

Inner West Council Newtown (area 6) Local Area Traffic Management Study



September 2018



Document Information:

Document Number	14/5139
Creation Date	17 September 2018
Revision No	02
Document Status	Draft
Document Author	Sunny Jo
Department	Roads, Traffic and Stormwater

Version Control:

Version	Changes from existing Treatments	Date	Comment
00	No Changes	17/09/2018	First Draft
01	Revised treatments, strategic cost and concept plans	19/10/2018	Second Draft

Reviewers:

Name	Department	Title	Date	Initials



Table of Contents

1.	Executive Summary	4
2.	Introduction	8
	2.1 Background	8
	2.2 Study Background	9
	2.3 Referenced Documents	11
	2.4 LATM Scheme in Inner West	11
3.	Existing Condition Assessment	13
	3.1 Study Area	13
	3.2 Area Demographics	13
	3.3 Road Hierarchy	14
	3.4 Public Transport Services	15
	3.5 Previous LATM Study in Newtown	19
4.		
	4.1 Environmental Capacity and Speed Performance Standards	23
	4.2 Evaluation of Environmental Capacity and Speed Performance in the Study Area	24
	4.3 Performance of Signalised Intersections	30
5.	Crash Statistic Analysis	30
	5.1 Background	30
	5.2 Crash rate by time	30
	5.3 Motorbikes and Cyclists Crashes	33
	5.4 Pedestrian safety	35
6.	Future Conditions	37
	6.1 Marrickville LEP	
	6.2 Future developments in the immediate area	40
7.	Community Consultation Overview	44
	7.1 Review of Council's Record System prior to the study	44
	7.2 Initial Consultation	46
	7.3 Public Exhibition	48
8.		
	8.1 Introduction	
	8.2 New LATM Treatment Proposals	48
	8.3 Audit of Existing traffic facilities	55
	8.4 Pedestrian Access and Mobility Plan (PAMP) Implementation	56
	8.5 Non-Infrastructure Improvements	56
	8.6 Prioritisation of treatments and Strategic Cost Estimation	56
	ppendices	
	opendix A: Criteria for pedestrian precinct treatment (Extract from 40km/h Speed Limits in High	
	destrian Activity Areas, Roads and Traffic Authority 2006)	
	pendix B: Results of Newtown LATM Audit of Existing Traffic Devices	61
-	pendix C: Newtown-Enmore Parking Study 2010 (ARUP) Proposed Parking, Newtown-Enmore	
	rking Reivew 2013 (Inner West Council) Proposed Parking	
Αŗ	ppendix D: Initial Community Consultation Result Summary ppendix E: Crash Road User Movement (RUM) Codes from RMS Traffic Accident Database System	n
	ata Manual	
Αŗ	pendix F: Crash Data Summary sourced from RMS Accident Database July 2012 to June 2017	73



Appendix I: Impact of westconnex Project on Eageware Road	91
Appendix J: Matters to be referred to the RMS for consideration	
Appendix K: Marrickville Development Control Plan 2011 Amendment No.4	
Appendix L: Locations of Missing Kerb Ramps & Marrickville PAMP focus areas	
Appendix M: Holt Street Reduced No Stopping zone Risk Assessment	
Appendix N: Proposed Bicycle FacilitiesAppendix O: Streets nominated for 40km/h Local Traffic Area	
Appendix P: Marrickville Public Domain Masterplan King Street & Enmore Road	
Appendix 1. Warrexville 1 abite bornam Wasterplan King Street & Elimore noda	10 1
Figures	
Figure 1: Study Area	
Figure 2: Road classification within the study area	
Figure 3: Public Rail Network connecting Newtown	
Figure 4: Public Bus Routes in Enmore and Newtown Areas	16
Figure 5: Bicycle routes identified by the Marrickville Bicycle Strategy 2007	17
Figure 6: Former Enmore LATM Scheme Review (2004)	19
Figure 7: Truck Load Limits in study area	
Figure 8: Traffic count locations within the study area	24
Figure 9: Average Truck Traffic Volumes per day	28
Figure 10: Prominent Through Traffic in the Newtown Study Area	29
Figure 11: Crash trend over time in the Newtown study area	31
Figure 12: Crash in study area by time of day	32
Figure 13: Crash in study area by day of week	32
Figure 14: Reported traffic accidents from RMS database July 2012 to June 2017	33
Figure 15: Crash Frequency in the Newtown Study Area by Road User Movement (RUM Code)	34
Figure 16: Crashes involving a pedal cyclist	34
Figure 17: Crashes involving a Pedestrian	34
Figure 18: Crashes with speeding a factor	34
Figure 19: Crashes involving a motorbike	
Figure 20: Crash by vehicle type	
Figure 21: Total Injury Accidents by Road User Movement (RUM) Category	
Figure 22: Look Before You Step Out patches in King Street, Newtown and Enmore Road, Enm	
Figure 23: Land use zoning in the study area under the Marrickville Local Environment Plan 20	
Figure 24: Estimated dwellings in 2031 from S94 Traffic and Transport Study by Transport and	
Planning 2011	
Figure 25: Proposed Sydney Metro Network	
Figure 26: Most selected locations for each issue during the initial community consultation	
Figure 27: Initial Survey Question Results	
Figure 28: Stage 1 Holt Street proposed kerb extensions west of King Street	
Figure 29: Stage 2 Holt Street proposed shared zone	
Figure 30: Metropolitan Road entry treatment at Enmore Lane	
Figure 31: Local Area Improvement Strategy 2018 Concept Plan for Edgeware Road	
G =	



1. Executive Summary

The Newtown LATM study was undertaken by Inner West Council in order to review the traffic management strategy within the precinct. This report sets out an assessment of the traffic conditions within the Newtown study area include the following:

- Road Hierarchy
- Traffic survey data (including volumes, speed and heavy vehicles)
- Crash statistics
- Identification of pedestrian and cyclist improvements
- Initial community and stakeholder consultation
- Assessment of the effectiveness of the existing LATM measures
- Public Exhibition of the draft scheme
- A review of Council records including complaints and issues received since 2012
- Existing and proposed cycle routes under the Marrickville Bicycle Strategy
- Future land use
- Identification of further opportunities to reduce volumes and speed of traffic on local streets to address public amenity
- Development of concept LATM proposals

The recommendations provided in this document aim to align with the principles outlined in the Marrickville Integrated Transport Strategy 2007 providing the rationale and recommended actions for addressing local transport issues, and moving towards sustainable transport – that is, reducing car use and increasing use of public transport, walking and cycling. The Inner West Community Strategic Plan 2018 also has a strategy for improving transport infrastructure and active travel that is safe, connected and well maintained.

Community opinions were collected by a survey designed to establish what the major issues in the area were. A draft report was prepared for the consideration of Council and will be placed on public exhibition for a minimum of 28 days. The prominent issues highlighted from the community were:

- Too much traffic along regional and state roads,
- Concerns on heavy vehicles on the road network, and
- Rat running on local roads

Following feedback from the community at the public exhibition, a final report will be prepared for Council's consideration.

Reported crash history data was analysed over a 5 year period ending in 2017 within the study area and most crashes (96.7%) occurred along the regional and state road network. These were comparable to other urban regional and state roads, with rear ends accidents (20%), pedestrian (17.4%) and right turn through (12.9%) accidents being the most prominent accidents. There was a higher level of motorbike crashes (16.8% of reported accidents) compared to the NSW average (10.1%), and similar results for pedal cyclists (14.2%) compared to the NSW average (3.6%). The demographic data indicate that there is a higher level of bike use in Newtown and Enmore.

To support the design principles outlined in the draft Public Domain Masterplan for the King Street & Enmore Road, a continuous footpath treatment as well as a 10km/h shared zone is proposed on a



number of side streets along King Street and Enmore Road. These changes will improve safety for pedestrians and will offer a continuous walking environment along the main shopping strip.

The additional proposed treatments in the local streets aim to improve intersection safety and further reduce traffic speeds, in order to meet the Roads and Maritime Services (RMS) requirement for the establishment of a 40km/h zone in the study area. The reduced speed limit should encourage active transport and provide consistency with the already established 40km/h zone in the neighbouring East Newtown and Erskineville areas.

Additional bicycle infrastructure enhancements are proposed along the routes identified in the Marrickville Bicycle Strategy and should encourage cycling in the area.

A list containing the recommended treatments to address the issues identified in the report is tabled below. The estimated total cost of the LATM works is \$456,000.

	own LATM proposed t	Review 2018 reatments				
Items	Map ref	Street	Section	Proposed Treatment	Priority	Estimated Cost
1	В	Bailey Street	Enmore Road	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of one (1) speed cushion.	1	\$28,000
2	A	Goddard Street	King Street	Continuous footpath treatment (raised treatment on side street, installation of bollards, planter boxes and/or street furniture).	2	\$25,200
3	В	Reiby Street	Enmore Road to Pemell Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	3	\$58,100
4	В	Simmons Street	Enmore Road to Pemell Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	4	\$43,000
5	В	Marian Street	Enmore Road Enmore Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	5	\$50,000
6	E	Holt Street	King Street to Station Street	Stage 1: kerb extensions at King Street, reduced No Stopping distance on south side, bollards, kerb ramps, repositioned traffic signage.	6	\$26,000



Items	Map ref	Street	Section	Proposed Treatment	Priority	Estimated Cost
7	В	Holt Street	King Street	Stage 2: 10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	7	\$65,500
8	A	Camden Street	King Street	Continuous footpath treatment (raised treatment on side street, installation of bollards, planter boxes, street furniture)	8	\$26,700
9	С	Metropolitan Road	Enmore Lane	Installation of kerb blister island Installation of at grade pavement or similar linemarking Installation of truck prohibited symbolic and local traffic signage	9	\$16,500
10	С	Station Street	Reiby Lane	Installation of at grade pavement or similar linemarking Installation of truck prohibited symbolic and local traffic signage	10	\$9,500
11	E	Metropolitan Road	Cross Lane	Installation of kerb blister islands with motorbike parking	11	\$60,000
12	Е	Cross Lane	Edgeware Road	Installation of kerb blister island	12	\$8,000
13	Е	Camden Street	College Street	2x landscaped kerb blister islands, give way signs and lines	13	\$14,000
14	E	Camden Street	Station Street	2x landscaped kerb blister islands, give way signs and lines	14	\$13,500
15	Appendix N	Simmons Street	entire length	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	15	\$1,000
16	Appendix N	Margaret Street	Between Ferndale Street and College Street	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	16	\$2,400
17	Appendix N	College Street	Between Margaret Street and Holt Street	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	17	\$2,200
18	Appendix N	Holt Street	Between Station Street and King Street	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	18	\$1,400
19	Appendix N	Station Street	Between Holt Street and Enmore Road	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	19	\$3,200
20	Appendix N	Metropolitan Road	Between Enmore Road and southern end of road	Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	20	\$1,800
				Total		\$456,000



Newtown Local Area Traffic Management Study 2018

Draft Proposed Treatments

November 2018

© COPYRIGHT

Land and Property Information NSW Inner West Council

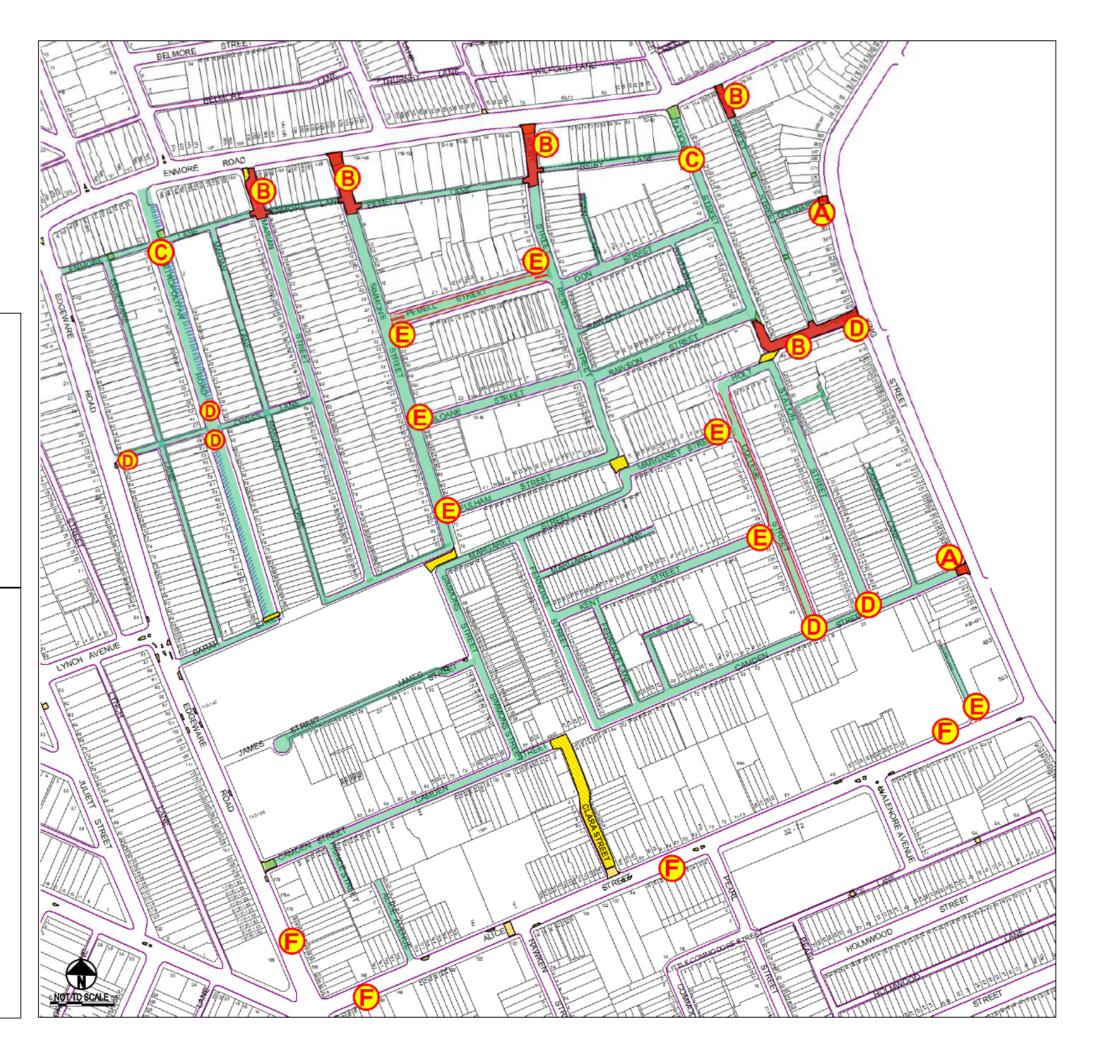
All Rights Reserved.

Plan Produced by Information Systems of Inner West Council. This Map Remains the Property of Inner West Council. Reproduction of any part of this map without approval is prohibited.

DISCLAIMER
This map has been compiled from various sources and the publisher and/or contributors accept no responsibility for any injury, loss or damage arising from its use or errors or omissions therein.

Legend:

- Continuous footpath treatment
- (B) 10km/h Shared zone
- C Local road entry treatment (surface treatment, signage and kerb blister)
- Nerb blister island/kerb extensions
- E Give Way lines and signs
- F Linemarking changes
- Proposed linemarking
- Existing Traffic Facility
- Streets nominated for 40km/h local traffic area



2. Introduction

2.1 Background

The Inner West Council was established in 12 May 2016 formed from the three previous Councils of Ashfield, Leichardt and Marrickville. Within the new Council's Local Government Area 5 wards were formed and carry over the previous codes, plans, strategies and policies of the former Councils. In 2018 the Newtown local precinct was identified for review the existing local area traffic management (LATM) scheme. The subject area is identified as 'area 6' bounded by King Street, Enmore Road, Edgeware Road and Alice Street shown in Figure 1.



Figure 1: Study Area

The Inner West Community Strategic Plan (CSP) 'Our Inner West 2036' endorsed in June 2018 provides outcomes and strategies for the future of Inner West as outlined in Table 1. The Newtown Precinct LATM achieves these outcomes by reviewing existing traffic measures in place aimed at creating a safer road environment that will support public transport, walking and cycling.

CSP Outcomes	Strategies
2.5	1. Advocate for improved public transport services to,
Public transport is reliable,	through and around Inner West
accessible, connected and	2. Advocate for, and provide, transport infrastructure that
enjoyable	aligns to population growth
2.6	1. Deliver integrated networks and infrastructure for
People are walking, cycling and	transport and active travel
moving around Inner West with	2. Pursue innovation in planning and providing new
ease	transport options
	3. Ensure transport infrastructure is safe,
	connected and well maintained

Table 1: Inner West Community Strategic Plan Outcomes and Strategies



2.2 Study Background

This report sets out an assessment of the traffic conditions within the Marrickville East study area and includes the following:

- Road Hierarchy
- Traffic survey data (including volumes, speeds and heavy vehicle percentages)
- Crash statistics
- Intersection operation analysis
- Identification of pedestrian and cyclist improvements
- Initial community and stakeholder consultation
- · Assessment of the effectiveness of the existing LATM measures
- Pubic exhibition period.
- A review of Council records including complaints and issues which have been raised since 2007
- Existing and proposed cycle routes
- Future land use
- Identification of further opportunities to reduce volumes and speed of traffic on local streets to address public amenity
- Development of concept LATM proposals

A review of the Austroads Guide to Traffic Engineering – Part 8 for Local Area Traffic Management was undertaken. The following information from Austroads describes the purpose of a LATM.

2.2.1 What is Local Area Traffic Management (LATM)

Local Area Traffic Management is concerned with the planning and management of the usage of road space within a local traffic area, often to modify streets and street networks which were originally designed in ways that are now no longer considered appropriate to the needs of residents and users of the local area. LATM can be seen as a tool of traffic calming at the local level (Brindle 1991; O'Brien and Brindle 1999 p. 259). It involves the use of physical devices, street scaping treatments and other measures (including regulations and other non-physical measures) to influence vehicle operation, in order to create safer and more pleasant streets in local areas.

For the purpose of distinguishing between LATM and other aspects of traffic management, a 'local (traffic) area' is an area containing only local streets and collector roads, and is usually bounded by arterial roads or other roads serving a significant road transportation function, or other physical barriers such as creeks, railways, reserves or impassable terrain.

LATM is essentially system-based and area-wide. It considers neighbourhood traffic-related problems and their proposed solutions in the context of the local area or a group of streets within it, rather than only at isolated locations. In addition, it requires that physical traffic measures be seen as a sequence of interrelated devices rather than individual treatments. Much of the material in the Austroads Guide to Traffic Engineering – Part 8, will assist practitioners in selecting and implementing single countermeasures at isolated sites, where there are localised problems needing spot treatment. Many street closures, channelisation's and small roundabouts, for example, are valid stand-alone treatments at problem intersections. However, the installation of such isolated



measures is not truly 'local area traffic management', and practitioners will need to be alert to the potential problems of isolated speed management devices.

2.2.2 Identifying the Cause of Traffic Related Problems

Identifying the root causes of traffic problems in neighbourhoods can often provide pointers to appropriate solutions. In broad terms, problems usually arise because of the quantity of traffic, its speed, or other characteristics of the network that lead directly to higher crash rates and reduced amenity. These in turn are created, at least in part, by the planning and design features of the local network. In summary, inspection of the causes of traffic problems over the past 30 years or so in Australia and New Zealand has led to the following guidelines for local planning and minor street network management:

To reduce vehicle speeds:

- shorten forward sightlines and enclose the driver's field of vision, by tree planting and other means
- keep street section lengths (i.e. between slow or near-stop conditions) below 200-250m
- reduce the available street width and/or introduce deflections in the vehicle path, while maintaining the margin of safety
- ensure that there is a traffic route within 400-500m of each local street.

To minimise traffic levels and intruding traffic in a local street:

- Maintain the level of traffic service on adjacent arterials to reduce 'rat-running'
- Increase the lengths (time and distance) of paths through the local street network to reduce their connectivity between points on the arterial road network
- Direct local traffic onto those streets most able to accommodate it. Neighbourhoods with high internal connectivity (that is, grid-based systems showing network redundancy with many alternative and direct paths for trips within the local area) may actually increase the average exposure to traffic for each household
- Provide closer spacing of traffic routes at network planning and subdivision approval stages, including the provision of supplementary traffic routes within large subdivisions. This will avoid the creation of large districts with high levels of internal traffic, and the misuse of local streets as substitutes for missing links in the traffic route network
- Consider traffic impacts at the land use approval stage. Traffic generators should be carefully located so that they do not create additional pressure on the local network.
- Changes to the local street system, LATM provisions, and the provision of other modes such
 as cycling and walking and other travel demand measures might be considered as conditions
 for planning approval.

To minimise crash risk (in addition to the above):

- Limit the number of local street intersections and junctions. Within reason, fewer intersections mean fewer crashes
- Limit the number of cross-intersections, and include roundabouts or other passive controls where cross-intersections are unavoidable. Note that Stop or Give Way signs may improve cross-intersection safety but still have higher risk
- Limit the number of major-minor road connections



- Minimise the percentage of dwellings with their frontage to connective roads
- Protect or manage parking on distributor roads and other connective streets.

2.3 Referenced Documents

In preparing this report, reference has been made to a number of background documents, including:

- Austroads Guide to Traffic Engineering Practice Part 8 Local Area Traffic Management
- Austroads Guide to Traffic Engineering Practice Part 13 Pedestrians
- Austroads Guide to Traffic Engineering Practice Part 14 Bicycles
- RTA (Roads and Traffic Authority) Road Design Guide
- Towards Traffic Calming Manual A Practitioners' Manual of Implemented Local Area Traffic Management and Blackspot Devices 1993
- RMS Technical Directions & Supplements to Australian Standards
- RTA NSW Bicycle Guidelines 2003
- Marrickville Council Reports including those from the Land Use, Assets and Corporate Committee
- Marrickville Local Environment Plan 2011
- Marrickville Development Control Plan 2011
- Marrickville Integrated Transport Strategy 2007
- Marrickville Bicycle Strategy August 2007
- Marrickville Pedestrian Access and Mobility Plan ARUP 2009
- Marrickville Town Centre Parking Strategy 2013
- Marrickville Public Domain Masterplans (draft) 2014
- Marrickville Council's Independent Review of the Marrickville Metro TMAP, Transport & Urban Planning (TUP), August 2010
- Marrickville Metro Traffic Impact Assessment, The Transport Planning Partnership & Bitzios Consulting 2017
- Inner West Council WestConnex Local Area Improvement Strategy BECA 2018
- Newtown Enmore Parking Study Review 2017
- Newtown-Enmore Parking Study ARUP 2014
- Former Newtown LATM Review Study 2004
- Connecting MARRICKVILLE, Connecting streetscape planning and delivery with places and people. Project Overview and Draft Action Plan, June 2013.
- RTA Guide to Traffic Generating Developments, 2002

2.4 LATM Scheme in Inner West

For over 25 years, Council has been 'traffic calming' local roads via Local Area Traffic Management (LATM) schemes. The purpose of traffic calming is to discourage excessive traffic volumes and speeds on local roads, thereby improving residential amenity and safety. Council's existing schemes have played a part in minimising the impact of freight and other traffic on local streets.

In relation to the plan to be developed, analysis should take place on (but is not limited to) the following data:

- Road hierarchy.
- Traffic survey data (including volumes, speeds and heavy vehicle percentages).



- Crash statistics.
- Intersection operation analysis.
- Identification of pedestrian and cyclist improvements.
- Community feedback.
- Future land use.

From the analysis of the data, issues will be identified (but not limited to) the following means:

- Consideration of locations with high numbers of accidents.
- Consideration of residential streets carrying excessive traffic volumes.
- Consideration of residential streets carrying excessive heavy vehicle volumes.
- Consideration of streets where traffic speeds are excessive.
- Consideration of streets where there is a need and opportunity to improve amenity.

Consideration of the impacts of proposed developments and the changes that can be forecast as a result of the new Marrickville LEP-2011 in relation to traffic generation, including quantifying and distributing traffic generation through the road network within the study area using simple modelling methods.

The recommendations provided in this document aim to align with the parking management principles outlined in the Marrickville Integrated Transport Strategy (2007). The document "provides the rationale and recommended actions for addressing local transport issues and moving Marrickville toward sustainable transport – that is, reducing car use and increasing use of public transport, walking and cycling."

In developing recommendations in LATM strategy, consideration must not only be given to minimising vehicle speed, traffic volumes and reducing crash rates, but consideration must also be given to incorporate the following principals of Local Area Traffic Management:

- Reducing car use.
- Increasing use of public transport.
- Increasing walking and cycling.
- Improving the streetscape.

2.4.1 Stages of a LATM

The general stages of preparing to undertake a LATM study are described below:

Stage 1: Initiating an LATM program

- Decide that action is needed
- Define study area, precincts and functional hierarchy of roads
- Develop study plan, including type treatments and study costs
- Develop consultation strategy
- Council decision.

Stage 2: Data collection and problem identification

- Define and collect required data
- Identify problems
- Identify potential solutions
- Define and confirm objectives.

Stage 3: Development of 'Draft' plans



- Clarify suitable strategies (including confirmation of LATM as an appropriate response)
- Develop outline concept schemes
- Council decision to place on Public Exhibition

Stage 4: Public exhibition

- Consult on draft concept plans
- Assess and refine alternatives
- Select, present to council for adoption

Stage 5: Scheme design

- Location and design of treatments
- Consult with nearby owners/occupiers
- Select, present to council for adoption

Stage 6: Implementation

- Confirm timing and staging
- Conduct additional 'before' studies as required
- Community information
- Advertise for 28 days as per the Roads Act
- Construct/install

Stage 7: Monitoring and review

- 'After' data collection, observation and reports
- Identify unanticipated impacts or outcomes
- Review technical and community assessment of scheme
- Revise as needed and feasible
- Record and report process and outcomes

3. Existing Condition Assessment

3.1 Study Area

The Newtown precinct study area is bounded by King Street, Enmore Road, Edgeware Road and Alice Street, forming parts of Enmore and Newtown suburbs. The land use along Enmore Road and King Street comprise of mixed commercial and residential buildings, with a TAFE NSW Design Centre Enmore located between Sarah Street and James Street. The Enmore Theatre is also located within the study area and attracts many visitors to the area during events.

