street and Sir William Fry Reserve to the new north-south active transport spine along the Frankston Line.	
4A	<b>Critical – Key Link:</b> Enable delivery of the new north-south active transport spine by connecting the SRL station and Sir William Fry Reserve to communities south of Bay Road via a new bridge over Bay Road. <i>Connected to recommendations 4B, 4C and 4D</i>	
REF	RECOMMENDATION	STRATEGIC JUSTIFICATION
4B	<b>Critical – Key Link:</b> Enable delivery of the new north-south active transport spine by extending walking and bike paths within the pedestrian core through Sir William Fry Reserve and the Highett Gasworks development. <i>Connected to recommendations 4, 4A, 4C and 4D</i>	With recommendations 4A, 4C, and 4D, the provision of this critical link adjacent to the MMRN rail line through Sir William Fry Reserve and the Highett Gasworks development will enable the completion of a new north south active transport spine, with the justification detailed in Recommendation 4.
4C	Critical – Key Link: Deliver a portion of the new north-south active transport spine via the Highett and Wickham Road level crossing removal project. Connected to recommendations 4, 4A, 4B and 4D	With recommendations 4A, 4B, and 4D, the provision of this critical link as part of the Highett and Wickham Road level crossing removal will enable the completion of a new north south active transport spine, with the justification detailed in Recommendation 4.
4D	<b>Critical – Key Link:</b> Enable delivery of the new north-south active transport spine by extending walking and bike paths within the pedestrian core to the shared user path delivered as part of the Park Road level crossing removal project.	With recommendations 4A, 4B, and 4C, the provision of this critical link adjacent to the Frankston rail line extending north from the completed Park Road level crossing removal to the precinct core will enable the completion of a new north south active transport spine, with the justification detailed in Recommendation 4.
	Connected to recommendations 4, 4A, 4B and 4C	
9	<b>Important – Key Links:</b> Deliver the tools for the responsible authority to facilitate landholder-delivery of Important links. Refer to Figure 6.16 for Important links (new links and enhanced corridors).	The provision of key links at appropriate locations are primarily intended to increase permeability throughout Cheltenham for pedestrians and cyclists. Providing these <b>Important key links</b> will help to address existing challenges by:
	Connected to recommendations 5 and 7	<ul> <li>Providing more direct access between key destinations or transport corridors for pedestrians and cyclists through larger urban blocks where there is a higher pedestrian or cycling modal priority.</li> </ul>
		Contributing to a better amenity for pedestrians and cyclists
		Widening the walkable catchments to public transport nodes and hubs.
		The provision of Important key links will respond to identified modal principles including to:
		Improve access to primary walking destinations
		Allow walking corridors to be supported by an inviting public realm, seating, lighting, and trees
		Reduce conflict between vehicles and people walking and cycling
		Facilitate the provision of local cycling corridors within 200 m of 95% of properties
		<ul> <li>Facilitate the provision of a local public transport stop within 400 m or strategic public transport stop or interchange within 800 m of 95% of properties.</li> </ul>



10	<b>Local – Key Links:</b> Deliver the tools for the responsible authority to investigate landholder-delivery of Local links. Refer to Figure 6.16 for Local Links (new links and enhanced corridors).	<b>Local key links</b> provide a similar function and benefit to the Important key links outlined above albeit at a local level. They may not have the strategic modal priority or demand, however they will address local gaps through the larger urban blocks and facilitate local urban realm improvements and linking open spaces throughout Cheltenham.
		The provision of <b>Local key links</b> will respond to the same identified modal principle as the Important key links above.
11	Facilitate improved walking and cycling crossings of Nepean Highway, Bay Road, Highett Road and Wickham Road. Refer to map for new and upgraded crossings. Note, Nepean Highway and Bay Road crossing upgrades within the	There are two key arterial roads (Nepean Highway and Bay Road) and two local roads (Highett Road and Wichkam Road) through the Cheltenham Structure Plan Area that provide a high level of strategic access to, from and through Cheltenham. Providing new or improved crossing facilities at intersections on these corridors will help address existing challenges by:
	pedestrian core are to be delivered by SRL East Rail Project approved scope.	Reducing dwell times at crossing points on the arterial roads and hence journey times along pedestrian     and cycling corridors
		<ul> <li>Providing safer pedestrian and cycle access across the busy arterial roads, with improved crossing infrastructure including cycle lanterns</li> </ul>
		<ul> <li>Increasing the walkable and cycle catchments to public transport with more direct and faster access along key active transport corridors.</li> </ul>
		New and improved crossing infrastructure will respond to identified modal principles including to:
		Providie safe and convenient crossing locations at intersections and key destinations
		Improve access to primary walking destinations
		• Prioritise cyclists at intersections and increased physical separation from pedestrians and traffic
		Reduce conflict between vehicles and people walking and cycling
		• Provide roads at all bus stops that are easy to access for pedestrians of all ages, abilities and genders.



FIGURE 6.16 INFRASTRUCTURE RECOMMENDATIONS - UNLOCKING THE PRIORITY NETWORK

Note: the triangle symbolises that links through significant land holding to be discussed with the landowner.



#### 6.2.4 INTEGRATED INTERCHANGES AND PUBLIC TRANSPORT

Improvements to public transport interchanges provide better accessibility of the public transport network.

In Cheltenham, public transport interchange improvements are the responsibility of the Victorian Government rather than precinct planning These improvements include:

- Investigating upgrades to the existing Southland Station to provide a direct interchange with the SRL station
- Planning for upgrades to the Cheltenham bus interchange and improvements to bus stop infrastructure
- Investigating additional bus priority corridors to support future demand.

Further recommendations that fall under the responsibility of SRL East or the precinct planning include:

- Providing a new bus interchange on the northern side of Bay Road at the SRL station
- New bicycle hubs are designed to provide users with sustainable transport mode choices for various journey types throughout Cheltenham.

The identified recommendations for Cheltenham intended to integrate hubs and interchanges into the movement network are detailed in Table 6.6, with the identified locations in Cheltenham shown in Figure 6.17.



#### TABLE 6.6 INFRASTRUCTURE RECOMMENDATIONS - HUBS AND INTERCHANGES INTEGRATED WITH THE NETWORK

REF	SRL EAST RAIL PROJECT APPROVED SCOPE	
12	Deliver a new bus interchange Deliver a new bus interchange north of Bay Road at the SRL station. <i>Connected to recommendations 1 and 3</i>	
13	Deliver a high capacity bicycle parking hub at the SRL station Provide secure parking for 320 bicycles incorporated into the station building to provide convenient interchange with SRL, the Frankston Line and bus services. Future proof for the bike hub to double in capacity when the demand arises. Connected to recommendation 1	
REF	RECOMMENDATION (OTHER STATE GOVERNMENT AGENCY)	STRATEGIC JUSTIFICATION
14	Investigate upgrades for train station interchange Investigate upgrades to the existing Cheltenham station including providing a direct interchange with the SRL station and improved access to the west of the Frankston Line.	The very close proximity of the existing Southland Station to the SRL station provides a good opportunity to provide an upgraded train interchange, with direct pedestrian connectivity between the stations. Upgrades to the existing station and the provision of a direct interchange will help to address existing challenges by:
		• Prioritising pedestrian safety, amenity, wayfinding, and DDA compliance at and within the immediate vicinity of the existing Southland Station
		• Facilitating efficient pedestrian access between the existing Southland Station, and the new SRL station, including the new bus interchange.
		This recommendation also responds to identified modal principles including to:
		Provide clear connections for pedestrians travelling between modes
		Reduce conflict between pedestrians and cyclists and other micromobility.
15	Investigate bus interchange operations Investigate further ways to optimise bus operations including reviewing the future role of the Southland bus interchange.	The existing Southland bus interchange will continue to play a key role in bus connectivity and operation within Cheltenham. The addition of a bus interchange at the SRL East station will provide a good opportunity to review the operation and upgrade the Southland bus interchange. Upgrades to the bus interchange will help address existing challenges by:
		Improving the existing bus interchange waiting areas with better amenity and facilities
		Prioritising pedestrian safety, wayfinding, and DDA compliance at Southland bus interchange
		<ul> <li>Facilitating more efficient pedestrian access between Southland bus interchange and Southland station and the SRL station including the new bus interchange.</li> </ul>
		This recommendation also responds to identified modal principles including to:
		Provide clear connections for pedestrians travelling between modes
		Provide public transport service levels that unlock development potential.



16	Plan for a more useable bus network Plan for the upgrade of bus stop infrastructure, such as reviewing bus stop locations, provision of shelters, hardstands, real time information and wayfinding to provide a quality bus network throughout Cheltenham	<ul> <li>Sections of Cheltenham are well serviced by the current bus network. Upgrading the bus stop infrastructure to provide a high and consistent user experience will help to address existing challenges by:</li> <li>Improving the existing bus stop waiting areas to prioritising pedestrian safety, DDA compliance, and better amenity</li> <li>Potentially improving accessibility through the review of bus stop locations and providing better wayfinding towards and at bus stops.</li> <li>This recommendation also responds to identified modal principles including to:</li> <li>Reduce conflict between vehicles and people walking and cycling</li> <li>Facilitate the provision of a local public transport stop within 400 m of 95% of properties</li> <li>Provide public transport service levels that unlock development potential.</li> </ul>
17	Investigate future bus priority Investigate the need for future additional bus priority corridors as Cheltenham evolves.	<ul> <li>Ongoing reviews of the bus network will help to address challenges by:</li> <li>Improving service reliability and performance on key corridors as demand increases</li> <li>Identifying potential service efficiency issues with all services through the Cheltenham Structure Plan Area stopping via the bus interchange.</li> <li>This recommendation also responds to identified modal principles including to:</li> <li>Provide priority for buses along their alignment to provide users with predictable journey times</li> <li>Provide public transport service levels that unlock development potential.</li> </ul>





FIGURE 6.17 RECOMMENDATIONS - HUBS AND INTERCHANGES INTEGRATED WITH THE NETWORK

#### 6.2.5 ENABLING PRIORITY MOVEMENT WHILE PROTECTING LOCAL ACCESS

The focus of recommendations which enable the priority network include maintaining existing strategic traffic corridors to allow other corridors to cater for local, more sustainable modes of transport, implementing changes to parking, and providing low-traffic neighbourhoods.

Nepean Highway and Chesterville Road are important traffic corridors that support key bus, general traffic and freight movements through Cheltenham that will be maintained.

Sustainable modes of travels will be prioritised on corridors such as local streets. This is further supported by designated low-traffic neighbourhoods in Cheltenham. Low-traffic neighbourhoods generally refer to a residential area usually within a boundary of arterial corridors where traffic management measures are implemented to reduce general traffic movements, particularly through-traffic. These low-traffic neighbourhoods are located in areas where collector roads and local streets are concentrated. Low-traffic neighbourhoods prioritise the use of sustainable modes of transport including walking, cycling and public transport in a safer low-speed environment where local car access is maintained.

Infrastructure recommendations have been identified and aim to reduce private vehicle trips through the precinct core such as by encouraging car park access via alternative routes off major arterial roads where higher general traffic movements are supported.

The identified recommendations for Cheltenham intended to unlock the priority movement network are detailed in Table 6.7 and shown in Figure 6.18.



