Bannockburn railway station is currently not in operation limiting the area's connectivity to other parts of Melbourne via passenger heavy rail and reducing travel options for local residents, businesses/people working in Bannockburn Growth Area.

Based on a review of existing conditions and identified issues and early consultation with PTV, V/Line, VicTrack and TfV has identified a number of potential opportunities to improve public transport in Bannockburn Growth Area including:

- 1. Consider the advantages and disadvantages of extending the PTV local bus service to include a wider catchment throughout the Bannockburn Growth Area as residential development increases.
- 2. Advocate to PTV and V/Line for additional bus services to and from Bannockburn with new services making it viable for residents to commute for work to and from Geelong, and potentially connecting to trains from Geelong to Melbourne.
- 3. Consider a Council or community funded shuttle bus for residents within the growth area to the McPhillips Road/High Street bus interchange.
- 4. Liaise with local schools and PTV to ensure that future school bus services meet demand.
- 5. Continue to consider the long term option of reopening the passenger heavy rail service from Geelong at Bannockburn.

Ongoing consultation with PTV and TfV will further identify potential opportunities and improvements to future public transport access to and within Bannockburn.

5.3 Walking and Cycling

Based on a review of available information, site observations and early consultation, a number of key pedestrian and cycling issues have been identified throughout Bannockburn, including:

- 1. There is a lack of safe pedestrian crossings on High Street between Burnside Road and McPhillips Road, and a high volume of vehicles travelling through the town centre reduces the ability for pedestrians to cross the road.
- There is no safe pedestrian crossing on the western section of Geelong Road near the Clyde Road / Kelly Road intersection. Similarly there are currently no safe pedestrian crossings on any arm of the Clyde Road / Kelly Road intersection near the rail crossing.
- 3. Pedestrian links on Clyde Road and Kelly Road are inconsistent between Geelong Road and the Midland Highway.
- 4. Missing pedestrian link on Burnside Road between Glen Avon Drive and Yverdon Drive.
- 5. Missing pedestrian link on Charlton Road between Burnside Road and Willowbrae Way incorporating a shared pedestrian path crossing Bruce's Creek.
- 6. No safe pedestrian crossing across Burnside Road to connect with the existing pedestrian path on the northern side of Burnside Road west of Dalcruin Drive.
- Missing shared path links on Shelford-Bannockburn Road between Burnside Road and the western growth area boundary incorporating a connection to the existing underpass crossing Bruce's Creek.
- 8. There is currently only the single pedestrian crossing over the rail line.
- Lack of on-road bicycle lanes on key arterial links connecting to or through Bannockburn Town Centre;
- 10. Missing formal on-road or off-road bicycle path along Burnside Road between Shelford-Bannockburn Road and the existing shared path on the north side of Burnside Road east of Pope Street; and
- 11. Missing on-road or off-road bicycle path along Pope Street between Burnside Road and Shelford- Bannockburn Road.

Based on a review of existing conditions and identified issues, and a review of the Paths and Trails Strategy, a number of opportunities have been identified to improve the access and mobility for active transport modes in Bannockbum Growth Area and encourage walking and cycling including:

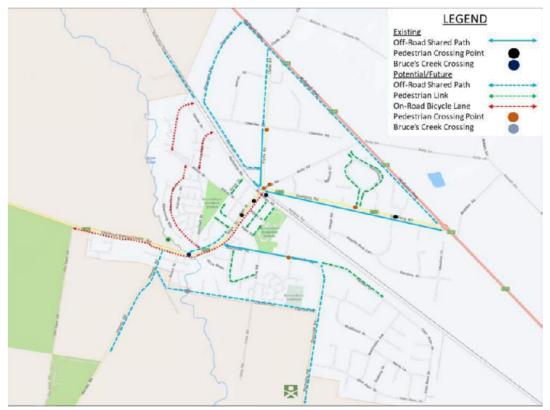
1. Strengthen pedestrian and cyclist connections through Bannockburn Growth Area, linking the north/south and east/west growth area boundaries.

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- 2. Provision of off-road shared paths on key connectivity links identified within the growth area, as identified in the Bannockburn Paths and Trails Strategy.
- 3. Provision of new or improved pedestrian footpaths on key existing and future links within residential areas accessing main roads within the growth area including:
 - > Clyde Road and Kelly Road to Midland Highway;
 - > Shelford-Bannockburn Road west of Moreillon Boulevarde;
 - > Moore Street and Byron Street; and
 - > Burnside Road and Charlton Road.
- Improving active travel connectivity across Bruce's Creek as development within the growth area continues.
- 5. Improve pedestrian and cyclist crossing locations along key roads within the growth area including Geelong Road and Shelford-Bannockburn Road.
- 6. Investigate potential for a shared path along the Midland Highway to Lethbridge and Batesford.
- 7. Investigate the need for and a suitable location to provide a second pedestrian crossing over the rail line to provide safe pedestrian access at desire lines.

Figure 5-2 illustrates the gaps in the existing walking and cycling network within Bannockburn Growth Area and future potential improvements.

Figure 5-2 Pedestrian and Cycling gaps and future potential improvements



5.4 Parking

Based on a review of available information, parking surveys, and site observations, a number of key parking issues have been identified within the growth area, and in particular the town centre area, including:

- 1. No undercover parking present within the town centre.
- 2. 10% of parking within the vicinity to the commercial area is timed with the remaining unrestricted, reducing tumover parking for visitors to the town centre.
- 3. Unrestricted parking proximate to key generators including Bannockburn Primary School, Bannockburn Library and Bannockburn Recreational Reserve.
- 4. Cars parked on both sides of the narrow residential streets can impact two-way traffic flow.
- 5. Car parking issues identified during specific events in the town centre such as Market days.

Based on a review of existing conditions and identified issues, a number of opportunities have been identified to improve the parking within Bannockburn Town Centre including:

- 1. Review of on-street and off-street parking within the Bannockburn Town Centre to allow a mixture of timed and unrestricted parking to cater for all users' needs, considering the additional parking provision within the redeveloped Bannockburn Plaza.
- 2. Ensure future development proposals provide parking in accordance with the Golden Plains Shire Planning Scheme.
- 3. Investigate and identify additional areas within the town centre to supply additional off-street parking, catering to specific development needs.

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6 Conclusions

The issues and opportunities report findings for Bannockburn Growth Area identified a significant number of issues and opportunities for walking, cycling, public transport, traffic and parking. Some of the key issues include:

- 1. Addressing the gaps in off-road walking and cycling links within Bannockburn and improve connectivity within the growth area.
- Investigate opportunities to improve on-street walking and cycling links within Bannockburn to key generators.
- 3. Identify solutions to improve pedestrian and cycling links over Bruce's Creek.
- 4. The need to implement pedestrian and cycling safety, including the provision of safe crossing locations over major roads.
- 5. Investigate opportunities with V/Line and McHarry's bus service to provide additional services to and from Geelong and ensure commuting via public transport to Melbourne CBD is viable.
- 6. It is suggested to advocate to McHarry's bus service to alter their existing bus routes to include areas within Bannockburn Growth Area.
- 7. Further investigate with PTV the potential for re-opening Bannockburn rail station to improve public transport connectivity with surrounding key locations.
- 8. Consider a Council or community funded shuttle bus for Bannockburn residents to Bannockburn town centre from residential areas within the growth area.
- Review on-street and off-street parking restrictions within the town centre to ensure a mixture of timed and unrestricted parking caters for all users' needs.
- 10. Undertake further investigations regarding a heavy vehicle bypass around Bannockburn Town Centre.
- 11. Review the speed limits within the growth area and consider lowering / increasing on key traffic routes.
- 12. Investigate opportunities to upgrade key intersections to cater for future development within Bannockburn.

The findings of this issues and opportunities report, in conjunction with feedback received from key stakeholders and the public, will contribute to the development of the Bannockbum Transport Strategy.

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Bannockburn Transport Strategy

Appendices Document

V171834

Prepared for Golden Plains Shire

9 September 2019





Contac	t Information		Document Information			
Cardno V	/ictoria Pty Ltd		Prepared for	Golden Plains Shire		
ABN 47 1	ABN 47 106 610 913		Project Name	Appendices Document		
Level 4	atan Otanat		File Reference	V171834		
501 Swar Melbourn Australia	e 3000		Job Reference	V171834		
Australia			Date	9 September 2019		
www.cardno.com Phone +61 3 8415 7777 Fax +61 3 8415 7788			Version Number	F01		
Author(s)						
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Approved	By:					
Matt Mudge Associate Transport Planner			Date Approved	9/09/2019		
Docume	nt History					
Version	Effective Date	Description of Revision	Prepared by	Reviewed by		
F01	09/09/2019	Final Version	Luke Smith	Matt Mudge		

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Item 7.8 - Attachment 1

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Planning Policy Context

This appendix provides a detailed analysis of the relevant transport policy and strategic documentation that has been referred to in Section 2. The following sections highlight where the proposed Bannockburn Town Centre will facilitate the delivery of the appropriate regional and local transport and movement strategy and policy goals and objectives.

Golden Plains Shire Planning Scheme

Bannockburn is the largest urban centre in Golden Plains Shire and a key regional centre within the Shire's network of townships across the south-east, serving residential, commercial and administrative functions. The Golden Plains Shire Planning Scheme (GPSPS) highlights key issues within Bannockburn, including:

- > The continued management of residential growth including land supply, infrastructure provision and maintenance of the urban growth boundary;
- > Enhancement of economic growth and well-being to encourage local business opportunities, employment, expenditure and town centre activity;
- > The need to guide commercial growth and manage change as the town expands; and
- Protection and enhancement of the natural and built environment including environmental assets, the Bruce's Creek environs, town character and rural ambience.

To address the key issues stipulated in the GPSPS, objectives and strategies have been put in place to achieve this. These include:

- To promote growth in Bannockburn that is sustainable in accordance with the Overall Principles Plan and Land Use Precinct Plan by developing Milton Street to provide a future road link across Bruce's Creek to serve future residential areas to the west of Bannockburn and facilitate creek crossings in accordance with the Bruce's Creek Masterplan. Additionally the GPSPS aims to provide walking and cycling linkages to open space areas, community facilities and the town centre in new development and subdivision;
- > To create a prosperous and sustainable Bannockburn Town Centre by facilitating growth within the Bannockburn Town Centre that is consistent with the Land Use Precinct Plan and the principles of the Bannockburn Urban Design Framework and provide attractive and usable public spaces adjacent to or close to the town centre to encourage social activity (cafes, restaurants, etc.) and pedestrian and cycle connectivity;
- To provide an integrated and environmentally responsive open space network throughout Bannockburn township by providing open space areas in new developments that incorporate pedestrian, bicycle or riding trail paths to other open space areas which are preferably off-street and utilising the rail corridor as an open space link incorporating a shared footpath, bicycle and riding trail;
- > To restore and protect the Bruce's Creek and environs by providing walking and cycling trails, preferably on the eastern side of the creek;
- > To maintain the village character of Bannockburn by upgrading main road avenues of wide, tree-lined road reserves in accordance with the Bannockburn Urban Design Framework; and
- To improve the infrastructure of Bannockburn by directing traffic movements to use the Shelford- Bannockburn Road and encourage the provision of off-street car parking in accessible locations with good pedestrian and cycling links as identified by the Bannockburn Town Centre Investment Strategy 2008.

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Bannockburn Town Centre Investment Strategy (BTCIS)

The strategy was prepared to provide a comprehensive and coordinated framework for new retail and commercial developments required to support an increasing population base. The population within Bannockburn and surrounding districts increased 39.3% between 2001 and 2006 to 8,140 and is forecasted to grow to 12,260 by 2021.

As part of the strategy additional traffic management and service provision within the town will need to be upgraded to accommodate the new growth. New residential areas west of the town centre will alter the character of some local streets and change the traffic management requirements at some intersections within the town centre. Additionally, significant improvements to traffic management will be required to accommodate additional traffic generated by new development and growth within the Bannockburn catchment area. The following traffic management devices are proposed to help cater for the new developments and growth:

- > Traffic signals at the intersection of Milton Street and High Street;
- > Roundabout at the intersection of Burns Street and Milton Street;
- > Roundabout at the intersection of Milton street and Byron street; and
- > Roundabout at the intersection of Milton Street and Moore Street.

The study area for Bannockburn Investment Strategy is shown in Figure A-1.

Figure A-1 Bannockburn Investment Strategy study area



Key findings of the Investment Strategy include:

- > The lack of traffic management in the Town Centre is becoming an issue given the continual population growth in Bannockburn;
- > The road network that exists around Bannockburn is adequate and allows easy access to and from the town;
- > The frequency of bus services in Bannockburn is poor, leaving public transport nearly non-existent;

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- > Walking paths that exist in and around Bannockburn do not necessarily link to places of interest or gathering;
- > Parking within the Town Centre is becoming inadequate to meet demand during daily peak periods; and
- > The current car parking layout in Bannockburn is not user friendly, however, the ability to access High Street from Burns Street is important for local traders and traffic circulation in the area.

The BTCIS sets out the vision and objectives for the Bannockburn Town Centre. Council's vision is:

"To maintain the rural atmosphere of Bannockburn by managing future development in a way that enhances the regional role of the township, maintaining high service provision and providing opportunities for local employment, while improving traffic circulation and public access."

Council's vision will be achieved by implementing the following objectives which will provide guidance in relation to future planning and development of the Bannockburn Town Centre. Council's objectives include but are not limited to:

- Promote traffic management outcomes that cater for increased traffic and parking demands associated with the growth of Bannockburn;
- > Provide specific control measures at key intersections in Bannockburn;
- > Define a road hierarchy to facilitate traffic movement through and within the town;
- > Provide adequate and suitably located car parking to cater to retail and commercial land uses;
- > Enhance pedestrian and cycle connectivity within the town; and
- > Provide attractive and usable public spaces adjacent to or within close proximity to the retail centre.

The BTCIS highlights the proposed investment and land use strategy for Bannockburn Town Centre (shown in Figure A-2) which will assist in meeting future requirements for the expansion of the town centre.



The Investment and Land Use Strategy sets out future commercial and retail land use sizes and allocates Gross Floor Area (GFA) to blocks within the Bannockburn Town Centre. It is anticipated an additional 32,175sqm of commercial and retail GFA will be developed within the town centre. Summarised land uses for the town centre are shown in Table A-1.

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Use	Total Gross Buildable Floor Area	
Retail (Block 1)	8750sq.m	
Retail (Block 2)	5450sq.m	
Total Retail	14,200sq.m	
Commercial (Block 3)	4500sq.m	
Commercial (Block 4)	8175sq.m	
Commercial (Block 5)	5300sq.m	
Total Commercial	17,975sq.m	
Total Commercial and Retail	32,175sq.m	

By applying the future traffic generation rates set out in the BTCIS for residential, commercial and retail developments proposed for the Bannockburn Town Centre to the existing conditions supplied within the investment strategy, estimated traffic volumes for the major roads within the Bannockburn Town Centre were established as part of the BTCIS as shown in Table A-2 below.

Street	Location	Estimated 2007 Daily Traffic Volumes [1]	Development Traffic	Additional Through Traffic 2017	2017 Traffic Volumes
High Street	South of McPhillips Rd	4550	7000	1700	13,250
	South of Milton St	5450	3100	1700	10,250
	South of Pope St	4700	1800	1700	8200
High St Service Rai – nth-bound	Btw Milton & McPhillips Rd	150	1600	-	1750
	Btw Pope & Milton St	250	300	-	550
High St Service Rd – sth-lecund	Btw Milton & McPhillips Rd	500	400	•	900
McPhillips Road	South east of High St	1150	100	•	1250
	North west of High St	550	700 - 1900	•	1250 - 2450
Milton Street	South east of High St	1000	800	-	1800
Pope Street	South east of High St	900	1500	•	2400

Table A-2 Estimated 2017 Daily Traffic Volumes

[1] Estimated daily volumes from Existing Conditions Report

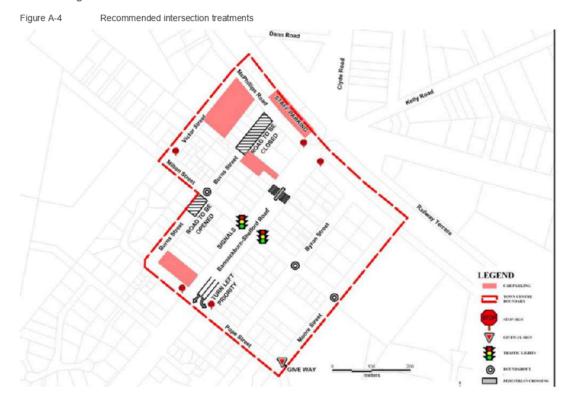
Based on the likely development traffic and future traffic volumes set out in the BTCIS a future road hierarchy plan for the Bannockburn Town Centre was identified and is shown in Figure A-3.

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Given the proposed future road hierarchy and traffic volumes within the Bannockburn Town Centre the BTCIS recommends traffic management treatments to assist in alleviating traffic and pedestrian issues as shown in Figure A-4.



The anticipated future developments proposed within the BTCIS will require additional on and off-street parking to cater for the increase in traffic visiting the town centre. Table A-3 highlights the recommended car parking requirements to cater for the increase in commercial and retail developments within the town centre.