The area has a good level of public transport within walking distance to bus stops, and access to heavy rail at St Peters Station and Newtown Station is within 15 minutes.

Local shopping such as supermarkets, medical centres, restaurants and café are mainly within the Enmore Road and King Street commercial district. The Marrickville Metro, located outside the study area is a regional shopping centre that can be accessed within 5 minutes by car or within a 15 minute walk.

3.2 Area Demographics

The 2016 Census and 2016 Journey to Work datasets were examined to identify travel trends to and from the study area. The ten statistical areas cover the Newtown LATM study area and data was compared to the NSW average shown in Table 2.



The study area features a higher level of young population between ages 20-34 and a smaller proportion of aged population over 65. The Newtown and surrounding areas are recognised for its artistic, diverse and unique culture.

The 2016 Census data indicate a higher proportion of those surveyed use public transport as a mode of travel to work compared to the NSW average. Similarly there are higher rates of bicycle riders and walking only to work compared to the rest of the state.

Car ownership is lower and as there is very limited and high competition of on-street parking. The lower dependence on the motor vehicle in Newtown was found to be consistent with the previous census data for this area.

Table 2: Newtown SA1 areas Census and Journey to Work Datasets

Newtown Electorate Census and Journey to Work Datasets Source: 2016 Census and 2016 Journey to Work, Australian Bureau of Statistics				
Newtown SA1 Areas NSW Average				
Proportion of young population between age 20 and 34	29.3%	21%		
Proportion of aged population over age 65	7.5%	16%		
Car ownership of one (1) motor vehicle or less	84.7%	45.5%		
Proportion using public transport as a mode of travel to work	45.5%	16%		
Proportion of bicycle riders as a mode of travel to work	5.0%	0.7%		
Proportion of walking only as a mode of travel to work	9.8%	3.9%		

3.3 Road Hierarchy

The RTA (Roads and Traffic Authority) Road Design Guide states that the purpose of a functional road hierarchy is to establish a logical integrated network in which roads of similar functional classifications. This classification in NSW include are:

- State/Arterial Predominantly carry through traffic from one region to another, forming principal avenues of communication for urban traffic movements. These roads are controlled by state government authorities
- Regional/Sub-Arterial Connects the arterial road to areas of development and carry traffic directly from one part of the region to another. They may also relieve traffic on arterial roads in some circumstances. These roads are often controlled by state government authorities
- Collector Connects the sub-arterial roads to the local road system in developed area and are generally controlled by local government authorities
- Local The sub-divisional roads within a particular developed area. These are used solely as local access roads. These roads are generally controlled by local government authorities.

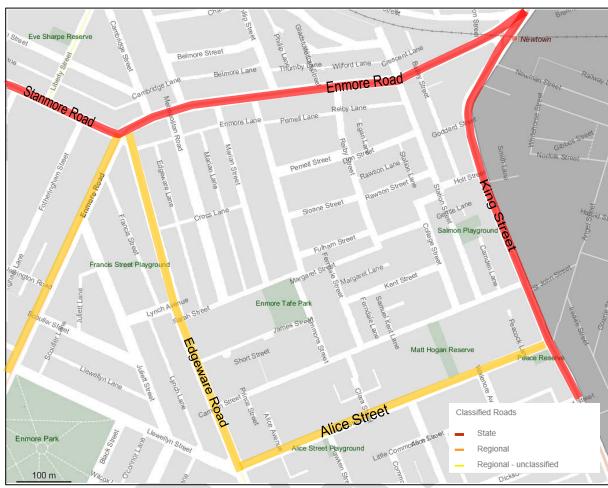


Figure 2: Road classification within the study area

There are 38 streets which were examined as part of the Newtown precinct study area. As shown in Figure 2, these state roads in the Newtown precinct are Enmore Road and King Street. The two regional roads are Edgeware Road and Alice Street.

There are no collector roads within the study area. All other roads within the study area are classified as local roads.

3.4 Public Transport Services

3.4.1 Train Services

Train services operate along the northern boundary at Newtown Station at the intersection of Enmore Road and King Street. The Newtown precinct study area is within a 16 minute walk to Newtown train station, which is within minutes away from the Sydney CBD and the city circle railway stations. Streets along the north west side are also is within 15 minutes of Stanmore Station.

Newtown station is served by the T2 Inner West and Leppington line which operate from Leppington station to the city circle via Homebush and Parramatta. The station is accessible through an upgrade undertaken in 2012. A paid secure parking facility for short term parking or commuters is available by near Newtown Station.



St Peters station is located about 500m further south of Alice Street and operates T3 Bankstown line from Liverpool to the city circle. The entrance is at the intersection of King Street and Sydney Park Road, with a second entry off Lord Street.

The announced Sydney Metro project currently underway proposes to convert the Sydney to Bankstown section of the T3 line with single deck metro trains, with a new tunnel to be built between Sydenham and Chatswood and access to the city.

The current public rail network map is shown in Figure 3 below.

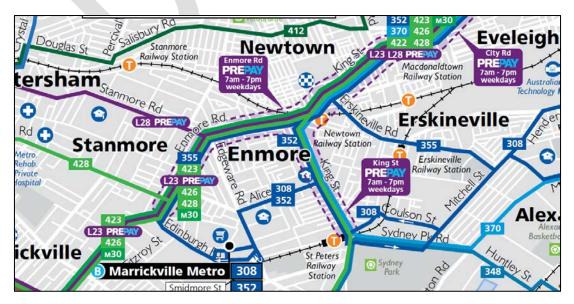


Figure 3: Public Rail Network connecting Newtown

3.4.2 Buses

A number of public bus services operate within the study area and Sydney Buses is the main public bus operator in this area. Shown in Figure 4, a good level of bus services operates through Enmore Road and King Street to the CBD with many services passing through inner west suburbs of Stanmore, Marrickville, Petersham, and Dulwich Hill, reaching to outer areas such as Kogarah, Canterbury and Coogee.

Figure 4: Public Bus Routes in Enmore and Newtown Areas





3.4.3 Bicycles

The Marrickville Bicycle Strategy 2007 proposes a number of bicycle routes currently in the study area and incorporate regional and local routes. Over the years Council has progressively improved the cycling network according to the strategy, including enhancements along the east-west route through Lynch Avenue and Sarah Street, including a separated bicycle facility across Edgeware Road and bicycle logo mixed traffic arrangement in Sarah Street. Existing facilities for the north-south route through Simmons Street, Camden Street and Clara Street include bicycle directional signs and bicycle logos throughout the road pavement at regular intervals. The bicycle route through Metropolitan Road connects from Sarah Street and takes cyclists through a short shared path through the south side of Enmore Road, and connecting to the Stanmore area via Phillip Street. Routes identified in the Bicycle Strategy are shown in Figure 5.

Other bicycle routes through the study area include the north-south local route through Station Street, College Street, Camden Street and through Matt Hogan Reserve. Council is progressively implementing the routes identified in the bicycle strategy based on priority and funding allocation. As a result some sections of these routes have not been completed at the time of this report.

The Super Tuesday Bicycle Counts undertaken by Bicycle Network in 2017 show 138 bicycle riders in Enmore Road between Simmons Road and Phillip Street during a commuter morning peak hour 7am-9am period. As revealed in the census data, a higher proportion of people cycle compared to the NSW average. The high patronage of cyclists can be seen by the high level of bicycle parking and riding in the commercial areas of Enmore Road and King Street.

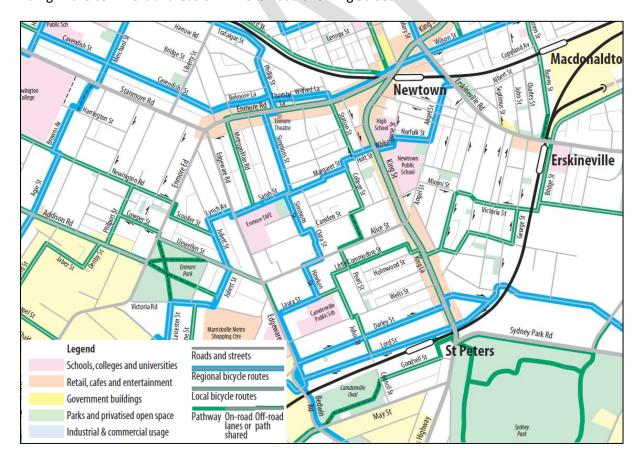


Figure 5: Bicycle routes identified by the Marrickville Bicycle Strategy 2007



3.4.4 Carshare

The use of carshare schemes has been increasingly popular in recent years. According to the operator Goget each carshare vehicle eliminates up to 9 vehicles parked on-street in this area, lowering the parking demand of on-street spaces. Currently Goget has a number of vehicles operating and established in the area, with three of these locations having a dedicated parking space issued by Inner West Council, and an additional three pods without a dedicated parking bay however these have been issued a residential parking permit allowing them to be exempted from the time limited parking. The six (6) carshare spaces are generally scattered equally in the study area and these are located at:

- Edgeware Road carpark, Edgeware Road (with a dedicated space)
- Pemell Street, near Simmons Street (with a dedicated space)
- Fulham Street, near Simmons Street (with a dedicated space)
- Margaret Street, near College Street
- Camden Street, near Matt Hogan Reserve
- Camden Street, near Edgeware Road

The 2013 Newtown Enmore Parking Study undertaken by ARUP recommend additional carshare spaces within this area and more dedicated spaces to be allocated, reducing the number of car ownership in the area.

3.4.5 Motorbikes

Motorbikes and scooters are popular within dense urban areas such as the inner west due to their lower cost of ownership and smaller space required for parking compared to a standard passenger vehicle. In recent years Council has approved a number of dedicated on-street parking areas to support motorbike use in the area. These spaces are subject to assessment and are based on community needs and suitability such as street lighting and road grade. As these spaces are signposted as 'P Motor Bikes Only' they do not have any time limitations for motorbikes or scooters.

- Holt Street, west of King Street 6m length
- Simmons Street, south of Enmore Road 6m length
- Clara Street, north of Alice Street four (4) dedicated spaces on east side, two (2) dedicated spaces on west side

3.4.6 Pedestrians

In 2009 the former Marrickville Council undertook a review of the Pedestrian Access and Mobility Plan (PAMP), focusing on high pedestrian use areas within the Council area. The PAMP recommendations for footpath improvements have been included in Council's Capital Works Program, funded as budget allowed.

The PAMP study identified approximately \$870,000 worth of improvements along the footpath, ramps, and accessibility. Council has since undertaken some of the works and subject to funding availability a number of these are progressively completed each year.

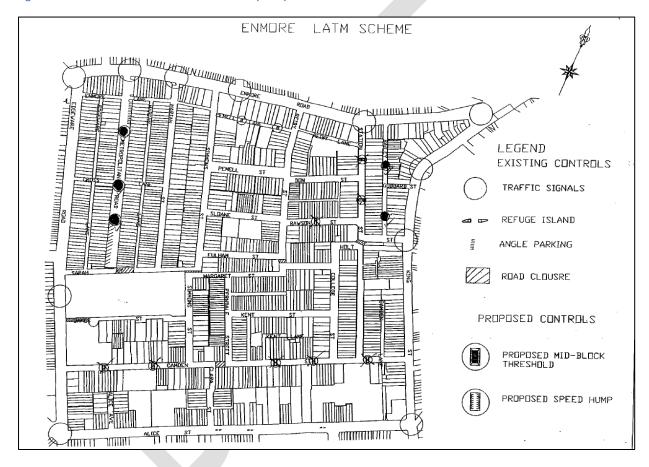


3.5 Previous LATM Study in Newtown

The former Marrickville Council undertook a review of the Enmore LATM scheme in 2004, with many of the partial road closures already established during the 1980s and 1990s. The study in 2004 identified a number of traffic speed calming devices for some streets within the study area.

The prominent treatments in place included a series of permanent mid-block and diagonal closures and restricting north-south vehicle access through Sarah Street, Margaret Street and Holt Street. The closures in Camden Street and Holt Street also restrict west-east vehicle access, and this is reflected in the favourable traffic volume levels along these streets. As these have been generally accepted by the local community, it is intended to retain the existing road closures.

Figure 6: Former Enmore LATM Scheme Review (2004)



Shown in Figure 6 is the Enmore Scheme reviewed in 2004 where residents were given questionnaire forms regarding a number of speed control devices (watts profile speed humps and raised thresholds) in Camden Street, Metropolitan Road, Rawson Street, Station Street and Bailey Street. Due to the low level of support from residents of Camden Street, Rawson Street and Station Street Council resolved not to proceed with these projects. Residents from Metropolitan Road and Bailey Street generally supported the proposal and at the time Council installed two watts profile humps in Bailey Street. However following Council's decision a petition was soon received from Metropolitan Road residents opposing the proposed speed humps and Council as an alternative measure sought to expand the angle parking areas which increased the on-street parking supply whilst narrowing the road carriageway and discouraging higher travel speeds.



3.5.1 Traffic Management Since 2004

A number of minor improvements were implemented in the study area between 2004 and 2018 through the Local Traffic Committee. The significant projects during this period include the following:

- Clara Street shared zone works undertaken early 2018 incorporating a 10km/h shared zone, entry raised threshold, coloured stamped asphalt treatment from Alice Avenue to Camden Street, and other beautification works.
- Simmons Street footpath widening project between Sarah Street and No.43 Simmons Street to improve pedestrian accessibility at this location in 2017. The work reduced the travelling carriageway width of Simmons Street from 5.2m to 4.2m.
- Reiby Street footpath reconstruction was undertaken in 2014 with damaged asphalt footpaths replaced with new concrete footpaths and improvements to the street tree verge.
- On-street angle parking arrangement was considered in Pemell Street and Metropolitan
 Road in 2012 after a former parking study recommended for improved management of
 parking resources. At the time a low level of support was received from local residents of
 Pemell Street and more favourable responses were received from Metropolitan Road
 residents. Council decided not to progress with the angle parking proposal in Pemell Street
 however a section of Metropolitan Road was converted to angle parking.
- Parking restrictions at several laneways were established in order to assist residential access in and out of driveways. Some of these locations include Marion Lane and Camden Lane.
- Safety was enhanced at the Alice Street wombat crossing near Hawken Street in 2016 with two additional landscaped kerb blister islands being approved and constructed.

3.5.2 Existing LATM devices

The former LATM studies undertaken for this area has been comprehensive as out of the 34 local streets in the study area 17 streets have some form of traffic calming treatment or some form of road closure. Dominant features of the area include several diagonal and mid-block road closures in Sarah Street and Margaret Street act to prevent undesirable west-east as well as north-south through traffic movements. Table 3 lists the existing treatments in place in the Newtown study area.

Table 3: Existing Traffic Devices

Street	Traffic calming or treatment	Treatment type
Alice Avenue	No	
Camden Lane	Yes	entry surface treatment
Cross Lane	Yes	one way, staggered on-street parking
Edgeware Lane	No	Stop priority
Egan Lane	No	
Ferndale Lane	No	
Marian Lane	No	Stop priority
Peacock Lane	No	
Pemell Lane	No	
Rawson Lane	No	
Reiby Lane	No	
Samuel Kent Lane	No	
Station Lane	No	



	Traffic calming	
Street	or treatment	Treatment type
		entry surface treatment, one way, two (2) watts
Bailey Street	Yes	profile speed humps, staggered parking
Camden Street	Yes	mid block closure, entry surface treatments
Clara Street	Yes	10km/h shared zone, marked parking bays
College Street	No	
Don Street	No	
Ferndale Street	No	
Fulham Street	No	
Goddard Street	Yes	entry surface treatment, one way
Holt Street	Yes	entry surface treatment, one way, diagonal closure
James Street	Yes	road closure
Kent Street	No	
Margaret Street	Yes	mid block and diagonal closure
Marian Street	Yes	one way, partial road closure
		entry surface treatment, on-street angle parking,
Metropolitan Road	Yes	road closure
Pemell Street	No	
Rawson Street	No	
Reiby Street	Yes	entry surface treatment
Sarah Street	Yes	mid block closure
		entry threshold treatment, diagonal closure,
Simmons Street	Yes	footpath widening
Sloane Street	No	
		entry surface treatment, diagonal closure, half
Station Street	Yes	closure, raised threshold
		edge lines, wombat crossing, kerb blisters, refuge
Alice Street	Yes	islands, traffic signals
Edgeware Road	Yes	edge lines, kerb blisters, traffic signals

3.5.3 Existing Parking Controls

Newtown comprise of dense commercial and residential areas which has formed much of the area's renowned building character. Residential lots are smaller in size with terrace housing mostly without off-street parking. Some units in the area with a rear access have some type of vehicular access and some have been retrofitted with some type of garage space. Commercial shopping districts along King Street and Enmore Road also do not feature off-street parking areas and employees with a vehicle would be forced to find street parking in the area.

Some areas experience high levels of parking during evening events in Enmore Theatre and also throughout the day from the Enmore TAFE students and staff.

Generally most on-street parking areas have a 1P or 2P residential parking scheme in place along one side of the street. This is more prominent in the northern half of the study area with more unrestricted parking areas along towards the south. The Newtown Enmore Parking Review 2017 proposes to add more streets to the residential parking scheme, namely Alice Avenue, Camden Street, Clara Street, Ferndale Street, Kent Street and Simmons Street (southern end). Most of these have been implemented recently.

On-street parking signs have been in place to better manage parking for the community. Throughout the past number of years several parking restrictions have been installed for access or safety

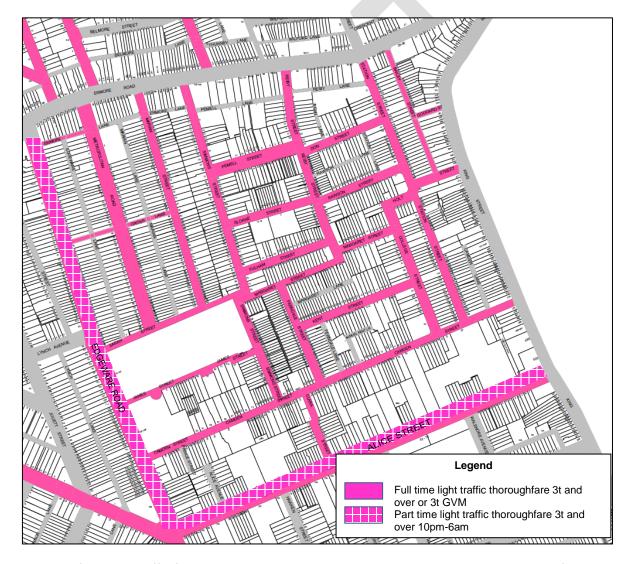


reasons. Whilst not all streets have parking restriction signs near intersections, drivers need to comply with the parking rules even in areas without No Stopping or No Parking signs.

3.5.4 Existing Truck Load Limits

The load limit along any public road is set by the road authority, with local, collector and regional roads under being under the jurisdiction of Councils and state roads falling under the jurisdiction of the Roads and Maritime Services (RMS). In the Newtown study area, a number of truck load limits have been established for residential amenity purposes as well as other reasons such as safety and access. With the exception of several lanes all of the local roads within the study area have some form of truck prohibition, either a Truck Prohibited 3T Gross Vehicle Mass (GVM) or a Truck Prohibited symbolic 3T and over. Both Alice Street and Edgeware Road has a 10pm-6am Truck Prohibited 3t and over, which has been in place for a number of years.

Figure 7: Truck Load Limits in study area



An audit of existing traffic facilities including truck load limit signs was undertaken as part of the study. The audit proposes to address the inconsistent truck load limit signs in place. Wording along the Edgeware Road night time truck prohibition (10pm-6am) would also need to be clear so that this restriction can be enforced.



3.5.5 Laneway Parking and Access Requirements

In 2015 the former Marrickville Council undertook an investigation and developed a guideline to have a consistent approach to assess laneways whether parking restrictions would be required to prevent access issues by garbage, residential and delivery vehicles. The guidelines state that generally laneways requiring access by garbage vehicles and trucks (up to a Medium Rigid size) would have a minimum laneway kerb to kerb width of 5.1m if parking is to be permitted in the laneway. In Newtown there are many laneways that are smaller in width than 5.1m and are not suitable for on-street parking.

The recent Enmore Newtown Parking Review 2017 undertook community consultation and recommended the following:

In the initial survey one of the key reported issues was laneway parking, residents having off street parking blocked by parked vehicles. However, after the draft recommendations to restrict laneway parking went to public exhibition, the objections far outnumbered those in favour of restricting laneway parking with 66 against and 16 in favour of laneway restrictions.

All feedback has been analysed and comments related to garages and gates being blocked specifically reviewed with respect to minimising loss of laneway parking while accommodating rear lane access. In cases where there is one person who is occasionally impacted the decision is weighted in not recommending restricting laneway parking overall. In cases of parking across driveways enforcement is recommended. Any further issues not addressed that arise in the laneways where recommendations have not been made, will be dealt with on a case by case basis.

4. Traffic data review

4.1 Environmental Capacity and Speed Performance Standards

The RTA Guide to Traffic Generating Developments and the RTA NSW Classification review paper assist in determining the acceptable environmental limit for each road classification. These guidelines are based on research undertaken by the RTA relating to residential safety and amenity and consider issues such as ease of crossing the road, consideration of noise and delay. This has been used as the basis for identifying traffic speed and volume issues along urban areas of NSW including the Inner West Council local government areas.

Road Classification	Road Type	Maximum Speed (km/h)	Max Peak Hour volume (veh/hr)	Daily Volume (ADT)
	Access way	25	100	1,000
Local	Street 40	200 desirable	2,000 Residential area	
		40	300 maximum	4,000 Other
Collector Street		50	300 desirable	5,000 Residential area
Collector	Street	50	500 maximum	10,000 Other
Regional (Sub- arterial)	Main Road	60-80	15,000-25,000	15,000-25,000

Table 4: Environmental Capacity and Speed Performance



4.2 Evaluation of Environmental Capacity and Speed Performance in the Study Area

The traffic data collected for this study has been evaluated and presented in Table 5. The table also cover an assessment on the suitability of the existing conditions in relation to traffic volumes, prevailing traffic speeds using the environment capacity and speed performance standards.

4.2.1 Traffic Survey Review

Pneumatic traffic counts were deployed over a four year period from 2014 to 2018 to collect traffic data of the prevailing road conditions. Some streets had more than one counter installed and collected mid-block volume and speed data. The counters were also able to determine the vehicle classification (truck or passenger vehicle), and in one way streets data on vehicles travelling contrary to the traffic direction. Figure 8 show the locations where traffic count data were collected.



Figure 8: Traffic count locations within the study area

4.2.2 Traffic Volumes

All local streets within the study area have been found to have daily traffic volumes within the guidelines and are considered adequate. Metropolitan Road and Cross Lane were found with higher volumes compared to other streets as they experience a level of 'rat running' during the AM peak



hour. Similarly Station Street and Holt Street experience similar traffic conditions during the PM peak hour and have higher traffic volumes.

The traffic data also revealed that there has been some level of traffic travelling opposed to the one-way restriction in Cross Street and Holt Street. In Cross Lane there has been on average 11 vehicles travelling westbound against the eastbound one-way restriction. Further examination also shows that these occur at random times of the day and night, suggesting that residents could be undertaking risky driving out of Cross Lane to avoid driving long distances in order to travel south.

There is a more significant compliance issue in Holt Street, where there is a daily average of 52 vehicles travelling eastbound against the westbound one-way traffic between the road bend and Bailey Street. The data show that during the AM peak hour 8am-9am and PM peak hour 5pm-6pm up to 12 and 6 vehicles were logged travelling in contravention to the one-way rule respectively.

4.2.3 Traffic Speed

The traffic speeds found from the mid-block counts were generally acceptable and within the local speed limit. Most local streets have narrow carriageways and with the high demand of on-street parking, this results in a tight road profile for two way traffic, and in many cases only space for a single travelling lane. This acts to naturally lower vehicle speeds as drivers will need to be cautious about passing opportunities with vehicles coming in the opposing direction. These roads within the study area typically carry less than 400 vehicles per day.

The 85th percentile speeds in Alice Street range between 42.8km/h and 49km/h which are below the signposted speed limit of 50km/h in the area. As the existing regional road configuration features edge lines, raised pedestrian crossing, a number of refuge islands and kerb blisters, these work together to generally lower traffic speeds. The traffic speeds found in Alice Street is considered to be acceptable.

Edgeware Road is also a regional road and carries traffic volume in the order of 21,000 vehicles per day. The road has a speed limit of 60km/h and existing feature include edge lines, kerb blisters, traffic signals and a refuge island. On-street parking is permitted on most sections of the road and operates with one travelling lane on each direction. The 85th percentile speeds were below the speed limit and deemed comparable to other regional roads with a 60km/h speed limit. At approach and departure to traffic signals at Enmore Road and Alice Street the kerbside parking restrictions apply during the peak hours for additional capacity. This road provides an important north-south link in the area and is subject to the various future changes proposed in the area such as the Marrickville Metro expansion and WestConnex works. This is discussed in further detail in appendix I.