REF	RECOMMENDATION	STRATEGIC JUSTIFICATION
18	Investigate access to Southland Shopping Centre Investigate simplified access to Southland Shopping Centre for cars and service vehicles to unlock improvements for pedestrians and streetscapes. Connected to recommendation 1	<ul> <li>Nepean Highway, Bay Road, Chesterville Road, and Karen Street currently provide multiple access points to Westfield Southland Shopping Centre. Simplified vehicle access to the shopping centre will address existing challenges by:</li> <li>Improving the amenity for pedestrians along the corridors that interface with the shopping centre</li> <li>Improving efficiency for general traffic and service vehicles accessing the shopping centre.</li> <li>Simplifying access to Southland will respond to identified modal principles including to:</li> <li>Reduce conflict between vehicles and people walking and cycling</li> <li>Allow street space to respond to changes in use and community needs</li> <li>Limit the impact of cars and service vehicles on high-activity and high-value places.</li> </ul>
19	Maintain major road functionality Maintain the strategic bus, traffic and freight function of Nepean Highway and Chesterville Road to enable transformation of local streets within Cheltenham.	<ul> <li>The strategic road network allows for a significant number of vehicles to access and pass through Cheltenham. Maintaining the strategic function of these roads will help address identified challenges by:</li> <li>Keeping strategic traffic, including freight vehicles, off the local roads within Cheltenham</li> <li>Maintaining the ability to provide future bus priority measures to continue service reliability.</li> <li>Maintaining major road functionality will respond to identified modal principles including to:</li> <li>Provide priority for buses along their alignment to provide users with predictable journey times</li> <li>Provide for vehicle movements through the SRL East Structure Plan Areas</li> <li>Limit the impact of cars and service vehicles on high-activity and high-value places.</li> </ul>
20	Facilitate low-traffic neighbourhoodsFacilitate low-traffic neighbourhoods that reduce rat running, improve safety, and make streets a quieter and more enjoyable environment for walking and chatting with neighbours.Low-traffic neighbourhoods to maintain the role of collector roads.	<ul> <li>Low traffic neighbourhoods create an environment whereby the impacts of vehicle traffic are minimised, with a higher ability to cater for sustainable transport modes. The provision of low traffic neighbourhoods in Cheltenham will address existing challenges by:</li> <li>Maintain local vehicle access on these streets, while considering safer vehicle speeds to improve safety and amenity for local walking and cycling trips</li> <li>Assist in the management of on-street parking around key destinations including commuter parking during busy periods. The provision for low traffic neighbourhoods will respond to identified modal principles including to:</li> <li>Reduce conflict between vehicles and people walking and cycling</li> <li>Allow street space to respond to changes in use and community needs</li> <li>Facilitate the provision of local cycling corridors within 200m of 95% of properties.</li> </ul>
21	Support implementation of smart transport network Support implementation of smart network improvements on arterial roads to increase network resilience and facilitate diversion of vehicles to arterial roads with available capacity.	<ul> <li>Transport infrastructure and traffic management within Cheltenham will be supported by implementing smart network improvements in order to get the most benefit. Smart transport network improvements will help address identified challenges by:</li> <li>Ensuring traffic is diverted via the appropriate routes to key destinations, including car parking within and around the precinct core</li> <li>Minimising traffic congestion on both the strategic and local road network within Cheltenham.</li> </ul>

#### TABLE 6.7 INFRASTRUCTURE RECOMMENDATIONS - ENABLING THE PRIORITY NETWORK



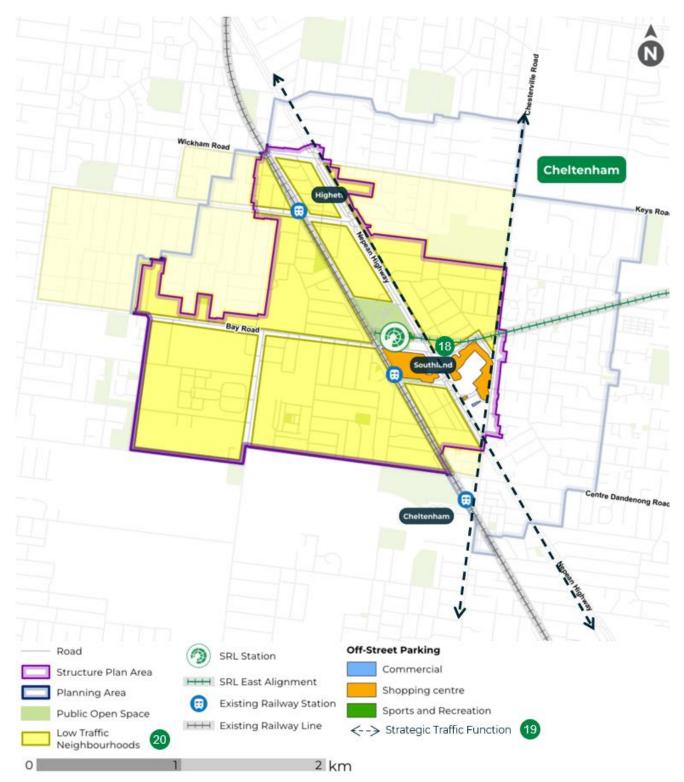


FIGURE 6.18 INFRASTRUCTURE RECOMMENDATIONS - ENABLING THE PRIORITY NETWORK

# 7 Non-infrastructure recommendations

This section sets out non-infrastructure tools and recommendations to help achieve the traffic and transport ambitions for the Cheltenham Structure Plan Area.

The recommendations may be incorporated as an amendment as appropriate to the Kingston and Bayside planning schemes or may simply be a supporting opportunity. The non-infrastructure recommendations may be identified as mechanisms in their own right and also support the infrastructure recommendations to encourage a mode shift to active and public transport modes for local trips to, from and within Cheltenham.

A Precinct Parking Plan was developed alongside this report to inform recommendations including car parking rates and other management tools, and bicycle and micromobility parking rates. The SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham provides an integrated parking response for the Cheltenham Structure Plan Area and is attached as Appendix A to this report.

A more efficient and sustainable use of the kerbside will be important as activity increases within Cheltenham. Recommendations are identified to guide the management of kerbside activities, property access, waste management, last-mile freight deliveries, and the development of a Kerbside Management Framework to facilitate better use of the kerbside.

Additional recommendations are identified, including well-established initiatives such as Green Travel Plans and car share schemes, and innovative approaches such as mobility hubs are explored.

### 7.1 Integrated parking

## A better paradigm for parking that is smarter and more efficient across all modes towards a more sustainable precinct.

Parking movements are required at the start and end of every journey for a range of travel modes including bikes, micromobility, and cars. The common parking types are shown in Figure 7.1.





FIGURE 7.1 EXAMPLES OF PARKING

This section sets out guiding principles for parking and identifies tools to manage integrated parking in Cheltenham. These tools also aim to promote active and sustainable transport choices in the Structure Plan Area.

#### 7.1.1 INTEGRATED PARKING PRINCIPLES

A series of guiding principles have been established to inform the development of the integrated parking experience in the SRL East Structure Plan Areas. These integrated parking principles are shown in Figure 7.2.

These parking principles align with the transport ambition and goals and provided a framework throughout the development of the infrastructure recommendations to ensure walking formed part of the integrated transport network.

A better paradigm for parking that is smarter and more efficient across all modes working towards a more sustainable precinct				
The SRL East	Structure Plan Areas will	Parking infrastructure		
	<b>minimise</b> car parking, promoting a <b>'car</b> <b>light' environment</b> to rebalance mode share toward public transport and active	is designed to support future needs of customers with consideration of emerging trends and growth		
	travel modes employ smart and efficient parking to boost economic activity and housing affordability encourage availability of public consolidated car parks, supporting car share to minimise private vehicle use	is minimised in high-value space areas to support development intensity		
A A A A		will prioritise access for specific user groups such as people with a disability		
		will provide easy and intuitive access by providing adequate wayfinding and informing people of their trip choices.		
		will maximise productivity of space through flexibility of use and appropriate parking controls		

#### FIGURE 7.2 INTEGRATED PARKING PRINCIPLES



#### 7.1.2 CAR PARKING MANAGEMENT TOOLS

The SRL East Structure Plan – Transport Technical Report – Cheltenham- – Appendix A Precinct Parking Plan – Cheltenham (Precinct Parking Plan – Cheltenham) discusses car parking management tools to support the development of the Structure Plan Area and help achieve the transport goals and ambition for Cheltenham.

Table 7.1 provides an overview of the recommended car parking management tools proposed in the Precinct Parking Plan – Cheltenham.

CAR PARKING MANAGEMENT TOOLS	DESCRIPTION	PRECINCT PARKING PLAN REFERENCE
Development parking controls – maximum parking rates	The Precinct Parking Plan – Cheltenham proposes maximum parking rates for land uses, including specific nominated rates for residential (multi-dwelling developments), office and retail land uses. These maximum parking rates are based on a review of policy, standards, guidelines empirical data and examples of car parking management in other locations.	Section 5.1 of the Precinct Parking Plan – Cheltenham
On-street parking management	On-street parking management techniques include parking restrictions, paid parking schemes and monitoring / enforcement tailored to support various goals such as pick-up / drop-off areas, short to long-term visitor parking and residential / commuter needs, while considering pedestrian safety and place-making activities through guidance to local governments.	Section 5.4 of the Precinct Parking Plan – Cheltenham
Consolidated parking	Consolidated parking is shared parking that is generally provided off-site from the end destination and can reduce the total amount of parking provided in a precinct by allowing the same space to be used by different people at different times.	Section 5.5 of the Precinct Parking Plan – Cheltenham
Unbundled parking (decoupled parking)	Unbundled parking separates parking costs from development costs, allowing occupants to pay only for the parking they need, which may change over time, promoting efficiency and fairness.	Section 5.6 of the Precinct Parking Plan – Cheltenham
Repurposing car parking	Designing parking spaces with flexibility and adaptability in mind, such as with suitable heights and flat floors, enables their adaptation for other purposes, optimising space utilisation.	Section 5.8 of the Precinct Parking Plan – Cheltenham

TABLE 7.1 CAR PARKING MANAGEMENT TOOLS PROPOSED IN THE PRECINCT PARKING PLAN

#### 7.1.3 PARKING FOR CYCLING AND MICROMOBILITY

The Precinct Parking Plan – Cheltenham also identifies the need for appropriate provision and range of bicycle and micromobility parking to improve the experience of cycling and micromobility trips, encouraging an increase to mode share for cycling and micromobility.

Some cycling and micromobility trips also require end-of-trip facilities, allowing users to change and shower, while offering security and weather protection for cyclists and their devices.

Section 5.2 of the Precinct Parking Plan – Cheltenham discusses the recommended minimum bicycle parking rates and recommended bicycle parking supporting facilities respectively.

### 7.2 Better use of kerbside

The kerbside is the space between the road carriageway and footpath as shown in Figure 7.3. The kerbside can be a contested space with various competing uses. These competing uses include priority lanes for buses or bikes, providing driveway access to properties and businesses, and providing pick-up drop/off space for people and goods. The kerbside also supports place making activities such as outdoor dining and landscaping such as trees to provide canopy cover.





#### FIGURE 7.3 KERBSIDE SPACE IN THE CONTEXT OF THE STREET CROSS SECTION

The layout of different streets can influence how people travel and influence the attractiveness of a place. Some streets will have a different balance of modes and changes to the public realm, which may require a street's cross section to change. As travel behaviours in Cheltenham shift to using active and public transport, there is the opportunity to change the focus of the kerbside from primarily supporting car trips with parking and property access to a more balanced approach. These changes can range from minor enhancements to more transformative changes similar to those seen in inner Melbourne and some suburban activity centres over the last 30 years where more trees, wider footpaths, safe bike lanes and public transport priority have been implemented alongside growth in central city activity.

Ambitions for a better public realm will require better management of the kerbside space to support features such as improved landscaping, tree canopy coverage and place -making opportunities like outdoor dining. Examples of different kerbside uses are shown in Figure 7.4.



FIGURE 7.4 DIFFERENT KERBSIDE USES

#### 7.2.1 KERBSIDE MANAGEMENT FRAMEWORK

The Cheltenham Structure Plan provides an opportunity to embrace a more efficient and diverse kerbside. Parking will continue to be provided depending on the street, surrounding properties and street activity. However, other uses such as landscaping, dining, bicycle / shared micromobility parking within mobility hubs or travel lanes may be a better fit in some places. Where parking is an appropriate use, parking controls will be adopted that direct space for different users and support the wider private vehicle parking aims and ambitions.