Use		Gross Floor Total Parking Area Requirement [1]		On Street abutting Site [2]	Off Street Requirement	
Retail	Block 1	8750sq.m	490 spaces	14 spaces	476 spaces	
	Block 2	5450sq.m	305 spaces	22 spaces	283 spaces	
Total Retail		14,200sq.m	795 spaces	36 spaces	759 spaces	
Commercial Block 3		4500sq.m	158 spaces		158 spaces	
	Block 4	8175sq.m	286 spaces	57 spaces	229 spaces	
	Block 5	5300sq.m	186 spaces	56 spaces	130 spaces	
Total Commercial		17,975sq.m	630 spaces		517 spaces	

Table A-3 Recommended on and off street retail and commercial parking requirements

[1] Based on 4.3 spaces per 100sq.m for retail and 3.5 spaces per 100sq.m for commercial

[2] Table 3.1 of the Existing Conditions Report

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To ensure there is adequate off-street parking within the Bannockburn Town Centre the BTCIS recommends parking locations to serve the increase in commercial and retail GFA and in turn the increase in visitors to the town centre. Figure A-5 identifies areas suitable for parking associated with the individual commercial and retail development blocks. It is recommended within the BTCIS to split the future off-street car spaces into short and long term spaces to cater for staff and visitors to Bannockburn.

 Retail (Block 1)

 Commercial (Block 3)

 Commercial (Block 5)

 Retail (Block 2)

 Commercial (Block 4)

 Staff / Employee Parking

 Customer (short term) parking

Figure A-5 Recommended off street car parking locations

To integrate the existing pedestrian and cycle network within the town centre to residential, retail and commercial areas additional pedestrian links will need to be provided between new and existing residential areas and the retail precinct, school and civic activities and provide safe crossing locations across High Street. Figure A-2 above recommends additional pedestrian links to assist in creating easier pedestrian access to the town centre.

Furthermore, due to an increase in retail and commercial developments (shown in Table A-1) additional 'end of trip' facilities will need to be provided in line with Golden Plains Shire Planning Scheme, shown in Table A-4.

Table A-4	Future	bicycle	parking	requirements
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Use	Bicycle Parking Provision Rate		Minimum Bicycle Parking Requirements	
	Employee	Visitor / Shopper	Employee	Visitor / Shopper
Retail (14,200sq.m)	1 to each 300sq.m leasable area	1 to each 500sq.m of leasable area	47	28
Commercial (17,975sq.m)	1 to each 300sq.m of net floor area	1 to each 1000sq.m of net floor area	60	18
			107	46

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The BTCIS also recommends additional public and community transport to accommodate the proposed population and development growth within the town centre. Recommended new services include:

- > New transport services connecting the retail precinct with new residential subdivisions to the north west of the town;
- > Expanded services connecting the town centre retail and commercial precinct with outlying communities; and
- > A dedicated taxi rank within the town centre that provides convenient drop-off and waiting areas for taxis servicing the expanded retail and commercial precinct.

The information provided within the BTCIS will be part of the foundation to ensure Council's vision is reflected within the Bannockburn Transport Strategy.

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Bannockburn Urban Design Framework (2011)

The Bannockburn Urban Design Framework (BUDF) has functioned as the key strategic reference through which to guide land use planning in Golden Plains Shire's largest and fastest growing population centre.

The study area is the Bannockburn Township which is bounded by Midland Highway to the north, extent of the rural residential development to the south, extent of the existing Structure Plan boundary to the east and Bannockburn Bush to the west as shown in Figure A-6.

Figre A-6 Bannockburn Urban Design Framework Study Area

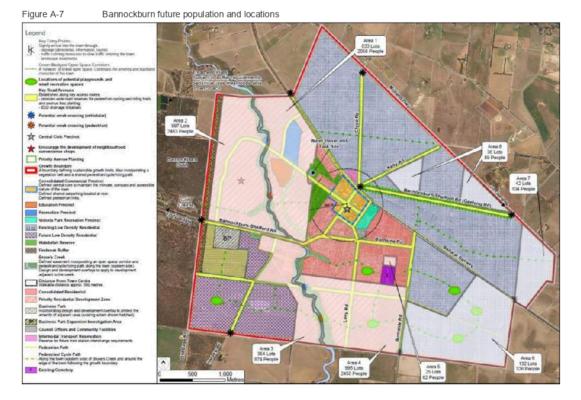
The BUDF takes into account projected future population within the Bannockburn urban growth area to determine future infrastructure, commercial, retail, recreation and educational needs for the community. Population projections for the urban growth area are shown in Table A-5.

Table A-5 Population growth within the urban growth area

Development Type	Zoning	Population Capacity (2023)	Recent Population Growth (2005 to present)	Remaining Capacity (Projected Growth)	
Medium - High Density ¹	R1Z	7787	613	7174	
Low Density ²	LDRZ	519	257	262	
	Current Bann	ockburn Population (U	IGB)	3259	
	Projected Gr	Projected Growth Area Population (UGB)			
	Total Project	ed Bannockburn Popul	lation (UGB)	10,474	

Based on the projected 2023 population of 10,474, Bannockburn has capacity for 7,400 additional people within the high, medium and low density suburbs within the growth area. There is also additional scope for

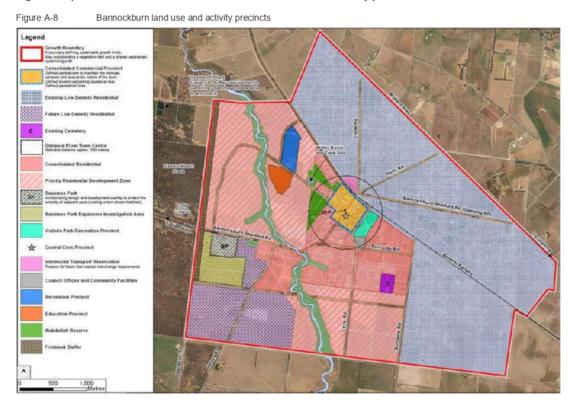
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increased densities at strategic locations near schools and recreation facilities. The capacity of Bannockburn's future population and location is illustrated on Figure A-7.

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In order to accommodate the future projected population of Bannockburn growth area an increase in the current educational, recreational, residential, commercial and retail sectors of the Township are desirable to ensure the long term economic viability of the town and as such land uses and activities throughout the Bannockburn Township have been strategically placed to ensure this long term economic viability. Figure A-8 provides an overview of Bannockburn's land use and activity precincts.



The land use and activity precincts within the growth area that are to serve the proposed population growth at the present time do not have the infrastructure to cater for the increase in traffic, car parking, transport, pedestrian and vehicle access. Through community feedback and detailed analysis it was found the key movement issues predicted within the BUDF once development and population has increased include:

- Entry into the town from the east via the Midland Highway slip lane is poorly signed and the slip lane does not slow vehicles, although they are required to give way;
- > The main entry into the town at the rail line is difficult in terms of sightlines, the number of converging roads, a narrowing across the rail line, and concerns regarding pedestrian access and safety;
- > The level of heavy vehicle movements along High Street is currently considered to be a modest 11%, there is a need to identify a by-pass route to accommodate future increased traffic flow;
- > The number of service road and driveway entries into High Street is high and confusing, with 11 different openings along two blocks;
- > There is a need for improvement in the approach routes and entrances to the Bannockburn Town Centre;
- > There is a shortage of car parking within the town centre;
- > New development areas should provide open space, with direct connections into other networks; and
- > The need for a public open space reserve with a shared walking/bicycle/riding trail network at the town boundary edge.

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To alleviate the movement issues within the Bannockburn growth area the BUDF recommends the following actions:

- Priority to be given to Shelford-Bannockburn Road traffic at the High Street entry, with consideration given to closing or truncating Kelly Road at the southern end and rerouting along a newly opened road section of Gillett Street;
- > Create a gateway zone at the 80/60 km transition into the town;
- > As per the Bannockburn Town Centre Investment Strategy intersection treatments should be considered along High Street (Shelford-Bannockburn Road) and along Milton Street taking into account the anticipated levels of traffic associated with planned developments;
- > Investigate possible treatments for the High Street / McPhillips Road intersection to ensure safety and functionality are maximised;
- > Use the rail corridor and the wide road reserves as multi use (bicycle, pedestrian) trail links to open space, education and recreation zones;
- Determine main road avenues and connections through the town, for the future planning of the road network, infrastructure and services, trail system, and drainage (particularly WSUD treatments incorporated into the road system);
- > Consider additional, formalised pedestrian crossings across High Street;
- > Determine future parking areas at the rear of commercial zones, ensuring direct connections and a 'loop system' for vehicles, and direct access to commercial/retail areas for pedestrians;
- Investigate opportunities for providing alternative routes and rail crossings as part of the access opportunities to both Geelong and the Geelong Bypass;
- > Identify a local bus service route that connects existing and future residential developments to the town centre and railway station;
- New developments should supply off-street car parking at the rates recommended in the Planning Scheme, encourage shared access points, provide good pedestrian links;
- Investigate the relocation of industrial/service type land uses within the town centre to provide additional, strategically located car parking;
- Provide additional pedestrian connections off-street to follow desire lines, connect activity areas and link car parks to ensure an accessible and permeable town centre with minimal reliance on vehicle travel; and
- > Limit the number of creek crossings to two, one north and one south of the existing crossing on Shelford-Bannockburn Road. Crossing should be for vehicles and pedestrians.

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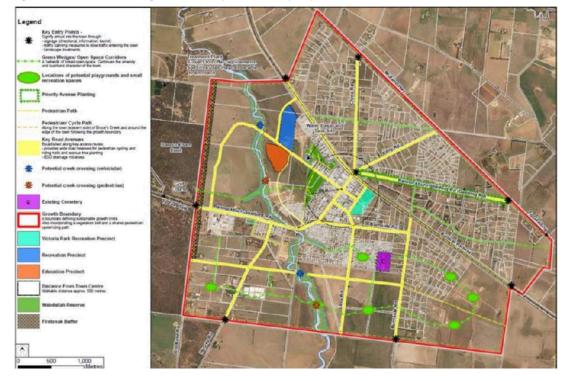


Figure A-9 shows the proposed future road, pedestrian and open space network for the Bannockburn Growth Area.

Figure A-9 Bannockburn growth area road, pedestrian and open space network

Recommendations from the Bannockburn Urban Design Framework will be key reference points for the Bannockburn Transport Strategy and future car parking, traffic movements and active and public transport upgrades within the Bannockburn Town Centre.

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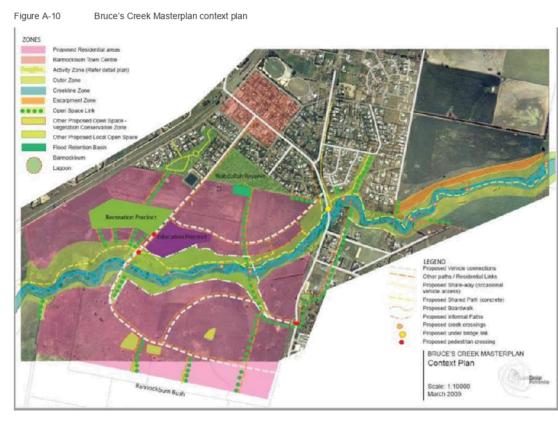
Bruce's Creek Masterplan, Bannockburn (2009)

The Bruce's Creek Open Space Reserve will be a significant landscape corridor with high environmental values. It will provide the community with a central focal point for activity through the provision of open space areas, recreation and education precincts and shared trail networks. The corridor will facilitate the integration of new and planned residential areas with the established township, connecting a growing, walkable, healthy and integrated community.

The Bruce's Creek Masterplan seeks to support and implement the key recommendations identified in the Bannockburn Urban Design Framework and the Golden Plains Shire Planning Scheme, Clause 21.05. The primary purpose of the Bruce's Creek Masterplan (BCM) is to develop a set of guidelines and actions that address the following key considerations:

- > Paths / trails;
- > Access and activity; and
- > Supporting infrastructure / facility requirements.

Through extensive community and stakeholder consultation the BCM recommends a number of creek crossing points, a hierarchy of paths and trails to fulfil a range of circulation and recreation roles and general locations and routes for the path system. The Bruce's Creek Masterplan context plan is shown in Figure A-10 and highlights the recommendations from masterplan.



Recommendations from the masterplan will provide input into the Bannockburn Transport Strategy and future network links within the growth area.

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Paths and Trails Strategy (2013 - 2017)

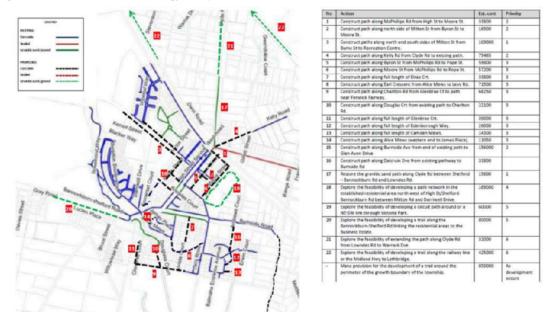
The aim of the Paths and Trails Study (PTS) was to develop a strategy to guide the future provision of paths and trails across the Golden Plains Shire and within Bannockburn.

The key objectives of the study were to:

- > Develop an inventory of paths and trails provision;
- > Identify gaps, deficiencies or oversupply in provision;
- > Provide directions to Council regarding the future provision of paths and trails; and
- > Develop a prioritised set of recommendations for future provision.

Golden Plains Shire Council undertook extensive consultation with the community, stakeholders, Councillors and Council staff to create an action plan to implement future paths and trails. Figure A-11 contains Golden Plains Shire action plan for future paths and trails within Bannockburn growth area.

Figure A-11 Paths and Trails Strategy action plan



The action plan derived from the Paths and Trails Strategy will help develop the Active and Public Transport component of the Bannockburn Transport Strategy.

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G21 Physical Activity Strategy (2014 - 2017)

The G21 Physical Activity Strategy (PAS) aims to provide an evidence base to guide policy and decision making at a regional and municipal level. This will assist in creating an environment that supports physical activity and generating recommendations linked into the G21 Health and Wellbeing Plan.

Specific objectives of the strategy are to:

- > provide the policy context that describes the role of the G21 region and other key stakeholders in planning, developing, managing and supporting opportunities that foster physical activity;
- > integrate planning for physical activity at a regional and municipal level;
- > identify enablers and barriers to physical activity at a local level;
- > provide evidence to develop guidelines and principles to inform policy and decision making that supports physical activity; and
- > provide recommendations for resource allocation to support physical activity.

Key actions of the strategy for Golden Plains Shire Council are highlighted in Table A-6.

Table A-6 G21 Key action plan for Golden Plains Shire Council

NO	ACTION	STAKEHOLDERS	FUNDING SOURCE
RES	DURCING		
4	Implement recommendations contained within Golden Plains Shire's Paths and Trails Strategy.	GPS (Rec)	GPS / grants
TRA	NSPORT POLICIES & SYSTEMS		
5	Develop a Bicycle Strategy.	GPS (Rec)	Subject to grant
6	Evaluate Golden Plains Shire's Golden Connections Community Transport program to inform a sustainable community transport model.	GPS (HWB)	GPS
7	Provide a community transport program that provides and delivers integrated transport options.	GPS (HWB)	Subject to grant
URB/	AN DESIGN		
8	Develop a Horse Trail Strategy.	GPS	Subject to grant
9	Connect paths and trails networks that encourage community participation, active travel and safe movement around townships.	GPS (Rec)	GPS / grants
10	Ensure new public infrastructure design processes for streetscapes, footpaths, buildings and public open spaces are universally accessible.	GPS (Engineering and HWB)	GPS
11	Extend roadside maintenance that supports safe and accessible walking paths.	GPS (Engineering)	GPS
12	Provide accessible and high quality open spaces in new developments.	GPS (Planning)	GPS
13	Develop the physical activity components of the Bannockburn Civic Heart Project.		

The objectives and actions set out in the G21 PAS will assist with developing strategies to promote the construction of new infrastructure to cater for active travel including walking and cycling within Bannockburn.

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Community Engagement Strategy (2016 - 2020)

Golden Plains Shire Community Engagement Strategy (CES) aims to build a more comprehensive and consistent approach to engagement processes that responds to community interest.

Key objectives of the strategy include:

- > Accessible and transparent engagement practice by creating more active participation in engagement processes, reducing barriers for wider community involvement and more consistently communicate how community input has contributed to Council's decision making processes; and
- > Aligned policy and practice framework by ensuring the community engagement policy is actively used in the planning of engagement processes.

The strategic direction set out in the CES will ensure the key actions are undertaken by Golden Plains Shire Council to improve community engagement. Key actions include:

- > Review and expand Council's "Have Your Say" online engagement approach; and
- > Promote and build capacity of the community to access Council's new website and "Have Your Say" online engagement page.

The CES will ensure community consultation for the Bannockburn Transport Strategy is undertaken comprehensively through multiple mediums including a community survey via mail, online via "Have Your Say" and in person as part of the Bannockburn street talk activity.