Street	Between	Road Classification	Year Count Taken	Volume (AADT)	85 th Percentile Speed (km/h)	Proportion of HV %	Acceptable Volume	Acceptable Speed	Acceptable HV Proportion
Alice Street	Walenore Ave & Pearl St	Regional	2014	10,168	49	8.4	Yes	Yes	No
Alice Street	Hawken St & Edgeware Rd	Regional	2014	10,639	42.8	4.0	Yes	Yes	Yes
Bailey Street	Enmore Rd & Goddard St	Local	2018	693	27.3	4.5	Yes	Yes	No
Camden Street	Edgeware Rd & Simmons St	Local	2016	915	37.4	3.6	Yes	Yes	No
Camden Street	College St & Ferndale St	Local	2016	434	37.4	4.0	Yes	Yes	No
Clara Street	Alice St & Camden St	Local	2016	532	32.8	2.5	Yes	Yes	Yes
Cross Lane	between Edgeware Road and Edgeware Lane	Local	2018	980	26.0	3.9	Yes	Yes	No
Cross Lane	between Edgeware Lane and Metropolitan Road	Local	2018	1,308	24.8	2.6	Yes	Yes	Yes
Don Street	Station St & Reiby St	Local	2018	364	33.1	2.2	Yes	Yes	Yes
Edgeware Lane	Cross La & Sarah St	Local	2016	285	35.3	1.3	Yes	Yes	Yes
Edgeware Road	Lynch Ave & Camden St	Regional	2014	20,652	52.2	4.1	Yes	Yes	Yes
Edgeware Road	Cross La & Lynch Ave	Regional	2014	21,750	52.6	5.9	Yes	Yes	Yes
Enmore Road	60m east of Bailey St	State	2018	28,336	n/a	n/a	n/a	n/a	n/a
Ferndale Street	Margret St & Camden St	Local	2015	320	38.2	2.3	Yes	Yes	Yes
Fulham Street	Reiby St & Simmons St	Local	2015	236	37.1	2.2	Yes	Yes	Yes



Street	Between	Road Classification	Year Count Taken	Volume (AADT)	85 th Percentile Speed (km/h)	Proportion of HV %	Acceptable Volume	Acceptable Speed	Acceptable HV Proportion
Holt Street	Station St & Bailey St	Local	2018	1,451	22	4.6	Yes	Yes	No
Kent Street	College St & Ferndale St	Local	2015	173	36.7	1.5	Yes	Yes	Yes
King Street	10m south of Newman St	State	2018	20,063	n/a	n/a	n/a	n/a	n/a
Margaret Street	Reiby St & Ferndale St	Local	2015	200	16.2	9.4	Yes	Yes	No
Marian Street	Midpoint	Local	2015	364	37.1	3.0	Yes	Yes	No
Metropolitan Road	Enmore Ln & Cross Ln	Local	2018	1,558	41.5	1.7	Yes	Yes	Yes
Pemell Street	Midpoint	Local	2015	279	42.1	1.6	Yes	Yes	Yes
Rawson Street	Station St & Reiby St	Local	2018	595	38.2	1.8	Yes	Yes	Yes
Reiby Street	Enmore Rd & Pemell St	Local	2018	683	34.7	3.0	Yes	Yes	No
Sarah Street	Marian St & Simmons St	Local	2016	430	25.2	2.9	Yes	Yes	Yes
Simmons Street	James St & Camden St	Local	2015	805	32	1.5	Yes	Yes	Yes
Simmons Street	Enmore Rd & Pemell St	Local	2015	806	40.3	2.6	Yes	Yes	Yes
Sloane Street	Simmons St & Reiby St	Local	2018	269	37.3	3.2	Yes	Yes	No
Station Street	Enmore Rd & Rawson St	Local	2018	1,823	36.5	2.9	Yes	Yes	Yes

Table 5: Evaluation of Environmental Capacity & Speed of roads within the Newtown Study Area



4.2.4 Proportion of Heavy Vehicles

The use of heavy vehicles within the public road network is permitted in areas where it does not enforce a truck load limit. The Heavy Vehicle National Law sets the rules for vehicles exceeding 12.5m length or a truck trailer/semi-trailer combination exceeding 19.0m in length or 4.3m in height.

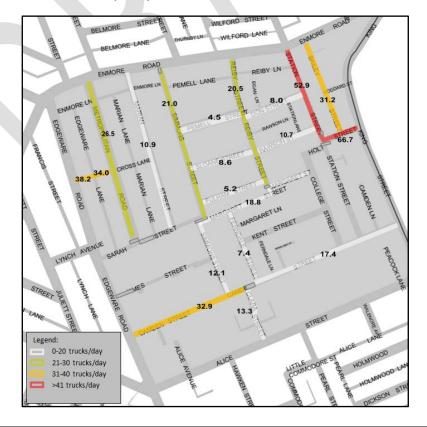
It should be noted that heavy vehicle proportion for a local road is considered acceptable if they generally do not exceed 3% of the total volume. A higher percentage may be accepted in regional and state roads such as Edgeware Road, Enmore Road and King Street.

Local streets within the study area exceeding 3% of the total volume and their respective daily average truck volumes are:

- Margaret Street (18.8 trucks/day)
- Bailey Street (31.2 trucks/day)
- Marian Street (10.9 trucks/day)
- Camden Street between College Street and Ferndale Street (17.4 trucks/day)
- Camden Street between Edgeware Road and Simmons Street (32.9 trucks/day)
- Holt Street (66.7 trucks/day)
- Cross Lane between Edgeware Road and Edgeware Lane (36.1 trucks/day)
- Station Street (52.9 trucks/day)

Some of the streets above would exhibit higher proportion of trucks due to the relatively low total daily traffic volume. Streets such as Enmore Lane, Pemell Lane and Reiby Lane would be used to serve the Enmore Road shopping strip would have to bear truck deliveries at various times of the day and the level would be considered acceptable.

Figure 9: Average Truck Traffic Volumes per day





It should be noted that streets experiencing higher usage such as Cross Lane, Station Street and Holt Street would be affecting residential amenity and some form of load enforcement would be required. Shown in Figure 9, local roads with the highest truck volumes are Holt Street, Station Street, and Cross Lane.

4.2.5 Through Traffic in the Study Area

A number of permanent road closures were established during the initial LATM scheme and these have addressed most of the 'rat running' issues in the area. However smaller levels of through traffic were highlighted by the community and examined during the study. The prominent traffic routes are illustrated in Figure 10 and discussed below:

- Edgeware Road right turning traffic into Cross Lane and Metropolitan Road to bypass the No Right Turn restriction at Edgeware Road and Enmore Road intersection. An examination of the traffic count data indicate that the eastbound traffic volume in Cross Lane peaked at 149 vehicles during the AM peak hour.
- Enmore Road right turn into Bailey Street and Goddard Street and enter King Street to bypass the right turn restriction at Enmore Road and King Street intersection. Traffic count data revealed 66 vehicles travelling southbound in Bailey Street during the PM peak hour.
- King Street left turn into Holt Street and Station Street to enter Enmore Road in order to bypass traffic queues at King Street and Enmore Road traffic signals. Traffic count data revealed 186 vehicles travelling westbound in Holt Street and 174 vehicles travelling northbound in Station Street during the PM peak hour.
- Camden Street and Clara Street have been reported from the community as rat running streets however existing traffic data indicates that this would be low in volume during the peak hour.

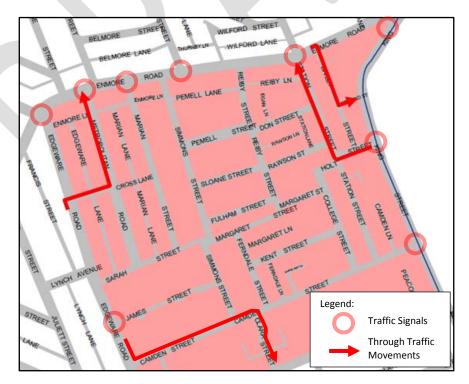


Figure 10: Prominent Through Traffic in the Newtown Study Area



4.3 Performance of Signalised Intersections

There are a total of 11 signalised intersections within the study area, with six (6) traffic signals along Enmore Road and four (4) in King Street. Two traffic signals exist in both Alice Street and Edgeware Road. Both Enmore Road and King Street feature 6am-10am Clearway restrictions for the citybound parking lanes, and 3pm-7pm Clearway restrictions for the parking lane traffic coming from the city.

The traffic signals in the study area are coordinated and part of the Sydney Coordinated Adaptive Traffic Systems (SCATS) where cycle and phase times are constantly adjusted depending on the traffic situation. It is understood that traffic signals in King Street and Edgeware Road are prioritised to meet the morning city bound traffic demand and vice versa during the afternoon peak.

A Traffic Impact Assessment was undertaken by The Transport Planning Partnership (TTPA) and Bitzios Consulting in 2017 for the Marrickville Metro Expansion Section 75W application. The study included both existing and future scenarios of the road network with the expanded Marrickville Metro shopping centre. The microsimulation modelled a number of intersections near the development site in VISSIM, including the two signalised intersections of Edgeware Road at Alice Street and at Enmore Road. The report found existing performance of signalised intersections along Edgeware Road with results in Table 6.

	Thursday	PM peak	Saturday AM peak		
Intersection	Level of	Av. Delay	Level of	Av. Delay	
	Service		Service		
Edgeware Road/ Alice Street/ Llewellyn	С	29.9s	В	28.9s	
Street					
Edgeware Road/ Enmore Road/ Stanmore	В	21.7s	В	19.3s	
Road					

Table 6: Traffic Signal Performance in Edgeware Road/Alice Street and Edgeware Road/Enmore Road

5. Crash Statistic Analysis

5.1 Background

Crash information reported by NSW Police is managed by the RMS, with the latest 5 year period used for this study is the accident data ranging from 1 July 2012 to 30 June 2017.

From October 2014 the NSW Police has ceased reporting tow away accidents with the exception where there are any persons killed or injured, or where a driver fails to swap details, or where a driver is suspected to be under the influence of drug or alcohol.

A total of 155 accidents are recorded from the data provided by the RMS for the 5 year period ending in June 2017. It should be noted that out of the 155 accidents 5 accidents were located in local roads, and 56 accidents along regional roads.

5.2 Crash rate by time

A summary of the total crashes by year is provided in Figure 11. The Figure indicates that the total level of accidents have decreased after 2014 as the NSW Police have stopped reporting tow away accidents. This is reflected in the consistent number of injury accidents from 2014 to 2016.



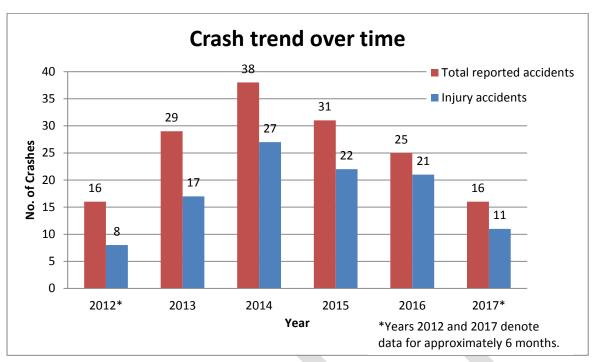


Figure 11: Crash trend over time in the Newtown study area

The traffic accident database provided by the RMS uses Road User Movement (RUM) code which is used to identify crash types. For example a 'Right Through' accident (RUM Code 21) is classified as an accident between two vehicles travelling in opposing directions, with one of the vehicles turning right colliding into another travelling in the opposing direction. A list of the RUM codes and associated data for the Newtown study area is referenced in appendix E.

Crash rates for the study area have been compared with the rates for the Inner West Council local government area as well as the rates by the Roads and Maritime Services for metropolitan urban local and collector roads.

Crash Summary by Road User Mov	RUM Code Classification	Total Reported Accidents	Total Injury Accidents
Pedestrian	0-9	27	27
Adjacent Directions, intersections only	10-19	9	4
Opposing Vehicles	20-29	24	18
Same Directions	30-39	56	35
Parking/U-Turns	40-49	13	3
Overtaking	50-59	0	0
On Path	60-69	9	8
Off Path, On Straight	70-79	14	9
Off Path, On Curve or Turning	80-89	2	1
Miscellaneous	90-99	1	1
	Total	155	106

Table 7: Crash Summary by Road User Movement (RUM) Code Classification



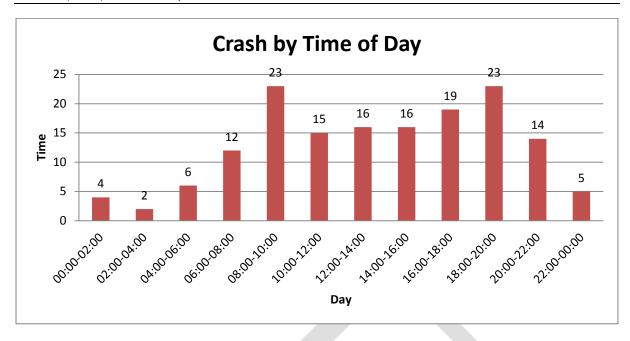


Figure 12: Crash in study area by time of day

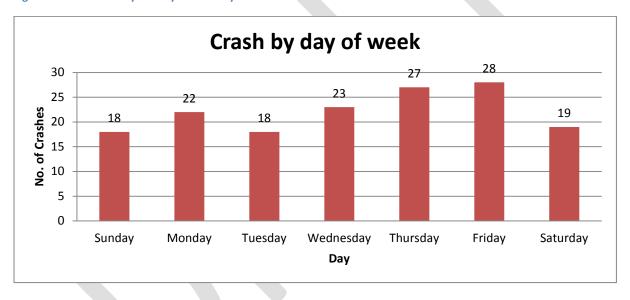


Figure 13: Crash in study area by day of week

Figure 14 illustrates that apart from the five accidents, most (96.7%) of the accidents have occurred within the arterial roads and regional roads. Further examination of the traffic accident data indicate that the top three accident types in RUM category codes are:

- RUM Code 30: rear end attributing 20% of total recorded accidents
- RUM Code 21: right through attributing to 12.9% of total recorded accidents
- RUM Code 0: pedestrian near side attributing to 9.7% of total recorded accidents

Enmore Rd & Phillips St Enmore Rd & Bailey St Enmore Rd & London St 8 total accidents 6 total accidents 2 injury right through accidents 3 injury right through accidents Enmore Rd & Station St 5 total accidents 13 total accidents 2 right through accidents 4 injury ped accidents Enmore Rd & King St (1 injury) 12 total accidents 2 ped injury accidents 3 lane change accidents (1 injury) King St & Goddard St Enmore Rd & Reiby St Enmore Rd & Metropolitan Rd 1 parking vehicle accident 7 total accidents 3 of 4 injury right through accidents involved motorbike King St & Holt St Enmore Rd & Edgeware Rd 1 injury right through accident 13 total accidents 4 lane change accidents (1 injury) 3 cross traffic accidents (1 injury) 2 right through accidents King St & Camden St 2 total accidents & Sarah St King St & St John St 5 rear end accidents (4 injury) Edgeware Road & 2 total accidents Alice St & King St 2 total accidents Alice St & Clara St are Rd & Llewellyn St & Alice St 15 total accidents 4 injury ped accidents 3 injury right through accidents 4 rear end accidents (3 injury)

Figure 14: Reported traffic accidents from RMS database July 2012 to June 2017

5.3 Motorbikes and Cyclists Crashes

Crashes involving motorbikes represent 16.8% of all accidents which is higher than the NSW average of 10.1% however it should be noted that there is a higher patronage of motorbike and scooter use in the Inner West Local Government Area (LGA). This reflected in the higher overall proportion (12%) of all accidents in the Inner West LGA. Of the 26 accidents involving a motorbike, eight (8) comprised of RUM Code 21: right through, two crashes were RUM Code 20: head on, and two RUM Code 37: left turn side swipe. Most accidents involving motorbikes (22 of 26) were reported with an injury.

Pedal Cyclists are likewise overrepresented as 14.2% of accidents involve pedal cyclists, and is higher than the NSW average (3.6%) and the Inner West LGA average (6%). All 22 incidents involving cyclists



are recorded as injury accidents, with five (5) right-through crashes and five (5) vehicle door crashes. Out of the cyclist vehicle door crashes, it was noted that four of the five occurred during night.

Figure 15: Crash Frequency in the Newtown Study Area by Road User Movement (RUM Code)

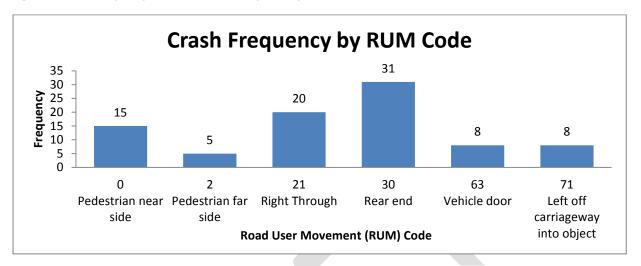


Figure 16: Crashes involving a pedal cyclist

Figure 17: Crashes involving a Pedestrian

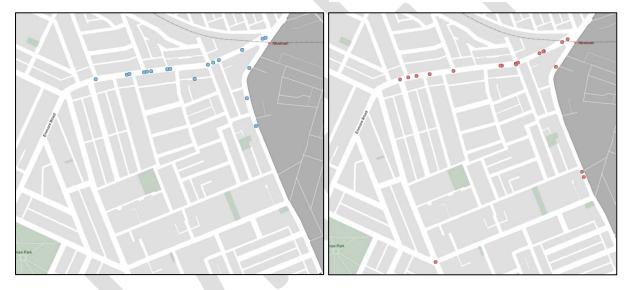


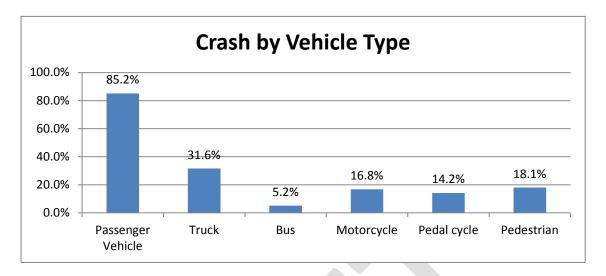
Figure 18: Crashes with speeding a factor

Figure 19: Crashes involving a motorbike





Figure 20: Crash by vehicle type



5.4 Pedestrian safety

Crash locations shown in Figure 14 indicate that pedestrian accidents have been located within state and regional roads. Out of 28 injury accidents reported, 15 comprised of RUM code 0: near side and five (5) accidents reported with RUM code 2: far side. Considering that 16 accidents have occurred over 800m length of Enmore Road between Edgeware Road and King Street, this averages to approximately two accidents every 100m along Enmore Road. A comparison with other town centres such as Marrickville Road show similar rates of accidents. Recognising that 100% of reported pedestrian accidents resulted in some form of injury, both the RMS and Council is mindful of the importance of pedestrian safety, including the elderly and young children. Council's road safety officers regularly undertake local preventive strategies and road safety awareness campaigns in Inner West.

Recently a number of 'look out before you step out' stencils at 43 locations in Enmore Road and King Street, Newtown were installed as part of the road safety strategy. These have been in installed in high pedestrian activity areas and there were some media coverage in The Courier in 14 August 2018. Photos in Figure 22 show some example locations of kerb ramps where these stencils were installed.

A preliminary investigation was undertaken for possible kerb extensions along the three existing pedestrian refuge islands in Alice Street. Pedestrian safety could be improved through the provision of kerb extensions which reduce the pedestrian crossing distance and exposure to the road carriageway when crossing. As the RMS technical direction TDT2011/01a allows a reduced approach and departure No Stopping zones at refuge islands with kerb extensions, this option could potentially increase the supply of on-street parking in Alice Street by up to three (3) spaces.

Further investigation revealed some areas required the relocation of underground services lines and stormwater drainage pits which significantly increased the project cost. Most kerb extensions also prevented truck turning movements in and out of the side streets, as well as creating a squeeze point for on-road cyclists in Alice Street. Accordingly kerb extensions were not considered feasible and excluded from the recommendations.



Figure 21: Total Injury Accidents by Road User Movement (RUM) Category

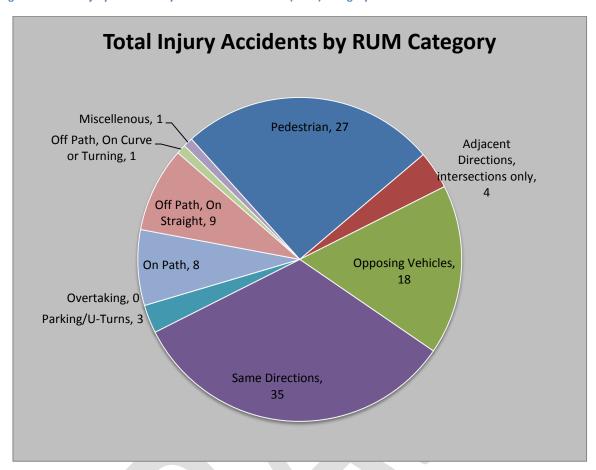




Figure 22: Look Before You Step Out patches in King Street, Newtown and Enmore Road, Enmore



6. Future Conditions

Future traffic conditions were considered as part of the study with the main contributors comprising of traffic generation from within the study area, and also some traffic generated outside of the study area.

6.1 Marrickville LEP

The Marrickville Local Environment Plan Zoning Map show that the Newtown study area includes a mixture of residential (R2, R3 and R4 zoning) with commercial (B2 local centre zoning) areas predominantly along King Street and Enmore Road. Significant developments in this area include the following:

- Sydney Design Centre Enmore (DEC) TAFE, located on the south western end of the study area. The venue provides tertiary education courses in the creative design courses. The establishment provide off-street parking for approximately 151 vehicles.
- The Enmore Theatre is one of the oldest established performance and entertainment venues in NSW. As the venue has been operating since 1908 there are no off-street parking facilities and has an arrangement the DEC TAFE in Edgeware Road, offering parking spaces for a fee to patrons who have already purchased tickets for at the theatre between 6pm and 12am during event days. Typically, all of the 151 spaces are available for a Saturday event and approximately 40 spaces are available for a Wednesday evening event as a result of evening courses in the TAFE College.
- Newtown High School of the Performing Arts, located outside the study area east of King Street and within close distance to Newtown Rail Station, is a secondary school of approximately 1,000 students.
- Newtown Public School provides education for about 400 child enrolments (Kindy to year 6) and is located outside the study area, near Newtown High School east of King Street.
- Camdenville Public School a Preschool to year 6 public school with about 250 children enrolment is located outside the study area in Laura Street. Most of the Newtown Study Area falls within the catchment for this school.
- Golden Barley Hotel, located outside of the study area is located at the intersection of Edgeware Road and Llewellyn Street, is a local pub and dining venue. The Warren View Hotel is also positioned outside the area at the intersection of Enmore Road and Edgeware Road.
- 32-72 Alice Street, located outside of the study area, is a mixed retail and residential development recently constructed and currently zoned as B4 'mixed use'. The site also runs a child care centre with capacity for 32 children and 10 staff.

6.1.1 Lane Zoning within the Study Area

Shown in Figure 23, a description of the land zones contained within the study area consists of the following:

Zone R1 - R1 General Residential: This zone is to provide for a broad variety of residential
densities and housing types, including dwelling houses, multi-dwelling housing, residential
flat buildings, boarding houses and seniors housing. The zone also includes additional uses
that provide facilities or services to residents, including neighbourhood shops, community
facilities, child care centres and respite day care centres.



- Zone R2 Low Density Residential: This zone is intended to be applied to land where primarily low density housing is to be established or maintained. Typically the zone features detached dwelling houses, but it may be appropriate to include dual occupancy (attached or detached) or some multi-dwelling housing. This is the lowest density urban residential zone and the most restrictive in terms of other permitted uses considered suitable. These are generally restricted to facilities or services that meet the day-to-day needs of residents.
- Zone R3 Medium Density Residential: This zone provides similar characteristics as the Zone R1 however there is a higher level of density permissible under the Marrickville Local Environment Plan 2011. A number of lands with this zoning are positioned adjacent to Alice Street.
- Zone R4 High Density Residential: Similar to Zone R3, this zoning permits a higher level of density than the Zone R3. There are scattered R4 zoning within the study area, with some positioned generally adjacent to Alice Street and behind King Street and Enmore Road Local Centre areas.
- Zone B1 Neighbourhood Centre: The zone is for neighbourhood centres that include small-scale convenience retail premises (neighbourhood shops), business premises, medical centres and community uses that serve the day-to-day needs of residents in easy walking distance. Shop top housing is permitted in the zone, and other mixed use development may be considered appropriate.
- Zone B2 Local Centre: This zone is for local centres that include commercial business use, medical centres, restaurants and community uses within a town centre with accessible and easy walking distance from public transport. This zone also provides for residential accommodation in the form of shop top housing and other uses such as educational establishments, entertainment facilities, function centres, information and education facilities, office premises and tourist and visitor accommodation. Such a mix of uses will increase walking, cycling and public transport options for more people by making more activities available in one location. This is the dominant land type for properties fronting Enmore Road and King Street.
- RE1 Public Recreation: This zone is generally intended for a wide range of public recreational areas and activities including local and regional parks and open space. The two RE1 zoned land include Salmon Playground in Station Street and Matt Hogan Reserve between Alice Street and Camden Street.
- RE2 Private Recreation: This zone is generally intended to cover a wide range of recreation
 areas and facilities on land that is privately owned or managed. The use of facilities
 developed on this land may be open to the general public or restricted e.g. to registered
 members only. Currently there is one land in Metropolitan Road with this classification and
 is occupied by the Enmore Fijian Seventh Day Adventist Church.
- SP2 Infrastructure: Infrastructure land that is highly unlikely to be used for a different purpose in the future should be zoned SP2, for example cemeteries and major sewage treatment plants. The TAFE Design Centre Enmore including the TAFE Park is zoned under this classification and is positioned at the corner of Sarah Street and Edgeware Road.