Applying road user hierarchies and considering place to develop a Kerbside Management Framework is a transparent way of identifying when and where different users of the street have priority in the kerbside. Table 7.2 shows a suggested kerb use hierarchy for different area types include the activity centre, residential area and industrial area. These priorities will need to be further developed and aligned to key street typologies to support different goals and aspirations for Cheltenham.

The cities of Bayside and City of Kingston will be encouraged to develop the Kerbside Management Framework to guide controls and restrictions across streets where proactive management of the kerbside is required.



	ACTIVITY CENTRE	RESIDENTIAL AREA	INDUSTRIAL AREA
Landscaping opportunities	High	High	Medium
Public transport	High	High on bus routes	High on bus routes
Emergency services	Case by case, but if required High	Case by case, but if required High	Case by case, but if required High
Car share	High	High	Medium
Taxi & rideshare	High	Low	Low
Electric vehicle charging	Medium	Medium	Medium
Parklets	High	Medium	Low
Micromobility and bicycle parking	High	Medium	Low
Food deliveries	High	Low	Low
Deliveries	High	Low	High
Accessible	High	Medium	High
Pick up / drop off (PUDO)	High	High around schools and community activity areas	Low
Car parking for residents	Low	Medium	Low
Car parking for local workers	Low	Medium	Medium
Car parking for customers	Medium	Low	Medium
Commuter car parking	Not an acceptable kerb space use	Low	Low
Car parking for construction workers	Case by case	Case by case	Case by case

#### TABLE 7.2 SUGGESTED KERB USE HIERARCHY FOR DIFFERENT AREAS

#### 7.2.2 ACCESS TO PROPERTIES

Providing driveway access to properties is an important function of roads that requires the management of conflicts between vehicles turning into properties and other traffic such as pedestrians and cyclists. This impacts the space that can be used for place-making that can contribute to better people-focused environments.

Better outcomes can be achieved by providing access into new developments away from frontages with high movement or place-making functions (strategic walking and/or cycling corridors) to locations such as rear laneways or reducing or consolidating the number of access points. Minimising vehicle crossovers in strategic locations along Upgraded Strategic Corridors and Green Streets as well as arterial roads where significant increase in land use intensification is proposed can support safer movements and better amenity for pedestrian and cyclists.

A broad set of property access guidelines have been developed based on the M&P classifications and are listed in Table 7.3.

	PROPERTY ACCESS GUIDELINES
General considerations	<ul> <li>Consider the land use and property access requirements, whether primarily residential, commercial, and whether the property is in the Structure Plan Area core, along busy arterial corridors or within surrounding residential areas.</li> <li>All new property development or redevelopment should consider the appropriate statutory and design guidance and specifications set out in:         <ul> <li>Austroads, <i>Guide to Traffic Management Part 5 – Road Management</i></li> <li>Municipal Planning Scheme requirements</li> <li>Australian Standards (AS2890 – Parking Facilities).</li> </ul> </li> </ul>
Properties	<ul> <li>Where access via a laneway to the side or rear of a property is available, provide appropriate space to facilitate on-site car park access, delivery vehicle and waste removal vehicles.</li> </ul>
with multiple street	<ul> <li>Properties with multiple frontages to provide car park access along the frontage that is neither an Upgraded Strategic Corridor nor Green Street, or the lesser M&amp;P classification. Existing access crossovers should be consolidated to provide a single crossover where possible.</li> </ul>
frontages	<ul> <li>Should both property frontages share the same street type such as a Green Street or Upgraded Strategic Corridor, and M&amp;P classifications, consider additional factors including traffic (all modes) volumes, adjacent property characteristics and other relevant factors.</li> </ul>
	<ul> <li>Where the property frontage has a M&amp;P classification of 3 or less and is neither a Green Street nor Upgraded Strategic Corridor, provide a single point of access to the property.</li> </ul>
Properties with single	<ul> <li>Where the property frontage is on a street whereby the M&amp;P classifications for general traffic, public transport, freight and cycling are 3 or less and on an Upgraded Strategic Corridor, provide a single point of access to the property.</li> </ul>
street frontages	• Where the property frontage is on a street whereby the M&P classifications for walking, cycling, and place are 3 or less and on a green street, provide a single point of access to the property.
	<ul> <li>Where the property frontage is on a street whereby the respective M&amp;P classifications are greater than 3, and a Green Street or Upgraded Strategic Corridor, provide a single point of access to the property. Integrate appropriate kerbside/ access management measures to minimise the impact on the street frontage.</li> </ul>

#### TABLE 7.3 BROAD SET OF PROPERTY ACCESS GUIDELINES

#### 7.2.3 WASTE MANAGEMENT

Waste management is an integral part of city life, albeit a 'back of house' function, associated with waste removal.

Large developments often have on-site loading and waste facilities due to the size of land block, scale of the task, type of vehicle and/or the need to store goods on-site due to high shelf turnover.

Some shops with street frontages may lack alternative access and often cannot facilitate larger storage areas and so rely on the local street interface, generally using smaller vehicles.

Residential development has traditionally not included service areas but as density increases the need to facilitate more frequent turnover of residents, family size households and higher waste management means these tasks are less suitable for the kerb space, as shown in Figure 7.5.



FIGURE 7.5 APARTMENT BINS BLOCKING PAVEMENT

#### 7.2.4 LOCAL FREIGHT DELIVERIES

The Victorian Freight Plan 2018–2050, Delivering the Goods predicted the freight movement task for Victoria will increase two to three-fold from 2014 levels by 2050. Since this prediction, as with many aspects of daily life, the COVID pandemic has potentially changed the trajectory of freight growth and potentially the type of freight vehicle, with COVID travel restrictions introducing the benefit of online shopping to new markets. While the need to shop from home has diminished, the benefits of online shopping for customers and retailers means this market continues to grow.

While online retailing has the potential to reduce personal travel and car trips, the overall implications for the road network can be significant as more people need individual freight deliveries more frequently, particularly smaller parcels. It is not uncommon to observe multiple freight-based trips occurring on local streets associated with the delivery of orders and parcels.

There is opportunity in the SRL East Structure Plan Areas to work with developers, local governments, community, and businesses to harness new practices and options for freight to reduce the impact of these trips on the local network by managing freight, so the right vehicle type is used for the right delivery.

The Victorian Freight Plan was developed in consultation with local governments and the freight industry to consider the future of freight in the state. This 'freight future' includes recognition of more personal freight delivery, and opportunities for smaller lighter and more efficient forms of freight delivery, particularly in the last mile first mile space.

The Freight Plan sets out five priorities to support the freight and logistics system to improve how goods are moved to their local, interstate and overseas markets. How the Freight Plan should be reflected in the SRL East structure planning is summarised in Figure 7.6.



#### Victorian Freight Plan 2018-2050



#### **Priorities**

- 1. Manage existing and proposed freight corridors and places in conjunction with urban form changes
- 2. Reduce the impact of congestion on supply chain costs and communities
- 3. Better use of our rail freight assets
- 4. Plan for Victoria's future port capacity
- 5. Stay ahead of the technology curve
- Manage existing and proposed freight corridors and places in conjunction with urban form changes
- Reduce the impact of congestion
   on supply chain costs and
- communitiesWork with local government to
- remove or reduce first and last mile impediments
- Develop more freight friendly solutions for Melbourne's CBD
- Prioritise the use of technology to improve the management of network congestion on the road network

#### Reflections for SRL East Structure Plan Areas

- Management of on-street loading restrictions can improve efficiency of freight
- Traditional CBDs can be problematic for freight movements. There is the opportunity to proactively plan areas for more freight friendly solutions, including development controls and last / first mile freight policies
- Ensuring the local network hierarchy recognises the role of freight and freight corridors where appropriate
- Reducing the climate cost of transportation of freight – supporting increasing use of cargo bicycles and EVs

#### FIGURE 7.6 VICTORIAN FREIGHT PLAN AND HOW THIS CAN BE REFLECTED IN SRL EAST STRUCTURE PLANNING

Managing the 'first and last mile' of freight tasks will be key in ensuring balance between the needs of people and freight in the SRL East Structure Plan Areas. The City of Melbourne and Transport for NSW have both recognised the potential for managing this part of the freight task for network efficiency and improved urban amenity with the former releasing a Last Kilometre Freight Plan<sup>45</sup> and the latter a Last Mile Freight Toolkit.<sup>46</sup>

A Last Mile Freight Plan (LMFP) is recommended for the Cheltenham Structure Plan Area, particularly with smaller parcels and deliveries. The Freight Plan will guide new and existing developments in adopting emerging and more sustainable modes for local deliveries.

The Freight Plan will likely include the use of cargo bikes, smaller electric delivery vehicles, and freight and mobility hubs. This could include community delivery boxes, such as the Australia Post Parcel Lockers shown in Figure 7.7 which are becoming more common and will continue to evolve. These sustainable last mile freight delivery options and parcel lockers can also be integrated into mobility hubs to improve access and reduce unnecessary trips as recipients can collect their parcels during an existing trip. There is also an opportunity to encourage alternative freight modes and approaches that improve convenience and sustainability for the delivery of take-away food and groceries.

<sup>05/</sup>Freight%20and%20Servicing%20Last%20Mile%20Toolkit%20Master%20Document(1)-compressed-1.pdf>



<sup>&</sup>lt;sup>45</sup> City of Melbourne, June 2016, Last Kilometre Freight Plan, <https://www.melbourne.vic.gov.au/sitecollectiondocuments/last-kilometrefreight-plan-june-2016.pdf>

<sup>&</sup>lt;sup>46</sup> Transport for NSW, November 2020, Freight and Servicing Last Mile Toolkit – A guide to planning the urban freight task, <a href="https://www.mysydney.nsw.gov.au/sites/default/files/2023-">https://www.mysydney.nsw.gov.au/sites/default/files/2023-</a>



#### FIGURE 7.7 COMMUNITY DELIVERY BOX EXAMPLE (SOURCE: AUSTRALIA POST PARCEL LOCKER 47)

Other potential Last Mile Freight Plan considerations are summarised in Table 7.4.

#### TABLE 7.4 LAST MILE FREIGHT PLAN CONSIDERATIONS

Potential for consolidating delivery and servicing facilities between different properties	Potential for the role of precinct freight consolidation hubs. Identify redundant space with the potential to support consolidation of delivery tasks. This could range from Freight Consolidation Centres (FCCs) through to community delivery parcel drop off sites that allow multiple personal deliveries in one trip rather than through multiple trips. Integration of freight into mobility hubs.	
Development of a freight journey planner and freight access maps for use by businesses and logistics companies servicing properties		
Development of principles for allowing out of hours deliveries, to reduce freight traffic during peak activity periods and opportunities to use redundant out of hours space	Special loading permit zones and spaces for more efficient and low impact / low emission vehicles	
Encouragement for local businesses to invest in and utilise cargo bikes to manage local delivery tasks	Monitor the use of street loading spaces so that local government can timely respond to overuse and under use of loading spaces	
Stakeholder engagement including potential for the development of precinct freight portals to share and promote more efficient freight options and new and advancing technological options and experiences	Pilot studies to inform businesses of opportunities to change practices and support change	
Identify opportunities to use local traffic management during construction projects to encourage more sustainable freight choices - for example, partial road closures could still allow cargo bikes and other two wheeled vehicle passage	Development of last mile toolkit to assist business, developers, and residents in understanding and implementing more sustainable last mile practices	
Out of hours loading in the street scape when demands for other purpose is minimal (for example, bus lanes or pedestrian areas between midnight and 6am)		

It is recognised that some of the last mile freight initiatives are likely to be new to businesses in Cheltenham. As such, there may be benefits in working with existing business to develop pilot schemes that can trial and/or showcase different approaches to managing last mile freight use.