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Bannockburn Heavy Vehicle Alternative Route Study

The aim of the study was to identify a suitable heavy vehicle alternative route which considers not only the technical, land use and environmental issues, but also has been considered by the local community and key stakeholders.

The study developed a range of high-level options for an alternative heavy vehicle route around Bannockburn including:

- > Option 5 Masons Road/south of Bannockburn Reserve/Transmission Line Easement to east of Bruce's Creek/Parallel to easement to connect with Midland Highway at McCurdy Road;
- > Option 7 Old Base Road/Transmission Line Easement/Connect with Midland Highway at Bakers Bridge Road;
- > Option 8 Masons Road/southern boundary of Bannockburn Reserve/Transmission Line Easement/Connect with Midland Highway at Bakers Bridge Road; and
- > Option 11 South leg at Shelford-Bannockburn Road and English Road intersection/south east to Masons Road/southern boundary of Bannockburn Reserve/Transmission Line Easement/Connect with Midland Highway at Bakers Bridge Road.

Figure A-12 below shows the proposed heavy vehicle routes to be considered.



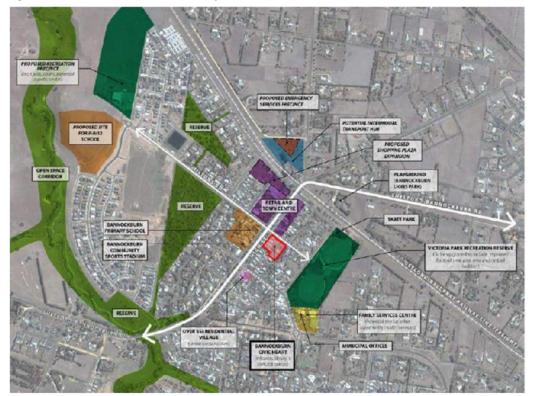
Figure A-12 Proposed Bannockburn heavy vehicle alternative routes

The Bannockburn Heavy Vehicle Study Alternative Route Study will assist in providing advice on heavy vehicle movements within Bannockburn as part of the Bannockburn Transport Study.

Bannockburn Civic Heart Project (2014)

The Bannockburn Civic Heart Project (BCHP) was established to ensure a vibrant Civic Heart in the centre of Bannockburn. The civic heart is located at 27 – 29 High Street and is currently occupied by the SES, CFA, Bannockburn Community and Cultural Centre. Figure A-13 shows the locality of the Civic Centre in relation to Bannockburn Town Centre.

Figure A-13 Bannockburn Civic Heart locality

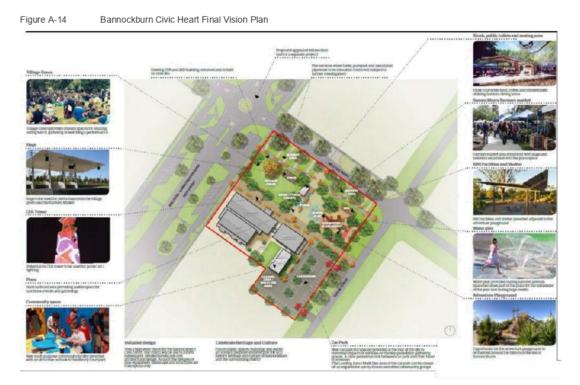


Extensive community consultation was undertaken to determine the best use for the site and to reflect the guiding principles developed through initial community and stakeholder consultation. Key principles and objectives of the BCHP include:

- > The Civic Heart and its surrounds should be considered in an integrated way by providing safe connections between the Civic Heart and the school; and
- > Vehicle access and parking should be flexible and convenient but not dominate the core of the precinct by ensuring car parking and vehicle access areas are designed to provide safe and legible movements for pedestrians.

Further to community consultation, a Final Vision Plan was established which provides insight into the proposed layout of the Civic Heart and proposed car parking and pedestrian links, see Figure A-14.

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Outcomes of the Bannockburn Transport Strategy will reflect key Final Vision Plan and principles set out in the Bannockburn Civic Heart Project.

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G21 Public Transport Strategy (2014)

The G21 Region Public Transport Strategy (PTS) goal is to increase utilisation of public transport, and in turn:

- > Reduce traffic congestion;
- > Improve the environment; and
- > Overcome social isolation.

Through community and stakeholder consultation a four year action plan was developed to meet the goals set out in the PTS. Key Actions of the PTS relating to Bannockburn are shown in Table A-7.

Table A-7	Key actions of the G21 Public Transport Strategy
-----------	--

Actions that particularly benefit Golden Plains

- Encourage PTV and coach operators to research and trial new vehicles for longer distance bus services in the region, with better accessibility and more luggage storage.
- » Encourage the building of transport hubs, particularly in major regional towns e.g. Bannockburn.
- » Advocate to PTV to provide a high quality connection between central Werribee, East Werribee Employment Precinct and G21 region when Regional Rail Link opens.
- » Advocate for an increase in service levels between Geelong, Colac, Warrnambool, Ballarat (serving Bannockburn) and Apollo Bay to five services daily in the short-term, using coaches primarily but trains where feasible.

Actions from the PTS will be incorporated into Bannockburn's Transport Strategy to ensure public transport increases to and from the town centre in the future.

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Golden Plains Shire Recreation Strategy Plan (2015 - 2019)

The Recreation Strategy document outlines the Golden Plains Shire's key directions and priorities for recreation provision in the Shire and the actions it will take during the period 2015-2019 to implement these directions and priorities. Provisions provided in the strategy relating to the Bannockburn Town Centre include:

- > Make provision for the development of a trail around the perimeter of the growth boundary of the Bannockburn Town Centre;
- > Explore the feasibility of developing a circuit path around or through the NE SW corner of Victoria park;
- > Explore the feasibility of developing a trail along the Shelford-Bannockburn Road linking the residential areas to the Business Estate;
- > Explore the feasibility of developing a trail along the railway line or Midland Highway to Lethbridge;
- > Explore the feasibility of extending the path along Clyde Road to Warrak Drive;
- > Construct a new soccer pavilion at the Bannockburn Recreation Precinct; and
- > Adopt and progressively implement the Victoria Park Redevelopment Masterplan.

Based on the directions and priorities established in the Recreation Strategy an action plan was developed to ensure funding was granted to implement the above provisions. See Table A-8 for a list of the adopted action plans.

Table A-8 Golden Plains Shire Recreation Strategy Plan Action Plan

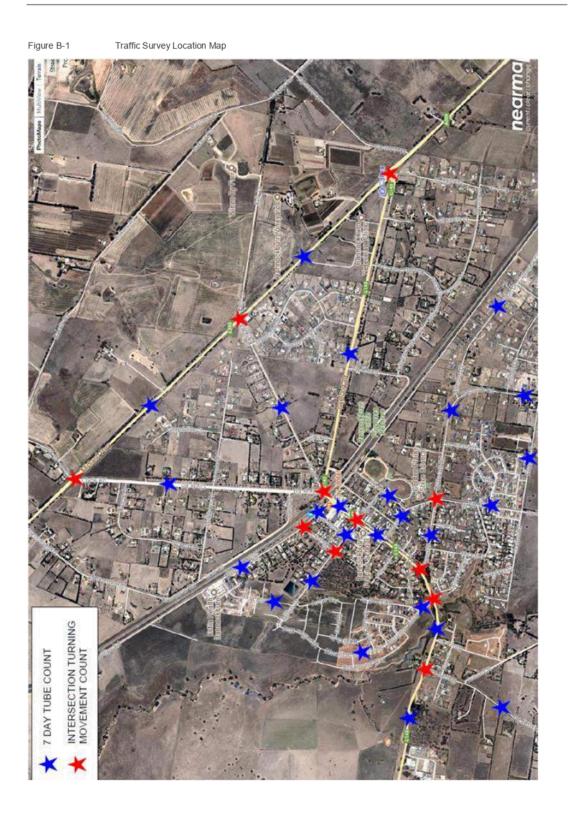
Adopt and progressively implement the Victoria Park Redevelopment Masterplan (masterplan is currently in draft form and has not been formally adopted by Council; - Replace the perimeter fence along Moore St with a 2m high black coated chain wire fence - Seal the carpark located to the north-east of the Oval 1 changerooms - Renorate/Liggrade the public toilet block - Rectify drainage problems on the track around Oval 1 (water is ponding in some areas) - Repart the primeric around Oval 1 - Rever the grassed edges around the centre wicket on Oval 1 - Repart the synthetic carpet (null length). Remove the dwitting here. Sover the wickets with synthetic carpet (null length). Remove the avisiting nets. - Redevelop the netsball facilities: > Extend and resurface 2 courts (aroyic resin surface) > Line only for netball > Repart the fence (tagging in parts) > Firset benches between the courts with > Market the surverse the surverse in the courts > Kence and the surverse the surverse the surverse > Kence and resurface 2 courts (aroyic resin surface) > Line only for netball > Repart the fence (tagging in parts) > Firset benches between the courts > Kence and the surverse the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the fence (tagging in parts) > Firset benches between the courts > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the surverse is the surverse the surverse > Kence and the fence (tagging in terns) > Kence and the surverse is the surverse the surverse > Kence and the s	GPS COM Outps	\$40,000 \$35,000 \$50,000 \$4,000 Maintenance \$5,000 Maintenance \$5,000 \$230,000	GPS RDV COM Clubs Other	5 3 1 2 1 2 2 2 1 1	- - - - - - - - - - - - - - - - - - -	\$40,000 \$35,000 \$10,000 \$4,000 - \$80,000 \$230,000
Prend a new sheller on the western side Prendware the surplik courd area Lower the grassed edges around the centre wicket on Oval 2 Replace the synthetic carpet on the centre wicket on Oval 2 Improve the run-ups to the centre wicket on Oval 2 Upgrade the playing surface on Oval 2 Uggrade the playing surface on Oval 2 Texet training lights over Oval 2 Texet training lights over Oval 2 Intrait at unit wicket table (3 pitches) on Oval 2 (pending Council decision) Provide proper winter covers for the centre cricket wickets Add more pincess to the play area Provide seating around the Park – around the playing fields, near the playground.		Maintenance \$5,000 Maintenance \$150,000 \$70,000 \$8,000 \$8,000 \$60,000 \$30,000		222345142		- SS,000 - - S160,000 S70,000 S8,000 S80,000 S30,000
Construct a new soccer pavilion at the Bannockburn Recreation Precinct.	GPS	\$650,000	GPS RDV	1	-	\$650,000
Meet with DEECD to discuss the potential for and feasibility of developing recreation facilities at or near the new school campus in Bannockburn, being: - The addition of a 3rd court at the Bannockburn Recreation Precinct Stadium - The construction of a multi-use lit synthetic surface sports field (hockey, athletics, soccer).	GPS DEECD	Officer time	GPS DEECD RDV Other	1	Officer time	•
Investigate designation of a reserve in Bannockburn as a dog-off-leash venue.	GPS	Officer time	GPS	4	Officer time	
Explore facility options for the Bannockburn Anglers Club.	GPS Anglers Club	Officer time	GPS	2	Officer time	
Develop the recreation elements of the Bannockburn Divic Heart Project; being a destination adventure playground which includes play equipment and water play area.	GPS	\$580,000	GPS RDV	1		\$680,000
	Is currently in draft form and has not been formally adopted by Council: - Replace the perimeter fance along Moore'S with a 2m high black coated chain wire fence - Seal the carpark located to the north-tess of the Oval 1 changerooms - Renovate/luggrade the public toilet blocc - Replace the synthetic carpet on the track around Oval 1 - Replace the synthetic carpet on the track around Oval 1 - Replace the synthetic carpet on the centre wicket on Oval 1 - Replace the tracket nets to the east of the netball courts. Erect 3 nets. Cover the wickets with synthetic carpet (full length). Remove the existing nets. - Redevelop the netball ficilities: - Vistend and resurface 2 courts (arylic resin surface) - Vine only for netball - Negories the synthetic carpet on the centre wicket on Oval 2 - Replace the synthetic carpet on the centre wicket on Oval 2 - Replace the synthetic carpet on the centre wicket on Oval 2 - Replace the synthetic carpet on the centre wicket on Oval 2 - Replace the synthetic carpet on the centre wicket on Oval 2 - Replace the playing surface on Oval 2 - Replace the playing s	is currently in draft form and has not been formally adopted by Council):	Is currently in draft form and has not been formally adopted by Council):	Is currently in draft form and has not been formally adopted by Council: COM RoV - Replace the perimeter fence along Moore St with a 2m high black coated chain wire fence COM Sub S40,000 - Seal the carpark loaded to the north-tess of the Oval 1 Amagenooms Common Status Sub Common Status - Rectify diring perioding on the trok around Oval 1 (water is ponding in some areas) Sub Sub Sub Sub OD - Replace the synthetic carpet on the centre wicket on Oval 1 Maintenance Sub Sub Sub Sub Sub Sub Sub Sub OD Com Sub Sub	Is currently in draft form and has not been formally adopted by Council: COM RU - Replace the perimeter fence along Moore St with a 2m high black coated chain wire fence COM S40,000 COM S - Seal the carpark loaded to the north-exest of the Oval 1 Adapted on the trade around Oval 1 (wetter is ponding in some areas) Repair the pipe fence around Oval 1 (wetter is ponding in some areas) S0,000 S0,000	Is currently in dreft form and has not been formally adopted by Council; - Replace the perimeter frence about Move State (botter is ponding in some areas) - Renorate/Lingrade the public toilet block - Renorate/Lingrade problems on the trok around Oval 1 (water is ponding in some areas) - Renorate/Lingrade the public toilet block - Renorate/Lingrade problems on the trok around Oval 1 (water is ponding in some areas) - Renorate/Lingrade to the north-reast of the Oval 1 (water is ponding in some areas) - Renorate/Lingrade to the sound the centre wicket on Oval 1 - Renet the synthetic carpet (full length). Renove the wickets on Oval 1 - Renet the cricket nets to the east of the netball courts. Erect 3 nets. Cover the wickets - With optimic carpet (full length). Renove the existing nets. - Redevelop the netball - Value only for netball - Replace the synthetic carpet (full length). Renove the existing nets. - Replace the synthetic carpet (full length). Renove the existing nets. - Replace the synthesic carpet (full length). Renove the existing nets. - Replace the synthesic carpet (full length). Renove the existing nets. - Replace the synthesic carpet (full length). Renove the existing nets. - Replace the synthesic carpet (full length). Renove the existing nets. - Replace the synthesic carpet (full length). Renove the exist on Oval 2 - Replace the synthesic carpet on the centre wicket on Oval 2 - Replace the synthesic carpet on the centre wicket on Oval 2 - Replace the synthesic carpet on the centre wicket on Oval 2 - Replace the synthesic carpet on the centre wicket on Oval 2 - Replace the synthesic carpet on the centre wicket on Oval 2 - Replace the playing strikes to an Oval 2 - Replace the playing strikes to not Coll (pending Council decision) - Provide proper winker to Ave store for the centre wickets - Add more places to the play area - Revide the playing strikes to and equipting flexis, near the playground. - Revide proper winker to ave store the estrike wickets - Add more places t

The implementation of the Recreation Strategy Action Plan will allow for more visitors to access the Bannockburn recreation area, most notably Victoria Park. An increase of visitors to the area will require additional infrastructure to cater for more users.