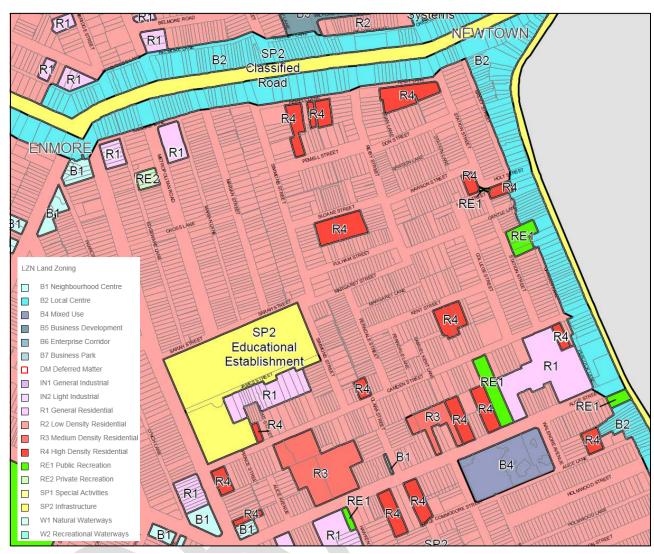


Figure 23: Land use zoning in the study area under the Marrickville Local Environment Plan 2011

6.1.2 Planning Proposal - Marrickville Local Environment Plan 2011 Amendment No. 4

In 2018 the Inner West Council has made a number of changes to the Marrickville Local Environment Plan (LEP) 2011, comprising of changes to land rezoning, height of buildings, floor space ratios, listing of 2 heritage items and 32 archaeological sites. Specifically the following land zoning changes are proposed within the Newtown LATM study area includes:

- Peacock Lane: change of land zoning at the northern end of Peacock Lane, from B2 'local centre' to zone SP2 'local road' extending the laneway to Camden Street, providing improved rear vehicular access to shopfront properties.
- James Street: change of land zoning along the south side of the street from Simmons Street to the western cul-de-sac to facilitate minor road widening. It is proposed to change from land zoning R1 'general residential' into SP2 'load road'.

Details of the above land rezoning are shown in appendix K.



6.2 Future developments in the immediate area

The existing LEP zoning maps indicate that there would be small high density developments limited to 14m height of buildings for the scattered R3 and R4 zones area. With most of the local street areas being R2 zoning, future developments would be minor and residential in nature.

6.2.1 Developments along King Street and Enmore Road

The sites identified along B2 Local Centre zones in King Street and Enmore Road could potentially increase retail and commercial floor areas, resulting in increased trips to the area. Residential dwellings are also possible along the B2 Local Centre zone, with building height limited to 14m and floor space ratio (FSR) limited to 1.5:1 along these areas.

Transport and Urban Planning in 2011 completed a Section 94 Traffic and Transport Study which looked at a 2031 scenario where additional developments were identified along the King Street and Enmore Road retail corridor. The report based its findings from the draft Sydney Subregional Strategy (dSSS) where 4,150 residential dwellings were proposed in the former Marrickville Local Government Area. As illustrated in Figure 24 Enmore Road and King Street precinct would accommodate 154 and 100 dwellings respectively. Calculating traffic generation using the RTA Guide to Traffic Generating Developments version 2 these two precincts would generate 58 and 38 additional vehicle trips in the PM peak hour respectively, which would not significantly contribute to the existing road congestion.

The recently released Greater Sydney Commission Eastern City District Plan 2018 has identified 5,900 additional dwellings within the amalgamated Inner West Council area. Applying this level of additional dwellings the level of additional trips from the Enmore Road and King Street precincts would result in similar levels of traffic generation found in the 2011 report.

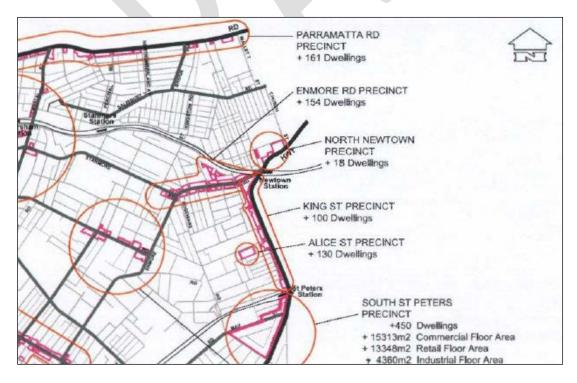


Figure 24: Estimated dwellings in 2031 from S94 Traffic and Transport Study by Transport and Urban Planning 2011



6.2.2 Marrickville Public Domain Masterplans for King Street & Enmore Road

The Marrickville Public Domain Masterplans 2014 sets out Council's vision to provide a consolidated planning and management direction that enables high priority short term works to be implemented as part of a holistic long term framework in relation to public domain upgrades including street and footway environments. The vision generally aims to apply a consistent pavement and kerbing approach, and simplify choice of material to open visual scale of pedestrian areas.

A public domain masterplan was created for the King Street and Enmore Road commercial area, with a vision to 'declutter the King Street and Enmore Road and create respite on side streets'. The masterplan makes recommendations to investigate opportunities to improve crossing of side streets along the main streets through kerb extensions, threshold treatments, road closures and localised shared zones. Appendix P provides urban design principles and concept for the King Street/Enmore Road area.

6.2.3 Marrickville Metro Expansion

Marrickville Metro is located outside of the study area however as it is a significant regional shopping centre it is expected to generate traffic trips through roads such as Edgeware Road and Alice Street. Stage 1 of the development is proposed to add approximately 10,000 square metres of retail space, additional two levels of off-street carpark and improved bus, and taxis. Stage two will be built above the existing centre will add approximately 6,000 square metres of additional retail space and new loading docks. Smidmore Street will be permanently closed between Edinburgh Road and Murray Street, creating a pedestrian plaza while retaining car parking access at the western end. The two development stages will also increase the carpark capacity from 1,108 to 1,815 spaces.

Studies indicate that the development will generate a total of 1,573 vehicles per hour during a Thursday evening peak, and 2,573 vehicles per hour during a Saturday daytime peak hour.

The expansion of the Marrickville Metro Shopping Centre was first granted approval in March 2012 by the NSW Department of Planning and Environment as a Part 3A Major Projects approval. The developer and Council are currently reviewing a voluntary planning agreement which is expected to be reported to Council in the near future.

The Traffic Impact Assessment report proposes to change the existing daytime Mon-Fri parking restrictions along the eastern side of Edgeware Road between Alice Street and Victoria Road to include the Saturday peak periods.

6.2.4 WestConnex

The WestConnex scheme proposes improvements to the Sydney's main motorways mainly the M4 Western Motorway, the M4 East, Connection from M4 east to the Sydney CBD and the M5, including a connection to the Sydney Airport and Port Botany, including inner west suburbs. The project is expected to significantly produce high levels of population and employment growth and changing land use driving further forecast growth along the proposed corridor.

A major interchange is proposed at St Peters south of Sydney Park, providing a major access to Sydney Airport and Port Botany. The strategic traffic forecasting model developed by RMS indicates a reduction of through traffic from local roads, however concerns are raised by the community that the traffic condition in the road network in the inner west will be adversely affected due to the



congested citybound traffic in peak periods. Council is currently working with the RMS to ensure impacts to local residents are minimised.

6.2.5 Westconnex Local Area Improvement Strategy

Inner West Council in 2017 initiated a study to develop a Local Area Improvement Strategy in order to minimise impacts to the local community in the Inner West affected by the WestConnex project. Council is concerned about the level of through traffic in the Inner West through drivers avoiding to pay tolls or where WestConnex has missing links to key destinations.

The strategy was undertaken by BECA Consulting and has undertaken further work on the 'Zenith' strategic traffic model obtained from Veitch Lister Consulting (VLC). Traffic flows outputs associated with various scenarios incorporating the stages of WestConnex were interrogated to identify routes where transport conditions may change as a result of WestConnex projects. The key addition to the revised traffic model was the addition of key local roads to the model network to investigate the potential 'rat-running' through as a result of various stages of the WestConnex project. The report highlights the significant changes to the volume of roads in the study area such as Edgeware Road and Llewellyn Street. Appendix I outline the anticipated change to Edgeware Road affected by the St Peters Interchange works, and the proposed recommendations on Edgeware Road.

The Edgeware Road treatments described in Figure 31 have not been added to the current LATM scheme as these treatment proposals will required further investigation and community engagement before final draft schemes can be considered.

6.2.6 King Street Gateway

The King Street Gateway project proposes a number of changes in Princes Highway and King Street with a view to reduce road carriageway and expand the pedestrian footpath areas. The project is currently managed by the RMS in collaboration with City of Sydney and Inner West Councils and expected to be delivered in parallel with the Westconnex project. The key objectives of the project included exploring opportunities to:

- Downgrade of Princes Highway and Sydney Park Road by limiting capacity of Princes
 Highway north of Campbell Street (as supported by operational traffic modelling and
 consistent with the WestConnex project) to achieve a balance for all users including road
 (vehicles, cyclist and buses) and pedestrians;
- Improve the 'gateway' to King Street by changing the area around the entry to St Peters station and the entry to Sydney Park and the movement between these areas to provide a better pedestrian environment;
- Support future activity along Princes Highway south of King Street by mirroring the existing activity mix that exists along King Street;
- Utilise roadway space outside of trafficable lanes as some or all of bus lanes, parking or landscaping;
- Improve the footpath environment through widening and other measures;
- Reduce road lane widths and increase space for pedestrians and cyclists consistent with proposed road usage and place making;
- Improve at-grade pedestrian and cyclist access to Sydney Park across the Princes Highway (north of Campbell St) and across Sydney Park Road.

An AIMSUM strategic traffic model undertaken by the RMS for the WestConnex for the project indicates that traffic volume will be lower in King Street (Princess Highway) north of Campbell Street.



The project is expected to decrease through traffic in King Street where traffic is predominantly for local business and residents.

6.2.7 Alexandria to Moore Park Connectivity Upgrade

RMS has initiated this project as there is a need to reduce travel time, improve connectivity and support urban growth in the southern fringe of Sydney CBD. The project will improve east-west travel and access through Euston Road, McEvoy Street, Lachan Street and Dacey Avenue. This improvement will assist in the reduction of through traffic along King Street as it provides an alternative route to the CBD through Moore Park from Princes Highway. The connectivity upgrade will also link to the proposed Westconnex Interchange in St Peters. At the time of this report RMS has accepted comments from the community and has incorporated them in a Review of Environmental Factors (REF) planned for release sometime in 2018. It is expected that the RMS will again undertake stakeholder and community consultation with the REF to progress the project.

6.2.8 Sydney Metro

Sydney Metro forms part of Sydney's Rail Future, a plan released by the NSW government in 2012 which identifies staged programs to meet Sydney's growing population and transport needs. The Sydney Metro Northwest (formerly the North West Rail Link) was proposed in 2012 as part of stage 1 of Sydney's new metro network. In 2014 the rail line was extended to include the Sydney CBD and link through the inner west suburbs including Waterloo, Sydenham, Marrickville, Dulwich Hill, and to Bankstown. Currently the project is in the construction stage with the main excavation works in progress.

The service is expected to deliver trains arriving every 4 minutes during the peak hour and travel time savings compared to existing rail services. Upgrades to the Sydenham station and subsequent stations to the west along the current T3 Bankstown line are in progress, including full lift access, and improved transfer to buses, taxis, bicycles, and drop off and pickup areas.

The Sydney Metro will operate alongside Sydney Trains to bring greater capacity to public transport in particular along the existing T3 line. The Sydney Metro line will operate independently with existing heavy rail lines, and will not be affected by delays or issues from the rail lines. The project should make public transport a more attractive option and assist in lowering the dependence of car ownership in this area. Figure 25 shows the proposed Sydney Metro network, including Chatswood to Bankstown line.





Figure 25: Proposed Sydney Metro Network

7. Community Consultation Overview

Inner West Council undertook a series of community consultation regarding traffic and safety in the Newtown Precinct. A summary of consultation taken concerning the study area include the following:

- Initial consultation invitation for comment on improving traffic and parking. Approximately 3,300 letters were sent out to owners and occupiers within the study area to gauge local issues. The letters were posted on 6 June 2018 and submissions closed on 4 July 2018.
 Council's YourSay website had 485 visits and 243 completed online surveys were received.
- Public Exhibition the proposed scheme was put in exhibition for 28 days from xxx and following the exhibition the matter was to be referred to the Inner West Local Traffic Committee for consideration.

7.1 Review of Council's Record System prior to the study

An analysis of Council's record system spanning from 2012 to 2018 show a varied range of traffic and parking related matters. Table 8 outline the number of letters or concerns within the Newtown study area which was counted prior to the commencement of the Newtown LATM study. In general the issues raised were mostly concerning parking, whilst some covered safety issues at intersections. There were small numbers of submissions covering traffic volume, heavy vehicles and bicycle safety.



Table 8: Number of concerns rose 2012-2018 related to traffic and parking prior to study

				Issues	raised l	oy comr	nunity			
Street	Road Classification	parking	speed	heavy vehicles	traffic volume	bicycle safety	other	dangerous intersection	pedestrian crossing/safety	Total
Alice Avenue	Access Way		1					1	2	4
Camden Lane	Access Way	5	1							6
Cross Lane	Access Way				1		1			2
Edgeware Lane	Access Way									0
Egan Lane	Access Way									0
Ferndale Lane	Access Way	1								1
Marian Lane	Access Way	1						1		2
Peacock Lane	Access Way									0
Pemell Lane	Access Way	2								2
Rawson Lane	Access Way					Â				0
Reiby Lane	Access Way									0
Samuel Kent Lane	Access Way									0
Station Lane	Access Way									0
Bailey Street	Local		1				1			2
Camden Street	Local						1			1
Clara Street	Local									0
College Street	Local									0
Don Street	Local									0
Ferndale Street	Local	1								1
Fulham Street	Local									0
Goddard Street	Local									0
Holt Street	Local	2							1	3
James Street	Local									0
Kent Street	Local									0
Margaret Street	Local									0
Marian Street	Local						1			1
Metropolitan Road	Local		1							1
Pemell Street	Local									0
Rawson Street	Local	1								1
Reiby Street	Local									0
Sarah Street	Local						1			1
Simmons Street	Local	1		1						2
Sloane Street	Local									0
Station Street	Local	2	1							3
Alice Street	Regional	1				1	1	3	2	8



Edgeware Road	Regional		1		1			7	1	10
Enmore Road	State									0
King Street	State								1	1
Tot	al	17	6	1	2	1	6	12	7	52
		parking	peeds	heavy vehicles	traffic volume	bicycle safety	other	dangerous intersection	pedestrian crossing/safety	

7.2 Initial Consultation

Initial Consultation undertaken in June and July 2018 was to obtain local safety and traffic issues within the Newtown Study Area. The highest received issue raised were traffic volumes in King Street and Alice Street, with a smaller level of concern on Edgeware Road and Enmore Road.

Concern over heavy vehicles was received in King Street, Edgeware Road and Alice Street. Amongst these some specified trucks associated with current works such as the Westconnex and Sydney Metro projects. Some have raised truck movements in King Street near Sydney Park which falls outside of the study area.

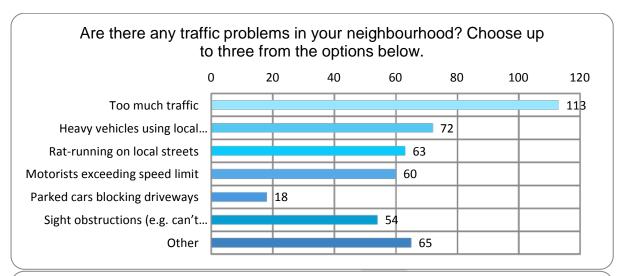
Station Street was the highest rated street for rat running, followed by the Metropolitan Road and Camden Street as described in section 4.2.5 and Figure 10 in this report.

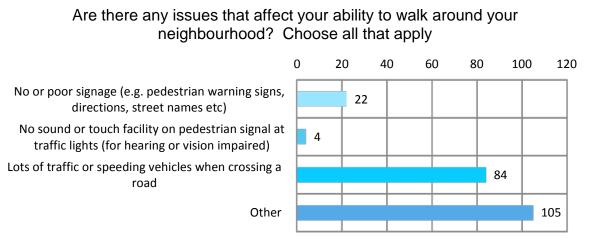
Speeding vehicles along larger state and regional roads were an issue and less along local roads in the study area. Some were associated with parking issues, and several made comments about the narrow footpaths in local roads. Figure 26 and 27 provides a summary of the initial consultation undertaken.

Figure 26: Most selected locations for each issue during the initial community consultation

Issue	Location	Count	Issue	Location	Count
Too much traff	ic		Exceeding spe	ed limit	
	King Street	26		Alice Street	14
	Alice Street	24		King Street	13
	Edgeware Road	15		Edgeware Road	11
	Enmore Road	16		Enmore Road	9
Heavy vehicles	;			Station Street	8
	Alice Street	11		Camden Street	5
	Edgeware Road	14		Simmons Street	5
	King Street	23		Marian Street	4
	Camden Street	5		Reiby Street	3
Rat running				Clara Street	3
	Station Street	16	Sight obstructi	ion	
	Camden Street	12		Clara Street	11
	Metropolitan Road	11		Camden Street	10
	Cross Lane	10		Simmons Street	7
	Clara Street	6		College Street	5
	Alice Street	5		Reiby Street	4
	Holt Street	7		Ferndale Street	2
	Simmons Street	5	Other		
	Fulham Street	4		Enmore theatre related	9
	Bailey Street	3		Pedestrian related	9
Parked cars	<u>.</u>	•		Road too narrow	7
	Simmons Street	2		Truck related	5
	Alice Street	3		TAFE related	4
				Cyclist related	4







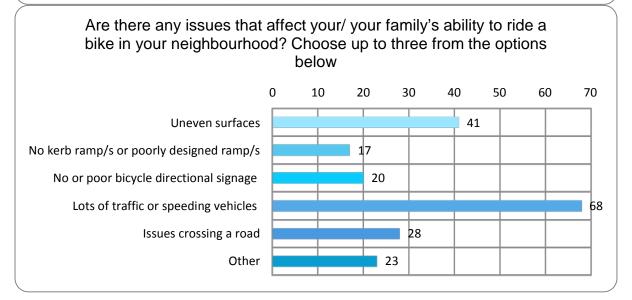


Figure 27: Initial Survey Question Results



7.3 Public Exhibition

The draft Newtown LATM report was considered by the Inner West Local Traffic Committee in November 2018 and adopted at Ordinary Council Meeting on xx November 2018. The draft report was put in public exhibition for 28 days commencing from xx to xx. Hard copies of the report were made available in in Petersham, Leichardt and Ashfield Customer Service Centres. Inner West Council's YourSay website provided opportunities for the public to make comment on the draft report and access copy of the report. The exhibition was advertised in Inner West Courier on xx.

A feedback summary from the submissions is provided in appendix H.

8. Newtown LATM Scheme Review

8.1 Introduction

Sections of this report have provided a good understanding of the existing traffic conditions and future traffic projection within the Newtown study area. The issues identified in these sections form the basis for developing mitigation measures which appropriately address the issues to further improve safety and public amenity through this area.

The LATM scheme aims to align with the parking management principles outlined in the Marrickville Integrated transport Strategy 2007. The document "provides the rationale and recommended actions for addressing local transport issues and moving towards sustainable transport – that is, reducing car use and increasing use of public transport, walking and cycling."

8.2 New LATM Treatment Proposals

The proposed scheme is a collection of physical and strategic measures to improve safety and encourage walking and cycling in the area. The treatment options include the following, with concept plans for the treatment below proposals provided in appendix G:

- Continuous footpath treatment & shared zone (7 locations)
- Local road entry treatments (Metropolitan Road and Station street)
- Kerb blister treatment in Metropolitan Road & Cross Lane
- Safety improvements at local road intersections
- Edge Line treatment in Pemell Street and College Street
- Formalisation of 40km/h Local Traffic Area
- Safety improvements in King Street & Enmore Road
- Bicycle routes improvements
- Improving traffic flow in regional roads

8.2.1 Continuous Footpath Treatment & Shared Zone

A Continuous footpath treatment is defined by a continuous, at grade footpath across the side street parallel with the main street at the T-intersection. With Continuous Footpath treatment the footpath area would be between 4m-10m in length, whilst a 10km/h Shared Zone is typically provided as a longer zone with continuous traffic calming devices and textured surface to retain low



vehicles speeds. Both treatments will prioritise pedestrians in particular the streets identified along the King Street and Enmore Road shopping strips and align with the design principles from the Marrickville Public Domain Masterplan 2014 for the Newtown area, providing opportunities for:

- Wider footpaths and street furniture
- Bicycle and motorbike parking
- Street trees and landscaped low planting vegetation
- Elimination of kerb and gutter, replaced with attractive paving or stamped asphalt
- Water sensitive urban design (WSUD)

The provision of a continuous footpath treatment would be appropriate for Camden Street and Goddard Street. Benefits of this treatment include improved pedestrian safety, reduced vehicular speeds, enhanced quality and liveability of the area including walking and cycling. By creating both continuous footpath treatment and shared zone treatment on side streets along the King Street and Enmore Road strip this will meet the LATM principles by creating a respite area and improving walkability through the commercial areas.

Preliminary assessments of the roads identified for continuous footpath treatment as outlined in RMS technical direction TDT2013/05 and shared zone are provided in Table 9 and 10.

	Goddard Street	Camden Street
Main Street	King Street	King Street
Average Annual Daily Traffic (AADT)	<400 (estimated)	434.7
Peak Hourly traffic volumes	<45 (estimated)	31.9
		28.9
		27.0
One way/Two way	One way	Two way

Table 9: Preliminary continuous footpath treatment assessment

A shared zone treatment is proposed for Bailey Street, Reiby Street, Simmons Street, Marian Street and Holt Street. A preliminary assessment indicates that these streets except Holt Street would meet the Transport for NSW policy and guideline SS/12/01 and RMS Technical Direction TTD2016/001 for a category 2 shared zones. Shared zone treatments will also feature textured surface treatment, speed cushions, designated parking spaces, regulatory signs, including a reduced 10km/h speed limit which will require the approval of RMS.

	Bailey Street	Reiby Street	Simmons	Marian	Holt Street
			Street	Street	
Between	Enmore	Enmore	Enmore	Enmore	King Street &
	Road & No.2	Road &	Road &	Road &	Station
	Bailey Street	Pemell Lane	Pemell Lane	Enmore Lane	Street
Proposed length of shared zone	30m	50m	50m	44m	100m
Average Annual Daily Traffic (AADT)	693	683	806	364	1,451
Is the current speed limit ≤ 50 km/h?	Υ	Υ	Y	Υ	Υ
Is the current traffic flow ≤ 100 veh/h and ≤ 1000/day?	Υ	Υ	Y	Υ	N
Is the speed limit on approaching roads ≤ 50 km/h?	Υ	Υ	Υ	Υ	Υ



	Bailey Street	Reiby Street	Simmons Street	Marian Street	Holt Street
Is the length of the proposed scheme ≤ 400m?	Υ	Υ	Υ	Υ	Y
Along a bus route or a heavy vehicle route except delivery vehicles?	N	N	N	N	N
Min trafficable width of 2.8 m	Υ	Υ	Υ	Υ	Υ
Does the scheme include the removal of kerb & gutter?	Υ	Υ	Υ	Υ	Υ
Propose parking within shared zone?	Υ	Υ	Υ	Υ	Υ
Number of speed cushions proposed	1	2	2	2	2
Textured surface treatment	Υ	Υ	Y	Y	Y

Table 10: Preliminary shared zone assessment

The streets identified for both continuous footpath treatment and shared zones would be suitable for RMS infrastructure funding. Concept plans for the shared zones are provided in Appendix G.

The above assessment indicates that Holt Street currently do not meet the requirements for a shared zone due to its higher traffic volume. Further improvements could be made in this street by undertaking a staged treatment with kerb extensions and bollards, and if this treatment is effective in reducing overall traffic volume to a suitable level, Council could further consider the implementation of a shared zone from King Street to Station Street, subject to RMS approval. Concept plans for the two stages are illustrated in Figure 28 and 29. Both stage 1 and 2 proposals will retain the same parking arrangements in Holt Street and will not result in any loss of on-street parking spaces.



Figure 28: Stage 1 Holt Street proposed kerb extensions west of King Street



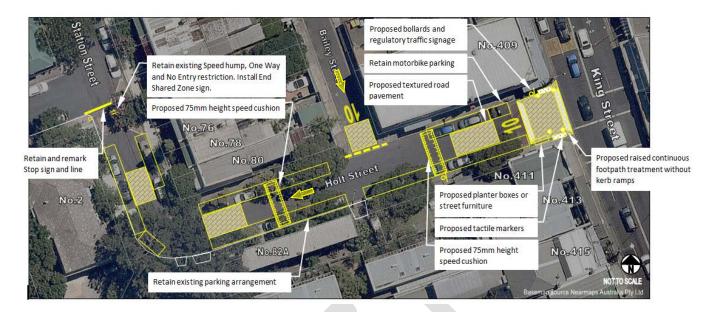


Figure 29: Stage 2 Holt Street proposed shared zone

8.2.2 Local Road Entry Treatments

The aforementioned continuous footpath and shared zone treatments would provide a desirable environment for residential amenity and safety. As Station Street and Metropolitan Road are signalised at Enmore Road, a local road entry treatment is proposed with differing road texture and signage, separating the residential section from the Enmore Road shopping areas. This local road entry treatment will discourage non-residential traffic, including trucks during afternoons and evenings when there are events in the Enmore Theatre. The proposed treatment would not reduce legal on-street parking supply and would not generate significant noise issues in the area. Concept plans for the proposed devices are illustrated in Appendix G, and an example concept plan proposed for Metropolitan Road is shown in Figure 30.