As the roll out of electric vehicles (EVs) continues it may also be prudent to plan for the potential to provide EV charging associated with loading facilities.

<sup>&</sup>lt;sup>47</sup> https://auspost.com.au/receiving/collection-points/use-a-247-parcel-locker



Finally, it is recognised the period where the densification of Cheltenham and the delivery of the SRL station is likely to result in periods and locations of disruption. Implementing Last Mile Freight Plans may provide a tool that will help SRLA, the cities of Bayside and Kingston and the local community manage deliveries during these periods. This will take advantage of the opportunities these periods produce to do things differently, which may then continue post construction if they are successful.

There is an opportunity to showcase these evolving freight management approaches in Cheltenham, providing a benchmark for managing freight in Melbourne's middle to outer centres.

### 7.3 Supporting travel choices

#### Enabling greater choice for how you would like to get around wherever you are in Cheltenham.

Approaches to supporting travel choices will complement recommendations for all transport modes and parking. Supporting travel choices will contribute to achieving the transport goals and ambitions with an integrated transport approach. These include measures such as Green Travel Plans, car share schemes, mobility hubs, and street layouts that support a greater diversity of travel choices and activity.

#### 7.3.1 GREEN TRAVEL PLANS

A Green Travel Plan sets out ways that occupants or visitors to an existing or new commercial or residential building can adopt more sustainable transport such as walking, cycling, public transport or car-pooling.

Green Travel Plans can be a significant contributor to achieving more sustainable mode share targets. United Kingdom studies cited in a City of Sydney guideline indicate that providing Green Travel Plans can achieve significant reductions in commuter car trips, averaging 18 per cent and as high as 50 per cent.<sup>48</sup> Green Travel Plans are most effective when they include regular monitoring.

Green Travel Plans can be prepared by or on behalf of developers, tenants, owners, body corporate, businesses, education and leisure occupiers and facility / property managers. Green Travel Plans prepared by developers will be passed on to the tenants or other occupants allowing for specific business or property manager incentive commitments to be incorporated to meet the needs of the users. These incentives can range from providing towels and hairdryers as part of end-of-trip facilities, cycle-to-work incentives and supporting walking, cycling and car share groups, through to financial incentives such as travel vouchers, MYKI cards, subsidised bicycle hire, or low-interest rate loans to help purchase equipment or bicycle insurance.<sup>49</sup>

When prepared at the development planning application stage, Green Travel Plans can contribute to evidence for Green Star ratings and/or Built Environment Sustainable Scorecard (BESS) alignment. A well prepared Green Travel Plan can form part of the marketing for new developments to demonstrate to potential occupiers its sustainable access and the need for less parking.

Effective Green Travel Plans include enforcement, regular monitoring and updating to understand the changing gap between aspirational mode share and actual mode share.

The need to require Green Travel Plans is being incorporated into more planning schemes across Victoria. However, the trigger for mandating these travel behaviour tools varies.

<sup>&</sup>lt; https://webarchive.nationalarchives.gov.uk/ukgwa/20101213165120/http://www.dft.gov.uk/pgr/sustainable/travelplans/work/> <sup>49</sup> Examples of incentives in existing Melbourne and international GTPs: La Trobe University Sports Park Partner Precinct GTP; Northumberland Street office development, Collingwood; Barratt and Darwin Green residential development, Cambridge UK



<sup>&</sup>lt;sup>48</sup> UK Department for Transport, March 2008, Essential Guide to Travel Planning,

Using Green Travel Plan requirements and triggers examples from Victoria and NSW as well as internationally, the Green Travel Plan triggers listed in Table 7.5 are recommended to be captured in the Monash and Kingston Planning Scheme by means of an appropriate Schedule to the relevant zone.

USE	GREEN TRAVEL PLAN TRIGGER [1]	EXCEPTIONS
Residential	≥ 10 dwellings or if not known: > 1000 m <sup>2</sup> GFA	-
Office	> 1000 m <sup>2</sup> GFA	-
Retail premises	> 1000 m <sup>2</sup> GFA	-
Education	All	Except for schools where student requirements may make Green Travel Plans irrelevant
Leisure	> 1000 m <sup>2</sup> GFA	Except where movement generated < 50 trips per hour
Industrial	> 5000 m <sup>2</sup> GFA	Except where movement generated < 50 trips per hour
[1] Green Travel Plan development size trigger intended to ensure requirements imposed on developments over a nominated size.		

TABLE 7.5 RECOMMENDED GREEN TRAVEL PLAN TRIGGERS AND APPROACH

For existing major uses in the SRL East Structure Plan Areas, it is recommended that SRLA should work with these land holders to develop or update Green Travel Plans to recognise the increasing accessibility of Cheltenham that will be delivered as part of the SRL works.

#### 7.3.2 CAR SHARE SCHEMES

Car share schemes provide access to shared vehicles, reducing the need for private car ownership optimising the utilisation of space. When integrated with high quality local public transport and active travel options, car share schemes can significantly decrease car ownership and use, with research suggesting that a single car share vehicle can replace 7 to 10 privately owned cars.<sup>50</sup>

Car share scheme spaces should be encouraged in on-street car parking areas and within off-street development sites and supported by the development of car share policies and/or guidelines in consultation with Council and building and strengthening relationships between key stakeholders and car share operators. This is discussed in detail in Section 5.3 of SRL East Structure Plan –Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham.

#### 7.3.3 MOBILITY HUBS

Mobility hubs provide a space designed specifically to offer access to various sustainable transport modes with enhanced facilities that enable integrated travel choices.<sup>51</sup> They provide users with one location for all travel choices and facilitates investment in better facilities rather than choices and facilities spread across an area.

The hubs are often located near community services, co-working places, or an Activity Centre, and are connected to strategic cycling corridors. The hub provides space for mobility, place and logistics functions:

• The mobility function includes the co-location of transport modes, including conventional public transport, e-scooter and bike hire, car share and sustainable private transport modes

<sup>&</sup>lt;sup>51</sup> Collaborative Mobility UK (CoMoUK), 2023, What are mobility hubs?, <https://www.como.org.uk/mobility-hubs/overview-and-benefits>



<sup>&</sup>lt;sup>50</sup> Shaheen, S.A. & Cohen, A.P. (2013), Carsharing and Personal Vehicle Services: Worldwide Market Developments and Emerging Trends, International Journal of Sustainable Transportation, Volume 7, (Issue 1), https://www.researchgate.net/publication/241730570\_Carsharing\_and\_Personal\_Vehicle\_Services\_Worldwide\_Market\_Developments\_and

https://www.researchgate.net/publication/241730570\_Carsharing\_and\_Personal\_Vehicle\_Services\_Worldwide\_Market\_Developments\_and \_Emerging\_Trends

- The place function could include facilities to improve convenience and comfort such as bathrooms, water fountains, shaded areas and vending machines
- The logistics function includes the integration of parcel lockers or micro-delivery centres.

The mobility hub functions and conceptual network are shown in Figure 7.8.

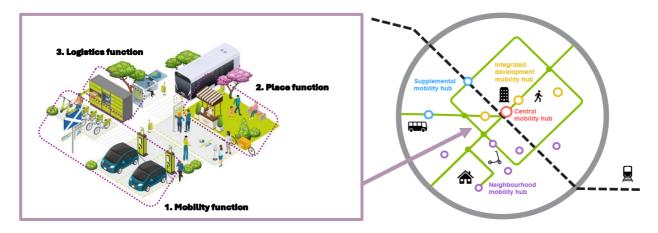


FIGURE 7.8 MOBILITY HUB FUNCTIONS AND CONCEPTUAL NETWORK (SOURCE: COMOUK 52)

The benefits that mobility hubs generate for the wider community include improved access to sustainable transport, especially for first and last mile trips, convenient transfer between transport modes, land use integration, improved public realm, and reduced street clutter. Mobility hubs also provide an opportunity to reduce car parking demand within Cheltenham.

### 7.4 Non-infrastructure recommendations summary

A set of non-infrastructure recommendations to manage parking and provide better active and sustainable transport choices have been developed, along with recommendations to manage kerbside activities and local freight deliveries. A pragmatic approach to car parking is adopted, recognising the growing opportunities and viability other travel options, including bicycle and micromobility, for trips to, from and within Cheltenham.

The full list of non-infrastructure recommendations and opportunities is provided in Table 7.6 and is based on the analysis undertaken for this report and the Precinct Parking Plan for Cheltenham, attached as Appendix A this report. Table 7.6 also identifies where the non-infrastructure recommendations and opportunities strongly support the infrastructure recommendations discussed in Section 6.2.

<sup>&</sup>lt;sup>52</sup> Collaborative Mobility UK (CoMoUK), 2023, What are mobility hubs? <a href="https://www.como.org.uk/mobility-hubs/overview-and-benefits">https://www.como.org.uk/mobility-hubs/overview-and-benefits</a>



REF	NON-INFRASTRUCTURE RECOMMENDATION / OTHER OF	SUPPORTED INFRASTUCTURE RECOMMENDATION(S)	
INTEGRA	TED PARKING		
CTTP 1*	Implement increased minimum bicycle parking and end-of- trip facility requirements to support sustainable modes and reflecting the change in cycling usage within 'living locally' based neighbourhoods and over time.	Recommendation	<ul> <li>Deliver a world class station interchange (Ref. 1)</li> <li>Enable balanced priority for all transport modes on Nepean</li> </ul>
CTTP 2*	Develop public realm cycling and micromobility end-of-trip policy / guidelines.	Opportunity	<ul> <li>Highway (Ref. 2)</li> <li>Enable balanced priority for all transport modes on Bay Road (Ref. 3)</li> <li>Enable Frankston Line Offroad Trail (Ref. 4)</li> <li>Enable a new east-west active transport spine (Ref. 5)</li> <li>Enable a people focused Highett Road (Ref. 6)</li> <li>Enable a network of local Green Streets (Ref. 7)</li> <li>Critical – Key Links (Ref. 1A, 4A, 4B, 4C, 4D)</li> <li>Important – Key Links (Ref. 9)</li> <li>Local – Key Links (Ref. 10)</li> <li>Deliver a high capacity bicycle parking hub at the SRL station (Ref. 13).</li> </ul>
CTTP 3*	Implement maximum development parking controls, limiting new development parking provisions.	Recommendation	
CTTP 4*	Support major landholders to explore reducing existing parking supply and adopting alternative uses for the land as accessibility and density in the Structure Plan Area increase.	Opportunity	
CTTP 5*	Encourage adoption of an unbundled car parking model for on-site car parking provision and management.	Recommendation	<ul> <li>Enable balanced priority for all</li> </ul>
CTTP 6*	Encourage the provision of consolidated car parking options which could be used to manage accessibility changes over time and reduce reliance on on-site parking.	Recommendation	<ul><li>transport modes on Nepean Highway (Ref. 2)</li><li>Enable balanced priority for all</li></ul>
CTTP 7*	Implement adaptable building design requirements for new above-ground car parking facilities that enable their use for other purposes as parking demand reduces over time. Require developers to have an Adaptable Parking Plan	Recommendation	<ul> <li>transport modes on Bay Road (Ref. 3)</li> <li>Facilitate low-traffic neighbourhoods (Ref. 20).</li> </ul>
	which outlines future options for the use of on-site parking.		
CTTP 8*	Encourage Council to further develop and update the on- street parking management policy that supports the significant changes in land use density, diversity and accessibility levels in the Structure Plan Area over time.	Opportunity	
GREEN T	RAVEL PLANS		
CTTP 9	Implement Green Travel Plan requirements for applicable new developments to help guide occupant travel behaviour, including monitoring commitment and program.	Recommendation	<ul> <li>Deliver a world class station interchange (Ref. 1)</li> <li>Enable balanced priority for all</li> </ul>
CTTP 10	Encourage Council to develop an improved Green Travel Plan Framework in the short term to guide and influence travel behaviours of occupants and visitors to new and existing buildings. This may include providing best practice templates, tools and strategies and incorporation of monitoring and review requirements.	Opportunity	<ul> <li>transport modes on Nepean Highway (Ref. 2)</li> <li>Enable balanced priority for all transport modes on Bay Road (Ref. 3)</li> <li>Enable Frankston Line Off-road</li> </ul>
CTTP 11	Support preparation of Green Travel Plans for existing major employers and land holders, including local education	Opportunity	<ul> <li>Trail (Ref. 4)</li> <li>Enable a new east-west active transport spine (Ref. 5)</li> </ul>