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n - 9am)	EB/NB WB/SB Combined	420	390	95	53	006	71	235	147	146	130	27	42	116	261	636	58	104	52	515	107	
AM Peak (8am - 9am)	WB/SB	181	167	55	24	304	52	141	64	84	73	16	24	73	135	210	16	28	30	241	40	
AM P		239	223	40	29	596	19	94	83	62	57	11	18	43	126	426	42	76	22	274	67	
Weekday Daily Volume	EB/NB WB/SB Combined	5562	5351	1428	448	9659	674	2430	1471	1646	1444	253	447	1474	1865	8737	871	1624	648	3172	534	
day Daily	WB/SB	2750	2661	738	190	4804	345	1237	710	684	704	119	233	844	1050	4341	367	644	248	1671	256	
	EB/NB	2812	2690	069	258	4855	329	1193	761	962	740	134	214	630	815	4396	504	980	400	1501	278	
Speed Limit	(km/h)	100	100	80	60	80	50	60	50	80	09	50	50	50	50	60	60	60	50	50	50	
	Location	Midland Hwy 600m SE of Kelly Road	Midland Hwy 800m NW of Kelly Road	Clyde Rd btw Warrak Dr and Lowdes Rd	Kelly Road 300m NE of Gillett St	Geelong Rd btw Francis Ct and Inverlochy Dr	Yverdon Dr at No. 74	Burnside Rd btw Dalcruin Dr and Yverdon Dr	Burnside Rd btw Earl Cr and Elrae Ct	Burnside Rd south of Charlton Rd	Burnside Rd south of Yverdon Dr	Charlton Rd btw Charlton Rd and Burnside Rd	Levy Rd btw Fenwick Fairway and Dalcruin Dr	Pope St btw Byron St and Moore St	Moore St btw Pope St and Milton St	Bannockburn - Shelford Rd just nth Pope St	McPhillips Rd at No. 63	McPhillips Rd just east of Burnside St	Imperial Way btw merlot Ct and Milton St	Milton St east or Archer Way	Moreillon Blvd btw Mckenna St and Dairriwell Dr	
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Ordinary Council Meeting Attachments

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Weekday Daily Traffic Volume

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Moreillon Blvd btw Bannockburn -Shelford Rd and Darriwell Dr Bannockburn - Shelford Rd btw Bruce St and Moreillon Blvd Bannockburn - Shelford Rd btw Harvey Rd and Holder Rd Milton St Btw Burns St and Bannockburn - Shelford Rd

Moreillon Blvd btw Mckenna St and Dairriwell Dr Bannockburn -Shelford Rd just sth McPhillips St

Harvey Rd 300m sth of Ormond St

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1244 6683 5441 4910

2670 2273

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Table B-1

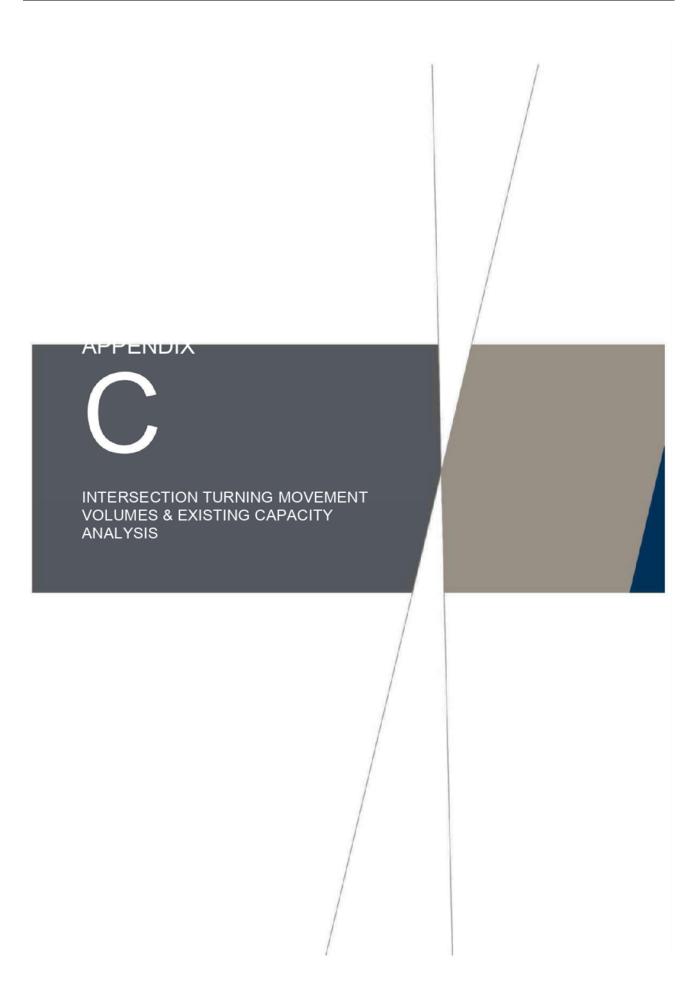
EB/NB WB/SB Combined PM Peak (4pm - 5pm)

85th %ile (km/h) <u>5</u> 5

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Location	(km/h)	EB/NB	WB/SB	WB/SB Combined	EB/NB	EB/NB WB/SB	Combined	(km/h)
Midland Hwy 600m SE of Kelly Road	100	3434	3291	6725	365	385	750	102
Midland Hwy 800m NW of Kelly Road	100	3356	3237	6593	376	397	773	101.5
Clyde Rd btw Warrak Dr and Lowdes Rd	80	880	940	1820	201	210	411	75.7
Kelly Road 300m NE of Gillett St	60	235	183	418	26	17	43	84.6
Geelong Rd btw Francis Ct and Inverlochy Dr	80	3992	3948	7940	315	316	631	77.6
Yverdon Dr at No. 74	50	277	281	558	22	21	43	71.2
Burnside Rd btw Dalcruin Dr and Yverdon Dr	60	1146	1136	2282	101	110	211	73.9
Burnside Rd btw Earl Cr and Elrae Ct	50	644	673	1317	49	64	113	63
Burnside Rd south of Charlton Rd	80	974	754	1728	102	64	166	82.6
Burnside Rd south of Yverdon Dr	60	701	708	1409	72	59	131	73.7
Charlton Rd btw Charlton Rd and Burnside Rd	50	109	118	227	10	6	19	99
Levy Rd btw Fenwick Fairway and Dalcruin Dr	50	196	193	389	23	27	50	55
Pope St btw Byron St and Moore St	50	590	805	1395	59	84	143	56
Moore St btw Pope St and Milton St	50	538	741	1279	61	86	147	55
Bannockburn - Shelford Rd just nth Pope St	60	4106	3923	8029	352	384	736	54.9
McPhillips Rd at No. 63	60	505	367	872	90	62	152	62.6
McPhillips Rd just east of Burnside St	60	915	635	1550	118	73	191	49.6
Imperial Way btw merlot Ct and Milton St	50	411	252	663	77	29	106	56.6
Milton St east or Archer Way	50	929	1130	2059	64	125	189	57.3
Moreillon Blvd btw Mckenna St and Dairriwell Dr	50	157	159	316	21	11	32	58
Harvey Rd 300m sth of Ormond St	80	469	482	951	45	50	95	89
Bannockburn - Shelford Rd just sth McPhillips St	60	4217	4786	9003	409	454	863	45.9
Moreillon Blvd btw Bannockburn -Shelford Rd and Darriwell Dr	50	485	544	1029	44	37	81	49
Bannockburn -Shelford Rd btw Bruce St and Moreillon Blvd	60	2940	2883	5823	234	254	488	68
Bannockburn -Shelford Rd btw Harvey Rd and Holder Rd	80	2324	2262	4586	181	193	374	81
Milton St Btw Burns St and Bannockburn -Shelford Rd	50	2069	1681	3750	204	197	401	49

Saturday Daily Traffic Volumes

Table B-2



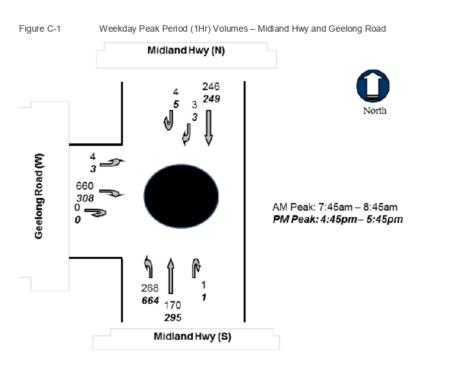


Table C-1 SIDRA

SIDRA Results Midland Highway / Geelong Road

	Approach	Degree of Saturation	Average Delay	95 th %tile Queue
¥	Midland Hwy (SE)	0.304	7 sec	2.1 m
l Peak	Midland Hwy (NW)	0.373	11.6 sec	2.1 m
AM	Geelong Rd (W)	0.604	12.2 sec	4.2 m
¥	Midland Hwy (SE)	0.652	7 sec	7.2 m
l Peak	Midland Hwy (NW)	0.28	9.1 sec	1.3 m
M	Geelong Rd (W)	0.336	12.6 sec	1.7 m

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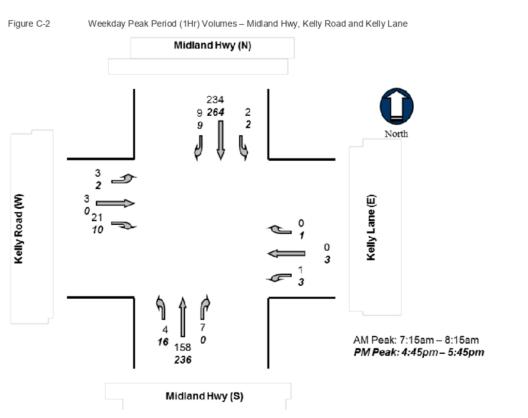


Table C-2	SIDRA Results Midland	Highway / Kelly	Road / Kelly Lane
		ringinitary / reeny	ritoud / ritony curro

Approach		Degree of Saturation	Average Delay	95th %tile Queue
	Kelly Ln (E)	0.004	7.5 sec	0.0 m
AM Peak	Kelly Road (SW)	0.057	10.9 sec	0.2 m
AM F	Midland Hwy (SE)	0.101	0.6 sec	0.1 m
	Midland Hwy (NW)	0.148	0.5 sec	0.1 m
Peak	Kelly Ln (E)	0.01	7.6 sec	0.0 m
	Kelly Road (SW)	0.044	11.2 sec	0.2 m
	Midland Hwy (SE)	0.139	0.7 sec	0.0 m
	Midland Hwy (NW)	0.17	0.4 sec	0.1 m

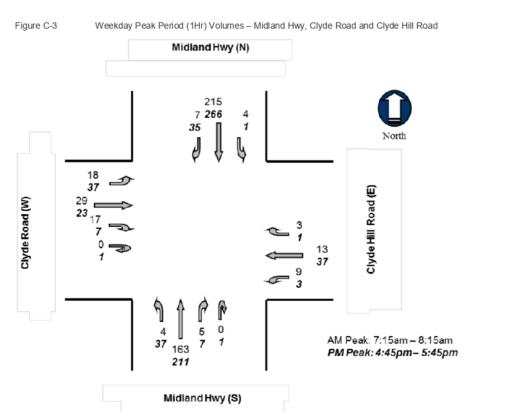
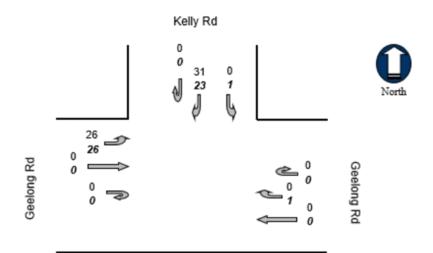


Table C-3	SIDRA Results Midland Highway / Clyde Road / Clyde Hill Road
	orbite riteballo milalaria riiginay / oryac ritebala / oryac riili ritebala

Approach		Degree of Saturation	Average Delay	95 th %tile Queue
	Clyde Rd (S)	0.102	10.6 sec	0.4 m
AM Peak	Clyde Hill Rd (NE)	0.023	8.6 sec	0.1 m
AMF	Midland Hwy (SE)	0.097	0.5 sec	0.0 m
*	Midland Hwy (NW)	0.124	0.6 sec	0.1 m
PM Peak	Clyde Rd (S)	0.089	10.6 sec	0.3 m
	Clyde Hill Rd (NE)	0.06	9.5 sec	0.2 m
	Midland Hwy (SE)	0.141	1.5 sec	0.0 m
	Midland Hwy (NW)	0.152	0.9 sec	0.1 m

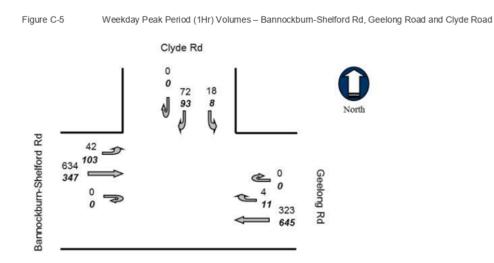




AM Peak: 8:15am - 9:15am PM Peak: 4:30pm - 5:30pm

Table C-4	SIDRA Results Geelong Re	oad / Kelly Road		
Approach		Degree of Saturation	Average Delay	95 th %tile Queue
×	Kelly Rd (NE)	0.105	13.9 sec	0.3 m
l Peak	Geelong Rd (E)	0.175	5.3 sec	0.0 m
AM	Geelong Rd (SW)	0.396	4.5 sec	2.7 m
Å	Kelly Rd (NE)	0.063	14.3 sec	0.2 m
l Peak	Geelong Rd (E)	0.377	5.3 sec	0.0 m
ΡM	Geelong Rd (SW)	0.214	4.4 sec	1.2 m

V171834 | 9 September 2019 | Commercial in Confidence



AM Peak: 8:00am - 9:00am PM Peak: 4:45pm - 5:45pm

Table C-5	SIDRA Results Bannockburn-Shelford Rd / Geelong Road / Clyde Road			
	Approach	Degree of Saturation	Average Delay	95 th %tile Queue
똪	Clyde Rd (N)	0.247	14 sec	0.8 m
1 Peak	Geelong Rd (E)	0.193	5.4 sec	0.0 m
AM	Bannockburn-Shelford Rd (SW)	0.411	5.1 sec	2.9 m
똪	Clyde Rd (N)	0.328	16.7 sec	1.2 m
1 Peak	Geelong Rd (E)	0.388	5.4 sec	0.1 m
Md	Bannockburn-Shelford Rd (SW)	0.273	5.2 sec	1.6 m

V171834 | 9 September 2019 | Commercial in Confidence

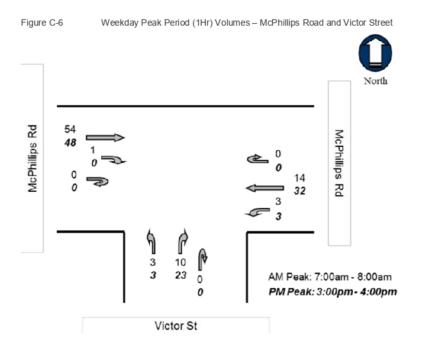
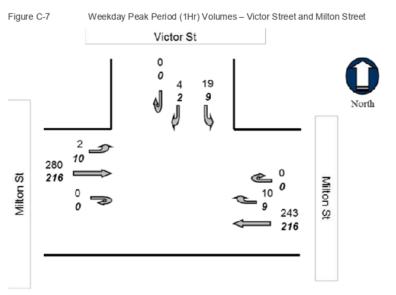


Table C-6 SIDRA Results McPhillips Road / Victor Street

Approach		Degree of Saturation	Average Delay	95 th %tile Queue
ž	Victor St (SW)	0.011	4.9 sec	0.0 m
AM Peak	McPhillips Rd (SE)	0.01	1 sec	0.0 m
AM	McPhillips Rd (NW)	0.033	0.1 sec	0.0 m
¥	Victor St (SW)	0.023	5 sec	0.1 m
PM Peak	McPhillips Rd (SE)	0.021	0.5 sec	0.0 m
Ad	McPhillips Rd (NW)	0.029	0.1 sec	0.0 m

V171834 | 9 September 2019 | Commercial in Confidence

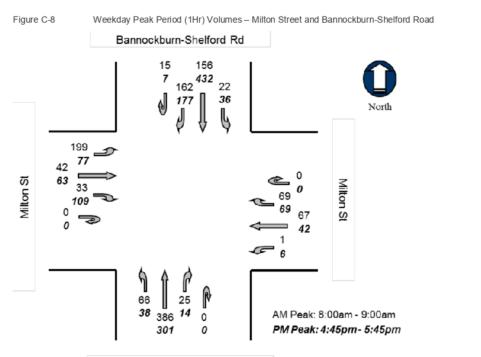


AM Peak: 8:00am - 9:00am PM Peak: 3:00pm- 4:00pm

Table C-7 SIDRA Results Victor Street / Milton Street

Approach		Degree of Saturation	Average Delay	95 th %tile Queue
Å	Victor St (NE)	0.025	6.1 sec	0.1 m
AM Peak	Milton St (SE)	0.14	0.4 sec	0.1 m
AN	Milton St (NW)	0.156	0 sec	0.0 m
ž	Victor St (NE)	0.011	5.7 sec	0.0 m
PM Peak	Milton St (SE)	0.124	0.3 sec	0.1 m
PA	Milton St (NW)	0.126	0.2 sec	0.0 m

V171834 | 9 September 2019 | Commercial in Confidence

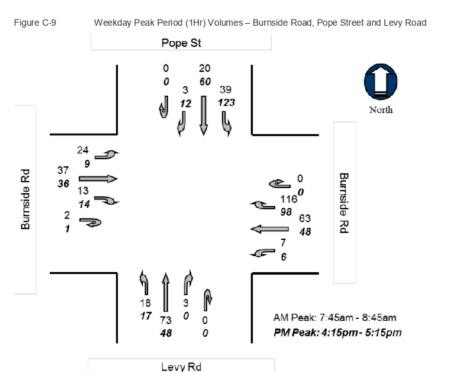


Bannockburn-Shelford Rd

Table C-8 SIDRA Results Bannockburn-Shelford Road/ Milton Street

	Approach	Degree of Saturation	Average Delay	95 th %tile Queue
	Milton St (SE)	0.775	49.2 sec	4.7 m
AM Peak	Milton St (NW)	0.332	11.3 sec	1.3 m
AMF	Bannockburn-Shelford Rd (NE)	0.179	4.3 sec	0.8 m
	Bannockburn-Shelford Rd (SW)	0.252	1.1 sec	0.1 m
	Milton St (SE)	0.872	79.6 sec	5.6 m
Deak	Milton St (NW)	1.152	147 sec	22.8 m
PM Peak	Bannockburn-Shelford Rd (NE)	0.262	2.3 sec	0.7 m
-	Bannockburn-Shelford Rd (SW)	0.189	0.9 sec	0.1 m

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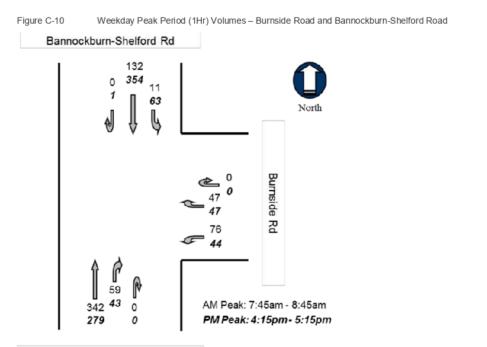