Figure 30: Metropolitan Road entry treatment at Enmore Lane



8.2.3 Additional Kerb Blister Treatments

Metropolitan Road is a local road with comprising of angled parking on one side and parallel parking on the other side, with a generous road width for unimpeded two way traffic flow. The angle parking arrangement south of Cross Lane alternates to the other side and naturally provides a chicane-like environment when occupied by parking. It is proposed to construct suitable kerb blisters to improve delineation as well as help reduce vehicle speeds at this location. Provision of two marked motorcycle parking bays and ramps will be considered in the design to support motorcycle and scooter use in the area. The kerb blister treatment will not remove legal on-street parking.

Cross Lane experiences a high level of through traffic of about 150 vehicles in the in AM peak hour from Edgeware Road. Whilst a permanent road closure or a right turn ban from Edgeware Road will eliminate this issue, this arrangement will not allow local residents to enter their streets and would increase travel distances and time for local residents to legally enter their streets. As an alternative a kerb blister has been proposed east of Edgeware Road to discourage traffic in Cross Lane including trucks.

Concept plans for both sites are illustrated in Appendix G.

8.2.4 Safety at Local Road Intersections

With the majority of the local street arranged in a grid layout, the intersections are perpendicular with most locations having some form of intersection control and parking restrictions to reinforce the NSW Road Rules. It is known that overparking in the area results in an undesirable situation where sight distances at intersections would be compromised. There is a community need to retain on-street parking in the area however it is also important to maintain acceptable safety at local road intersections.

Consideration was given for statutory 10m No Stopping restrictions at local T-intersections on roads generally carrying higher than 600 vehicles daily traffic volume and roads without a suitable vehicle passing area. For consistency with existing intersection controls, the following measures are proposed at intersections below:

- Pemell Street and Simmons Street: Give Way signs and lines across Pemell Street and installation of 10m length Centreline.
- Pemell Street and Reiby Street: Give Way signs and lines across Pemell Street and installation of 10m length Centreline.
- Sloane Street and Simmons Street: Give Way signs and lines across Sloane Street.
- College Street and Camden Street: Give Way signs and lines across College Street and installation of 10m length Centreline.
- Station Street and Camden Street: Give Way signs and lines across Station Street.
- Peacock Lane and Alice Street: Give Way signs and lines across Alice Street.

As Holt Street is a westbound one way road, considerations were given for reduced No Stopping distance at King Street provided that there are no safety or vehicle movement issues. The RMS technical direction TTD2014/05 outline the checklist requirements for reduced No Stopping distance at unsignalised intersections, including a vehicle sight distance assessment, vehicle movement assessment, and others. The risk assessment checklist is provided in appendix M.



8.2.5 Edge Line Treatment in Pemell Street and College Street

Pemell Street and College Street were identified as roads having a wider carriageway of 12.8m and 10.2m respectively, attracting higher traffic speeds. The Austroads Guide to Traffic Engineering – Part 8 Local Area Traffic Management suggest that reducing the available street width is one of the ways vehicle speeds could be reduced. It is proposed that E1 edge line treatment be installed on both sides for the length of Pemell Street and College Street. In addition section 5.3.1 in the RTA Bicycle Guidelines recommends an edge line which could be used to separate parked vehicles and the travelling carriageway in a mixed traffic urban situation bicycle route.

8.2.6 Formalisation of 40km/h Local Traffic Area

The speed and land use environment within the study area were relatively low and comparable to the neighbouring eastern Newtown and Erskineville residential areas where a reduced 40km/h speed limit was established by the RMS as part of the City of Sydney's LATM scheme for those areas. As shown in Table 5, the 85th percentile speeds of all residential streets in the Newtown study area were found to be close to 40km/h. Only three streets listed in Table 11 below had speeds exceeding the 40km/h and these streets have been identified for some form of treatment for a self-enforcing road environment.

Table 11: Local Roads exceeding proposed 40km/h and proposed treatments

Street	85 th Percentile Speed (km/h)	Proposed treatment
Pemell Street	42.1	Edge line treatment on both sides for entire length
Metropolitan Road	41.5	Mid block kerb blister treatment at Cross Lane, entry treatment at Enmore Lane
Simmons Street	40.3	Entry treatment at Pemell Lane, reduced road width and footpath widening work already completed in 2017

As the RMS is the only authority delegated to change speed limits, Council should, with supporting information apply for a 40 local traffic area after the initial treatments are completed. The matter will be referred to the RMS for assessment and consideration of a Speed Zone Authorisation (SZA) in accordance to the Speed Zoning Guidelines. With the exception of the shared zones and continuous footpath treatment areas, entry signage '40 local traffic area' and repeater signage is required and for traffic leaving the area an 'end 40 zone' should be installed as part of the scheme.

8.2.7 Safety Improvements in Enmore Road and King Street

Several safety issues were identified along the two State Roads within the study area. At the intersection of Enmore Road and Bailey Street, three right-through accidents were reported where a vehicle turning right from Enmore Road into Bailey is required to cross two lanes of westbound traffic in Enmore Road. There would be a higher risk for this movement when vehicle queuing on one of the lanes extend s past Station Street. It is suggested that RMS investigate an offset 'Keep Clear' restriction for the westbound lanes of Enmore Road at Bailey Street allowing for improved sight distance for right turn vehicles during the afternoon peak hours.

At the signalised intersection of Enmore Road and Metropolitan Road, three of four injury accidents were right through accidents involving a motorbike. The time of the accidents were all in the afternoon where westbound traffic is operating in two lanes and does not feature a dedicated turn



phase from Enmore Road to Metropolitan Road. It is likely that when westbound vehicles in Enmore Road queue across the intersection in lane 2 and a vehicle (or motorbike) turning right into Metropolitan Road is looking for a gap in both westbound lanes. A 'Do Not Queue Across Intersection' for westbound traffic could prevent the incidence of vehicles queuing and improve safety for both vehicles and motorbikes turning right.

The accident statistics for bicycles are considerably higher in King Street and Enmore Road. Enmore Road is a regional route (RR08) and King Street is a local cycling route (LR10) in the Marrickville Cycling Strategy (2007). The prevailing road conditions in both streets feature approximately 12.8m wide carriageway, with several bus stops and frequent services, filter right turning vehicles at intersections and high turnover of on-street parking throughout the day. The RMS could investigate the provision of 'Watch for cyclists symbolic' signs at Enmore Road between Metropolitan Road and King Street, and at King Street north of King Street and Enmore Road.

Appendix J contains the above proposals to be referred to the RMS for consideration.

RMS data indicate that Enmore Road and King Street carries 28,300 vehicles and 19,900 vehicles daily respectively. As they are located in close distance to public transport stations, and a commercial shopping precinct they are desirable locations where pedestrian movements would be high. Both state roads appear to meet categories A and B as listed in appendix A for a pedestrian precinct treatment from the 40km/h High Pedestrian Activity Area Guidelines by the RTA (2006), however both roads play an important role in the state road network and due to the high traffic volume they would not meet the guidelines for a 40km/h High Pedestrian Activity Area (HPAA). The guidelines recommend further treatments to separate pedestrian and vehicular traffic such as pedestrian fencing and improved pedestrian crossing facilities.

Council has examined a section of Enmore Road between King Street and Bailey Street having three (3) reported pedestrian injury accidents in the past 5 year history. This 200m section between two traffic signals has a high level of pedestrian activity, where pedestrians were observed crossing Enmore Road at any random sections between Bailey Street and King Street. The south side footpath is particularly narrow at approximately 2.0m. During the afternoon peak hours pedestrian access through this area is more difficult due to the limited path width and further constrained by parking meters, A-frame boards, and commercial rubbish bins. Some form of kerbside pedestrian fencing was considered at this location however this would not completely prevent pedestrian movements across Enmore Road as fence gaps are required at existing driveways. The idea will also create a barrier for pedestrians accessing to and from kerbside parking.

8.2.8 Improving Traffic Flow in Regional Roads

On approach to signalised intersections on regional roads (Alice Street and Edgeware Road) peak hour parking restrictions allow for two lane operations. While this has been in place for some years, vehicles illegally parked during the peak hour affect traffic flow and intersection performance. It is proposed to extend the dual lane linemarking and terminating where unrestricted parking ends, specifically:

 Alice Street approach to King Street: extend eastbound dual lane markings by approximately 44m and terminate edge lines at the driveway 9m east of No.19 Alice Street, matching the existing 'No Parking 6am-10am Mon-Fri' zone.



- Alice Street approach to Edgeware Road: extend westbound dual lane markings by approximately 50m, matching the existing 'No Parking 3.30pm-5.30pm Mon-Fri' zone.
- Edgeware Road approach to Alice Street: extend southbound dual lane markings by approximately 45m, matching the existing 'No Parking, 6.30am-9.00am Mon-Fri' zone.

On Edgeware Road there are poor linemarking on the southbound traffic between Enmore Road and Enmore Lane. It is recommended that RMS be requested to remark the two lane arrangement from the signalised intersection and the faded give way line at the left turn slip lane. The lane lines should extend to the entrance driveway of Edgeware Road Carpark. Appendix G show three concept plans showing the proposed changes in Alice Street and Edgeware Road.

The Enmore Newtown Parking Review 2017 considered a 15m length part time No Stopping 3.30pm-5.00pm on the west side of Edgeware Road, opposite Cross Lane to improve traffic flow during the peak hours. Observations during the AM peak hour Traffic counts revealed 144 vehicles turn right from Edgeware Road to Cross Lane. Further observations suggested that about 40% of right turning vehicles hold back traffic flow whilst waiting for a suitable gap to turn right. As there are typically delays experienced at the Edgeware Road and Enmore Road intersection, the overall delays caused by the right turning movement is not considered significant and a passing bay is not warranted at this time.

8.2.9 Bicycle Route Improvements

Some routes identified in the Marrickville Bicycle Strategy 2007 such as Simmons Street and Sarah Street have some line marking indicating a cycling route, including the older bicycle directional signs in place. It is proposed to install missing bicycle logos (PS-2) marking in Metropolitan Road, Margaret Street, Station Street, Holt Street, College Street and Camden Street. The treatment will also include bicycle warning symbolic signs along the side streets. Appendix N show the concept plans showing the proposed changes.

8.3 Audit of Existing traffic facilities

In order to determine the current condition of the existing LATM devices, an audit has been undertaken on the current devices in place within the study area, including compliance with relevant standards and guidelines.

A review of the existing truck prohibition signs in the study area appear to be inconsistent and misleading as some have been defaced and do not feature arrows indicating that a side street has the load restriction. Former 'Trucks Prohibited symbolic' and supplementary '3t and over' should now be replaced with regulatory 'Trucks Prohibited symbolic' with supplementary 'Vehicles over 3t GVM' and an arrow direction indicating to the street which has the restriction. It is also noted that the supplementary times in Edgeware Road should be larger to ensure that there restrictions are clear to the general public and that are no associated compliance issues.

The full details of the audit are provided in appendix B and mostly comprise of signage and linemarking details.



8.4 Pedestrian Access and Mobility Plan (PAMP) Implementation

In 2009 Marrickville Council undertook a review of their Pedestrian Access and Mobility Plan (PAMP). The plan focuses on the high pedestrian use areas within the former Marrickville local government area, and makes recommendations for footpath improvements. The work is included in Council's four year Capital Works program, funded as budget allowed.

Under the plan Enmore Road and King Street were identified as high priority routes, and Edgeware Road and Alice Street were identified as low priority routes.

An audit of Council's missing ramps and existing ramp conditions has been undertaken. The audit identified 40 missing ramps within the study area, identified in Appendix L. These areas will be subject to further inspection and assessment as part of the Capital Works program.

8.5 Non-Infrastructure Improvements

The ongoing improvements to Council's Policy and operations, including other agencies such as NSW Police and Ausgrid should contribute to the improvements in the area, supporting public transport, walking and cycling.

- Police Enforcement of the one way restriction in Holt Street. Traffic data has shown that 52
 vehicles have travelling against the one way in a 24 hour period.
- Periodic enforcement of the truck load limit in local roads. With the improved truck load limit signs in place, it is recommended that both NSW Police and Council consider load enforcement at the streets identified in Figure 9 in this report.
- Review Council's road opening and restoration policy, with a view to improve restoration work, which should improve pavement and footpath quality for cyclists and walking pedestrians.
- Review of Council's outdoor dining area policy and applications in the shopping areas of Enmore and Newtown, with a view to improve pedestrian access.
- Incorporating areas in Council's Road Safety Education Program targeting pedestrians, mobile phone use and speeding in regional roads. The projects run can vary from year to year depending on the community concerns and rising road safety issues and trends.
- Maintenance work from audit of existing devices replacing signs and linemarking as required as the study area feature a high level of public art and murals.
- Ongoing kerb ramp and street lighting improvements will improve walkability and safety for pedestrians.
- The Australasian New Car Assessment Program (ANCAP) has revealed a rising trend of new vehicles fitted with autonomous emergency braking (AEB) as standard features. In December 2015 only 3% of new vehicles were fitted with AEB and this Figure has increased to 31% in March 2018. As more new vehicles are fitted with AEB, the rate of rear-end crashes (RUM Code 30) are expected to improve in the future.

8.6 Prioritisation of treatments and Strategic Cost Estimation

Having regard to the suggested LATM measures, a priority ranking was determined based on a number of factors including crash history, existing traffic issues, community demand and required planning. Any road improvements associated with development application conditions of consent



are not considered in Council's implementation plan and there are not included in this section. Table 12 containing the priority list also contain cost estimates. The cost estimates do not include allowances for site specific issues such as relocation of stormwater pits or service relocation.

Table 12: Strategic Cost Estimation and Priority

Items	Map ref	Street	Section	Proposed Treatment	Priority	Estimated Cost
1	В	Bailey Street	Enmore Road	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of one (1) speed cushion.	1	\$28,000
2	A	Goddard Street	King Street	Continuous footpath treatment (raised treatment on side street, installation of bollards, planter boxes and/or street furniture)	2	\$25,200
3	В	Reiby Street	Enmore Road to Pemell Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	3	\$58,100
4	В	Simmons Street	Enmore Road to Pemell Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	4	\$43,000
5	В	Marian Street	Enmore Road Enmore Lane	10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	5	\$50,000
6	E	Holt Street	King Street to Station Street	Stage 1: kerb extensions at King Street, reduced No Stopping distance on south side, bollards, kerb ramps, repositioned traffic signage.	6	\$26,000
7	В	Holt Street	King Street	Stage 2: 10km/h raised shared zone with regulatory signage, bollards, marked parking bays, planter boxes and/or street furniture, textured road pavement and street lighting. Installation of two (2) speed cushions.	7	\$65,500



8 A Camden Street King Street Continuous footpath treatment (raised treatment on side street, installation of bollards, planter boxes, street furniture) 9 C Metropolitan Road Installation of kerb blister island Installation of at grade pavement of similar linemarking Installation of truck prohibited symbolic and local traffic signage 10 C Station Street Reiby Lane Installation of at grade pavement of similar linemarking Installation of truck prohibited symbolic and local traffic signage 11 E Metropolitan Road Installation of kerb blister islands with motorbike parking 12 E Cross Lane Edgeware Road Installation of kerb blister islands give way signs and lines		\$26,700
Road Road Installation of at grade pavement of similar linemarking Installation of truck prohibited symbolic and local traffic signage 10 C Station Street Reiby Lane Installation of at grade pavement of similar linemarking Installation of truck prohibited symbolic and local traffic signage 11 E Metropolitan Road Cross Lane Installation of kerb blister islands with motorbike parking 12 E Cross Lane Edgeware Road Installation of kerb blister island 13 E Camden Street College Street 2x landscaped kerb blister islands,	r	
similar linemarking Installation of truck prohibited symbolic and local traffic signage 11 E Metropolitan Road Cross Lane Installation of kerb blister islands with motorbike parking 12 E Cross Lane Edgeware Road Installation of kerb blister island 13 E Camden Street College Street 2x landscaped kerb blister islands,	r 10	¢0.500
Road with motorbike parking 12 E Cross Lane Edgeware Road Installation of kerb blister island 13 E Camden Street College Street 2x landscaped kerb blister islands,		\$9,500
13 E Camden Street College Street 2x landscaped kerb blister islands,	11	\$60,000
	12	\$8,000
	13	\$14,000
14 E Camden Street Station Street 2x landscaped kerb blister islands, give way signs and lines	14	\$13,500
15 Appendix N Simmons Street entire length Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	15	\$1,000
16 Appendix N Street Between Ferndale Street and College Street Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	16	\$2,400
17 Appendix N Between Margaret Street and Holt arrangement Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	17	\$2,200
18 Appendix N Holt Street Between Station Street and King Street Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	18	\$1,400
19 Appendix N Station Street Street and Enmore Road Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	19	\$3,200
20 Appendix N Metropolitan Road Between Enmore Road and southern end of road Side streets Bicycle logo mixed traffic arrangement Bicycle warning symbolic signs on side streets	20	\$1,800
Total	•	\$456,000

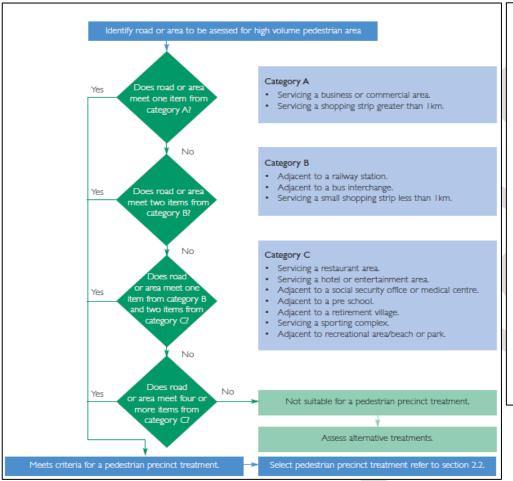


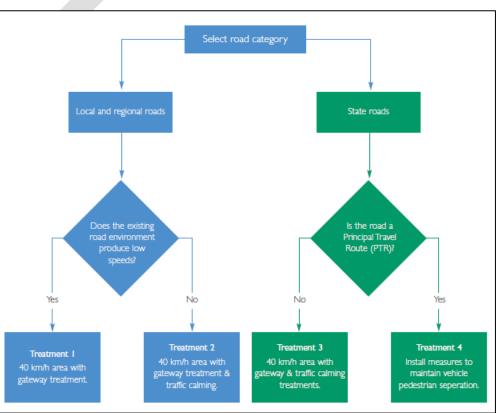
9. Appendices

Appendix A	Criteria for Pedestrian Precinct Treatment (RTA, 2006)
Appendix B	Results of Newtown LATM Audit of Existing Traffic Devices
Appendix C	Newtown-Enmore Proposal Parking Measures
Appendix D	Initial Community Consultation Result Summary
Appendix E	Crash Road User Movement Codes
Appendix F	Crash Data Summary
Appendix G	Proposed LATM Concept Designs
Appendix H	Public Exhibition Feedback Summary
Appendix I	Traffic Impacts of WestConnex on Edgeware Road
Appendix J	Matters to be referred to the RMS for consideration
Appendix K	Marrickville Development Control Plan 2011 Amendment No.4
Appendix L	Map of Missing Kerb Ramps from Council's 2009 PAMP Study & Marrickville PAMP Focus Areas
Appendix M	Holt Street Reduced No Stopping zone Risk Assessment
Appendix N	Proposed bicycle facilities
Appendix O	Streets nominated for 40km/h Local Traffic Area
Appendix P	Marrickville Public Domain Masterplan King Street & Enmore Road



Appendix A Criteria for pedestrian precinct treatment (Extract from 40km/h Speed Limits in High Pedestrian Activity Areas, Roads and Traffic Authority 2006)