#### TABLE 7.6 NON-INFRASTRUCTURE RECOMMENDATIONS



REF	NON-INFRASTRUCTURE RECOMMENDATION / OTHER OF	SUPPORTED INFRASTUCTURE RECOMMENDATION(S)		
	facilities to help influence existing travel behaviours to major destinations as accessibility increases.		<ul> <li>Enable a people focused Highett Road (Ref. 6)</li> <li>Enable a network of local Green Streets (Ref. 7)</li> <li>Critical – Key Links (Ref. 1A, 4A, 4B, 4C, 4D)</li> <li>Important – Key Links (Ref. 9)</li> <li>Local – Key Links (Ref. 10)</li> <li>Deliver a high capacity bicycle parking hub at the SRL station (Ref. 13).</li> </ul>	
CAR SHA	RE SCHEMES			
CTTP 12*	<ul> <li>Encourage Council to develop policy and guidelines for car share schemes in public areas and new developments that include electric vehicle charging facilities, by</li> <li>Facilitating stronger relationships between developers and car share operators</li> <li>Recognising electric vehicle charging for car share schemes in Green Travel Plans</li> <li>Encouraging on-site car share scheme parking with electric vehicle charge points.</li> </ul>	Opportunity	<ul> <li>Facilitate low-traffic neighbourhoods (Ref. 20)</li> </ul>	
MOBILITY	( HUBS			
CTTP 13	Encourage the development of a network of new mobility hubs in strategic locations across the Structure Plan Area.	Recommendation	Deliver a world class station interchange (Ref. 1)	
CTTP 14	<ul> <li>Develop a mobility hub strategy and implementation framework with key stakeholders and partners, considering private and public sites, including:</li> <li>Investigate partnerships with shared micromobility operators and Council and explore potential to undertake trials within the Structure Plan Area</li> <li>Delivery of a central mobility hub with Council and land-owners in the centre of the Structure Plan Area</li> <li>Facilitate or contribute to the provision of integrated development mobility hubs</li> <li>Consultation and delivery of supplementary mobility hubs that can be tied to other public transport interfaces and peripheral parking areas</li> <li>Investigate possible neighbourhood mobility hub land options and partnerships with Council.</li> </ul>	Opportunity	<ul> <li>Enable Frankston Line Off-road Trail (Ref. 4)</li> <li>Enable a new east-west active transport spine (Ref. 5)</li> <li>Enable a people focused Highett Road (Ref. 6)</li> <li>Enable a network of local Green Streets (Ref. 7)</li> <li>Critical – Key Links (Ref. 1A, 4A, 4B, 4C, 4D)</li> <li>Important – Key Links (Ref. 9)</li> <li>Local – Key Links (Ref. 10)</li> <li>Deliver a high capacity bicycle parking hub at the SRL station (Ref. 13).</li> </ul>	
LOCAL F	REIGHT DELIVERIES AND WASTE MANAGEMENT			
CTTP 15	Encourage centralisation and sharing of loading, waste and freight management facilities to reduce the number of access points and kerbside demands during peak community activity periods.	Recommendation		
CTTP 16	Support adoption of alternative freight vehicle and freight delivery models within the Structure Plan Area to reduce vehicle emissions associated with these trips, including development of a Last Mile Freight Plan in association with Council.	Opportunity	<ul> <li>Maintain the strategic road network (Ref. 19)</li> </ul>	
BETTER	USE OF THE KERBSIDE			
CTTP 17	<ul> <li>Encourage Council to develop a suite of policies and plans with Council to manage the function and needs that interface with the kerbside, which may include:</li> <li>A Kerbside and Access Management Framework based on use hierarchy principles which supports</li> </ul>	Opportunity	Enable balanced priority for all transport modes on Nepean Highway (Ref. 2)	



REF	NON-INFRASTRUCTURE RECOMMENDATION / OTHER OF	SUPPORTED INFRASTUCTURE RECOMMENDATION(S)		
	urban cooling, sustainable transport modes and reduced private car trips, and on-street parking demands • A Kerbside Management Plan to inform access, freight and waste management and kerbside use in the Structure Plan Area.		<ul> <li>Enable balanced priority for all transport modes on Bay Road (Ref. 3)</li> <li>Enable Frankston Line Off-road Trail (Ref. 4)</li> <li>Enable a new east-west active transport spine (Ref. 5)</li> <li>Enable a people focused Highett Road (Ref. 6)</li> <li>Enable a network of local Green Streets (Ref. 7)</li> <li>Investigate future bus priority (Ref. 16)</li> <li>Facilitate low-traffic neighbourhoods (Ref. 20).</li> </ul>	
CTTP 18	<ul> <li>Implement controls to respond to design recommendations for:</li> <li>Access of secondary roads where possible (lane ways, side streets)</li> <li>Access discouraged from Upgraded Strategic Corridors and/or Green Streets, high activity pedestrian and cyclist links</li> <li>Encouraging on-site waste and freight management facilities.</li> </ul>	Recommendation	<ul> <li>Enable balanced priority for all transport modes on Nepean Highway (Ref. 2)</li> <li>Enable balanced priority for all transport modes on Bay Road (Ref. 3)</li> <li>Enable Frankston Line Off-road Trail (Ref. 4)</li> <li>Enable a new east-west active transport spine (Ref. 5)</li> <li>Enable a people focused Highett Road (Ref. 6)</li> <li>Enable a network of local Green Streets (Ref. 7)</li> <li>Investigate access to Southland (Ref. 18)</li> <li>Facilitate low-traffic neighbourhoods (Ref. 20).</li> </ul>	
CTTP 19	Implement loading and waste management requirements for new developments including requirement for loading to be entirely on-site for key land uses (such as large residential, large retail, industrial).	Recommendation	<ul> <li>Maintain the strategic road network (Ref. 19)</li> <li>Facilitate low-traffic neighbourhoods (Ref. 20).</li> </ul>	
CTTP 20*	Encourage shared parking arrangements in developments to enable efficient and overall lower parking provisions.	Recommendation	Facilitate low-traffic	
CTTP 21*	Encourage car share scheme parking spaces in developments.	Recommendation	neighbourhoods (Ref. 20)	
* Item included in the SRL East Structure Plan – Transport Technical Report – Appendix A Precinct Parking Plan – Cheltenham.				

# 8 Conclusion

SRL East will improve access to and from Cheltenham and to nearby state and regional significant activity centres.

More active and sustainable transport choices will help improve the amenity and liveability of the Structure Plan Area. Compared to the Baseline Scenario, this will reduce traffic congestion, better manage parking and provide for more efficient use of land. The mode share target shows an increase in active transport mode share by 30 per cent (an increase of 1700 trips during a typical peak hour) compared to the baseline from 21 per cent to 28 per cent, with public transport mode share increasing by 17 per cent (an increase of 600 trips during a typical peak hour).

Table 8.1 summarises the types of recommendations that have been developed and their alignment with the transport goals. The infrastructure and non-infrastructure recommendations will deliver a more connected network and increased travel choice by building on existing arterial road and rail access and contributing to a modal shift towards sustainable travel choice across the Cheltenham Structure Plan Area.

In doing so, these recommendations will support achieving the vision for the Cheltenham Structure Plan Area and provide a framework to guide growth and change, while protecting and preserving the character and features that people love about them now.



TABLE 8.1 TYPES OF TRANSPORT IMPROVEMENTS AND ALIGNMENT WITH THE TRANSPORT GOALS

	TRANSPORT GOALS						
TRANSPORT	<u>ক</u> ি জঁত						
RECOMMENDATIONS	A safe and connected walking and cycling environment	A revitalised bus experience	An all- inclusive transport network	Anchoring sustainable travel services and shared mobility to SRL East	Prioritising safe and healthy movement	Smart and efficient use of parking	Enable new and emerging innovative mobility
Infrastructure types							
New and Upgraded Strategic Corridors that enable the Structure Plan with a particular focus on active and public transport upgrades	~	V	V		V		
Upgraded local Green Streets, with a particular focus on active transport upgrades and support for innovative modes	V		V			~	
New Key Links, focusing on creating active transport permeability and connecting transport corridors	~		~	~			
New and upgraded crossings of busy roads	~		~		~		
Upgrades to public transport interchanges to enhance the services, facilities, and customer experience		~		~			
New bicycle hubs to encourage active transport to the SRL station, existing railway station and bus interchange	~	~		~			
Maintaining strategic traffic and freight corridors		~				~	
Designating low traffic neighbourhoods	~		~		~		
Non-Infrastructure types							
Development of SRL East Structure Plan Area appropriate parking rates					~	~	
Partnering with Council to plan and manage streets through local freight delivery and kerbside management plans						~	
Supporting travel choices including Green Travel Plans and encourage use of mobility hubs					$\checkmark$		$\checkmark$



# SRL East Draft Structure Plan – Transport Technical Report - Appendix A - Precinct Parking Plan – Cheltenham



# Appendix B Peer Review Report



# Transport Engineering Peer Review

# Suburban Rail Loop East Cheltenham

ratio.com.au

**Project** Cheltenham SRL East Structure Plan Area Prepared for Clayton Utz and White & Case on behalf of SRLA

Our reference 21802T

 Directory path
 https://ratioconsultants1.sharepoint.com/sites/21802T577/Shared

 Documents/Work/Reports/21802TREP01CTM F01 Cheltenham TTR Peer Review.docx

#### Acknowledgement of Country

We acknowledge the Traditional Owners of the land we work, live and travel on, and appreciate the rich cultures of the Aboriginal and Torres Strait Islander Peoples and their enduring connection to country.

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# 1. Introduction

#### 1.1. Background

Ratio Consultants have been engaged by Clayton Utz and White & Case lawyers on behalf of the Suburban Rail Loop Authority (SRLA), to peer review the Cheltenham Transport Technical Report.

The SRLA is currently in the process of preparing Structure Plans for areas around each of the new Suburban Rail Loop (SRL) East stations at Box Hill, Burwood, Glen Waverley, Clayton, Monash and Cheltenham.

The SRL East rail project and associated stations were assessed and approved as part of an Environment Effects Statement (EES) assessment process which culminated in Planning Scheme Amendment GC197 to the Whitehorse, Monash, Kingston and Bayside Planning Schemes.

AJM Joint Venture (AJM) were commissioned by SRLA to prepare Transport Technical Reports (TTR) to inform preparation of the structure plans for each of the Structure Plan Areas.

The Cheltenham Structure Plan Area is irregular in shape but is generally bound by a combination of roads including Bay Road, Sandford Road and Turner Street to the north extending as far north as Wickham Road to include Highett Station, Chesterville Road to the east, a Park Road and Tulip Street to the south and George Street to the west.

Ratio Transport team have been requested to review the traffic and transport engineering studies prepared by AJM for Box Hill, Burwood and Cheltenham.

This report summarises the peer review undertaken by Ratio of the TTR, which includes a Precinct Parking Plan for the Cheltenham Structure Plan Area. Separate peer review reports have been prepared in respect of the Transport Technical Reports prepared for the Burwood and Cheltenham Structure Plan Areas.

#### 1.2. Instructions

Instructions were received from Clayton Utz and White & Case lawyers on the 13/11/2024, requesting a peer review of the *SRL East Structure Plan, Cheltenham, Transport Technical Report* (TTR), dated January 2025, prepared for the Cheltenham Structure Plan Area.