LevyInd

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Table C-9 SIDRA Results Burnside Road / Pope Street / Levy Road
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Approach		Degree of Saturation	Average Delay	95 th %tile Queue
	Levy Rd (S)	0.15	7.1 sec	0.8 m
AM Peak	Pope St (NW)	0.08	6.1 sec	0.4 m
AMF	Burnside Rd (E)	0.202	6.6 sec	1.2 m
	Burnside Rd (W)	0.118	7.8 sec	0.6 m
	Levy Rd (S)	0.105	6.7 sec	0.5 m
Deak	Pope St (NW)	0.225	6.1 sec	1.4 m
PM Peak	Burnside Rd (E)	0.2	7.5 sec	1.2 m
-	Burnside Rd (W)	0.089	7.3 sec	0.4 m

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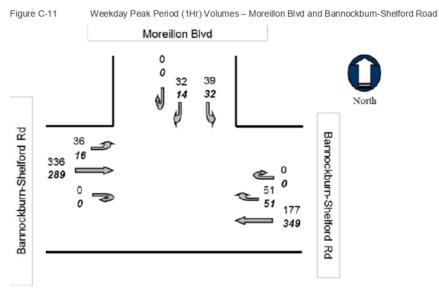


Bannockburn-Shelford rd

Table C-10 SIDRA Results Bannockburn-Shelford Road/ Burnside Road

	Approach	Degree of Saturation	Average Delay	95 th %tile Queue
×	Burnside Rd (SE)	0.127	7.1 sec	0.5 m
AM Peak	Bannockburn-Shelford Rd (NE)	0.076	0.4 sec	0.0 m
AM	Bannockburn-Shelford Rd (SW)	0.226	1 sec	0.5 m
×	Burnside Rd (SE)	0.129	8.6 sec	0.4 m
PM Peak	Bannockburn-Shelford Rd (NE)	0.221	0.9 sec	0.0 m
ΡM	Bannockburn-Shelford Rd (SW)	0.193	1.5 sec	0.5 m

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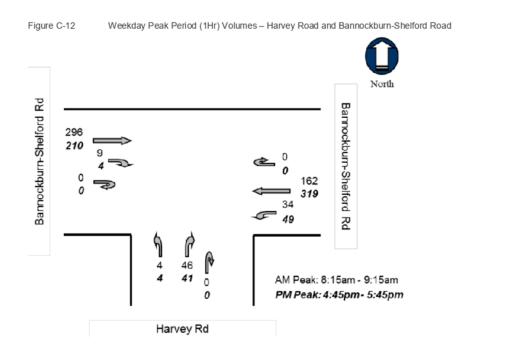


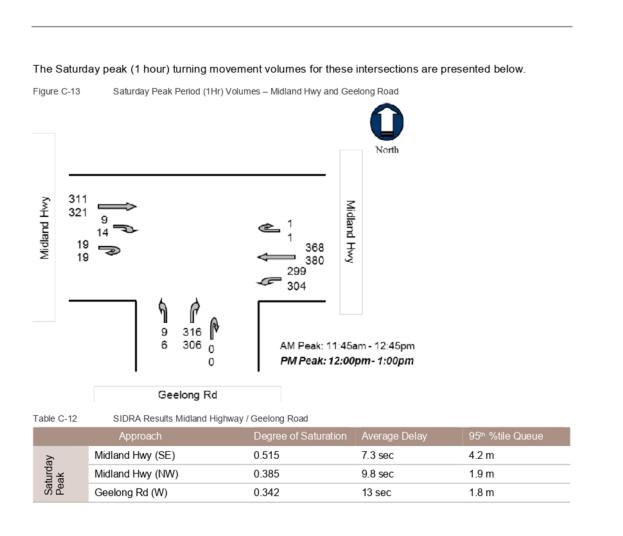
AM Peak: 8:15am - 9:15am PM Peak: 4:15pm - 5:15pm

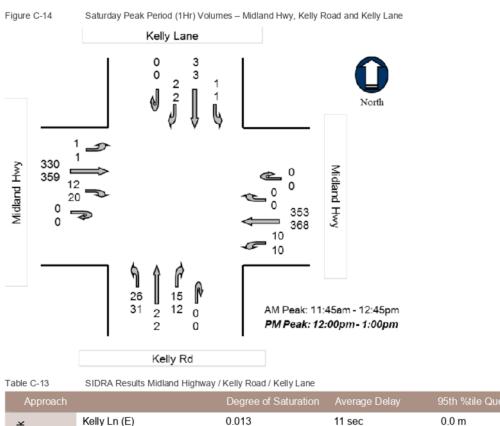
Table C-11 SIDRA Results Bannockburn-Shelford Road/Moreillon Boulevard

	Approach	Degree of Saturation	Average Delay	95th %tile Queue
ak	Moreillon Bvd (NW)	0.122	9.5 sec	0.4 m
1 Peak	Bannockburn-Shelford Rd (NE)	0.102	1.7 sec	0.2 m
AM	Bannockburn-Shelford Rd (SW)	0.193	0.5 sec	0.0 m
ak	Moreillon Bvd (NW)	0.076	9.2 sec	0.3 m
1 Peak	Bannockburn-Shelford Rd (NE)	0.201	0.9 sec	0.2 m
M	Bannockburn-Shelford Rd (SW)	0.166	0.3 sec	0.0 m

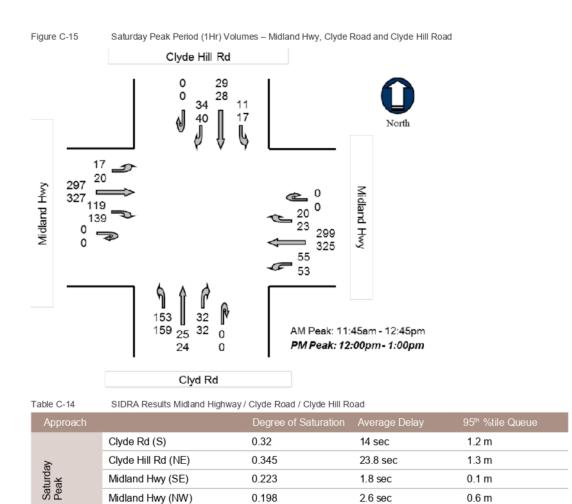
V171834 | 9 September 2019 | Commercial in Confidence

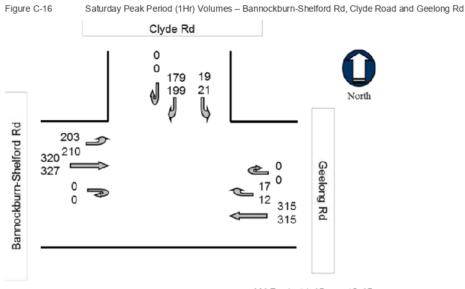






Approach		Degree of Saturation	Average Delay	95th %tile Queue
k	Kelly Ln (E)	0.013	11 sec	0.0 m
/ Peak	Kelly Road (SW)	0.089	12 sec	0.3 m
Irday	Midland Hwy (SE)	0.214	0.3 sec	0.0 m
Saturday	Midland Hwy (NW)	0.236	0.9 sec	0.3 m



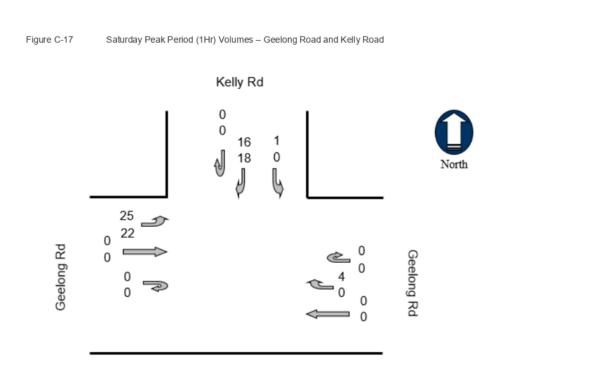


AM Peak: 11:45am - 12:45pm PM Peak: 12:00pm - 1:00pm

Table C-15 SIDRA Results Bannockburn-Shelford Road / Geelong Road / Clyde Road

	Approach	Degree of Saturation	Average Delay	95 th %tile Queue
УЕ	Clyde Rd (N)	0.427	12 sec	1.9 m
Saturday Peak	Geelong Rd (E)	0.195	5.5 sec	0.1 m
Pe	Bannockburn-Shelford Rd (SW)	0.322	5.2 sec	1.9 m

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AM Peak: 10:15am - 11:15am PM Peak: 12:00pm - 1:00pm

Table C-16	SIDRA Results Geelong R	oad / Kelly Road		
Approach		Degree of Saturation	Average Delay	95 th %tile Queue
λ _E	Kelly Rd (NE)	0.029	8.6 sec	0.1 m
Saturday Peak	Geelong Rd (E)	0.188	5.3 sec	0.0 m
Pe	Geelong Rd (SW)	0.208	4.4 sec	1.1 m

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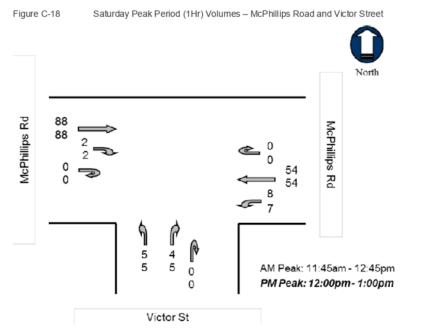
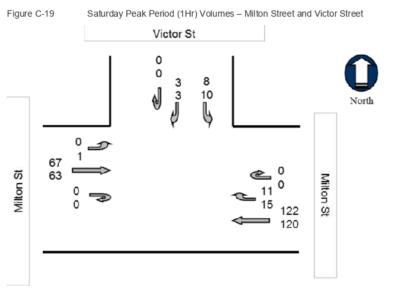


Table C-17 SIDRA Results McPhillips Road / Victor Street

Approach		Degree of Saturation	Average Delay	95 th %tile Queue
УР	Victor St (SW)	0.008	5 sec	0.0 m
Saturday Peak	McPhillips Rd (SE)	0.037	0.6 sec	0.0 m
Pe	McPhillips Rd (NW)	0.054	0.1 sec	0.0 m

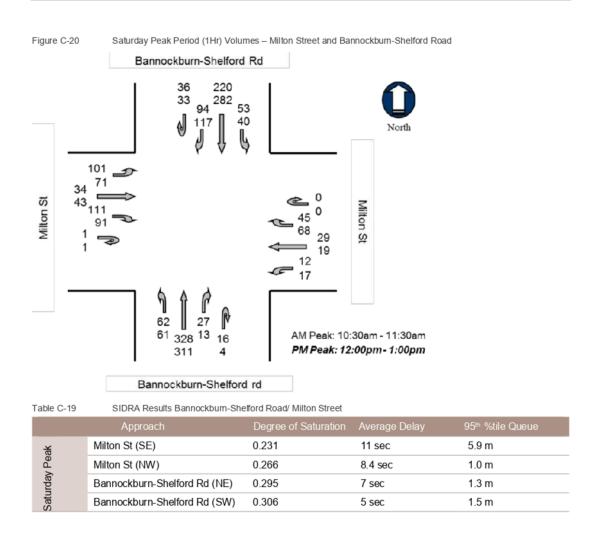


AM Peak: 11:45am - 12:45pm PM Peak: 12:00pm - 1:00pm

Table C-18 SIDRA Results Victor Street / Milton Street

Approach		Degree of Saturation	Average Delay	95 th %tile Queue
УЕ	Victor St (NE)	0.011	4.9 sec	0.0 m
Saturday Peak	Milton St (SE)	0.076	0.6 sec	0.1 m
Pe	Milton St (NW)	0.036	0.1 sec	0.0 m

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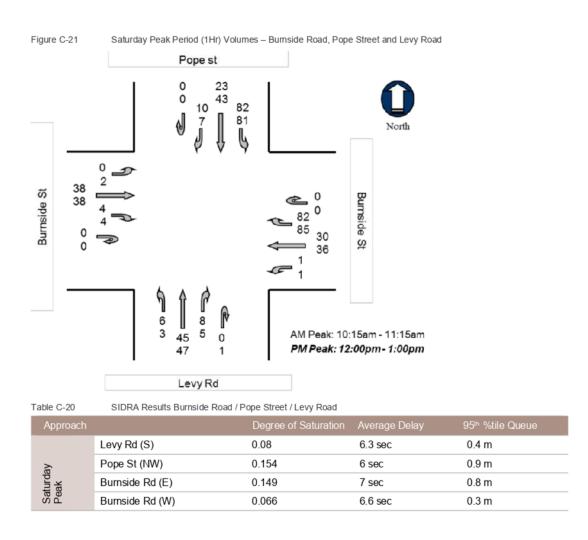
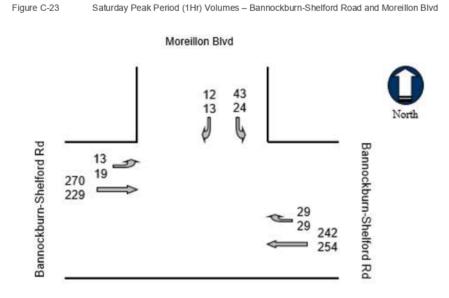


Figure C-22 Saturday Peak Period (1Hr) Volumes - Burnside Road and Bannockburn-Shelford Road Bannockburn-Shelford Rd 251 261 42 57 Burnside St 42 46 29 24 21 AM Peak: 11:00am - 12:00pm 32 282 PM Peak: 12:00pm - 1:00pm 221

Bannockburn-Shelford Rd

Т	able C-21	SIDRA Results Bannockburn-She	lford Road/ Burnside Road		
		Approach	Degree of Saturation	Average Delay	95 th %tile Queue
		Burnside Rd (SE)	0.098	8.4 sec	0.3 m
	day	Bannockburn-Shelford Rd (NE)	0.214	0.9 sec	0.0 m
	Saturday Peak	Bannockburn-Shelford Rd (SW)	0.146	1.3 sec	0.3 m

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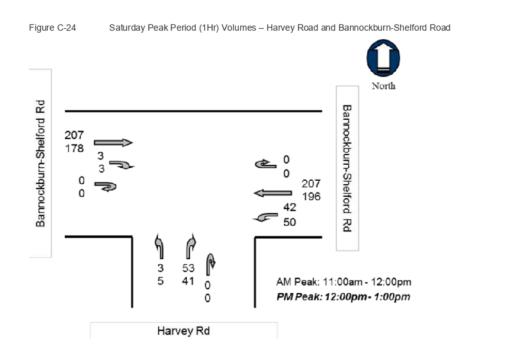


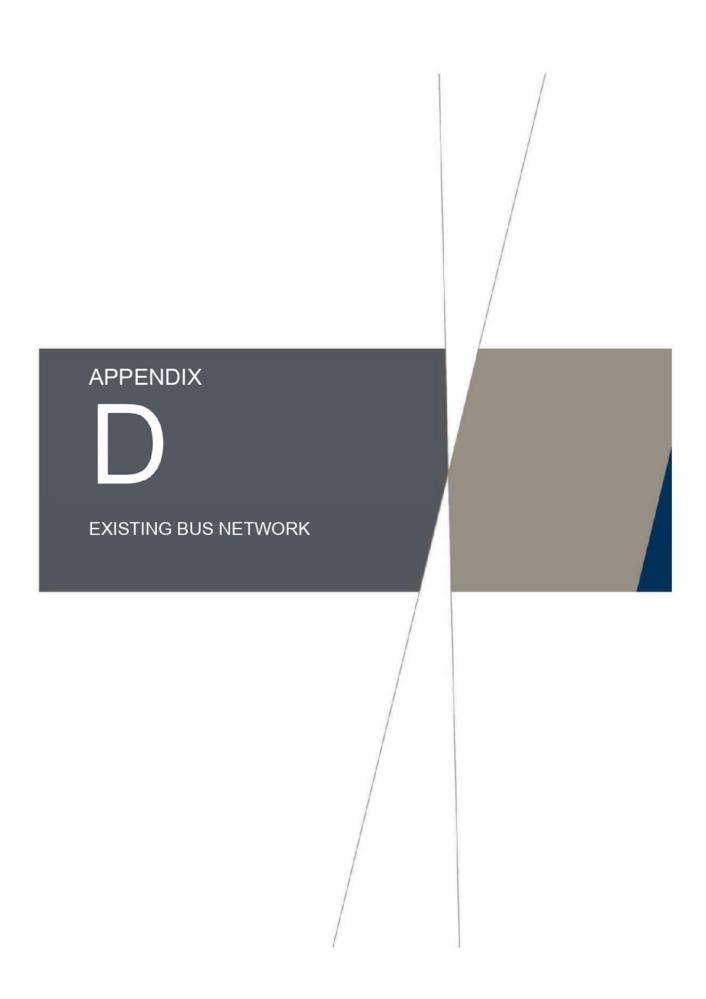
AM Peak: 10:30am - 11:30am PM Peak: 12:00pm - 1:00pm