Appendix B Results of Newtown LATM Audit of Existing Traffic Devices

Description Compared to the process Co				Edgeware Road	Replace existing CAMs with D4-1-2 on existing blister island on E side.	151.1724597,-33.9031,0
The process of the composition Controllary Controlla	Newtown LATM	2018 Audit of Existing Devices		Edgeware Road	At pedestrian traffic signals replace CAMs with D4-1-2 on E and W sides.	151.1722934,-33.9029442,0
Decorption Dec				Edgeware Road	At central refuge island install 2x missing holding bars	151.1720762,-33.9023342,0
Decorption Dec	Audit date 4 July 20	18		Edgeware Road	Remark faded edge line at SE kerb return and NE kerb return	151.1721808,-33.9025234,0
Alice Servet Install missing 80 school gave patch and dragens seeth at existing school one sign. 1921;19(128), 23,900(480)			Coordinates		At blister island on W side replace CAMs with D4-1-2.	151.1719796,-33.902165,0
Alice Street Alice	_	<u> </u>				151.171632333.9009016.0
Allor Street Ligopook Ref. 1 ped rocking signet to table R. House signs, review sign locations with process and street Ref. 1999 199	Alice Avenue	Install missing 40 school zone patch and dragons teeth at existing school zone sign	151.1741334,-33.9045448,0			
Allo Street Allo	Alice Street	Upgrade R3-1 ped crossing signs to size B, fluoro signs, review sign locations	151.1749904,-33.9043845,0			
Alice Street		Review 15km/h hump advisory sign. Standard advisory speed for hump should be		Elimore Edite		
After Street Register dashed egine miss or with paid of an 2 Claim Street 151,172987, 33,99077640.	Alice Street	25km/h.	151.1749461,-33.9043633,0	Enmore Lane		
Common C	Alice Street	Replace dashed edge line with solid line at Clara Street for EB traffic.	151.1758178,-33.9040751,0			
Acide Street Lingstack Wild Zurosciegt to Line 2. Consider whether flavor backing is acceptable 15.1176566, 33.9506487,						
Alice Street Alice Street Control (incl.) Alice Street Alice Street Control (incl.) Alice Street Control (incl.) Alice Street Control (incl.) Alice Street Control (incl.) Alice Street Alice Street Control (incl.) Alice Street Alice Street Control (incl.) Alice Street A				Ellillore Laile		151.1729545,-55.6992655,0
Emmore Road Install Truck load Imit GVM signs faring W and N at entrance to Station Street 15.1,75988, 33,900893,0			<u> </u>	Francis Band		454 4752044 22 0000052 0
Alice Street Alice	Alice Street		151.1741039,-33.9046483,0			
Internal Allice Street Stall and a price Allice Street Stall mest leading to existing \$1 lines at traffic aignals. 151,179034, 33,903056, 20, 15						
Remove edge lines to align with existing & Person Common Mon-Fir existicions. Install Alice Street S side on FP install missing 60 speed limit sign. Sign to face east. \$151,797388, 33,9000822,0 Alice Street S side on FP install missing 60 speed limit sign. Sign to face east. \$151,79074, 33,9033770, alice Street Replace existing yellow CAR6 with De-12 unidirectional hazard marker on existing Alice Street Install floridate and missing floridate of the Street Street Replace missing De-12 unidirectional hazard marker. \$151,79369, 33,9003260, alice Street Replace missing De-12 unidirectional hazard marker. \$151,79369, 33,9003260, alice Street Install floridate of the Street Street Street Replace Per With NS(I) \$151,79369, 33,9003260, alice Street Install floridate of the Street St					·	
Alice Street Side on LE Install missing 50 speed mint sign. Sign for face east. 151,178738, 33 908822.0 Alice Street On Side remark faded dege lines and missing RPMs. Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on EU on EU of Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on EU of Side facing E Side on LEI missill shared path symbolic with supplementary End on EU on EU of Side facing E Side on exist missill shared path symbolic with supplementary End on EU on EU of Side facing E Side on exist missill shared path symbolic with supplementary End on EU on EU of Side Side Side Side Side Side Side Side	Alice Street		151.178024,-33.903356,0			151.1736131,-33.8988612,0
Alice Street Alice Street On S. side remark faded edge lines and missing RBPMs. 151.178682, 33 9030276. Distorting face existing yellow CAMs with D4-12 undirectional hazard marker on existing flow for the property of the p				Enmore Road	Install 2xTruck Load Limit GVM signs with arrow. Signs to face W and E	151.1735514,-33.8988813,0
Alice Street bilster Island on Side. 151,778613,339033250, 151,778633,3903320, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,39033250, 151,778633,3903320, 151,778633				Enmore Road	Install Shared Path symbolic with supplementary End on ELP on S side facing W	151.1739805,-33.8988234,0
Replace with the 1-42 undirectional hazard marker on existing Alice Street Bister island on side. Sil. 1778182, 33.903325,0				Enmore Road	Install Shared Path symbolic with supplementary End on ELP on S side facing E	151.1736479,-33.8988679,0
Install CAMS (I) Facing S. Install CAMS (I) Fa	Alice Street		151.1786315,-33.9031746,0	Goddard Street	Install missing 40 school zone patch and dragons teeth	151.1776417,-33.8992887,0
Not Street Install Track toad Limit GVM signs with arrow. Install residence in Install Track toad Limit GVM signs with arrow. Install Signs facing E and W 151,179655, 33,89898.0 On year on W side. 151,179655, 33,89898.0 On W side. 151,179655, 33,89898.0 On W side. 151,179655, 33,89898.0 On Street Remove hump sign on ELP on W side. 151,179652, 33,898975, 0 (amden Street Replace New thin No (R) 151,179652, 33,898975, 0 (amden Street Replace New thin No (R) 151,179652, 33,898975, 0 (amden Street Replace New thin No (R) 151,179652, 33,900355, 0 (amden Street Replace New thin No (R) 151,179652, 33,900355, 0 (amden Street No Replace New thin No (R) 151,179652, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face east. Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Sol signs adjacent to 50 patch. Sign to face E 151,179686, 33,900355, 0 (amden Street Install Install sinsing Tile signs evalue and to sign addition to the sign			454 4704000 00 0000000	Holt Street	Install CAMs (R) at bend.	151.1772206,-33.9003206,0
Actice Street install Tack out Junt CVM signs with arrow. Install 2 signs facing E and W Joseph hump install missing hump symbolic sign and advisory 15km/h sign on EU on W side. Bailey Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Remove hump sign on EU on W side. Saley Street Sal				Holt Street	Install CAMs (L) facing S. Install CAMs (R) facing W.	151.1772649,-33.9004252,0
Display Street No. Wide Bailey Street Remove hump sign on EIP on W side. Saliey Street Remove hump sign on EIP on W side. Saliey Street Remove Name Street Replace W pitch Street No. Street S						151.173047233.9029687.0
Ealley Street Saley Street Sal	Ance Street					
Replace New thump sign on ELP on W side. Sign on ELP	Pailou Stroot			King Street		
Camden Street Replace NP with NS (R) 151.179398, 33.903881.0				King Street		131.1700233, 33.3000723,0
Camden Street Replace NP with NS (R) 151.176027,.33.9028173,0 Camden Street Remove Road Closed and hazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Sign to face east. Remove Road Closed and uninazard marker. Replace with CAMs (R). Sign to face east. Sign to face ea				Ving Stroot		151 1700166 22 0010466 0
Camden Street Replace NP with NS(L) 151.176129,-33.9027861,0 Camden Street Remove Road Closed and hazard marker. Replace with CAMs (R). Sign to face east. Remove Road Closed and unihazard marker. Replace with CAMs (R). Signs to face (Sample of Street) Station Street Install Color (Sample of Street) Station Street (Sample of Street) Install CAMs (R) Sign to face (Sample of Street) Install CAMs (R) Sign to face (Sample of Street) Install CAMs (R) Sign to face (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (L) Station Street (Sample of Street (Sample of Street) Install CAMs (R) Station Street (Sample of Street) Install						
Camden Street Remove Road Closed and hazard marker. Replace with CAMs (R). Sign to face east. 151.1756918, 33.902964,0 Remove Road Closed and unihazard marker. Replace with CAMs (R). Sign to face east. 151.1756918, 33.902965,0 Remove Road Closed and unihazard marker. Replace with CAMs (R). Sign to face east. 151.175692, 33.903055,0 Install I CAMs (R). Sign so dace to So patch. Sign to face E Install I So signs adjacent to So patch. Sign to face E Install I CAMs (R). Sign so dace Install missing TB line across Don Street at Reiby Street Install I CAMs (R). Sign so dace Install Install Install Install I CAMs (R). Sign so dace Install Install I CAMs (R). Sign so dace Install Install I CAMs (R). Sign so dace Install Install Install I CAMs (R). Sign so dace Install Install I CAMs (R). Sign so dace Install Install I CAMs (R). Sign so dace Install Ins						<u> </u>
Remove Road Closed and hazard marker. Replace with CAMs (R). Sign to face each grown Road Closed and unihazard marker. Replace with CAMs (R). Sign to face and the street with case and the street with the street with case and the street street w						
Remove Road Closed and unihazard marker. Replace with CAMs (R). Signs to face W. 151.1754692,-33.9030555,0 Camden Street Install Sosigns adjacent to 50 patch. Sign to face E 151.178698,-33.9020158,0 Install Iocal 50km/h sign required on N side 151.1729868,-33.9038435,0 Cross Lane directions along Edgeware Road Street Unimark missing TB line across Don Street at Reiby Street Install CAMs (L) on W side 10m N of Enmore Lane 151.1726529,-33.899530,0 Cross Lane Remove old Trucks Prohibited symbolic sign and stem 151.17165,-33.9009851,0 Don Street Unemark missing TB line across Don Street at Reiby Street Install CAMs (L) on W side 10m N of Enmore Lane 151.1736943,-33.901053,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.17199,-33.899530,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Ligeware Road Reguest RMS to remark tB line at LT slip lane from Enmore Road to Edgeware Road Ligeware Road Reguest RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Reguest RMS to remark Edgel lines on Eside at Camden Street intersection. Remark faded TB line Reguest RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Reguest RMS to remark Edgel lines on Eside at Camden Street intersection. Remark faded TB line Reguest RMS to remark Edgel lines on Eside at Camden Street intersection. Remark faded TB line Remark edgel lines on Eside at Camden Street intersection. Remark faded TB line Remark faded 90deg parking bays Linemark faded 90deg parking bays Metropolitan Road Remark faded angle parking bays Linemark faded 90deg parking bays Linemark faded 90deg parking bays Linemark faded angle parking bays Linemark faded	Camden Street	Remove Road Closed and hazard marker. Replace with CAMs (R). Sign to face east.	151.1756918,-33.9029664,0			
Camden Street Install 50 signs adjacent to 50 patch. Sign to face E 151.1756892, 33.9030515,0 Camden Street Install Iocal 50km/h sign require update to GVM and with arrow. Sign to face but first for Street Install Iocal 50km/h sign require update to GVM and with arrow. Sign to face but directions along Edgeware Road directions along Edgeware Road Install missing TB line across Don Street at Reiby Street 151.1756174, 33.899523,0 Don Street Innemark missing TB line across Don Street at Reiby Street 151.1756874, 33.899523,0 Edgeware Road Remark edgeline linemarking at Cross Lane Remark edgeline to align with existing N sign on W side. Edgeware Road Remark edgeline to align with existing NS sign on W side. Edgeware Road Remark edgeline to align with existing Sign on W side. Edgeware Road Remark edgeline to align with existing Sign on W side. Edgeware Road Remark edgeline to align with existing NS sign on W side. Edgeware Road Remark Edgeline to align with existing Sign on W side. Edgeware Road Remark edgeline to align with existing Sign on W side. Edgeware Road Remark Edgeline to align with existing Sign on W side. Edgeware Road Remark edgeline to align with existing Sign on W side. Edgeware Road Remark Edgeline to align with existing Sign on W side. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hard marker. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hard marker. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hard marker. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hard marker. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hard marker. Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark Edgeline to align with existing CAMS with D4-1-2 unidirectional Remark Edgeline to align with existing CAMS with						
Camden Street Install local 50km/h sign required on N side 151.1729868, 33.9038435,0 Truck load limit signs require update to GVM and with arrow. Sign to face both Cross Lane directions along Edgeware Road Cross Lane Remove old Trucks Prohibited symbolic sign and stem 151.171302, 33.901385,0 Don Street Linemark missing TB line across Don Street at Reiby Street 151.1758474, 33.899823,0 Edgeware Road Remark Edgeline linemarking at Cross Lane Remove Road Install missing Form Lane sign for SB traffic 151.1719, 33.899505,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903993,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Remark Edgeline to align with existing NS sign on W side. 151.173249, 33.903973,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB	Camden Street	W.	151.1754692,-33.9030555,0			
Truck load limit signs require update to GVM and with arrow. Sign to face both directions along Edgeware Road directions along Edgeware Road and d'bicycles excepted' under existing No Through Road sign 151.171767,-33.900965,0 Edgeware Road Remark edgeline linemark missing TB line across Don Street at Reiby Street 151.175341,-33.8995517,0 Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716685,-33.9009851,0 Edgeware Road Remark edgeline to align with existing No Through Road sign 151.1716685,-33.9009851,0 Edgeware Road Remark edgeline to align with existing No Through Road sign 151.1716685,-33.9009851,0 Edgeware Road Remark edgeline to align with existing No Through Road sign 151.1716685,-33.9009851,0 Edgeware Road Remark edgeline to align with existing No Through Road sign 151.1716685,-33.9009851,0 Edgeware Road Remark Edlines for SB traffic 151.171942,-33.8997584,0 Edgeware Road Remark Edlines for SB traffic 151.17194,-33.899658,0 Metropolitan Road Remark faded angle parking bays 151.1721674,-33.8996538,0 Pemell Street at Reiby Street at Reiby Street on S side 151.175341,-33.909051,0 Install missing TB line across Pemell Street at Reiby Street on S side 151.175341,-33.9995517,0 Remark missing TB line across Pemell Street at Reiby Street on S side 151.175341,-33.9995517,0 Remark missing TB line across Pemell Street at Reiby Street on S side 151.175341,-33.9995517,0 Remark faded angle parking bays 151.1721674,-33.8996538,0 Pemell Street at Reiby Street on S side 151.175341,-33.9995517,0 Remark faded angle parking bays 151.1721674,-33.899538,0 Pemell Street at Reiby Street on S side 151.1721674,-33.899535,0 Pemell Street at Reiby Street on S side 151.172341,-33.9995517,0 Remark faded angle parking bays 151.1721674,-33.9995517,0 Remark faded angle parking bays 151.1721674,-33.9995517,0 Remark faded angle parking bays 151.1721674,-33.990553,0 Pemell Street at Reiby Street on S side 151.1721674,-33.999553,0 Pemell Street Remark missing TB line across Spenell Street at Reiby Street on S side 151.1721674,-	Camden Street	Install 50 signs adjacent to 50 patch. Sign to face E	151.1786985,-33.9020158,0			
Cross Lane directions along Edgeware Road 151.171167,-33.900955,0 Cross Lane Add 'bicycles excepted' under existing No Through Road sign 151.1712302,-33.901085,0 Cross Lane Remove old Trucks Prohibited symbolic sign and stem 151.171502,-33.9009561,0 Don Street Linemark missing TB line across Don Street at Reiby Street on S side 151.1755174,-33.899823,0 Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716885,-33.900951,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1712349,-33.899505,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Emmore Road to Edgeware Road Regard marker. 151.1729211,-33.9039793,0 Remark edge lines on E side at Camden Street intersection. Remark faded TB line across Pemell Street at Reiby Stre	Camden Street	Install local 50km/h sign required on N side	151.1729868,-33.9038435,0			
Cross Lane Remove old Trucks Prohibited symbolic sign and stem 151.171302,-33.9010385,0 Don Street Linemark missing TB line across Don Street at Reiby Street 151.1756574,-33.899823,0 Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716685,-33.9009851,0 Edgeware Road Install missing 'Form I Lane' sign for SB traffic 151.17179,-33.8997584,0 Edgeware Road Remark L1 lines for SB traffic 151.17179,-33.8996505,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1710382,-33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Edgeware Road Regular arker. 151.1710382,-33.8994801,0 Edgeware Road Remark edge lines on E side at Camden Street intersection. Remark faded TB line Remark edge lines on E side at Camden Street intersection. Remark faded TB line 151.171302,-33.9010385,0 151.171302,-33.9009561,0 151.1716685,-33.90099561,0 151.1716685,-33.9009955,0 151.1716685,-33.9009955,0 151.1716685,-33.90099581,0 151.1716885,-33.90099581,0 151.1716685,-33.90099581,0 151.1716685,-33.90		Truck load limit signs require update to GVM and with arrow. Sign to face both				
Cross Lane Remove old Trucks Prohibited symbolic sign and stem 151.171765,-33.9009561,0 Don Street Linemark missing TB line across Don Street at Reiby Street 151.1755174,-33.899823,0 Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716685,-33.9009851,0 Edgeware Road Install missing 'Form 1 Lane' sign for SB traffic 151.171179,-33.899550,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1732349,-33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hazard marker. 151.1729211,-33.9039793,0 Remark edge lines on E side at Camden Street intersection. Remark faded TB line 151.171765,-33.9009561,0 151.1755174,-33.9009561,0 151.1755174,-33.9099581,0 151.1755174,-33.9099581,0 151.1755174,-33.9099581,0 151.1755174,-33.9099581,0 151.175685,-33.9009851,0 151.171179,-33.8995850,0 151.171179,-33.8996505,0 151.171179,-33.8996505,0 151.171179,-33.8996505,0 151.171179,-33.9096905,0 151.1771179,-33.9096905,0 151.1771174,-33.9009971,0 151.1771174,-33.9099781,0 151.	Cross Lane	directions along Edgeware Road	151.1717167,-33.900965,0	Pemell Street	Remark missing TB line across Pemell Street at Reiby Street	151.1753941,-33.8997517,0
Don Street Linemark missing TB line across Don Street at Reiby Street 151.1755174, -33.899823,0 Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716685, -33.9009851,0 Edgeware Road Install missing 'Form 1 Lane' sign for SB traffic 151.171124, -33.8997584,0 Edgeware Road Remark Lines for SB traffic 151.171179, -33.8996505,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1732349, -33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hazard marker. 151.1729211, -33.9039793,0 Remark edge lines on E side at Camden Street intersection. Remark faded TB line across Sloane Street Remark faded TB line across Sloane Street Install faded piano keys on speed hump 151.171134, -33.900099,0 Station Street Install faded TB line across Station Street at stop sign 151.1770959, -33.900079,0 Station Street Replace NP (L) with NS(L) on W side 10m N of Enmore Lane 151.1736318, -33.8990972,0 Sloane Street Remark faded TB line across Sloane Street Install faded piano keys on speed hump 151.171134, -33.900099,0 Station Street Install faded piano keys on speed hump 151.177099, -33.900079,0 Station Street Remark faded TB line across Sloane Street Install faded piano keys on speed hump 151.1771134, -33.900099,0 Station Street Install faded TB line across Station Street Station Street Are Lines for SB traffic Install missing Children symbolic sign on ELP on E side. Sign to face north. 151.177504, -33.903783,0 Station Street Walenore Avenue Remark faded BB line and chevron at existing refuge islands 151.1780669, -33.9033638,0 Station Street Install missing give way sign 151.1780669, -33.9033638,0 Station Street Station S	Cross Lane	Add 'bicycles excepted' under existing No Through Road sign	151.1717302,-33.9010385,0	Rawson Street	Remove redundant old light traffic thoroughfare sign near Reiby Street on S side	151.1758474,-33.9005042,0
Edgeware Road Remark edgeline linemarking at Cross Lane 151.1716685,-33.900851,0 Edgeware Road Install missing 'Form 1 Lane' sign for SB traffic 151.171242,-33.8997584,0 Edgeware Road Remark L1 lines for SB traffic 151.171179,-33.8996505,0 Edgeware Road Request RMS to remark Edgeline to align with existing NS sign on W side. 151.1732349,-33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road hazard marker. 151.1729211,-33.9039793,0 Remark edge lines on E side at Camden Street intersection. Remark faded TB line 151.171685,-33.9009851,0 Install faded TB line across Sloane Street Station Street Install faded TB line across Sloane Street Install faded TB line ac	Cross Lane	Remove old Trucks Prohibited symbolic sign and stem	151.171765,-33.9009561,0	Reiby Street	Install CAMs (R)	151.1759439,-33.9010853,0
Edgeware Road Install missing 'Form 1 Lane' sign for SB traffic 151.171242, -33.8997584,0 Edgeware Road Remark L1 lines for SB traffic 151.171179, -33.899650,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1732349, -33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Side on existing blister island replace existing CAMs with D4-1-2 unidirectional LEdgeware Road Request Road Regular Roa	Don Street			Simmons Street	Replace NP (L) with NS(L) on W side 10m N of Enmore Lane	151.1736318,-33.8990972,0
Edgeware Road Remark L1 lines for SB traffic 151.171242,-33.8997584,0 Edgeware Road Remark L1 lines for SB traffic 151.171179,-33.8996505,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road Request RMS to remark TB line at LT slip lane from E		· · · · · · · · · · · · · · · · · · ·		Sloane Street	Remark faded TB line across Sloane Street	151.1756529,-33.9004731,0
Edgeware Road Remark L1 lines for SB traffic 151.17179, 33.8996505,0 Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1732349, -33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382, -33.8994801,0 Edgeware Road Request RMS to remark TB line at				Station Street	Install faded piano keys on speed hump	151.1771134,-33.900099,0
Edgeware Road Remark edgeline to align with existing NS sign on W side. 151.1732349,-33.9048943,0 Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Edgeware Road Install missing Children symbolic warning sign on ELP on W side. Sign to face north. 151.1775009,-33.9008382,0 Station Street Replace faded Children symbolic sign on ELP on E side. Sign to face north. 151.1775009,-33.9008382,0 Station Street Replace faded Children symbolic warning sign on ELP on W side. Sign to face south. Install missing Children symbolic warning sign on ELP on W side. Sign to face south. Install missing Children symbolic warning sign on ELP on W side. Sign to face south. Walenore Avenue Remark faded BB line and chevron at existing refuge islands 151.1780669,-33.9033783,0 Walenore Avenue Install missing give way sign 151.1780669,-33.9033638,0						
Edgeware Road Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road 151.1710382,-33.8994801,0 Edgeware Road Edgeware Road Side on existing blister island replace existing CAMs with D4-1-2 unidirectional hazard marker. Edgeware Road Edgeware Road Side on existing blister island replace existing CAMs with D4-1-2 unidirectional hazard marker. Station Street Install missing Children symbolic warning sign on ELP on W side. Sign to face south. Station Street Walenore Avenue Remark faded BB line and chevron at existing refuge islands Walenore Avenue Install missing give way sign 151.1780669,-33.9033638,0	Edgeware Road	Remark edgeline to align with existing NS sign on W side.	151.1732349,-33.9048943,0			
Eside on existing blister island replace existing CAMs with D4-1-2 unidirectional Edgeware Road Remark edge lines on E side at Camden Street intersection. Remark faded TB line Eside on existing blister island replace existing CAMs with D4-1-2 unidirectional 151.177504,-33.9015116,0 Walenore Avenue Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9015116,0 Walenore Avenue Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9015116,0 Walenore Avenue Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9015116,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.177504,-33.9031783,0 Walenore Avenue Install missing Children symbolic warning sign on ELP on W side. Sign to face south. 151.1780069,-33.9033783,0 Walenore Avenue Install missing Children symbolic warning si	Edgeware Road	Request RMS to remark TB line at LT slip lane from Enmore Road to Edgeware Road	151.1710382,-33.8994801.0	222000000000000000000000000000000000000		
Edgeware Road hazard marker. 151.1729211,-33.9039793,0 Remark edge lines on E side at Camden Street intersection. Remark faded TB line Walenore Avenue Malenore Avenue Install missing give way sign 151.1780669,-33.9033783,0 Walenore Avenue Install missing give way sign 151.1780669,-33.9033638,0	J		,	Station Street	Install missing Children symbolic warning sign on ELP on W side. Sign to face south.	151.1777504,-33.9015116,0
Remark edge lines on E side at Camden Street intersection. Remark faded TB line Walenore Avenue Install missing give way sign 151.1780669,-33.9033638,0	Edgeware Road		151.1729211,-33.9039793,0	Walenore Avenue	Remark faded BB line and chevron at existing refuge islands	151.1781017,-33.9033783,0
		Remark edge lines on E side at Camden Street intersection. Remark faded TB line		Walenore Avenue	Install missing give way sign	151.1780669,-33.9033638,0
	Edgeware Road		151.1728473,-33.9039092,0	Walenore Avenue	Remark faded TB lines at throat of Walenore Avenue	151.1780789,-33.9033682,0



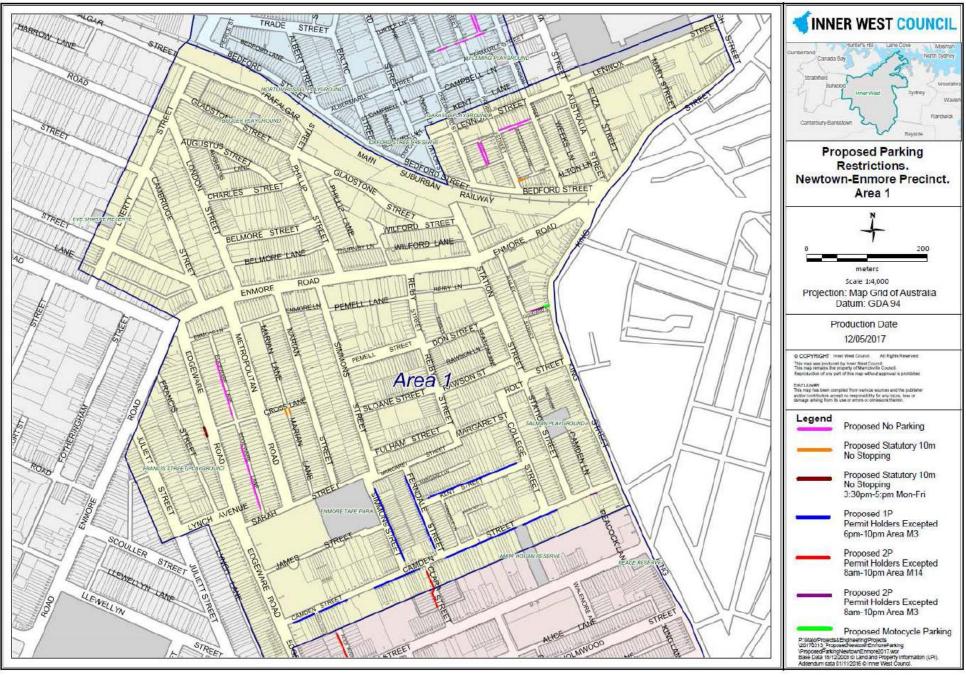
Appendix C

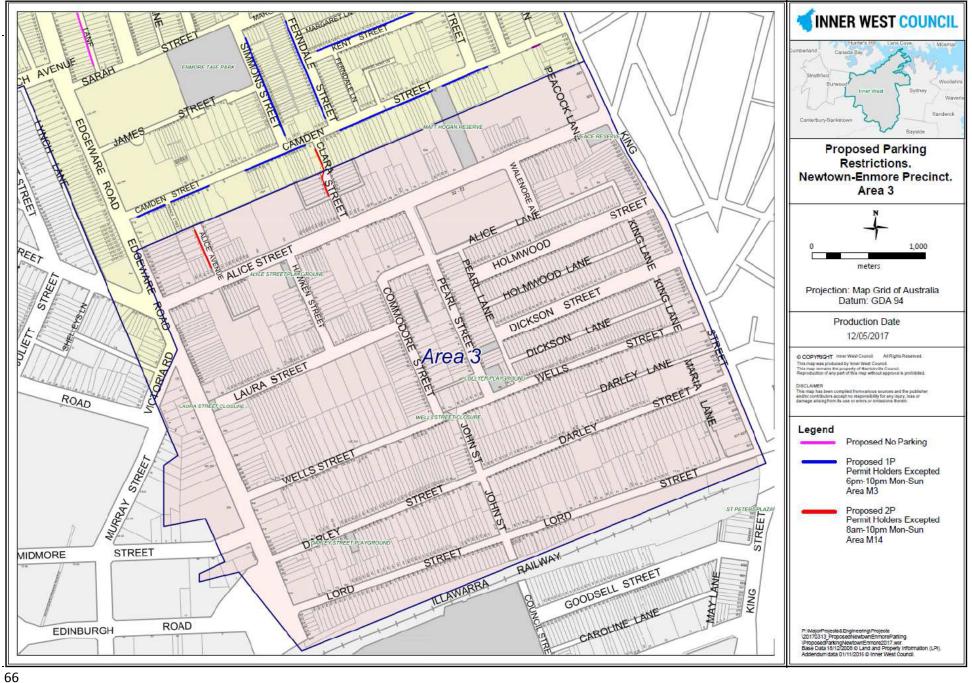
Newtown-Enmore Parking Study 2010 (ARUP) Proposed Parking