Specifically, my instructions were:

This letter sets out instructions for you to undertake a peer review of the Technical Report and prepare a peer review report.

Your peer review report should address the following matters:

- (a) The scope of your role in reviewing the Technical Report;
- (b) The appropriateness of the methodology, assumptions and limitations in the Technical Report;

(c) Whether the findings, assessment outcomes and recommendations in the Technical Report are appropriate in the context of the structure plan planning process for the Cheltenham Structure Plan Area.

A final version of the TTR was provided on the 12<sup>th</sup> February 2025, in order to complete this assessment.

#### 1.3. References

While preparing this report I have reviewed and had regard to the following documents.

#### **Table 1.1: Reference Documents**

Document	Date
SRL East Structure Plan - Transport Technical Report - Cheltenham, prepared by AJM Joint Venture	January 2025
SRL East Structure Plan - Transport Technical Report – Cheltenham, prepared by AJM Joint Venture	February 2025
Suburban Rail Loop East, Inquiry and Advisory Committee Report and Appendices	23 June 2022
Suburban Rail Loop East Environment Effects Statement Summary Report	Undated
SRL East – Environmental Management Framework	Endorsed 17/10/2022
SRL Surface and Tunnel Plans	Approved 28/4/2024

In addition to the above documents, a variety of online mapping resources were used, including Melway, Google Maps, and Landchecker.

# 1.4. Acronyms and Abbreviations

For ease of reference, commonly used acronyms and abbreviations are summarised in Table 1.2.

#### Table 1.2: Acronyms and Abbreviations

Acronym	Reference	Acronym	Reference
SRLA	Suburban Rail Loop Authority	TTR	Transport Technical Report
SRL	Suburban Rail Loop	EES	Environment Effects Statement
SPA	Structure Plan Area	EPRs	Environmental Performance Requirements
AJM	AJM Joint Venture	PPP	Precinct Parking Plan
TTIA	Traffic and Transport Impact Assessment	DTP	Department of Transport and Planning

# 1.5. Limitations of the Peer Review

The following review is based on the content of the TTR as a background study to inform the proposed Cheltenham Structure Plan. The Structure Plan itself and background reports prepared by other disciplines have not been provided or considered in this review.

Likewise, the validity of the data provided in the TTR, and the conclusions reached have not been tested as part of this review other than by assessing their appropriateness against the purpose of informing a Structure Plan on transport matters.

The Structure Plan Area sits within the broader Planning Area Declaration to which the SRLA is the planning authority.

# 2. The Project

#### 2.1. Overview

The Suburban Rail Loop (SRL) is a major rail project ultimately providing a 90km loop around Melbourne providing a rail corridor from Cheltenham to Werribee via Melbourne Airport.

SRL East is the first stage of the 'Project' and comprises a rail line and six new stations at Box Hill, Clayton, Monash, Glen Waverley, Burwood and Cheltenham.

#### 2.2. Suburban Rail Loop East Environment Effects Statement

An Environment Effects Statement (EES) was prepared for the SRL East rail infrastructure including the six new SRL rail stations. The EES was the subject of inquiry by the Suburban Rail Loop East Inquiry and Advisory Committee and assessment by the Minister for Environment and Climate Action, culminating in the Minister's Assessment Report dated July 2022. The SRL East portion of the project is currently under construction.

The Environmental Performance Requirements (EPRs) for the design, construction and operation of the SRL East are detailed in *SRL East – Environmental Management Framework,* which was approved by the Minister for Planning on the 17/10/2022.

The SRL East Environmental Management Framework includes eight Traffic and Transport related EPRs, referenced as T1 through to T8. The EPRs are divided into three indicative timing phases, being Design, Construction or Operation, with some EPR's relevant to more than one phase of the project.

The Traffic and Transport EPRs are divided into eight topics, as summarised in Table 2.1.

Ref.	Environmental Performance Requirement	Timing
TI	Develop and implement Transport Management Plan(s) (TMP)	Design & Construction
T2	Establish and convene a Transport Management Liaison Group (TMLG)	Design & Construction
Т3	Manage road transport impact during construction	Design & Construction
T4	Manage public transport impacts during construction	Design & Construction
T5	Manage active transport impacts during construction	Design & Construction
Т6	Road transport design and operation	Design & Operation

#### Table 2.1: Traffic and Transport Environmental Performance Requirement Topics

T7	Public transport design and operation	Design & Operation
Т8	Active transport design and operation	Design & Operation

Each of the EPR's have a number of subset requirements, however broadly speaking T1 through to T6 are primarily related to the design and construction phases of the project. The Cheltenham TTR contains a specific list of relevant EPRs in Table 3.1 and a response as to how the relevant EPR will be addressed.

Ratio are satisfied that the TTR has been prepared having regard to the requirements of the EPRs that are relevant to the preparation of a structure plan for the Cheltenham Structure Plan Area.

# 2.3. Cheltenham Structure Plan Area

Two areas are identified around the future Cheltenham SRL Station, comprising a Structure Plan Area and a wider Planning Area. The broader Planning Area includes the Structure Plan Area and was declared in December 2023, by the Minister under the *Suburban Rail Loop Act 2021* (Vic). The declaration makes the Suburban Rail Loop Authority (SRLA) a planning authority under the *Planning and Environment Act 1987* (Vic) for the land in Cheltenham to which the Planning Area applies.

The Planning Area and the Structure Plan Area are shown in Figure 2.1.



#### Figure 2.1: Cheltenham Structure Plan and Planning Areas

The Cheltenham Structure Plan applies to the Structure Plan Area identified in pink on the preceding figure.

It is understood that the Structure Plan Area is broadly based on an 800m walking distance from the proposed Cheltenham SRL Station.

# **3. Structure Planning Process**

## 3.1. Overview

The purpose of a Structure Plan is to define the preferred direction of future growth within an activity centre and articulate how it will be managed<sup>1</sup>.

The City of Melbourne<sup>2</sup> provides the following summary of what should be included in a Structure Plan:

A structure plan sets out a vision for an area in the next 10 to 20 years. Structure plans provide guidance about appropriate directions and opportunities for change. They are strongly focused on sustainability, planning for change that is environmentally, socially and economically sustainable.

#### They include:

- Plans to guide activities and land uses, including proposed locations for new community hubs and business clusters
- Plans to manage traffic, car parking, walking, cycling, public transport and freight transport route
- Guidance about building heights and forms
- Plans to enhance open space, including public gathering spaces, parks and gardens.

Further guidelines for preparing Structure Plans are outlined within various sections of the Victorian Planning Scheme.

#### 3.2. Planning Scheme Guidelines for Structure Plans

In preparing this Peer Review, we have referenced the transport related provisions of the Bayside and Kingston Planning Schemes:

- Clause 18 Transport
- Clause 45.09 Parking Overlay
- Clause 52.06 Car Parking
- Clause 52.34 Bicycle Parking

The relevant considerations from a transport perspective are discussed as follows:

#### Clause 18 Transport

Clause 18 of the Planning Scheme states that:

Planning should ensure safe, integrated and sustainable transport system that:

<sup>&</sup>lt;sup>1</sup> Department of Transport and Planning Structure Planning Guideline, dated 20/7/2023 <sup>2</sup> https://www.melbourne.vic.gov.au/local-area-planning

- Provides access to social and economic opportunities to support individual and community wellbeing.
- Facilitates economic prosperity.
- Actively contributes to environmental sustainability.
- Facilitates network wide efficient, coordinated and reliable movement of people and goods.
- Supports health and wellbeing.

Reference should also be given to the subclauses of Clause 18, including:

#### Table 3.1: Relevant Subclauses of Clause 18 of the Bayside/Kingston Planning Schemes

Clause	Title	Clause	Title
18.01-1S	Land use and transport integration	18.02 - 3S	Public Transport
18.01 - 1L	Land use and transport planning (Bayside only)	18.02 - 3L	Public Transport (Bayside only)
18.01-2S	Transport System	18.02 - 3R	Principal Public Transport Network
18.01-3S & 3R	Sustainable and safe transport	18.02 - 4S	Roads
18.01-3L	Sustainable Personal Transport (Bayside only)	18.02 - 4L	Road System (Bayside only)
18.02	Movement Network	18.02 - 4L	Car parking (Bayside and Kingston)
18.02-1S	Walking	18.02 - 4L	Car Parking (Bayside and Kingston)
18.02-2S & 2R	Cycling	18.02 - 5S & 5R	Freight and Freight Links

The overarching aspiration of the various strategies under Clause 18 is to reduce reliance on the private vehicle by promoting, facilitating and planning for an increased mode share towards sustainable transport options.

# 3.3. Planning Scheme Practice Notes

A range of Practice Notes have been prepared to assist with implementation of the Victorian Planning Scheme. Practice notes relevant to the preparation of the SRL East Structure Plans include:

- Planning Practice Note 58: Structure planning for activity centres (PPN58)
- Planning Practice Note 57: Parking Overlays (PPN57)

## **PPN58 Activity Centres**

Planning Practice Note 58: Activity Centres (PPN58) was prepared in September 2018 and is currently under review. At the time of preparing this assessment, the government is currently working on 10 activity centres (excluding SRL East precincts) which are expected to be approved early 2025.

A further 25 Activity Centres have also been announced by the government, with a further 25 expected in the new year. On the basis of the work being undertaken on Activity Centres throughout Metropolitan Melbourne, it is anticipated that new guidelines and criteria will be developed to assist in facilitating development of Activity Centres.

In terms of current guidelines informing the development of the TTR for Cheltenham, PPN58 provides a list of objectives the structure plan should achieve. The ones relevant to transport related matters are as follows:

- Be consistent with regional and local transport, retail, economic, social, environmental, demographic and housing roles of the centre.
- Facilitate a pedestrian environment
- Support greater transport mode choice
- Provide a mobility network and traffic and carparking management that encourages and supports sustainable transport mode choices

PPN58 outlines a six step process for preparing a structure plan. Step two of the process is Background Research. This TTR forms part of the background research prepared to inform the Structure Plan.

#### **PPN57** Parking Overlay

The Victorian Planning Practice Note 57: Parking Overlay (PPN57) was prepared in August 2023 and provides guidance on preparing and applying a Parking Overlay.

In regard to the number of car parking spaces specified by the Schedule to the Parking Overlay, PPN57 notes the following:

A schedule to the Parking Overlay can be used to vary the standard number of car parking spaces required under clause 52.06. Specifically, it can be used to:

- 1. Vary the car parking rate and measure for any use listed in Table 1 of clause 52.06-5
- 2. Specify car parking requirement for any use not listed in Table 1 of clause 52.06-5
- 3. Specify maximum and minimum car parking requirements for any use
- 4. Apply Table 1 column B rates to any use listed in the table to clause 52.06-5

Of particular note: "the schedule should only be used to reduce standard number of car parking spaces specified in Table 1 of clause 52.06-5...."

Before a Parking Overlay is implemented a Car Parking Assessment needs to be prepared that identifies the car parking needs and issues for the area to which the parking overlay will apply.

The Car Parking Assessment should set out the relevant objectives and strategies and include a review of the supply and demand, as well as any relevant social, economic and environmental considerations.

Appendix A of the TTR contains the Car Parking Assessment that has been prepared to support the preparation of a Parking Overlay for the Cheltenham Structure Plan Area. The Car Parking Assessment attached to the TTR has been titled Precinct Parking Plan.

#### PPN57 states that:

A car parking plan must include the following content:

- the objectives of the plan
- the area to which the plan applies
- findings from research and surveys that provide factual material to support the plan
- an assessment of car parking demand and supply
- car parking strategies proposed to facilitate the plan's objectives
- any locational, financial, design or other actions necessary to implement the objectives and strategies.

PPN57 recommends that Parking Overlays are regularly monitored and reviewed to reflect the changing nature of a precinct.