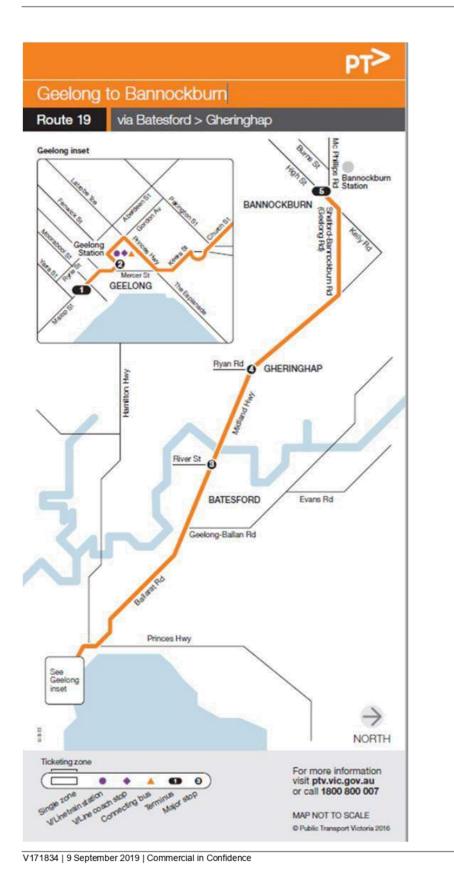
Table C-22 SIDRA Results Bannockburn-Shelford Road/Moreillon Boulevard

	Approach	Degree of Saturation	Average Delay	95th %tile Queue
	Moreillon Bvd (NW)	0.076	9.2 sec	0.3 m
Saturday Peak	Bannockburn-Shelford Rd (NE)	0.201	0.9 sec	0.2 m
Peal	Bannockburn-Shelford Rd (SW)	0.166	0.3 sec	0.0 m

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we 27/08/11

Geelong - Bendigo

- E-L

Geelong to Bendigo via Ballarat

		Monday to	Friday
Service		COACH	COACH
Service information		6	6
GEELONG STATION	depart	08.00	11.35
Bell Park		08.094	11.42
Batesford		08.15	11.49
Gheringhap		08.18	11.51
Bannockburn		08.24	12.01
Lethbridge		08.35	12.11
Meredith		08.47	12.24
Elaine		08.55	12.33
Clarendon		09.03	12.41
LaiLai		09.07	-
Yendon		09.12	
Navigators		09.16	-
Warrenheip Turn Off		09.18	-
Buninyong		-	12.51d
Sovereign Hill		-	12.59d
BALLARAT STATION	arrive	09.35	13.10
Change service		COACH	
BALLARAT STATION	depart	10.05	13.50
Creswick Novotel		10.21	-
Creswick		10.23	14.08
Croswick Station		10.26	14.12
Creswick North		10.28	-
Broomfield		10.31	10. State
Allendale		10.23	
Smeaton		10.38	
Campbelltown		10.48	
Newsteed (1)		10.59	
Newstood (2)		11.01	
Welshman's Roof		11.05	6
Maldon		11.13	-
Spring Creek (1)		11.26	
Lockwood		11.28	-
Newlyn		and the second second	14.19
Blampied		-	14.25
Daylesford		-	34.45
Guildford		-	15.05
Castlemaine Station		-	15.20
Harcourt		-	15.27
Kangaroo Flat		11.39	15.504
BENDIGO STATION	arrive	11.53	16.05

Bendigo t	o Geelong
via Ballara	it

		Mon-Fri	Mon-Thu	Friday
Service		COACH	COACH	COACH
Service information		6	6	6
BENDIGO STATION	depart	06.35	12.25	15.15
Kangaroo Flat	80-00-00-00-00-00-00-00-00-00-00-00-00-0	06.43u	12.33	15.23
Lockwood		-	12.44	15.34
Spring Creek (2)		-	12.46	15.36
Maldon			13.00	16.50
Welshman's Reef		-	13.07	15.57
Newsteed (2)		-	13.12	16.02
Newstead (1)		-	13.14	16.04
Campbelltown		a	13.24	16.14
Smeaton		-	13.36	16.26
Allondalo		-	13.40	16.30
Broomfield		-	13.42	16.32
Harcourt.		07.01	-	1000
Castlemaine Station		07.15	· · · ·	-
Guildford		07.26	-	- 10 -
Daylesford		07.55	-	-
Blampied		08.03	-	-
Nowlyn		08.05	-	
Craswick North		-	13.45d	16.354
Creswick Station		08.20	13.48	16.28
Croswick		08.30	13.51	16.41
Creswick Novotel		-	13.53	16.43
BALLARAT STATION	arrivo	09.52	14.10	17.03
Change service			COACH	
Service information			6	
BALLARAT STATION	depart	09.40	16.00	
Sovereign Hill		09.46	-	
Buninyong		09.584	-	
Warrenheip Turn Off		-	15.10	
Navigators		-	15.12	
Yendon		-	15.16	
LalLal		-	15.21	
Clarendon		10.06	15.26	A
Elaine		10.14	16.34	
Meredith		10.23	16.42	1
Lethbridge		10.35	15.54	
Bannockburn		10.47	16.05	
Gharinghap		10.53	16.11	
Batesford		10.58	16.14	
Bell Park		11.094	16.208	
GEELONG STATION	arrive	11.15	16.35	



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APPENDIX

EXISTING PARKING RESTRICTIONS

Item 7.8 - Attachment 1



Table E-1

T	T	T	200	1	1	205		1		1	805	1	ſ	Г	Π				T	T	T	T	004	Γ	Ľ	Π			Т	1	010		Γ	Г		D14	- 1	- 1	1	T	T	T	Г	Γ	Г	Г	CPM	1
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Runn Ci in Bob Ci	BULLER OF SEALS OF		Ingn of to dyree of	HIGH SEED DYTOR SE	VICTOR SI TO BUILDS SI	Victor SI to Burns St	Burns St to High St	Burns St to High St			High St to Byroa St	High St to Byron St	McPhillips Rd to Mitton St	IncPhilips Rd to Milton St			I Shops Frontage		Shops Frontage	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	COL FORK ACCESS to MILLIN SI		Car Park Access to Milton St		Mitton St to School Crossing		Million St to School Crossing	High St Service Rd School Crossing to Pope St	Echaol Crossing to Pepe St	MCATING'S HO TO CHINESE HE ACCASE	MCPTINDS Hd to Service Hd Access	Carrying hid Access to Materia of	5 Mitton St to Service Rd Access			I Mitton St to Service Rd Access	Service Rd Access to Pope st	Service Rd Access to Pope st	McPhilips Hd to Mitton St	McPhilips Rd to Million St	NIGOT SI ID POPE SI	Routh of Brobilling Dr	t (Woolworth's Car Park (North)		k [Weohworth's Car Park (South)		k Crn of Mitton St Byron St	
- Horth	Courter	1000	NOT	SOUTH	MONTH	South	North	South			North	South	West	East			West		East	1	west.		East		West		East	West		WER	East	Fail	West			East	West	East	West	East	Vest	-						
Type -	Province of the second	VIII CONCERNING	Ourcestrotoo	Unrestricted	Unrestricted	Unrestricted	Urestricted	Bus Zone	Unrestricted	Disabled	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Loading Zone	2P	1/2P	Loading Zone	Disebled	1104	Unrestricted	Distriad	20	Unrestricted	Disabled	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestructed	20	Unrestruted	No Standing	Unrestricted	Disabled	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted	[Investigation	Disabled	Unrestricted	Dischied	Urestricted	Disabled	Unrestricted
Times																Burns St Resident Excepted					Unrestroted	CORRECT ONDER REP. CORRECTION	Sam-5.30pm ki-F, Sam-1pm Sat								Gam-5/30pm ki-r, 3am-1pm 5at		CFA															
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Car Parking Occupancy Survey Results (Thursday 1st March 2018)

V171834 | 9 September 2019 | Commercial in Confidence

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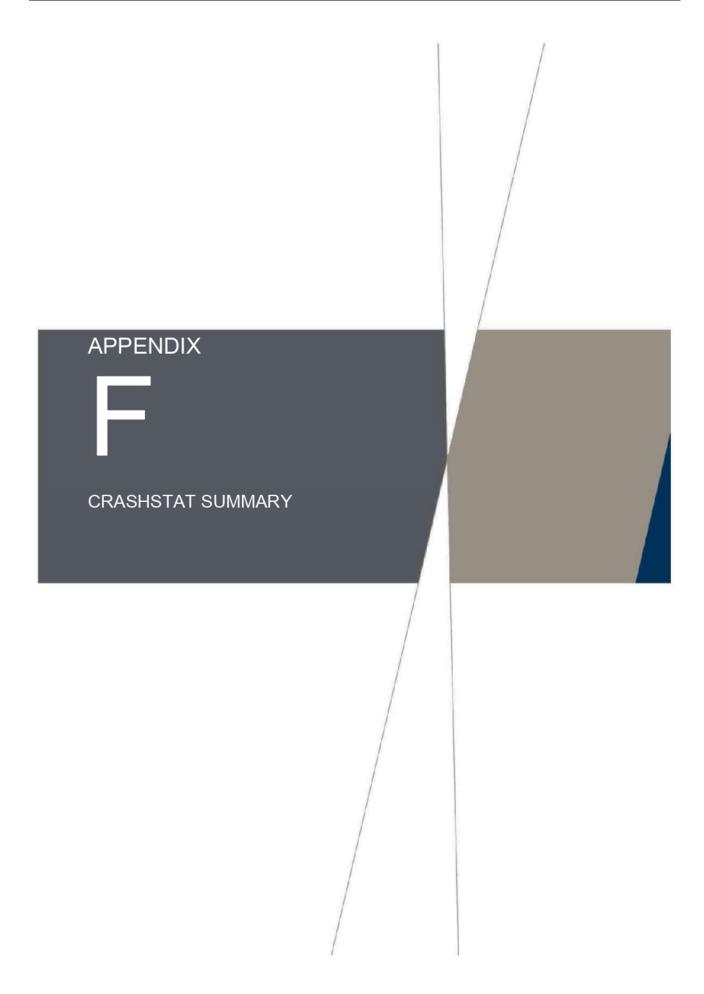
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Table E-2 Car Parking Duration Survey Results (Thursday 1st March 2018)

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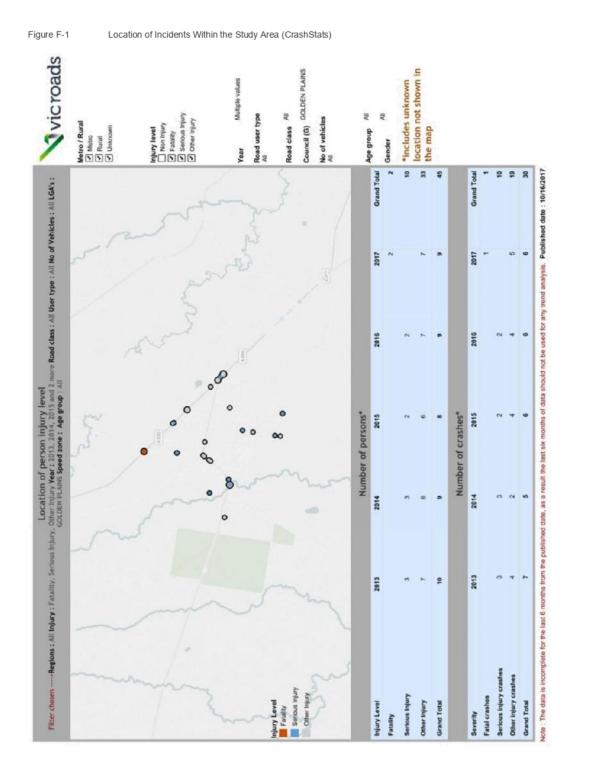


Date	Road Name	Road Class	Intersection	Crash type	No. of persons killed	No. of persons No. of people killed injured	DCA Code	DCA Code DCA Description	Accident no.
23/04/2013	23/64/2013 Midland Highway		Geelong Road	Collision with vehicle			130	130 REAR END(VEHICLES IN SAME LANE)	720130010000
23/04/2013	23/04/2013 Midland Highway		Madden Road	Collision with vehicle			2 120	120(HEAD ON (NOT OVERTAKING)	720130008359
7/05/2013	7/05/2013 Midland Highway		Madden Road	Collision with vehicle			3 130	130 REAR END(VEHICLES IN SAME LANE)	T20130009405
24/05/2013	24/C5/2013 Moreilion Boulevarde		Sunset Way	Collision with a fixed object			1 149	145 OTHER MANOEUVRING NOT INCLUDED IN DCA5 140-148	T20130010818
8/07/2013	8/07/2013 Geelong Road		Gillett Street	Collision with vehicle			1 120	120 HEAD ON (NOT OVERTAKING)	720130014131
2/11/2013	2/11/2013 Burnside Road		Glen åvon Drive	Collision with a fixed object	-		175	175 OFF END OF ROAD/T-INTERSECTION.	720130023427
19/11/2013	19/11/2013 Midland Highway		Geelong Road	Collision with vehicle			1 130	130 REAR END(VEHICLES IN SAME LANE)	T20130024025
2/02/2014	2/02/2014 Garonne Drive		Knights Park Crescent	No collision and no object struck			1 174	124 OUT OF CONTROL ON CARRIAGEWAY (ON STRAIGHT)	120140003941
13/06/2014	13/06/2014 Bannockburn-Shelford Road		Bruce Street	Collision with vehicle	-		120	120 HEAD ON (NOT OVERTAKING)	120140012262
10/08/2014	10/08/2014 Geelong Road - High Street		McPhillips Road	Collision with vehicle			111 111	111 RIGHT FAR (INTERSECTIONS ONLY)	720140016681
18/08/2014	18/08/2014 Midland Highway		Kelly Lane	Collision with vehicle			1 120	120[HEAD ON (NOT OVERTAKING)	T20140017094
21/12/2014	21/12/2014 Clyde Road		Lowndes Road	Collision with vehicle	-	-	2 110	110 CROSS TRAFFIC (INTERSECTIONS ONLY)	720140026489
23/02/2015	23/02/2015 Guinane Court		Holder Road	Vehicle overturned (no collision)	-		1 145	149 OTHER MANOEUVRING NOT INCLUDED IN DCAS 140-143	720150003531
3/03/2015	3/03/2015 Midland Highway		Kelly Lane	Collision with vehicle			1 120	120[HEAD ON (NOT OVERTAKING)	720150004513
4/04/2015	4/04/2015 Geelong Road		Clyde Road	Collision with vehicle			1 147	147 VEHICLE STRIKES ANOTHER VEH WHILE EMERGING FROM DRIVEWAY	720150007530
6/09/2015	6/05/2015 Glen Avon Drive		Macrossan Avenue	No collision and no object struck			2 179	179 OTHER ACCIDENTS-OFF STRAIGHT NOT INCLUDED IN DCAs 170-175	720150018547
12/05/2015	12/05/2015 Midland Highway		Geelong Road	Collision with vehicle	-		111 5	111 RIGHT FAR (INTERSECTIONS ONLY)	720150019008
27/10/2015	27/10/2015 Burnside Road		Yverdon Drive	Collision with a fixed object	-		1 181	181 OFF RIGHT BEND INTO OBJECT/PARKED VEHICLE	120150022200
25/05/2016 High Street	High Street		Milton Street	Collision with vehicle	-		1 110	110 CROSS TRAFFIC (INTERSECTIONS ONLY)	720150011939
38/02/2018	28/05/2016 Morellion Boulevarde		Bannockburn-Shelford Road	No collision and no object struck	-		2 170	170 OFF CARRIAGEWAY TO LEFT	120160011722
3/02/2016	7/07/2016 High Street		High Street	Collision with a fixed object			1 146	146 REVERSING INTO FIXED OBJECT/PARKED VEHICLE	120150014803
11/12/2016	11/12/2016 Midland Highway		Kelly Road	Collision with vehicle			2 130	130 REAR END(VEHICLES IN SAME LANE)	720150026741
12/04/2017	12/04/2017 Midfand Highway		Clyde Road	Collision with vehicle			2 110	110 CROSS TRAFFIC(INTERSECTIONS ONLY)	720170007426
15/05/2017	15/05/2017 Burnside Road		Charlton Road	Collision with vehicle			1 111	111 RIGHT FAR (INTERSECTIONS ONLY)	720170009519
4/06/2017	4/06/2017 Glen Avon Drive		n/a	Collision with a fixed object			1 171	171 LEFT OFF CARRIAGEWAY INTO OBJECT/PARKED VEHICLE	T20170010526
16/06/2017	16/06/2017 Midland Highway		Madden Road	Collision with vehicle			1 130	130 REAR END(VEHICLES IN SAME LANE)	T20170015690
				Total	1	M	85		