Newtown-Enmore Parking Review 2013 (Inner West Council) Proposed Parking







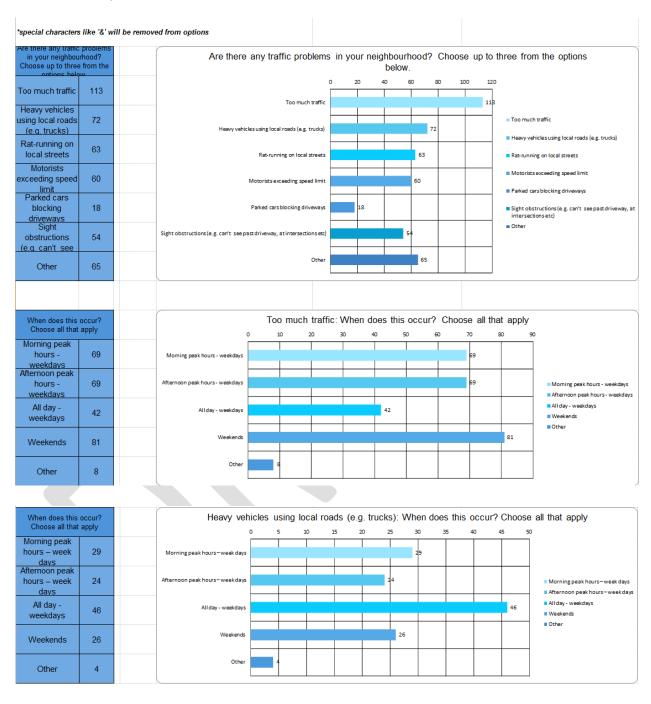




Appendix D

Initial Community Consultation Result Summary

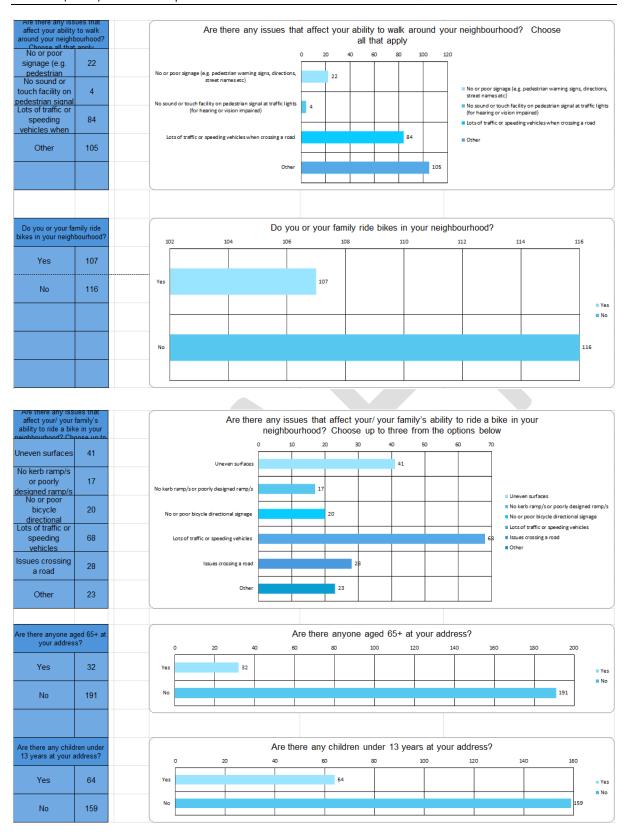
Undertaken May 2018













Issue	where	count		
			Too much traffic	1
Too much traffic	King Street	24		
	Alice Street	24		
		15		
	Edgeware Road			
	Enmore Road	15	Heavy vehicles using local	
Heavy Vehicles			roads (e.g. trucks)	
neavy verticles	Alice Street	11	Todus (e.g. trucks)	
	Edgeware Road	14		
	King Street	22		
	Camden Street	5		
	camach street			
Rat running			Rat-running on local streets	(
	Station Street	13		
	Camden Street	12		
	Metropolitan Road	11		
	Cross Lane	10		
	Clara Street	6		
	Alice Street	5		
	Holt Street	5		
	Simmons Street	5		
	Fulham Street	4		
	Bailey Street	3		
		-		
	King Street Edgeware Road Enmore Road Station Street Camden Street	13 11 9 8 5		
	Simmons Street	5		
	Marian Street	4		
	Reiby Street	3		
	Clara Street	3		
Parked Cars			Parked cars blocking driveways	
Tarnea cars	Simmons Street	2	anvenaje	
	Alice Street	3		
			Circlet all atmost	
Sight obstruction			Sight obstructions (e.g. can't see past driveway, at intersections etc)	
	Clara Street	11	interessions stoj	
	Camden Street	10		
	Simmons Street	7		
	College Street	5		
	Reiby Street	4		
	Ferndale Street	2		
	. critatic succi			
Other			Other	
	Enmore theatre related	9		
	pedestrian related	9		
	road too narrow	7		
	truck related	5		
	TAFE related	4		
	cyclist related	4		



Issue	Location	Count	Issue	Location	Count	
Too much traffic			Exceeding speed limit			
	King Street	26		Alice Street	14	
	Alice Street	24		King Street	13	
	Edgeware Road	15		Edgeware Road	11	
	Enmore Road	16		Enmore Road	9	
Heavy vehicles				Station Street	8	
	Alice Street	11		Camden Street	5	
	Edgeware Road	14		Simmons Street	5	
	King Street	23		Marian Street	4	
	Camden Street	5		Reiby Street	3	
Rat running				Clara Street	3	
	Station Street	16	Sight obstructi	on		
	Camden Street	12		Clara Street	11	
	Metropolitan Road	11		Camden Street	10	
	Cross Lane	10		Simmons Street	7	
	Clara Street	6		College Street	5	
	Alice Street	5		Reiby Street	4	
	Holt Street	7		Ferndale Street	2	
	Simmons Street	5	Other			
	Fulham Street	4		Enmore theatre related	9	
	Bailey Street	3		Pedestrian related	9	
Parked cars				Road too narrow	7	
	Simmons Street	2		Truck related	5	
	Alice Street	3		TAFE related	4	
				Cyclist related	4	
Pedestrians				Cycling		_
What would need to change for more walking?				What would need to change for more Cycling?		
Better public lighting at night		26		Dedicated bike lanes		38
Safer crossing facilities		20		Nothing, opposed to cycl	ing and dangerous	18
Reduce speed limit		17		Reduce speed limit		12
Nothing		15		Less traffic		11
Wider footpath		13		Even surfaces		8
Stricter regulation of cyclists in footpaths		12				
Do something about the bins in footpath		8				
Less cars, trucks & traffic		6				
Cut back tree branches in footpath		6				
Obstruction on footpaths		5				
Stricter regulation of outdoor dining areas		4				

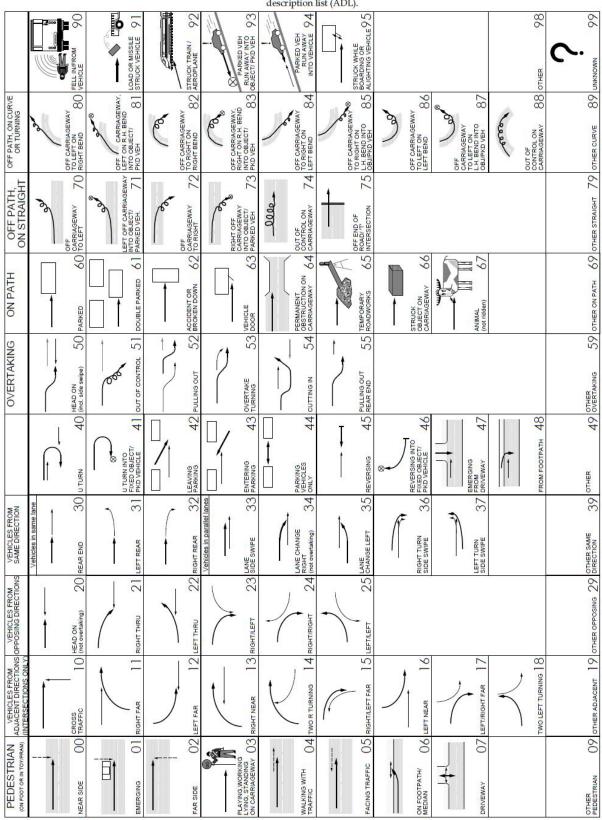


Appendix E

Crash Road User Movement (RUM) Codes from RMS Traffic Accident Database System Data Manual ROAD USER MOVEMENT (R.U.M.) CODE

This is recorded for the first impact according to the table below Note: The 'key' vehicle is represented by the dark arrow:

and is the first vehicle listed for each accident in the accident description list (ADL).





Appendix F

Crash Data Summary sourced from RMS Accident Database July 2012 to June 2017





TEI O	01		U	V C	U	V I I	1,4	u i	ea	U	, ,		710	۷ I	וט	uı	U	VI.	Pι	7		0	-	or.	ore	71.5		70	T	Τ	U		01	٠,٠	٠,٠	.	J O	70	·	1,51	01	•	so I	or v	- -	oro	101	O1	010	ηч	10	o i	υī	or۰	a Le	-	,	٠,٠	w I v	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	O1	01	=10	ر ت		or٠	97
Di Other_Tra	No traffic	Ped crossi	No traffic	No traffic	No traffic	Ped crossis	Ped crossi	No traffic	No traffic,	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic.	No traffic	No traffic	No traffic	Pod crossis	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic,	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	Ped crossin	No traffic	No traffic	Give way	No traffic	No traffic	No traffic	No traffic	No traffic,	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic	No traffic.	No traffic	GIVE Way :	No traffic	No traffic	No traffic	No traffic	No traffic (No traffic	No traffic	No traffic	No traine
i Signals_C Nil	Nil	o o	Ou	Z 8	5 2	ő	o	Ē	On	o o	5	Z Z	Z	5	Unknowr	On	Z	Z č	5 E	Z	Ē	On	ï	50	5 2	ē	N N	5	N.	u _O	Z	Nii	Ou	Z d	5 1	ē 6	5 2	N	II.	Ou	Nil	On	Ē	Z	Z	Į o	ï	o	Z Z	Z	Nil	Z	Z	2 2	Z	Z	Ou	e o	5 1	o	On	IIN	E d	5 5	ő	o .	Unknowr	5
Natural L Daylight	Daylight	Darkness	Daylight	Daylight	Darkness	Davlight	Daylight	Daylight	Darkness	Daylight	Daylight	Dusk	Davlight	Davlight	Dawn	Daylight	Daylight	Daylight	Davlight	Daylight	Darkness	Dawn	Daylight	Dusk	Davdight	Darkness	Davlight	Dusk	Daylight	Daylight	Daylight	Daylight	Daylight	Daylight	Darkness	Darknoce	Darkness	Darkness	Daylight	Daylight	Dusk	Daylight	Dusk	Daylight	Daylight	Daylight	Daylight	Daylight	Daylight	Darkness	Dusk	Daylight	Dusk	Darkness	Dusk	Daylight	Daylight	Daylight	Daylight	Darkness	Daylight	Daylight	Darkness	Daylight	Daylight	Daylight	Dusk	Dusk
Weather	Overcast	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Unknown	Fine	Fine	Fine	Fine	Fine	Fine	Fine	E III	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Unknown	Overcast	Fine	Fine	Fine	Fine	Fine	Fine	Fine	Overcast	Fine	Fine	Fine	Fine	Raining	Fine	Fine	Fine	Overces
Surface_C Wet	Dry	Dry	Dry	Dry	À À	Dry	Dry	Dry	Dry	Dry	Duy	Dry Dry) O	Drv	Dry	Dry	Dry	Dry	20	Dry	Dry	Dry	Dry	Duy	Uny	Dry	Dry	Unknown	Dry	Dry	Dry	Dry	Dry	Dry	<u>ک</u> ک	À 2	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	ρα.	Dry	Dry	Dry	Dry	Unknown	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	ρα	Dry	Dry	Dry	Dry	Wet	Dry	Dry	Dry	γ
Road_Surf Sealed	Sealed	Sealed	Sealed	Sealed	paleas	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Spaled	Spaled	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	palpac	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Search
Street_Ligh	JJO	Unknown	JJO	#0	5 6	i i	JJO	Unknown	JJO	#6 ::	Unknown	5 1	. N	JJO	Unknown	Unknown	E S	Unknown	Unknown	II.	Ou	Unknown	₩ ₀	uo.	Unknown	5 6	JJ0	JJO	Unknown	JJO	JJO	JJO	Ou	#6	5 6	5 6	#0	ou	JJO	JЮ	Unknown	JJO	JJO	JJ Julyana	UNKNOWN	Unknown	Unknown	JJ0	III 8	Unknown	Nil	JJ0	u _O	Unknown	JJO	JJO	Unknown	uo	UNKNOWN	5 6	JJO	μо	00	5 6	JJO	JJ0	#0 #0	5
ous Tempo				+	-					_		+						_					_		+							au					-			S					a)				_			+		+				+	+				_			1	\perp	-
en Hazard		+	+	1	+					1	+	-	-	-					+				-	+		_			_			ay/entrance			+	+				centre line			_	rade	ay/entranc							1	+	1				1	1					-	Н	_	+	-
ligr Perman		4			1					_																1		Bus sto				Drivewa	Crest		1					Double				Steep g	Drivewa								_					1							Ц	_	1	
TRoad A	ect Straight	ect Straight	on Straight	on Straight	nd Straight	ect Straight	ectStraight	nd Straight	ect Straight	on Curved	on Straight	nd Straight	nd Straight	ect Straight	ect Curved	ectCurved	nd Straight	on Straight	nd Straight	nd Straight	ndStraight	ect Straight	nd Straight	ect Straight	ect Straight	oct Straight	nd Straight	on Straight	on Straight	ectStraight	nd Straight	nd Straight	on Straight	on Straight	ect Curved	on Straight	ndCurved	ndStraight	nd Straight	nd Curved	nd Straight	ect Straight	on Straight	nd Straight	nd Straight	ect Curved	nd Straight	ect Straight	on Straight	ndStraight	ndCurved	nd Straight	on Straight	on Straight	nd Straight	nd Straight	ect Straight	on Straight	on Straight	ect Straight	ect Straight	on Straight	nd Straight	on Straight	on Straight	ndCurved	ect Straight	on ou albu
Location 1 T-Junction	1 X-Inters	1 X-Inters	1 T-Junctio	1 T-Junctio	1 2-Way	1 X-Interse	1 X-Inters	1 2-Way u	1 X-Inters	1 Y-Junctio	1 T-Junctio	1 2-Way u	1 2-Way u	1 X-Inters	1 X-Inters	1 X-Inters	2 2-Way u	1 T-Junctio	1 2-Way u	1 2-Way u	1 2-Way u	1 X-Inters	1 2-Way u	1 X-Inters	1 X-Inters	1 X-Interc	1 2-Way II	1 Y-Junctio	1 T-Junctio	1 X-Inters	1 2-Way u	1 2-Way u	1 T-Junctio	2 T-Junctio	2 T lunctiv	2 T-Junctio	2 2-Way u	2 2-Way u	1 2-Way u	1 2-Way u	2 2-Way u	1 X-Inters	1 T-Junctio	2 2-Way u	2 2-Way u	1 X-Interse	1 2-Way u	1 X-Inters	1 T-Junctio	1 2-Way u	1 2-Way u	2 2-Way u	1 T-Junctio	1 T-Junctio	2 2-Way u	2 2-Way u	1 X-Inters	1 T-Junctio	1 I-Junctio	1 X-Interse	1 X-Inters	1 T-Junctio	1 2-Way u	2 T-Junctio	2 T-Junctio	2 2-Way u	1 X-Interse	Z 1-3 univers
Region Geo	1		1		-		-	1	1			-	1	-	1	1			-	-	1	1				-	-	-	1	-	1	1	1		-		1	-	1	1	1	1	1		-	1 1	1	1		•	1		-		1 -	1	1		-	1	1	1		1 1			H +	4
LGA Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Achfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Achfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashtiold	Achfiold	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfiold	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfiold	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Ashfield	Asimen
Road_Class Unclassifie	Other class	State High	Other class	Other class	Unier cias	Unclassifie	Unclassifie	Unclassifie	Other class	State High	Other class	Other class	Other class	Other class	Other class	Other class	Unclassifie	Other class	State High	State High	Other class	Other class	State High	Unclassifie	Unclassifie	Other class	Unclassifie	Other class	State High	Unclassifie	Other class	Other class	Other class	Other class	Other class	Other class	Other class	Unclassifie	Other class	State High	State High	Unclassifie	Other class	Unclassifie	Other class	Other class	Other class	Other class	Other class	Other class	Other class	Unclassifie	Other class	State High	Unclassifie	Other class	Unclassifie	Other class	Other class	Unclassifie	Other class	State High	Other class	Other class	Other class	Unclassifie	Other class	otate night
SMS_Rout	167	-	167	167	7018	7017	7017	7017	167	-	167	1b/	167	167	167	167	0	167	1	-	167	167	-	0	7017	167	0	167	1	7017	167	167	167	167	167	167	167	7017	167	1	1	7017	167	7017	167	167	167	167	167	167	167	0	167	100	0	167	7017	167	167	0	167	1	167	167	167	0	16/	Ť
uburb	lewtown	lewtown	lewtown	lewtown	lowtown	lewtown	lewtown	nmore	nmore	lewtown	lewtown	ewtown	nmore	lewtown	nmore	lewtown	nmore	nmore	lewtown	lewtown	lewtown	nmore	lewtown	Aarrickville	ewtown	lowtown	pwtown	ewtown	lewtown	lewtown	lewtown	lewtown	lewtown	lewtown	nmore	lowtown	nmore	nmore	nmore	lewtown	lewtown	lewtown	lewtown	nmore	lowtown	lewtown	lewtown	lewtown	nmore	nmore	lewtown	nmore	nmore	lewtown	ewtown	lewtown	lewtown	nmore	nmore	lewtown	nmore	lewtown	lewtown	nmore	lewtown	nmore	lewtown	(ewtown
e Cross_sS	St N	ž,	š	ž	Huny	St	Š	Lane	Bd E	Rd .	ž (7 0	i 55	i is	Rd	St	Rd	ir Rd	2 5	St	Hwy	Rd	St	ž (Ave F	2 2	5	1 5	S	Rd N	Š	Hwy	St	ž 2	D	กับ	, to	Rd Ed	Rd	St N	50Hn N	St	St	35	t wh	2 2	Hwy	St	Rd &	ii Rd	Hwy	St	35	35 75	15	St	St N	<u>ئە</u>	X O	, N	Rd	St	ž č	N IS	Rd	Rd .	t	2
Cross_str	Station	dAlice	d Phillip	d Bailey	Princes	Alice	dLlewellyn	Lynch	d Stanmore	d Enmore	d Phillip	Bailey	Simmons	Station	Enmore	d Station	Enmore	d Metropol	Holt	St John	Princes	d Enmore	Camden	d Llewellyn	Alice	Station	Reihv	King	Camden	Edgeware	Station	Princes	d Phillip	Bailey	Gimmonr	Phillip	Marian	Enmore	Stanmore	Goddard	d Number	dLlewellyn	d Reiby	Alice	Princes	d Station	Princes	d Station	d Metropol	Metropol	Princes	Camden	Simmons	Camden	Alice	Phillip	d Alice	Simmons	Condon	dAlice	d Enmore	Goddard	Bailey	Phillip	Enmore	Enmore	Station	d Ellinois
Direction On the sp	East (On the sp	On the sp	On the sp	Weet	On the sp	On the sp	South	On the sp	On the sp	On the sp	Last	West	On the sp	East (On the sp	South	On the sp	North	South	West	On the sp	North	On the sp	On the sp	Fact	Fact	South	On the sp	West	5 West) West	On the sp	West	on the sp	Fact	East	South) East	North	On the sp	On the sp	On the sp	North	West	On the sp	West	On the sp	On the sp	East	West	North	On the sp	On the sp	North	East	On the sp	On the sp	On the sp	On the sp	On the sp	South	East	West	South	East	West	de all
eet_ty Dista	1(^			101			5(_	^	1	2 12	20		10	_	N.		20	y 20	15(_	y 20		ū	ñ -	9		^		33	35	_		,	4 -	50	300	15(y 20	۸	_		240	N C		9	_		3	30	10		>	20	2	_	1				y 1(# 1	1		20	-	
Street Str Margaret St	nore Rd	ces Hw	nore Rd	Enmore Rd	Alice C+	eware Rd	eware Rd	Edgeware Rd	nore Rd	ces Hw	nore Rd	nore Rd	nore Rd	nore Rd	Edgeware Rd	nore Rd	eware Rd	nore Rd	ces Hw	vH Hw	nore Rd	more Rd	ces Hw	eware Rd	eware Rd	and and	ve lar	nore Rd	ces Hw	vellyn St	Enmore Rd	nore Rd	nore Rd	nore Rd	nore Rd	ore and	nore Rd	eware Rd	nore Rd	ces Hw	ices Hw	Edgeware Rd	nore Rd	eware Rd	nmore Kd	nore Rd	nore Rd	nore Rd	nore Rd	nore Rd	nore Rd	eware Rd	nore Rd	ices Hw	St No	nore Rd	Edgeware Rd	nore Rd	nore Rd	eware Rd	more Rd	Princes Hw	nmore Rd	nore Rd	ion St	eware Rd	nore Rd	San Line
TimeRangeStreet 12:00 - 13: Marga	5 14:00 - 15: Enr	30 - 21: Prir	30 - 17: Enr	30 - 19: Enr	10 - 17 - OI	00 - 15: Edg	30 - 15: Edgew	16:00 - 17: Edg	- 21:	30 - 09: Prir	30 - 17: Enr	18:00 - 19: Enr	30 - 13: Enr	18:00 - 19: Enr	00 - 07: Edg	16:00 - 17: Enr	30 - 11: Edg	16:00 - 17: Enr	00 - 15: Prir	10:00 - 11: Prir	22:00 - MidEnr	04:00 - 05: Sta	12:00 - 13: Prir	30 - 21: Edg	06:00 - 07: Edg	10 - 03. cue	70 - 09: Reiby	00 - 17: Enr	30 - 09: Prir	30 - 15: Llev	30 - 07: Enr	30 - 09: Enr	30 - 15: Enr	30 - 13: Enr	20:00 - 21: Enr	MidEnr	00 - MidEnr	30 - 17: Edg	30 - 09: Enr	30 - 09: Prir	18:00 - 19: Prir	30 - 19: Edg	00 - 17: Enr	14:00 - 15: Edg			30 - 09: Enr	30 - 09: Enr	12:00 - 13: Enr	00:01 - 01: Enr	30 - 19: Enr	10:00 - 11: Edg	00 - 19: Enr	30 - 03: Prin	16:00 - 17: Clara	30 - 13: Enr	30 - 13: Edg	-12	22:00 - Midenr	18:00 - 19: Edg	30 - 15: Sta		00:01 - 01: Enr	00 - 07: Enr	30 - 11: Sta	00 - 11: Edg	30 - 17: Enr	N- 13:1-1
1330 12:	1525 14:	2030 20:	1730 16:	1820 18:00 - 19:	1940 184	1450 14:	1410 14:00 - 15:	1725 16:	2110 20:	830 08:00	1630 16:	1940 18:	1330 12:	1815 18:	630 06:	1600 16:	1155 10:	1700 16:	1445 14:	1128 10:	2255 22:	545 04:	1300 12:	2000 20:	810 08-	2010 20-	800 08:00 - 09:	1600 16:	940 08:	1455 14:00 - 15:1	700 06:	830 08:	1520 14:00	1355 12:00	1051 10-	2240 22-00	2220 22:	1737 16:	810 08:	800 08:00 - 09: P	1855 18:	1810 18:	1720 16:00 - 17: E	720 060	1330 06:1	1650 16:1	930 08:00	820 08:00 - 09:	1230 12:1	1 00	1800 18:	1115 10:	1800 18:	250 02:	1630 16:1	1245 12:	1357 12:00 - 13:	1730 16:00	1610 16-	1935 18:	1415 14:	845 08:1	5 00:	725 06:1	1030 10:00 - 11: Station	1143 10:	1645 16:1	Town Town
School_Ho Time_of_c Ti									End term 3			December End term 3	1			End term 3	December	January sci			End term 3									End term 3		End term 2		anuary sci		End torm 3	-	End term 2				January sc								End term 2										End term 3						+	+	-
ic_Hol Sch	00:00	00:00	00:00	00:00	00.00	00:00	00:00	00:00		00:00	00:00	on on End	00:00	00:00	00:00	our Day End	00:00 Dec	00:00	00:00	00:00	our Day End	00:00	00:00	00:00	00:00	00.00	00:00	00:00	00:00	00:00:	00:00	:00:00	00:00	_	20.00			:00:00	00:00	00:00	00:00	year plant	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00 End	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00 End	00:00	00:00	00:00	00:00	00:00	00:00	00:00	20.00
Acc_Date Public_Hol 2014-08-27T00:00:00	5 2014-09-06T00:00:00	1-10-28T00	5-02-29100	2012-12-11T00:00:00	2016-06-32100:00:00	5-05-26T00	2016-06-23T00:00:00	2016-10-12T00:00:00	2016-10-07700:00:00	17-09-19T00:00:00	7-07-17100	2016-12-3(Christmas D	5-02-28T00	5-05-16T00	5-10-17T00	2016-09-30 Labour Day	2-12-22T00	2017-01-14T00:00:00	5-05-26700	2016-05-12T00:00:00	2016-10-0 Labour Day	2014-12-13T00:00:00	1-08-06T00	2-10-27100	0.2016-06-20100:00:00	1.05-28T00	2014-05-11700:00:00	1-08-05100	5-04-02T00	3y 20141002 2014-10-02T00:00:00 E	1-07-25700	1-07-09100	2014-03-10T00:00:00	2014-01-21700:00:00	2012-11-01100:00:00	2.09.21T00	2014-01-31T00:00:00	1-07-13700	5-12-14T00	3 2015-09-03T00:00:00	2015-08-05T00:00:00	5-01-0; Nev	1-03-02T00	7 2015-09-17T00:00:00	00-10-07	2015-12-03100:00:00	5-09-18T00	2016-02-08T00:00:00	2015-02-27T00:00:00	5-07-05T00	4 2015-07-14T00:00:00	3-10-16T00	3-09-20100	5-09-01T00	3-03-08T00	5-02-16T00	2014-12-05T00:00:00	15-02-13T00:00:00	2015-02-01100:00:00	7 2013-09-27T00:00:00	3-11-15T00	2013-12-18T00:00:00	2017-09-03T00:00:00	2013-03-01100:00:00	20130316 2013-03-16T00:00:00	2-12-05T00	7-08-27100	2-02-12100
40827 201	40906 201	41028 201	60229 201	20121211 201	50000 2010	20160526 201	60623 201	61012 201	20161007 201	70919 201	70717 201	20161230 201	60228 201	20160516 201	61017 201	60930 201	20121222 201	70114 201	60526 201	20160512 201	61002 201	41213 201	40806 201	21027 201	40827 201	40528 201	40511 201	40805 201	60402 201	41002 201	40725 201	40709 201	20140310 201	40121 201	20121101 201	20120212202	40131 201	40713 201	51214 201	20150903 201	20150805 201	60102 201	40302 201	20150917 201	20121007 201		50918 201	20160208 201	20150227 201	20150705 201	50714 201	3 20131016 201	30920 201	50901 201	20130308 201	50216 201			20150201 201	30927 201	20131115 201	20131218 201		20130301 201	30316 201	21205 201	70827 201	30212 202
of W YYY	5 Saturday 20140906 2	day 201	day 201	Tuesday 201	Saturday 201	Thursday 201		nesda 201		- 1	>			١.		ıy 201		Saturday 201	Thursday 201		lay 201	Saturday 201	nesda 201	rday 201	Monday 20160620 2	nesda 201	lav 201	dav 201	rday 201	Thursday 201		Q)	day 201		Monday 201		à	unday 201	day 201	Thursday 201	Wednesda 201	Saturday 201	lay 201	Thursday 201	S	av		λE			1 1	sq				<u>~</u>		T,				g	lay 201	Friday 201	Saturday 20130316 2	nesda 201	lay 201	day too
identWDay_of_WYYYYMMD 10 Wednesda 20140827	5 Satu	1 Tues	10 Mon	7 Tues	S Catr	10 Thur	7 Thur	5 Wed	7 Friday	1 Tuesday	1 Mon	7 Triesda	7 Sunday	1 Mon	5 Mon	5 Friday	7 Satu	3 Satu	1 Thur	10 Thur	10 Sunday	1 Satu	5 Wed	7 Satu	5 Mon	7 Wed	10 Sund	5 Tues	1 Satu	5 Thur	10 Friday	1 Wedn	7 Monday	10 Tues	10 Mon		7 Friday	10 Sund	5 Mon	7 Thur	1 Wed	7 Satu	1 Sund	1 Thur	10 Crid-		7 Frida	5 Mon	7 Friday	7 Sunday	10 Tuesday	1 Wed	1 Friday	7 Tuesday	1 Friday	10 Mon	7 Friday	7 Friday	1 Sunday	5 Friday	1 Frida	1 Wed	3 Sunday	1 Frida	7 Satu	1 Wed	3 Sunday 5 Triecday	C Inco
2	or/oth	casna	ini sno	erate	rdsud	ini sini	erate	or/oth	erate	casna	casua	erate	erate	casua	or/oth	or/oth	erate	stegor	Casua	ini sno	ini sno	casna	or/oth	erate	or/oth	casua	ini sini	r/oth	casua	or/oth	ini sno	casna	erate	us inj	casna	in in	erate	ini sno	or/oth	erate	casna	erate	casna	casua	casua	casua	erate	or/oth	erate	erate	ini sno	casna	casna	erate	casua	ini sno	erate	erate	casua ca/oth	or/oth	casna	casna	stegor	casua	erate	casna	stegor	Jr/oci
DegreeDetail 2 - Serious in	4 - Minor/oth	yy 6 - Non-	2 - Seric	3 - Moderate	4 - Minor/off	2 - Serio	3 - Moderate	4 - Minor/ot	3 - Moderate	ay 6 - Non-casu	ay 6 - Non-casua	3 - Moderate	3 - Moderate		4 - Minor/oth	4 - Minc	3 - Moderate	5 - Uncatego	av 6 - Non-casus	2	2 - Serious in	ay 6 - Non-casu	4 - Minor/ot	3 - Moderate	4 - Minor/ot	3 - Moderate	2 - Serio	4 - Minor/oth	v 6 - Non-	njury 4 - Minor/otl	2 - Serious in	ay 6 - Non-casu	3 - Moderate	2 - Serious in	2 0	2 - Serious II	3 - Moderate	2 - Serio	4 - Minor/oth	3 - Moderate	ay 6 - Non-casu	3 - Mod	ay 6 - Non-casua	ay 6 - Non-casu		y 6 - Non-casu	3 - Mode	4 - Mino	3 - Moderate	3 - Moderate	2 - Serio	ay 6 - Non-casua	v 6 - Non-	3 - Moderate		2 - Serious inj			ay b - Non-casu	4 - Minor/oth	y 6 - Non-	ay 6 - Non-casu	5 - Uncatego	ay 6 - Non-casua	3 - Mod	ay 6 - Non-casua	5 - Uncatego	4 - IVIII
T Degree 52 Injury	31 Injury	56 Towawa	35 Injury	87 Injury	72 Iowaway	36 Injury	73 Injury	40 Injury	30 Injury	11 Towaway	71 Towawa	95 Injury	65 Injury	28 Towaway	36 Injury	38 Injury	61 Injury	60 Injury	13 Towawa	77 Injury	86 Injury	46 Towaway	85 Injury	79 Injury	30 Injury	19 Injury	1 Injury	36 Injury	74 Towawa	17 Injury	50 Injury	10 Towawa	23 Injury	36 Injury	So Iowaway	oo mjury	02 Injury	39 Injury	10 Injury	76 Injury	65 Towaway	37 Injury	20 Towawa	37 Towawa	SS Iowawa	30 Injury 36 Towawa:	65 Injury	13 Injury	76 Injury	58382740 Injury	38 Injury	55 Towaway	88 Towaway	50 Injury	68 Towaway	59 Injury	14 Injury	96 Injury	91 Iowaway	37 Injury	33 Towawa	23 Towaway		42 Towawa	34 Injury	52 Towawa	79 Injury	4 milm oz
CRAEVENT 5532425	55975031 Injury	564590t		51796787	6042870	610857361		62567840	ıı	65206711	654540,	1 565885192	6158746	61693928	6238173	8 62923238 1	5019146	62072360	6120671	1 61657277	65217386	56729046	5743618	504238	5553121	5425126	5471921	5821018	6154497	5558911	5425496	5410221	53949423		492/5350	5260910	10455050	5611313	5850031	5898117	59504865	6185288	5324662	585951	51/605	5985814	60108665		5806847	5838274	58629638	5416955	5519528	5774856	5128126	5731665	5621841	20715035	490432091	5451158	25707415		_	51297642	5089270	496462	4001537	430100
RANO 131041537	1044135 1431044135	441052933	611099555	1103050 1531103050 51796787	621104197	521104398	521116231	1641117599	1125448 1641125448	1731156402	731142979	11323/1 16411323/1 2	311101531	521102780	541117158	1117353 1631117353	124550322	1711126633	321103536	1103710 1621103710	541118400	441052881	431039027	124540804	1106190 1621106190 60580630 Injury 4-	121027392	121027606	131041489	321097733	1044415 1441044415 55589117 Injury	131034417	431034834	1411016336	1411017920	124552118	1240303/12	1010391 1411010391 104550502 Ini	131033579	541092063	531095533	531075250	511091016	411013463	1080852 1531080852 58595137 Towaway	121041240	1043221 1431043221 55/98450 Injury 1088714 1541088714 59858146 Towaway	531082055	511094699	511068904	31074060	1531074238	134600851	133597467	531078671	31572044	511065953	1053881 1441053881 56218414 Injury	511058917	1511059423	853154 133598845 54511587 Injury	341002954	1341003228	1731151359	131554149	830681 131557931 50892704 Injury 3	124543576	731149014	12122022
3AID CI	1044135 1	1052933 1	1099555 10	829737 1	1104197 14	1104398 16	1116231 1621116231	1117599 16	1125448 18	1156402 17	1142979 1	11323/11	1101531 16	1102780 1621102780	1117158 16	1117353 1	826094	1126633 17	1103536 16	1103710 16	1118400 16	1052881 1441052881	1039027 1	821239	110619011	1027392 14	1027606 14	1041489 14	1097733 16	1044415 14	1034417 14	1034834 14	1016336 14	1017920 14	017340	1010479 15	1010391 14	1033579 14	1092063 15	1095533 13	1075250 1531075250	1091016 1	1013463 1	1080852 1:	1081240 1	1088714 15	1082055 1	1094699 1611094699	1068904 1511068904	1074060 1531074060	1074238 15	854683 1	852367	1078671 1531078671	837913	1065953 15	1053881 1	1058917 1.	1059423 15	853154	1002954 13	1003228 13		828685 1	830681	823065	1149014 1	070079
[0]	Ц			1			<u> </u>	Ľ	Ц			Ľ	1	1	Г			1	1			Ш		1		L	1		1		_	Ш					1	Γ.						1	Ľ	1.	П	_1		1.	L						Ц		Ľ		П	Ц			ш	Т.	_	L