### 3.4. Other Considerations

In my opinion, in addition to the Planning Scheme and associated Practice Notes, consideration should be given to existing activity centre structure plans, particularly those recently approved that respond to the sustainable transport ambitions set out in Clause 18 of the Planning Scheme.

# 4. Cheltenham Transport Technical Report (TTR)

# 4.1. Purpose

The purpose of the TTR is to inform the preparation of the Cheltenham Structure Plan in terms of managing relevant transport considerations, such as traffic, car parking, walking, cycling, public transport and freight movements.

The following Peer Review is based on the report titled *SRL East Structure Plan – Transport Technical Report – Cheltenham*, dated February 2025.

## 4.2. Methodology

The TTR states that each of the Structure Plans will be prepared using a Vision and Validate methodology. The TTR outlines the overarching Transport Ambition for Cheltenham to support the Structure Plan Vision as follows:



**Transport Ambition for Cheltenham** 

Managing the growing number of trips through more people choosing to walk, cycle and catch public transport as Cheltenham develops.

A set of Transport Goals are outlined in Table 4.1 of the TTR that expand on the preceding ambition. The goals broadly address walking, cycling, safety, public transport, inclusivity, sustainability, parking and emerging mobility modes.

The Cheltenham TTR (Section 1.4) states that the following steps were taken to reach the recommendations for the Cheltenham Structure Plan.

- Step 1: Review existing conditions
- Step 2: Review the baseline
- Step 3: Setting the transport ambition and goals
- Step 4: Determine the initial movement network and opportunities
- Step 5: Iterate the development of the Structure Plan with transport
- Step 6: Validate recommendations

AJM have also outlined a five phase stakeholder engagement process that at the time of preparing this review, was up to Phase 2 labelled 'Shaping the Plans'. The TTR states that engagement with Bayside City Council, Kingston City Council and Department of Transport and Planning (DTP) had occurred prior to completion of the TTR and had helped inform the transport recommendations.

# 4.3. Investigation

The TTR includes an investigation and discussion on the following existing transport infrastructure items:

- Road network and operating conditions
- Pedestrian and cycle networks and connectivity
- Public transport services and routes
- Accident history
- Freight routes and demand
- Parking supply, location and type including both on-street and off-street spaces
- Car park demand
- Mode share characteristics
- Car ownership
- Bicycle ownership

Once AJM had established existing conditions for various metrics including car and bike ownership, walk score, transit score, travel mode etc, they benchmarked the metric against other comparable locations within Melbourne.

The TTR also includes an assessment of how the transport infrastructure listed above and current mode share, can be encouraged to become more sustainable and less reliant on private vehicles, with the introduction of the Cheltenham SRL Station, associated Structure Plan and recommended infrastructure improvements.

## 4.4. Findings

#### **Existing Conditions**

The TTR provides a robust description of existing conditions and transport characteristics more broadly, the key findings of the existing conditions assessment are detailed in Table 2.10 of the TTR and summarised as follows:

- Most streets in Cheltenham have footpaths on both sides, connecting residential areas to key destinations. Pedestrian amenity varies throughout Cheltenham, with high-quality pedestrian provisions concentrated in the activity centres.
- Amenity and safety have been enhanced in the vicinity of level crossing removals.
- The cycling network is generally restricted to a few separated cycle routes through the precinct.
- There are a number of existing barriers for pedestrians and cyclists including busy roads, the train line and in some place's large blocks of land.
- Cheltenham includes three existing train stations and a network of bus routes, however connections between the modes are indirect.
- The bus network is convoluted and lacks on-road bus priority, limiting public transport accessibility to key destinations in Cheltenham.
- Cheltenham is served by a number of arterial road corridors both north south and east west and caters to a significant level of through traffic.
- The roads within the Cheltenham Structure Plan Area are not part of the Principal Freight Network.

- There are in the order of 9,300 off street parking spaces publicly available and a further 6,036 on-street parking spaces.
- Kerbside parking is abundantly available but lacks the appropriate diversity controls.
- There are limited bicycle and micromobility parking opportunities.

## Car Parking

The key finding outlined in Appendix A –Precinct Parking Plan, is that the same parking rates should not be applied to the entire Structure Plan Area at this stage, given the delay in the completion of the SRL East Stations.

The proposed areas for initial parking rates within the parking overlay are defined as Area A and Area B as shown in Figure 4.1.





The TTR confirms that parking overlays are a common tool to use in Activity Centres of this nature to manage car parking provision.

In regard to parking provision, the TTR quotes a study undertaken by DTP<sup>3</sup>, which found that minimum car parking rates, such as those included in Clause 52.06 of the Planning Scheme,

<sup>&</sup>lt;sup>3</sup> Modernising car parking and bicycle facilities requirements, discussion paper, DTP, October 2023

can encourage an oversupply of car parking, which results in increased traffic, noise and emissions and a poorer quality urban environment.

The DTP study proposes to change the statutory parking requirements for both cars and bicycles based on a sites proximity to public transport, which will include removal or refinement of minimum parking rates and application of maximum rates.

The TTR proposes to adopt maximum parking rates for Area A and both minimum and maximum rates for Area B. The proposed parking rates for Area A and Area B are reproduced as Table 4.1 and compared to the current parking rates contained within Clause 52.06 of the Planning Scheme.

USE	EXISTING MINIMUM RATES [1]	AREA A (MAXIMUM)	AREA B	UNIT/ MEASURE
	1	0.9	0.6 min – 1 max	1 bedroom /studio
Dwelling	1	1	0.8 min – 1 max	2 bedroom
	2	1.5	1.5 min – 2 max	3+ bedrooms
Supermarket	5	3.5	3.5 (min)	100 m <sup>2</sup> LFA
Retail premises, including Shop	4	2.5	Retail – N/A	100 m <sup>2</sup> LFA
Office	3.5	2.5	Shop – Clause 52.06	100 m <sup>2</sup> NFA
Other		Clause 52.06 'Column B' rates (maximum)	'Column B' rates (minimum)	

#### Table 4.1: Proposed Cheltenham Parking Overlay Rates

[1] Clause 52.06-5 Table 1 Column A rates, includes residential visitor rates not shown here

The TTR states that all proposed rates will be discretionary, with the ability to modify the rates to the satisfaction of the Responsible Authority. This inclusion will allow greater flexibility for development within the Structure Plan Area than the Area A / Area B may initially imply. This is considered an appropriate response to a developing Activity Centre such as that proposed within the Cheltenham Structure Plan Area.

We have undertaken a review of the proposed parking rates and make the following comments:

The Area A rates are based on existing average car park demand as recorded by the ABS Census data. These rates are proposed as maximums, allowing residential development parking provision as per existing demand or with reduced parking provision, including zero parking, within the core Area A. This is considered an appropriate approach to parking provision for residential development in this key location that is already well served by sustainable transport options.

A more conservative approach has been taken for Area B, with the current Clause 52.06 rates adopted as maximums and rates slightly less than the existing ABS Census data adopted as minimums for residential uses. This is considered a reasonable approach to encourage lower parking provision in the wider Structure Plan Area.

Office parking demand is typically a product of supply, such that if an office has a generous rate of parking (ie Planning Scheme rates) then employees are more likely to opt to use private

vehicles. The proposed rate of 2.5 spaces / 100sqm as a maximum within Area A is considered conservative. Office use with Area B defaults back to the existing Clause 52.06 minimum rate of 3.5 spaces / 100sqm. The statutory parking rate is likely to be too high in some locations within Area B, however the ability for development to seek a reduction to this minimum rate is noted and should allow an appropriate level of parking to be provided.

The proposed rates for retail and supermarket over Area A and Area B are considered appropriate given that Cheltenham already has a significant retail offering at Southland Shopping Centre and that future retail offerings through the wider Structure Plan Area are likely to be smaller local activity centres serving the immediate residential catchment.

For all other uses, the existing Column B rates within Clause 52.06 have been adopted as maximums with no minimums for Area A and as per the existing statutory requirements, minimum rates for Area B. This approach is considered consistent with the aspirations to facilitate mode shift and promote sustainable transport choices, noting there is opportunity to review parking rates over time as the area develops.

## **Bicycle Parking**

Consistent with the findings of other Activity Centres, AJM identified that the bicycle parking rates within the Bayside / Kingston Planning Schemes do not represent best practice for bicycle provision. Particularly in the context of supporting more sustainable and active transport options. The Cheltenham PPP therefore includes a recommendation for higher bicycle parking provision rates, which is considered appropriate and desirable.

#### Supporting Mode Share and Managing Car Parking

In addition to car and bicycle parking rates, the TTR found that a range of initiatives are beneficial in supporting mode shift towards reduced reliance on private vehicle and managing car parking supply. The TTR found that the following initiatives could include:

- Car share
- Mobility Hubs
- On-street parking management
- Consolidation of parking
- Unbundled parking
- Adaptable buildings

In our opinion, supporting mode shift requires a holistic approach, and as such it is appropriate to consider a wide variety of initiatives that can support and encourage a reduction in the use of private vehicles.

# 4.5. Assumptions

#### General

The TTR is based on a number of assumptions, the most significant being the ability of the implementation of planning controls and actions to give effect to the Structure Plan in advance of commencement of operation of SRL East, which is projected to occur in 2035. This assumption has impacted various aspects of the TTR, with project completion, traffic impacts and mode shift discussed as follows:

## Structure Plan Commencement

In transport terms the Cheltenham Structure Plan Area is well served by existing sustainable transport infrastructure, including but not limited to, the Highett Train Station, Southland Train Station, Southland bus interchange serving 13 bus routes and a comprehensive bus network through the Structure Plan Area. In addition to the above services, the Cheltenham Train Station is located in close proximity to the south east corner of the Structure Plan Area.

The area is also served by existing walking and bicycle infrastructure and is likely to see increased usage of micromobility modes as their usage continues to grow.

The TTR refers to 'Walk Score' and 'Transit Score' of the Cheltenham Structure Plan Area. Walk Score is an online program that calculates how well served an area is with amenities, such as shops, parks and other services within convenient walking distance. The higher the score the easier it is to undertaken daily tasks by walking.

Transit Score is a similar metric that measures how well served a particular location is by public transport, taking into consideration distance to nearest stop, route frequency and type of transit available.

The TTR notes that the existing walk score of the Cheltenham Structure Plan Area is an average of 72 with an average transit score of 54, noting this is an average across the entire Structure Plan Area and that areas closer to the train stations and services will have higher walk and transit scores and those further away are likely to have reduced scores.

A walkscore of 72 is considered 'very walkable' with most errands able to be achieved on foot.

A transit score of 54 is considered 'good transit' with many nearby transit options available.

For reference the walk and transit score categories are shown in Figure 4.2.

#### Figure 4.2: Walk Score and Transit Score Definitions<sup>4</sup>

based on the distance and turns of accular two within a		Walk Score measures the walkability of any address based on the distance to nearby places and pedestrian friendliness.		
90-100	Rider's Paradise	90–100 Walker's Paradise		
	World-class public transportation		Daily errands do not require a car	
70-89	Excellent Transit	70-89	Very Walkable	
	Transit is convenient for most trips		Most errands can be accomplished on foot	
50-69	Good Transit	50-69	Somewhat Walkable	
	Many nearby public transportation options		Some errands can be accomplished on foot	
25-49	Some Transit	25-49	Car-Dependent	
	A few nearby public transportation options		Most errands require a car	
0-24	Minimal Transit	0-24	Car-Dependent	
	It is possible to get on a bus		Almost all errands require a car	

Adopting an aggregate average for both walk and transit scores across the entire Cheltenham Structure Plan Area is considered a very conservative approach, noting that the Structure Plan Area is generally based on an 800m walking distance from the future Cheltenham SRL Station and as such there is expected to be a reasonable variation across the Structure Plan Area.