Table F-1

Summary of CrashStats Data

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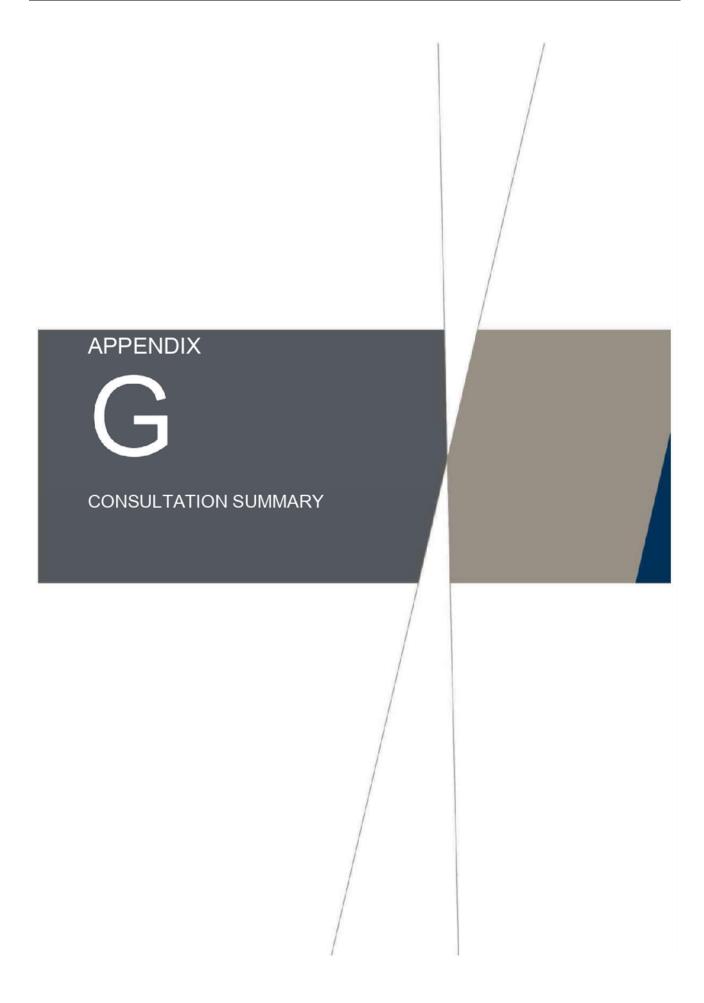


DCA Categories

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Figure F-2

V171834 | 9 September 2019 | Commercial in Confidence



V171834 | 9 September 2019 | Commercial in Confidence

Memo



Project No: V171834 Project:

Date: 29 August 2018

Bannockburn Transport Strategy

Subject: Summary of Community and Stakeholder Consultation

To: Angela Vary	Company: Golden Plains Shire Counc	il Email/Fax: avary@gplains.vic.gov.au
From: Hugo Nicholls	Phone: 03 9831 6151	Email: hugo.nicholls@cardno.com.au
CC Attention	Company	Email/Fax
Alicia te Wierik	Golden Plains Shire Council	atewierik@gplains.vic.gov.au
Melissa Blyton	Golden Plains Shire Council	mblyton@gplains.vic.gov.au
🗌 Urgent 🗌 For you	ur review 🗌 Reply ASAP 🗌	Please comment 🛛 Original in mail
Attachments: 🛛 Commun	ity Consultation Materials	

Cardno was engaged by Golden Plains Shire Council to assist in the preparation of a Transport Strategy for Bannockburn, which is being undertaken in response to a rapidly growing population and subsequent need for a coordinated transport network plan. The Strategy will outline the required infrastructure and network upgrades to support the expected population growth in Bannockburn over the next 15 to 20 years.

As part of the engagement, Cardno has undertaken a series of community and stakeholder consultation stages and exercises to understand the issues and opportunities within the local transport network in Bannockburn. The following presents a summary of the consultation works undertaken to date.

Community Consultation

Understanding the Issues

The first stage of community consultation was undertaken to collect feedback from the community regarding the existing transport network issues within Bannockburn. A letter and survey were sent via post to all residents and businesses within the study area in April 2018, and an online version of the survey was made available from 30 April 2018 until 2 June 2018 (relevant materials have been appended to this report). The survey asked community members to nominate locations where they have noted issues and advise whether it was not an issue, a minor issue or a major issue, and provide any suggestions to overcome the issues they have noted.

A total of 193 online survey responses and 101 letter survey responses were received by 2 June 2018. A summary of the collated findings from the online survey is presented below.

Online Surveys

In response to Question 1: Overall, which streets / intersections in Bannockburn are of most concern to you? Please tick up to THREE options, the following responses were noted:

- Geelong Rd/Kelly Rd/Clyde Rd/Bannockburn-Shelford Rd was selected the most (157), followed by 0 Clyde Rd/Midland Hwy (65) and Geelong Road between Midland Hwy and Bannockburn-Shelford Road (52)
- Charlton Road west of Burnside Road (1), Victor St/McPhillips Rd (1) and Charlton Rd/Levy Rd (2) 0 received the lowest amount of selections.
- 'Other' was selected as an option 49 times. 0

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29 August 2018

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Bannockburn Transport Strategy – Summary of Community and Stakeholder Consultation Memo

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The following table presents a summary of the traffic-related responses recorded in Part B of Question 2.

т	Table 1 Question 2 B) Responses					
	Category	Not an issue	Minor issue	Major issue	TOTAL	
	Traffic speed	37	52	68	157	
	Traffic Volume	45	34	70	149	
	Through Traffic	52	26	60	138	
	Heavy Vehicle Traffic	44	31	79	154	
	Unsafe Location	51	13	79	143	
	TOTAL	229	156	356	741	

In summary, the highest proportion of responses were noted as a 'major issue' across all categories, most notably in the 'unsafe location' category.

Table 2 presents a summary of the responses to Part B of Question 3.

Т	Table 2 Question 3 B) Responses					
	Category	Not an issue	Minor issue	Major issue	TOTAL	
	Lack of Pedestrian Crossings	44	40	45	129	
	Lack of On-Road Bicycle Facilities	55	30	37	122	
	Lack of Off-Road Bicycle/Shared Facilities	52	28	40	120	
	Unsafe Crossing Points	38	31	68	137	
	TOTAL	189	129	190	508	

Across the categories, a relatively even distribution was recorded for 'not an issue', 'minor issue' and 'major issue' responses. In the lack of bicycle facilities categories, the highest proportion of responses were noted as 'not an issue', whilst in the pedestrian facilities categories, 'major issue' represented the highest proportion.

Table 3 presents a summary of the responses relating to car parking, within Part B of Question 4.

Table 3	Question 4 B) Responses				
Category		Not an issue	Minor issue	Major issue	TOTAL
Car Parking	Overflow into Local Streets	71	28	21	120
Informal Car	Parking Areas	76	21	13	110
Lack of park	ing for large vehicles	61	31	30	122
Inappropriat	e car parking	69	19	23	111
TOTAL		277	99	87	463

Evidently, the majority of responses noted car parking as 'not an issue' across all categories. The highest number of 'major issue' responses was recorded for a lack of parking for large vehicles, however this represents just 25% of the total responses for this category.

29 August 2018

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Bannockburn Transport Strategy – Summary of Community and Stakeholder Consultation Memo

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The responses for Question 5 B) have been summarised in Table 4 below.

Table 4 Question 5 B) Responses					
	Category	Not an issue	Minor issue	Major issue	TOTAL
	Lack of bus services	20	24	107	151
	Lack of bus route connectivity	26	26	74	126
	Bus stop accessibility and condition	39	34	54	127
	Distance to bus stops / services	38	34	58	130
	TOTAL	123	118	293	534

The majority of responses recorded a 'major issue', notably in the lack of bus services and lack of route connectivity categories – notably all categories recorded 'major issue' as having the highest proportion of responses.

Community Day

Following the collection of the survey data, the second stage of community consultation was undertaken to understand the community's prioritisation of the major issues noted in the first stage of consultation. A 'Community Day' public drop-in session was undertaken on Wednesday 11 July 2018 from 10:00am to 4:00pm, where Council and Cardno staff were available to discuss and explain the project scope and invite community members to partake in an interactive feedback activity.

The activity used large aerial images of the locations / issues that received the most feedback during the first stage of consultation – community members were asked to place stickers within a table indicating whether they thought the issue should be addressed as soon as possible (red dots), should be addressed at some stage (yellow dots), or does not need to be addressed (blue dots). Feedback forms were also available to record any additional feedback that community members had during the session.

The following represents a summary of the interactive drop-in session findings:

- Approximately 50 members of the community participated in the session.
- A total of 453 dots were recorded, split into 338 'very concerned', 42 'somewhat concerned' and 73 'not concerned' dots.
- The locations that received the highest number of 'very concerned' dots were:
 - Geelong Rd/Kelly Rd/Clyde Rd/Bannockbum Shelford Rd intersection (114 dots), with poor sight distance receiving the highest no. of very concerned dots (37 dots).
 - Geelong Road between Midland Highway and Railway Crossing (47 dots), with volumes of heavy vehicles receiving the highest no. of very concerned dots (14 dots).
 - Clyde Road / Midland Highway intersection (46 dots), with volumes of heavy vehicles receiving the highest no. of very concerned dots (18 dots).
 - The issues that received the highest number of very concerned dots were:
 - High speed vehicles (86 dots).
 - Volumes of heavy vehicles (74 dots).
 - Poor sight distance (64 dots).

Stakeholder Consultation

In addition to undertaking consultation with the community, key stakeholders have also been consulted in the early stages of the development of the Bannockburn Transport Strategy.

The first stage of stakeholder consultation was undertaken to collect knowledge and understand the key issues and opportunities from the perspective of the stakeholders. An inception meeting was held at Golden Plains Shire Council with a range of Council departments to collect information and understand who the key stakeholders are. The list presented in

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²⁹ August 2018

e 5 Key Stakeholders	
takeholder Category	Identified Stakeholder
tate Authority / Organisation	VicRoads Southwestern Region
	Transport for Victoria (TfV)
	Public Transport Victoria (PTV)
	VLine
	VicTrack
	Department of Education
	Transport Accident Commission (TAC)
ocal Authority / Organisation	Golden Plains Shire Council (GPSC)
	Catholic School
	Bannockburn P-12 School
	Bannockburn Library
	Bannockburn Chamber of Commerce
	Local Freight Industry Groups
	Country Fire Authority (CFA)
	State Emergency Service (SES)
	Ambulance Victoria
	Victoria Police
	Ballarat Environment Network
	Access and Inclusion
	Local School Buses
	McHarrys Bus Services Geelong
	Gold Bus Ballarat
	Bannockburn Nursing Home
ocal Sporting / Recreation / Hobby	Groups YMCA Geelong
	Bannockburn Football/Netball Club
	Golden Plains Hockey Club
	Golden Plains Soccer Club
	Bannockburn Tennis Club
	Bannockburn Auskick
	Bannockburn Cricket Club
	Skate / Scooter Youth Groups
	Bannockburn Park Run
	Bannockburn and District Riders and Runners
	Bannockburn Community Planning
	Bannockburn Trailblazer Walking Group
	Bannockburn Senior Citizens Group
	Friends of Bannockburn Bush
	Bannockburn Men's Shed

An email was sent to the stakeholders to invite their participation in the formation of the strategy. The following sections present a summary of the responses to date.

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Bannockburn Transport Strategy - Summary of Community and Stakeholder Consultation Memo

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VicRoads

Cardno and Council attended a meeting with VicRoads and Transport for Victoria on Friday 6 July 2018 to understand the existing knowledge base of the arterial road network in Bannockburn. Two key projects were identified:

- 1. Clyde Road / Midland Highway Intersection Upgrade: a funded project to install a roundabout at the intersection, estimated to begin construction in early 2020.
- 2. Geelong Road / Bannockburn-Shelford Road / Clyde Road / Kelly Road Intersection Upgrade: an identified project which has been earmarked for upgrade to a roundabout, however no funding has been committed.

A key outcome of this meeting was to involve VicRoads in the next stage of community consultation, in order to gauge the community's response to the two projects outlined above.

PTV / TfV

A response was received from representatives at Transport for Victoria, who indicated their support for the project and willingness to be involved during the development of the strategy

V/Line

A response was received from a representative at V/Line, who indicated the following key points in relation to the project:

- There are currently no plans to increase the current road coach service frequency through Bannockburn in the foreseeable future
- We also have had no feedback from the coach operators to indicate that they have any problems with the current access arrangements for the coaches.
- As far as the reinstatement of the rail services between Geelong and Ballarat is not part of any of the RRR projects now or into the future and the changing of the rail gauge between Geelong and Ballarat to purely standard gauge as part of the Murray Basin Project will make the return of passenger rail more difficult into the future given the V/Line fleet is primarily broad gauge.

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Bannockburn Transport Strategy

Traffic Modelling Report

V171834

Prepared for Golden Plains Shire

09/09/2019





Contact Information	Document Information		
Cardno Victoria Pty Ltd ABN 47 106 610 913	Prepared for	Golden Plains Shire	
ADIN 41 100 010 913	Project Name	Traffic Modelling Report	
Level 4 501 Swanston Street	File Reference	V171834	
Melbourne 3000	Job Reference	V171834	
Australia	Date	9 September 2019	
www.cardno.com Phone +61 3 8415 7777 Fax +61 3 8415 7788	Version Number	D05	
Author(s):			
Luke Smith Senior Traffic Engineer	Effective Date	9/09/2019	
Approved By:			
Matt Mudge Transport Planner	Date Approved	9/09/2019	

Document History

Version	Effective Date	Description of Revision	Prepared by	Reviewed by
D01	22/10/2018	Draft for Information	Luke Smith	Matt Mudge
D02	08/11/2018	Draft Version 2	Luke Smith	Matt Mudge
D03	13/11/2018	Draft Version 3	Luke Smith	Matt Mudge
D04	18/02/2019	Draft Version 4	Luke Smith	Matt Mudge
D05	21/03/2019	Draft Version 5	Luke Smith	Matt Mudge
F01	02/09/2019	Final Version 1	Luke Smith	Matt Mudge
F02	09/09/2019	Final Version 1	Luke Smith	Matt Mudge

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1 Traffic Modelling Overview

1.1 Introduction

Cardno has been commissioned to develop Transport Strategies for Traffic Management, Car Parking, and Sustainable Transport within Bannockburn Growth Area.

A key element in determining potential future road network issues and requirements due to future residential and commercial development in Bannockburn is gaining an understanding of future traffic flows and intersection performance resulting from this development.

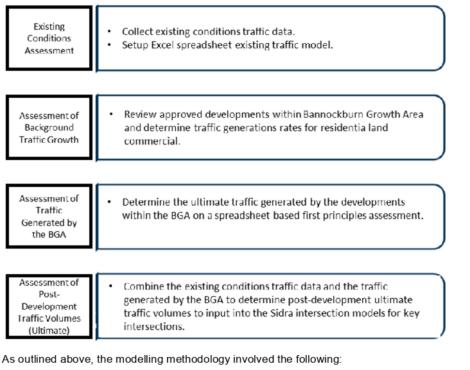
Cardno has developed a first principles spreadsheet model to estimate these future year traffic flows and intersection turning movements for analysis using the SIDRA intersection modelling software. This intersection modelling has allowed us to determine which intersections will require future improvements and assist in determining the nature of these improvements.

1.2 Modelling Methodology

The modelling methodology adopted for this study uses strategic modelling to assess the background traffic growth and first principles spreadsheet modelling to assess the traffic generated by the development of the of the Bannockburn Growth Area. The strategic modelling component of the methodology entailed using

The modelling approach for assessing the ultimate (2036) traffic volumes on the road network is outlined in below.

Figure 1-1 Modelling Methodology



- 1. Assessing the current traffic volumes on the existing road network.
- 2. Assess the future proposed residential and commercial developments within the Bannockburn Growth Area to determine traffic generation rates.
- 3. Determine the traffic generated by residential and commercial developments within Bannockburn town Centre. .

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4. Combine the existing traffic volumes and the traffic generated by the Bannockburn growth Area to obtain "post-development" traffic volumes for the ultimate (2036) traffic scenario.

1.3 Assessment of Existing Traffic Volumes

Existing conditions traffic data was sourced from various sources to inform the excel traffic model for the Bannockburn Growth Area and subsequent Bannockburn Transport Strategy. These sources included Cardno collected turning movement counts and speed / volume surveys traffic survey data.

1.4 Modelling Assumptions

The following assumptions were used in regard to the ultimate (2036) development scenario:

- 1. 100% of the Bannockburn Growth Area has been fully developed.
- 2. No changes to the existing road network has occurred between the time the existing conditions were surveyed and the 2036 modelling year.
- 3. The traffic generation rates taken from the RMS Guide to Traffic Generating Developments do not change between 2013 and 2036.
- 4. Whilst this Bannockburn Transport Strategy will recommend further investigations on additional strategic road network access proposals, this traffic modelling exercise assumes that proposals of this nature have not been implemented. These include but may not be limited to:
 - Alternative access across the railway line to Midland Highway;
 - Improvements to Burnside Road south of the Bannockburn Urban Design Investigation Area; or
 - Heavy vehicle bypass options.

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2 Land Use Inputs

Precinct demographic data for the Bannockburn Growth Area was sourced from the Bannockburn Town Centre Investment Strategy and Bannockburn Urban Design Framework in relation to the ultimate development scenario.