In our opinion a more refined review of the walk and transit scores for any development proposal within Area A or B at the planning permit application stage, would be beneficial and help assess the appropriateness of the proposed car parking provision.

<sup>&</sup>lt;sup>4</sup> <u>https://www.walkscore.com/transit-score-methodology.shtml</u> & https://www.walkscore.com/methodology.shtml

It is reasonable to assume that the transport planning for any future permit application would take the particular scores of the site into account, noting that the scores will also change as development progresses and more goods and services and/or sustainable transport options become available.

The proposal to have different parking rates between Area A and Area B, responds appropriately to the proposed implementation of the Structure Plan before the commencement of operation of SRL East and the new SRL station at Cheltenham.

## **Traffic Assumptions**

The TTR refers to the SRL East Rail Environment Effects Statement (EES) (2021), which was supported by a Traffic and Transport Impact Assessment (TTIA). The EES TTIA included traffic modelling implications of the SRL East project.

The TTR states that the work undertaken by AJM, builds on the Traffic and Transport Impact Assessment prepared for the SRL East Environment Effects Statement (EES). The transport modelling prepared for the EES process by AJM, included future land use and travel pattern changes anticipated as a result of the SRL East project.

This assumption is considered reasonable given the traffic modelling by AJM was accepted during the EES hearing.

## **Parking Demand Assessment**

The Precinct Parking Plan (PPP) includes two future scenarios, labelled 'Business as Usual' and 'Mode Shift'. The assumption between the two scenarios relates to the ability to increase mode shift by limiting the potential provision of car parking through car parking rates for new development, as well as a range of proposed improvements to increase the use of sustainable transport modes.

In our view, providing a comparison of business as usual and the potential reduction in parking with a targeted strategy to facilitate mode shift, is an appropriate way to demonstrate the benefits of the proposed parking rates and the risk (or lost opportunity) of over supplying car parking.

#### Parking

The PPP proposes to split the Cheltenham Structure Plan Area into Area A and Area B and adopt different parking rates for each of the two areas. It is our opinion that this is an appropriate response to the delayed timing of the Cheltenham SRL station itself and also to the variation that exists and will continue to exist, over the larger Structure Plan Area.

It is anticipated that any Parking Overlay applied to the Structure Plan Area will need to be reviewed and modified over time as development in the area progresses. It is also likely that the wider Area B could be divided further, to respond to the variation through the Structure Plan Area.

At the time of preparing this assessment, Ratio have not undertaken a review of the specific implications on any particular site within either Area A or B.

Nonetheless, the proposal to provide different parking rates for Area A vs the remainder of the Structure Plan Area (Area B) is considered appropriate and consistent with managing car parking in Activity Centres.

# 4.6. Limitations

One of the most significant limitations to this study is the expected timing of the SRL East construction. The anticipated operation of the SRL East rail corridor is projected for commencement of operation in 2035, and as such the Structure Plan needs to respond to both the ultimate outcomes of the SRL East project and the interim conditions before the new stations are in operation. Given that redevelopment of an area takes a considerable amount of time including design, approval and construction, there also needs to be consideration for the transition period that will occur in the years immediately prior to the Cheltenham SRL station opening.

Other limitations of the TTR study include:

# VITM TRAFFIC MODELLING PROGRAM

 Traffic analysis program VITM has been relied upon, which like most transport software programs has limitations. One noted by AJM<sup>5</sup> is that VITM lacks sensitivity to active transport modes in favour of assuming vehicle movements instead, resulting in potentially lower active transport usage than that shown on the mode shift graphic.

## DATA COLLECTION

- AJM note, that the bicycle parking assessment was undertaken using a desktop review of the Structure Plan Area and as such is likely to contain discrepancies and potentially miss existing facilities.
- The report relies on ABS Census data for bicycle ownership from 2012-2020 and 2022.
   Bicycle ownership levels have generally increased over the past decade, suggesting that historical data may not reflect future ownership levels. Furthermore, the data period is potentially impacted by Covid-19.
- The occupancy of the car parking both on-street and off-street has not been surveyed over an extended period of time, with observations on a single day used to determine the current level of occupancy.

# 4.7. Recommendations

The TTR outlines a table of recommendations defined as either Infrastructure Recommendations or Non-infrastructure Recommendations. The table is reproduced as Table 4.2.

<sup>&</sup>lt;sup>5</sup> TTR Executive Summary Recommendations (footnote 3, pdf pg 9)

#### Table 4.2: TTR Summary of Recommendations

	TRANSPORT GOALS						
TRANSPORT RECOMMENDATIONS	A safe and connected walking and cycling environment	A revitalised bus experience	An all- inclusive transport network	Anchoring sustainable travel services and shared mobility to	Prioritising safe and healthy movement	Smart and efficient use of parking	Enable new and emerging innovative mobility
Infrastructure types				SRL East			
New and Upgraded Strategic Corridors that enable the Structure Plan with a particular focus on active and public transport upgrades	~	4	¥		¥		
Upgraded local Green Streets, with a particular focus on active transport upgrades and support for innovative modes	~		~			~	
New Key Links, focusing on creating active transport permeability and connecting transport corridors	~		~	~			
New and upgraded crossings of busy roads	~		~		~		
Upgrades to public transport interchanges to enhance the services, facilities, and customer experience		~		~			
New bicycle hubs to encourage active transport to the SRL station, existing railway station and bus interchange	~	~		~			
Maintaining strategic traffic and freight corridors		~				~	
Designating low traffic neighbourhoods	~		~		~		
Non-Infrastructure types							
Development of SRL East Structure Plan Area appropriate parking rates					~	~	
Partnering with Council to plan and manage streets through local freight delivery and kerbside management plans						~	
Supporting travel choices including Green Travel Plans and encourage use of mobility hubs					¥		*

The preceding recommendations are considered to be high level aspirations, that provide an appropriate overview of how both infrastructure and non-infrastructure changes can be used to support the development of the Structure Plan.

It is understood that a more detailed Implementation Plan will be created to expand on the above recommendations including timeframes and responsibility for delivery.

# 5. Response to Instructions

## 5.1. Instructions

Clayton Utz and White & Case lawyers provided the following instructions on the 13/11/2024, requesting a peer review of the Transport Technical Report (TTR) prepared for the Cheltenham Structure Plan Area.

Specifically, the instructions were:

This letter sets out instructions for you to undertake a peer review of the Technical Report and prepare a peer review report.

Your peer review report should address the following matters:

- (d) The scope of your role in reviewing the Technical Report;
- (e) The appropriateness of the methodology, assumptions and limitations in the Technical Report;
- (f) Whether the findings, assessment outcomes and recommendations in the Technical Report are appropriate in the context of the structure plan planning process for the Cheltenham Structure Plan Area.

#### 5.2. Scope of Involvement to Date

The Ratio Transport team were engaged by Clayton Utz on behalf of SRLA, in August 2024, to undertake a peer review of the Transport Technical Report (TTR) prepared to inform preparation of the SRL East structure plans.

Of the six SRL East Structure Plan Areas, the Ratio Transport team have been requested to peer review three Transport Technical Reports including Box Hill, Burwood and Cheltenham.

Since being engaged in August 2024, Ratio Transport have been provided with drafts of the Cheltenham TTR and associated PPP for review and discussion, attended workshops, sought to understand the intent and conclusions reached in the TTR and PPP.

Ratio were provided with a final draft TTR and PPP In January 2025 in order to commence this peer review. An updated version with minor editorial changes was provided 12<sup>th</sup> February 2025, that has been referenced to finalise the opinions in this peer review.

This peer review seeks to respond to the instructions provided, which largely seek an opinion on whether the TTR prepared by AJM has responded to the relevant guidelines and provides sufficient detail to enable preparation of a Draft Structure Plan, suitable for exhibition.

This peer review does not attempt to assess the validity of the data collected, or the analysis of the data supporting that supports the recommendations. This peer review is limited to an assessment of the methodology, assumptions and scope of investigation, to determine if the outcomes and recommendations are appropriate to inform the transport related issues required to prepare a Structure Plan.

This review has been prepared by Hilary Marshall, Director of Ratio Consultants assisted by Peter Malley, Senior Associate and Ana Lee, Senior Transport Engineer also from Ratio.

During the course of the peer review I have also liaised with Tim De Young, Director of Eukai, who has been engaged by White & Case lawyers on behalf of SRLA, to review the Glen Waverley, Monash and Clayton Precinct Structure Plan areas.

# 5.3. Appropriateness of Methodology, Assumptions and Limitations

The methodology adopted by AJM to prepare the TTR is considered to be a relatively standard approach to undertaking an investigation and preparing recommendations for a large precinct like the proposed Cheltenham Structure Plan.

Existing conditions data was collected, then reviewed and calibrated to establish a baseline. AJM then prepared the transport goals and ambitions to inform the Vision for the Cheltenham Structure Plan. A detailed review of the road network throughout the Structure Plan Area was undertaken using the DTP Movement and Place Framework. AJM then determined the transport network improvements required to support the Structure Plan and finally validated the recommendations to ensure they aligned with the identified goals and ambitions.

In terms of transport infrastructure, the TTR includes an investigation and discussion on all relevant aspects of transport in our view.

The reliance on the traffic modelling undertaken and accepted as part of the SRL East EES process by AJM, is considered appropriate.

In our experience, any large scale study will have some limitations. The limitations identified earlier include the traffic modelling program VITM and data collection.

VITM is the Victorian Integrated Transport Model and the adopted software package for the majority of large precinct assessments prepared by or on behalf of the State Government, to determine the appropriate road network. VITM is used throughout Metropolitan Melbourne on a variety of land sizes and uses and is considered appropriate for the SRL East precincts. Furthermore, the modelling for the SRL East EES TTIA used VITM, which was accepted for use and approval of the SRL East Project.

Data collection of traffic and/or parking conditions poses a limitation on any project. The data is typically collected on a particular day at a particular time of the day and year, and as such is subject to variations, errors and statistical anomalies. AJM have used large data sets from the ABS Census data, which will help reduce the potential for errors, bias and anomalies.

In our view, the exact utilisation of car parking throughout the Structure Plan Area is not required at this stage of the structure plan process. As outlined above, any data collected would represent a small snap shot in time and would be most likely considered out of date by the time planning applications are sought post approval of the structure plan.

Therefore, in our view the detailed summary of parking types, locations and quantity is sufficient to prepare the Precinct Parking Plan and provide appropriate recommendations on managing car parking resources as the precinct develops.

# 5.4. Appropriateness of Findings and Recommendations

In our view the findings, assessment outcomes and recommendations of the TTR contain sufficient depth of understanding and analysis to prepare recommendations to inform the preparation of a Structure Plan suitable for exhibition and public consultation.

Specifically, the adoption of a parking overlay with rates for two separate areas, is considered a reasonable response to planning in the interim period between when the Structure Plan will take effect and when the Cheltenham SRL East Stations will be open.

### 5.5. Summary

In our opinion the purpose of the Transport Technical Report (TTR) is to determine the potential transport implications of the proposed Structure Plan, which proposes to significantly increase both population and employment within the identified Structure Plan Area. The TTR then needs to provide clear strategies on how to manage the increase in activity.

The TTR needs to respond to the relevant Transport Environmental Performance Requirements (EPRs) included in the SRL East Environmental Management Framework document.

Based on our review of the TTR, we are satisfied that a sufficient level of investigation for all relevant transport related matters, including parking, has been addressed and that the SRL East EPRs relevant to this stage of the project have been appropriately considered.

In summary, the TTR provides guidance on the key transport issues that should be addressed in a Structure Plan including:

- Traffic management
- Car parking
- Public transport
- Walking
- Cycling
- Freight movements

The TTR includes recommendations related to all of the above transport matters.

In summary, the Cheltenham TTR and Precinct Parking Plan (PPP) in our view have appropriately investigated the various transport and parking related matters to inform the preparation of a Structure Plan.





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