2.1 Commercial Land Use

Bannockburn Town Centre Investment Strategy sets out future commercial and retail land use sizes and allocates Gross Floor Area (GFA) to blocks within the Bannockburn Town Centre. The below figures illustrate the proposed locations and sizes of the commercial and retails blocks. Furthermore, the below figure highlights the nominal ultimate commercial and retail land use GFA's

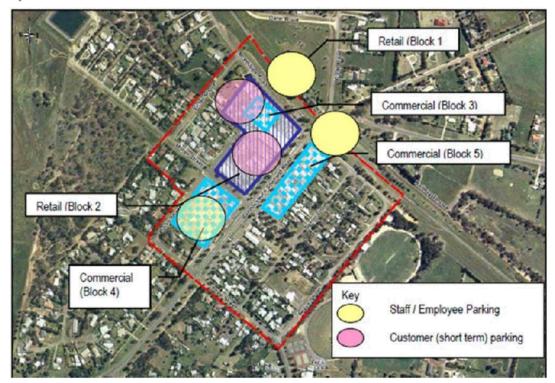


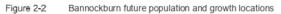
Figure 2-1 Ultimate commercial and retail block locations

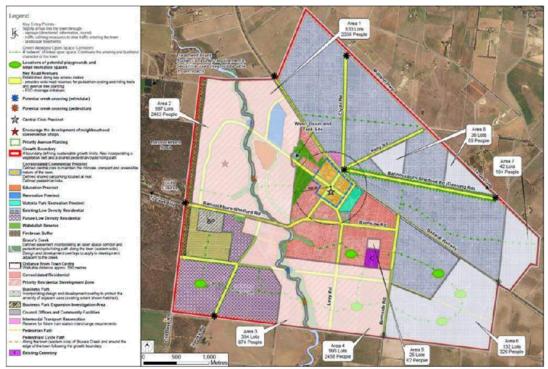
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Use	Total Gross Buildable Floor Area
Retail (Block 1)	8750sq.m
Retail (Block 2)	5450sq.m
Total Retail	14,200sq.m
Commercial (Block 3)	4500sq.m
Commercial (Block 4)	8175sq.m
Commercial (Block 5)	5300sq.m
Total Commercial	17,975sq.m
Total Commercial and Retail	32,175sq.m

2.2 Residential Land Use

Bannockburn Urban Design Framework sets out areas within Bannockburn Growth Area for high, medium and low density suburbs to accommodate future population growth within Bannockburn. There is also additional scope for increased densities at strategic locations near schools and recreation facilities. The capacity of Bannockburn's future population and growth locations are illustrated and summarised in below.





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Item 7.8 - Attachment 1

Location	Use	Lots	People
Area 1	Residential Low Density	483*	1,193
Area 2	Residential Low Density	997	2,463
Area 3	Residential Low Density	354	674
Area 4	Residential Low Density	995	2,458
Area 5	Residential Low Density	25	62
Area 6	Residential Low Density	26*	64
Area 7	Residential Low Density	42	104
Area 8	Residential Low Density	36	89
	Total	2,958	7,107

Table 2-2 Summary of population growth and areas

* The number of lots has been adjusted from Figure 2-2 to reflect the existing housing growth which has occurred within residential growth areas 1 and 6, with forecast lot growth reduced by 42% and 80% respectively.

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3 Assessment of the Bannockburn Growth Area Traffic Generation Rates

3.1 Overview

The Bannockburn Growth Area assessment involved applying traffic generation rates to the proposed land uses and distributing the trips onto the wider road network. The following subsections discuss the adopted traffic generation rates and the traffic distribution methodology.

3.2 Adopted Traffic Generation Rates

The adopted traffic generation rates for the various proposed land uses have been sourced from rates taken from the New South Wales Roads and Maritime Services (RMS) "Guide to Traffic Generating Developments" document. The rates adopted for the various land uses are outlined in the following subsections.

3.2.1 Residential Dwellings

The RMS guide suggests an average peak hour trip rate of 0.78 trips per dwelling and a maximum of 0.9 trips per dwelling in regional areas for low density residential in the PM peak hour and 0.71 trips and a maximum 0.85 in the AM peak hour. To determine a trip rate per dwelling to be used within the Bannockburn Transport Study for future growth, an assessment was made on developments within the RMS guide which had attributes similar to the Bannockburn Growth Area. The below table shows the size and location of the developments assessed within the RMS "Guide to Traffic Generating Developments".

Table 3-1 Assessed low density residential developments taken from RMS "Guide to Traffic Generating Developments"

Location	Goonellabah	Calare	Glenfield Park
No, of Dwellings	556	697	554
Population	1378	2037	1391
Peak vehicle trips Per Dwelling	0.8	0.97	0.87

Based on the above traffic generation assessment Cardno has adopted a traffic generation rate of 0.85 trips per dwelling in the AM peak hour and 0.9 trips per dwelling in the PM peak hour. Cardno has adopted the maximum traffic generation rate for the AM and PM peak periods due to Bannockburn having limited access to public and active transport and high car dependency.

3.2.2 Commercial Office

The RMS guide suggests a morning AM peak hour vehicle trip rate of 1.6 trips per 100 SQM of gross floor area for office blocks and 1.2 trips per 100 SQM of gross floor area in the afternoon PM peak hour. To determine a trip rate per 100 SQM of gross floor area to be used within the Bannockburn Growth Area for future growth an assessment was made on developments within the RMS guide which had attributes similar to Bannockburn. The below table shows the size and location of the developments assessed within the RMS "Guide to Traffic Generating Developments".

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Location	Norwest	Newcastle	Wollongong
Size (sqm)	1200	12182	12921
Weekday AM Peak Hour			
Trips	34	172	158
Trips/100m2 GFA	2.83	1.41	1.22
Weekday PM Peak Hour			
Trips	14	139	100
Trips/100m2 GFA	1.17	1.57	0.99

Table 3-2 Assessed regional office developments taken from RMS "Guide to Traffic Generating Developments"

Based on the above trips generated per 100 SQM of gross floor area for each of the assessed office developments an average rate of trips per AM and PM peak hour can be determined. The average AM and PM peak hour trips generated for the office development are summarised below.

Table 3-3 Regional office developments taken from RMS "Guide to Traffic Generating Developments" average traffic generation rates

Calculated Traffic Generation Rates for Rural Office Developments				
Time Calculated Rate				
Weekday AM Peak	1.82			
Weekday PM Peak 1.24				

The summarised results in above indicate an AM peak hour traffic generation rate of 1.82 vehicle trips per 100 SQM of gross floor area and 1.24 vehicle trips per 100 SQM in the PM peak hour.

Cardno will be adopting the above traffic generation rates for commercial office within this study.

3.2.3 Retail

Based on the nature of the Bannockburn Growth Area and the mixture of retail uses, Cardno has undertaken an assessment of the retail component of the Bannockburn Town Centre developments based on a shopping centre traffic generation rate.

The New South Wales Roads and Maritime Services (RMS) "Guide to Traffic Generating Developments" conducted extensive surveys of shopping centres in 2011 involving ten large shopping centres, seven in the Sydney metropolitan area and one each at Mittagong, Shellharbour and Tuggerah. Peak hour trip generation rates are as follows.

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Penge in Total Elect	Peak Hour G	eneration Rate	(vehicles per 1	00m ² GLFA)
Range in Total Floor Area (GLFA – m ²)	Thursday (V(P)/A)	Friday (V(P)/A)	Saturday PVT (A)	Sunday
0 - 10,000	12.3	12.5	16.3	
10,000 - 20,000	7.6 (6.2)	6.2 (6.7)	7.5 (7.5)	(6.6)
20,000 - 30,000	5.9 (6.0)	5.6 (5.9)	7.5 (7.0)	(6.3)
30,000 - 40,000	4.6	3.7	6.1	
40,000 - 70,000	(4.4)	(4.4)	(5.5)	(4.6)
70,000+	(3.1)	(4.0)	(3.6)	(3.2)

Table 3-4 RMS "Guide to Traffic Generating Developments shopping centre traffic generation rates

* Figures in brackets refer to 2011 surveys.

In order to assess the likely traffic generation of the Bannockburn Growth Area, Cardno will assume each block operates as one large shopping precinct for the ultimate case. When applying a traffic generation rate for retail, Cardno will be utilising the 2011 Thursday and Saturday peak hour traffic generation rates in the table above and applying a rate based on the total commercial gross floor area for the Bannockburn Growth Area as also shown above.

Based on the total commercial gross floor areas calculated for the Bannockburn Growth Area above (32,175sqm), the adopted traffic generation rates per 100sqm of gross floor area that Cardno will utilise within this study is as follows.

Table 3-5 Ultimate case adopted retail traffic generation rates /100sqm GFA

Traffic Generation Rate / 100sqm GFA					
Weekday AM Peak Weekday PM Peak Saturday Peak					
4.6	4.6	6.1			

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4 Traffic Generation and Distribution

4.1 Ultimate Case Traffic Generation

Cardno sourced the ultimate case developments proposed for the Bannockburn Growth Area including residential and commercial from the Bannockburn Urban Design Framework and the Town Centre Investment Strategy.

In order to model the ultimate case traffic generation Cardno, in conjunction with Golden Plains Shire Council determined the commercial use splits between retail and office for the ultimate case to apply traffic generation rates to obtain ultimate traffic generation volumes. The determined splits per commercial block are as follows.

Block	Commercial Use		
	Office	Retail	Total
Retail Block 1	20%	80%	100%
Retail Block 2	20%	80%	100%
Commercial Block 3	10%	90%	100%
Commercial Block 4	30%	70%	100%
Commercial Block 5	30%	70%	100%

Table 4-1 Ultimate case commercial land use split per block

By applying the above commercial use splits to the ultimate development scenario, Cardno calculated the ultimate commercial GFA for the Bannockburn growth Area. The ultimate commercial GFA's per use are highlighted below.

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Table 4-2	Ultimate case commercial GFA's

Location	Use	Total (GFA)
Block 1	Commercial (GFA SQM)	8750
	Commercial (Office SQM)	1750
	Commercial (Retail SQM)	7000
	Commercial (Supermarket SQM)	0
Block 2	Commercial (GFA SQM)	5450
	Commercial (Office SQM)	1090
	Commercial (Retail SQM)	4360
	Commercial (Supermarket SQM)	0
Block 3	Commercial (GFA SQM)	4500
	Commercial (Office SQM)	450
	Commercial (Retail SQM)	0
	Commercial (Supermarket SQM)	4050
Block 4	Commercial (GFA SQM)	8175
	Commercial (Office SQM)	2453
	Commercial (Retail SQM)	5723
	Commercial (Supermarket SQM)	0
Block 5	Commercial (GFA SQM)	5300
	Commercial (Office SQM)	1590
	Commercial (Retail SQM)	3710
	Commercial (Supermarket SQM)	0

Based on the adopted traffic generation rates and applying the adopted rates to the proposed residential developments and commercial developments, the resulting peak hour traffic generations for the Bannockburn Growth Area are summarised below.

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Ultimate AM Peak Hour Traffic Generated						
Location	Residential	Office	Retail	Supermarket	Total	
Block 1	0	32	322	0	354	
Block 2	0	20	201	0	220	
Block 3	0	8	0	186	194	
Block 4	0	45	263	0	308	
Block 5	0	29	171	0	200	
Area 1	411	0	0	0	411	
Area 2	847	0	0	0	847	
Area 3	301	0	0	0	301	
Area 4	846	0	0	0	846	
Area 5	21	0	0	0	21	
Area 6	22	0	0	0	22	
Area 7	36	0	0	0	36	
Area 8	31	0	0	0	31	

Table 4-3 Ultimate weekday AM peak hour traffic generation

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Ultimate	Ultimate PM Peak Hour Traffic Generated					
Location	Residential	Office	Retail	Supermarket	Total	
Block 1	0	22	322	0	344	
Block 2	0	14	201	0	214	
Block 3	0	6	0	186	192	
Block 4	0	30	263	0	294	
Block 5	0	20	171	0	190	
Area 1	435	0	0	0	435	
Area 2	897	0	0	0	897	
Area 3	319	0	0	0	319	
Area 4	896	0	0	0	896	
Area 5	23	0	0	0	23	
Area 6	24	0	0	0	24	
Area 7	38	0	0	0	38	
Area 8	32	0	0	0	32	

Table 4-4 Ultimate weekday PM peak hour traffic generation

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Table 4-5 Ultimate Saturday peak hour traffic generation											
Ultimate Sat	Ultimate Saturday Peak Hour Traffic Generated										
Location	Residential	tial Office Retail		Supermarket	Total						
Block 1	0	0	427	0	427						
Block 2	0	0	266	0	266						
Block 3	0	0	0	247	247						
Block 4	0	0	349	0	349						
Block 5	0	0	226	0	226						
Area 1	358	0	0	0	358						
Area 2	738	0	0	0	738						
Area 3	262	0	0	0	262						
Area 4	736	0	0	0	736						
Area 5	19	0	0	0	19						
Area 6	20	0	0	0	20						
Area 7	31	0	0	0	31						
Area 8	27	0	0	0	27						

Table 4-5 Ultimate Saturday peak hour traffic generation

4.2 Ultimate Case Traffic Distribution

To determine the distribution of traffic from the ultimate proposed developments within Bannockburn Growth Area, Cardno has applied the following peak hour traffic distribution splits per use to ensure the ultimate traffic model represents the future road network traffic movements into/out of the Bannockburn Growth Area. The traffic distribution splits applied by Cardno for residential and commercial uses are as follows.

Use	AM In	AM Out	PM In	PM Out	Sat In	Sat Out				
Residential	20%	80%	60%	40%	50%	50%				
Office	90%	10%	10%	90%	50%	50%				
Retail	50%	50%	50%	50%	50%	50%				
Supermarket	50%	50%	50%	50%	50%	50%				

Table 4-6 Peak hour traffic distribution splits

By applying the peak hour distribution rates to the ultimate case traffic generated, Cardno has determined the following ingress and egress traffic distributions for the ultimate case development scenario for Bannockburn Growth Area for the AM weekday peak hour, for the weekday PM peak hour the Saturday peak hour.

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Table 4-7	weekday AM peak hour traffic distribution									
Location	Resid	ential	Office		Retail	Retail		Supermarket		
	In	Out	In	Out	In	Out	In	Out	In	Out
Block 1	0	0	29	3	161	161	0	0	190	164
Block 2	0	0	18	2	100	100	0	0	118	102
Block 3	0	0	7	1	0	0	93	93	101	94
Block 4	0	0	40	4	132	132	0	0	172	136
Block 5	0	0	26	3	85	85	0	0	111	88
Area 1	82	329	0	0	0	0	0	0	82	329
Area 2	169	678	0	0	0	0	0	0	169	678
Area 3	60	241	0	0	0	0	0	0	60	241
Area 4	169	677	0	0	0	0	0	0	169	677
Area 5	4	17	0	0	0	0	0	0	4	17
Area 6	4	18	0	0	0	0	0	0	4	18
Area 7	7	29	0	0	0	0	0	0	7	29
Area 8	6	24	0	0	0	0	0	0	6	24

Table 4-7 Weekday AM peak hour traffic distribution

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Table 4-8	Weekday PM peak hour traffic distribution									
Location	Reside	ntial	Office	e Retail Super		market	et Total			
	In	Out	In	Out	In	Out	In	Out	In	Out
Block 1	0	0	2	20	161	161	0	0	163	181
Block 2	0	0	1	12	100	100	0	0	102	112
Block 3	0	0	1	5	0	0	93	93	94	98
Block 4	0	0	3	27	132	132	0	0	135	159
Block 5	0	0	2	18	85	85	0	0	87	103
Area 1	261	174	0	0	0	0	0	0	261	174
Area 2	538	359	0	0	0	0	0	0	538	359
Area 3	191	127	0	0	0	0	0	0	191	127
Area 4	537	358	0	0	0	0	0	0	537	358
Area 5	14	9	0	0	0	0	0	0	14	9
Area 6	14	10	0	0	0	0	0	0	14	10
Area 7	23	15	0	0	0	0	0	0	23	15
Area 8	19	13	0	0	0	0	0	0	19	13

Table 4-8	Weekday PM peak hour traffic distribution
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Table 4-9	Saturday peak hour traffic distributions									
Location	Reside	ntial	Office	•	Retail		Superm	arket	Total	
	In	Out	In	Out	In	Out	In	Out	In	Out
Block 1	0	0	0	0	214	214	0	0	214	214
Block 2	0	0	0	0	133	133	0	0	133	133
Block 3	0	0	0	0	0	0	124	124	124	124
Block 4	0	0	0	0	175	175	0	0	175	175
Block 5	0	0	0	0	113	113	0	0	113	113
Area 1	179	179	0	0	0	0	0	0	179	179
Area 2	369	369	0	0	0	0	0	0	369	369
Area 3	131	131	0	0	0	0	0	0	131	131
Area 4	368	368	0	0	0	0	0	0	368	368
Area 5	9	9	0	0	0	0	0	0	9	9
Area 6	10	10	0	0	0	0	0	0	10	10
Area 7	16	16	0	0	0	0	0	0	16	16
Area 8	13	13	0	0	0	0	0	0	13	13

Table 4-9 Saturday peak hour traffic distributions

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