											nci 6)		ΔТ	LΛ	ח	ıra	ıft	R	۵n	or	+	20	119	2																		4	1		N	N	IE	R	1	N	E	S	T	C)()(J	N	C	:11					
Other_Traf	No traffic o	No traffic o	č	No traffic o	ŏ	9	YI.	No traffic d	713	7	9 9	7 4	7 0	71 5	-	1	71 5	710	Т ч	_	10	No traffic o	0	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic a	No traffic o	No traffic o	No right tu	No traffic o	No traffic o	Ped crossir	No traffic o	No traffic o	Give way s	No traffic o	No traffic of	No traffic o	No traffic o	No traffic o	Ped crossir	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	No traffic	No traffic o	No traffic o	No traffic o	No traffic o	No traffic o	
ther Natural_Lisignals_Op	Dawn On	Dawn Nil	Unknown Daylight On	Darkness On	Darkness On	Daylight	Daylight	Daylight On	Daylight	Daylight	Darkness	Davlight	Darkness	Davlight	ne Davlieht	Davlight	Darkness	Darkness	Dawn	Daylight	Daylight On	Daylight Nil	Daylight Nil	Daylight Nil	Daylight Nil	Daylight On	Daylight On	ing Darkness Nil	Darkness Nil	Daylight Nil	Daylight On	Daylight Nil	ing Daylight Nil	Cast Daylight Nil	Darkness On	ing Darkness Nil	ing Darkness On	Davlight On	rcast Davlight Nil	Daylight On	Daylight On	Daylight Nil	Dawn Nil	rcast Daylight Nil	Daylight Nil	Inknown Dusk On	Dawn	Daylight	Dawn	Darkness	cast Dusk	Davlieht On	Overcast Daylight Nil	Daylight	Daylight	Darkness	Darkness	Darkness	Daylight	Darkness Nil	Daylight	Darkness	Daylight	Daylight On	
ourface_CdWea	V	y Fine	ıknown Unkr	y Fine	y Fine	y Fine	y Fine	y Fine	A Line	A Line	y Fine	v Fine	v Fine	V	et Raini	v Fine	V	Fine	v Fine	y Fine	y Fine	y Fine	y Fine	y Fine	y Fine	y Fine	y Fine	et Rain	y Fine	y Fine	y Fine	y Fine	et Kain	מושים מאפו	V Fine	pt Rain	pt Rain	v Fine	v Over	y Fine	y Fine	y Fine	y Fine	y Over	y Fine	y rille	v Fine	y Fine	y Fine			y Fine				et Raining	y Fine			y Fine				y Fine	
Road_SurfaSu	ealed	ealed Dr	ealed Un	ealed Dr	ealed Dr	ealed Dr	ealed	realed Dr	Coaled Dr	nalea poleo	ealed Dr	paled Dr	ealed Dr	paled Dr	w paled	Daled Dr	paled Dr	paled Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed W	ealed Dr	ealed Dr	realed Dr	realed Dr	w paled w	M poleo	naled Dr	W haled	W baled	Daled Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	ealed Dr	realed Dr	ealed Dr	ealed Dr	ealed Dr		Sealed Dry	ealed Dry	Sealed Wet		ealed Dry	Sealed Wet	Sealed Dry	Sealed Dry		Sealed Dry	П	\neg	T	Sealed Dry Sealed Dry	
Ostreet_Ligh	5	#0	Unknown	On	On	Unknown	5 5	5 5	COOM	_	5 5	i v	į.	Z	#0	Ilnknown	5	ē	Unknown	Unknown	off s	off S	Off	off s	Off S	off S	off s	Off.	0	Unknown	Unknown	Unknown	Inframent	Jan Dillowin	5 6	ē	ē	i v	IN.	Unknown	Unknown	Nil	o uo	5 5	E 6	Ilnknown	Unknown	off s	On			#0		Off										5 5	
rmanen Hazardous Temp							+															veway/entrance			grade					+			veway/entrance	arch oth forther	rycie prii/iidiui	wav/entrance	200000000000000000000000000000000000000								+		-						Steep grade					Varrow roadway	+					+	
Align Per	ved	ight	ved	ved	ight	ight	ight	aignt	veu ioht	iight	iight	Straight	ight	ipht	ieht	inht	ipht	ioht	ight	ight	ight	ight Drive	ight	ight	ight Steep	ved	ned	ight	ight	ight	ight	iight	ight Drive	iight Foot/	iight root	ved Drive	ioht	ipht	ight	ned	ight	ight	ight	ight	iight	iight	ight	ight	ight	ight	pen	pan	ight Steep	ight	ight	ight	ved	sight Narro	iight	iight	ight	ight	Straight	ight iight	
Geo (Location TRoad	2 T-Junction Cur	1 2 T-Junction Stra	1 X-Intersect Cur	1 X-IntersectCur	1 X-Intersect Stra	1 2-Way und Stra	1 T-Junction Stra	1 Throtion Stra	1 2-Wayiind Str	2 2 Way und Str	1 2-Way und Stra	, u		1 T-lunction Stra	1 T-Junction Str	1 2-Way ind Str	2 2-Way und Stra	1 X-Intersect Str	1 T-Junction Stra	1 T-Junction Stra	1 T-Junction Stra	1 2 T-Junction Stra	1 2-Way und Stra	1 2-Way und Stra	1 2 2-Way und Stra	1 X-Intersect Cur	1 Divided ro:Cur	1 X-Intersect Stra	1 2 2-Way und Stra	1 2-Way und Stra	1 I-Junction Stra	1 2-Way und Stra	1 Z-way und stra	1 T-lunction Str	1 X-Intersect Str	2 2-Way und Cur	1 T-lunction Str	1 2-Way und Stra	2 T-Junction Stra	1 T-Junction Cur	1 T-Junction Stra	1 T-Junction Stra	1 T-Junction Stra	1 T-Junction Str	1 2-Maying Str	1 X-Intersect Str	1 X-Intersect Stra	1 2-Way und Stra	1 X-IntersectStra	1 2 T-Junction Stra	2 2-Way und Cur	1 T-Junction Cur	1 2-Way und Stra	1 2 2-Way und Stra	1 X-IntersectStra	1 2 2-Way und Stra	1 2 T-Junction Cur	2 2-Way und Stra	1 T-Junction Str	1 2 2-Way und Stra	1 2 X-Intersect Stra		1 2 2-Way und Stra	1 I-Junction sur	
Class LGA Regio	ighvAshfield	sifie Ashfield	class Ashfield	class Ashfield	class Ashfield	ligh Ashfield	sifie Ashfield	class Ashtreid	lioh Ashfield	iigh Achfiold	iighv Ashfield	sifie Ashfield	classAshfield	rlassAshfield	class Ashfield	cifio Achfiold	rlace Ashfield	sifie Ashfield	sifie Ashfield	sifie Ashfield	class Ashfield	classAshfield	ighv Ashfield	class Ashfield 1	sifie Ashfield	class Ashfield	ighv Ashfield	sifie Ashfield	sifie Ashfield	sifie Ashfield	sifie Ashtield	class Ashtreid	cife Achfield	Sille Ashlield	ight Ashfield	rlaceAchfield	rlassAshfield	cifie Ashfield	class Ashfield	class Ashfield	class Ashfield 1	class Ashfield	classAshfield	sifie Ashfield	Sine Ashneid	rlaceAchfield	classAshfield	class Ashfield	classAshfield	class Ashfield	Sittle Ashtreld	High Ashfield	sifie Ashfield	sifie Ashfield	sifie Ashfield	sifie Ashfield	class Ashfield	sifie Ashfield	class Ashfield	lighv Ashfield	sifie Ashfield	classAshfield	class Ashfield	class Ashtheid	
RMS_Rout Road	1 State High	0 Unclas	167 Other clas	167 Other clas	167 Other			167 Other clas	1 State High	1 Charte Light	1 State High	7018 Unclassifie		Other	Other	7017 Unclaceifia			7017 Unclassifie		167 Other	167 Other	1 State P	167 Other	0 Unclas	167 Other	1 State	0 Unclas	7017 Unclas	7017 Unclas	/01/ Unclas	16/ Other	7019 Unclassifi	1 Ct-16 L	1 State High	167 Other	167 Other	0 Unclas	167 Other	167 Other clas	167 Other	167 Other clas	167 Other	7018 Unclas	/ULB Unclassif	167 Other	167 Other clas	167 Other clas	167 Other	167 Other clas	U Unclassifie	1 State	7017 Unclassifie		7017 Unclassifi		167 Other clas	0 Unclassifie		1 State High	7017 Unclas			167 Other 7017 Unclas	
Suburb	Newtown	Enmore	Enmore	Enmore	Newtown	Newtown	Enmore	Newtown	Nowdown	Nontown	Newtown	Newtown	Enmore	Newtown	Newtown	Frances	Newtown	Newtown	Enmore	Enmore	Newtown	Newtown	Newtown	Newtown	Enmore	Enmore	Newtown	Enmore	Enmore	Enmore	Newtown	Newtown	Newtown	Mountown	Newtown	Newtown	Fomore	Newtown	Enmore	Enmore	Enmore	Enmore	Enmore	Newtown	Newtown	Fomore	Enmore	Newtown	Newtown	Newtown	Nontour	Newtown	Enmore	Newtown	Newtown	Newtown	Enmore	Enmore	Mondous	Newtown	Newtown	Newtown	Newtown	Newtown	
istar Direction Cross_stre Cross	2 West Princes Hwv	10 South Sarah St	0 On the spd Stanmore Rd	0 On the spd Stanmore Rd	0 On the spd Station St	100 North Alice St	0 On the spd Camden St	Enmore	Nimber 24	Number 5	Spo Number 4.	T	West Marian	ons o		20 North Camdon St	0 On the snd Number 21Hn	0 On the snd Alice	0 On the spd Lynch Ave	0 On the spd Camden St	0 On the spd Princes Hwy	10 East Bailey St	50 South Newman St	50 West Station St	0 On the spd Number 78Hn	0 On the spd Edgeware Rd	50 North Goddard St	0 On the spd Alice St	110 North Camden St	50 North Camden St	0 On the spd Alice	100 West Station St	O On the spd Number 18Hn	O On the special as	O On the special strain	0 On the snd Onortos Ent	On the snd Cambridge St	35 North Camden St	10 West Marian St	0 On the spd Metropolit Rd	0 On the spd MetropolitRd	0 On the spd Simmons St	0 On the spd London St	0 On the spd Peacock Lane	TO West Hawken St	O On the confinence Bd	0 On the spd Stanmore Rd	Princes	0 On the spd Station St	Phillip	30 South Enmore Rd	0 On the snd Holt St	200 North Llewellyn St	North	0 On the spd Llewellyn St	15 West Ferndale Lane	10 East MetropolitRd	Number 56	10 Con the spd Metropolitika	0 On the spd Number 39Hn		On the spd Station	Station	10 West Princes Hwy 0 On the spd Alice St	
Street Street_tyDi	П	a		Enmore Rd	Enmore Rd		Edgeware Rd	Enmore Rd	Princes Hun	Т	Т		e e	Т	Т	Edgeware Rd	Enmore Rd	9	Edgeware Rd	Edgeware Rd		Enmore Rd		Enmore Rd	Edgeware Rd	nore Rd	Princes Hwy	ē.		Edgeware Rd		one Rd	ore Kd	,	Princes Hwy	Τ.	Τ.	9		nmore Rd	nore Rd	Enmore Rd	ore		e St	Edpoware Rd		П	Enmore Rd		e e	Princes Hwy	are		Edgeware Rd	Camden St	Enmore Rd	T	Т	Princes Hwy	re	Enmore Rd	Т	Enmore Rd Edgeware Rd	
me_of_c TimeRangeStre	04:00 - 05:	06:00 - 07:	08:00 - 09:	1700 16:00 - 17: Enn	22:00 - Mic	08:00 - 09:	14:00 - 15:	1200 12:00 - 13: Enn	12:00 - 13:	10.00 10.	20:00 - 21:	14:00 - 15:	18:00 - 19:	12:00 - 13:	10:00 - 11:	12:00:13	00-01-01	20:00 - 21:	06:00 - 07:		08:00 - 09:	1430 14:00 - 15: Enn	.60 - 00:80	1000 10:00 - 11: Enn	1010 10:00 - 11: Edg		:60 - 00:80	06:00 - 07:	00:01 - 01:	845 08:00 - 09: Edg	60 - 00:80		1600 16:00 - 17: Enmo	16.00 - 17.	2030 20:00 - 21: Prin	18:00 - 19	00-01 - 01-Er	14:00 - 15:	08:00 - 09:	1550 14:00 - 15: Enn	1645 16:00 - 17: Enn	12:00 - 13:	04:00 - 05:	12:00 - 13:	2115 20:00 - 21: Prince	16:00 - 17:	06:00 - 07:	06:00 - 07:	04:00 - 05:	20:00 - 21:	1830 18:00 - 19: Edg	12:00 - 13:	:60 - 00:80	10:00 - 11:	06:00 - 07:	04:00 - 05:	18:00 - 19:	18:00 - 19:	18:00 - 19:	2120 20:00 - 21: Enin	10:00 - 11:	1810 18:00 - 19: Enn	1445 14:00 - 15: Enn	1930 18:00 - 19: Enmore Rd 1635 16:00 - 17: Edgeware Rd	
AccidentW Day_of_W YYYYMMD Acc_Date Public_Hol School_Ho Time_of_c TimeRange Street 1 Timeday 2 2013/08/01/2082 27700-00-00	20130329 2013-03-24Easter period	20130322 2013-03-22700:00	20140109 2014-01-09T00:00:00 January sci	20130507 2013-05-07T00:00:00	20130425 2013-04-2 Anzac day End term 1	20141115 2014-11-15T00:00:00	20141205 2014-12-05700:00	201/0219 201/-02-19100:00:00		201/0303 201/-03-03100:000000000000000000000000000000	20170407 2017-04-07100:00:00		20170618 2017-06-18700:00	20170527 2017-05-27100-00-00	20170607 2017-06-07100:00:00	00-00-0012-02-2012-02-00-00	20170416 2017-04-14Faster neri End term 1	20170222 2017-02-22700-00-00	20170406	20170518 2017-05-18700:00:00	20170407 2017-04-07T00:00:00	20170718 2017-07-18700:00	20121024 2012-10-24T00:00:00	20121108 2012-11-08700:00:00	20130511 2013-05-11700:00:00	20130417 2013-04-17T00:00:00 End term 1	20130617 2013-06-17T00:00:00	20130715	20131204	20150129 2015-01-29700:00	2015-03-24100:00:00	20150121 2015-01-21100:00:00 January sci	20150420 2015-04-20100:00:00	20150303 2015-03-03100:00:00	20141219 2014-12-19100:00:00	20130619 2013-06-19T00:00-00	20130630	20130620 2013-06-20T00:00:00	2013091	20141113 2014-11-13T00:00:00	20141204 2014-12-04T00:00:00		20150223 2015-02-23T00:00:00	2015053	20150603 2015-06-03100:00:00	20150204 2015-08-04100:00:00	20150727 2015-07-27100:00	20150730 2015-07-30T00:00:00	20150624	20151017 2015-10-17700:00	2012-10-09100:00:00	20151125 2015-11-25T00:00-00	2016-02-04	20131210 2013-12-10700:00:00	20140203 2014-02-03T00:00:00	20140228 2014-02-28T00:00:00	20140405 2014-04-05T00:00:00	20160512	20161014 2016-10-14100:00:00	20161018 2016-10-18700:00:00	20140424 2014-04-24Anzac day End term 1	20140619 2014-06-19T00:00:00	20140801 2014-08-01700:00:00	20140817 2014-08-17700:00:00	
AccidentWDay_of_W	1 Friday	7 Friday	1 Thursday	7 Tuesday	7 Thursday	5 Saturday	5 Friday	1 Sunday	1 Eridav	2 Cumdan	3 Friday	3 Monday	3 Sunday	3 Saturday	3 Wednesda	1 Monday	1 Sunday	3 Wednesda	1 Thursday	3 Thursday		_	TO.	7 Thursday	5 Saturday	1 Wednesda	- 1	10 Monday	CD.	_	/ Inesday	> Wednesda	1 Sunday	10 Eridan	7 Saturday	7 Wednesda	10 Sinday	1 Thursday	5 Friday	7 Thursday	7 Thursday	2	7 Mc	1 Sunday	10 Thursday	1 Tuesday	1 Monday	l .			_	10 Wednesda	7 Thursday	5 Tuesday	5 Monday	1 Friday	1 Saturday	7 Thursday	Tuesday	5 Tuesday		10 Thursday	7 Friday	5 Sunday 7 Friday	
DegreeDetail			vay	ry 3 - Moderate		П		lowaway b - Non-casua	Ven	vdy						yev 6			vav		S				ry 4 - Minor/oth	Towaway 6 - Non-casua		$\overline{}$	way			4 (ry 2 - Serious in	ÁPA	3 6			wav 6		ry 3 - Moderate		ry 4 - Minor/oth		/ay	ry 4 - Minor/oth	2	Towaway 6 - Non-casua	ry 2 - Serious inj			ry 3 - Moderate	Т					Towaway 6 - Non-casua		ry 2 - Serious in		vay		Т	ry 4-Minor/oth	l
CRAEVENT Degree			56344086 Tow	51918643 Injury	51345356 Injury		56581618 Injury									-	65988387 Tow			64668640 Injury	63778512 Injury	64777536 Injury	51643484 Injury	236710093 Injury	51558257 Injury	-	50990020 Injury		54119365 Tow	57036726 Injury			582431/9 Injury 57427235 Toway		57472608 Injury			52350142 Tow		56822468 Injury		53590669 Injury	56939727 Injury	F 3	58503858 Injury	= -			58285840 Injury		49023314 Injury	59711234 Injury	_		54154762 Injury	54100454 Tow		61364438 Injury		224820297 Injury	-	55932316 Injury	55986942 Injury	56395965 Injury 56152374 Injury	-
CRAID CRANO CR. 11001596 10		131560723	1008042 1411008042 5	836276 132567329 5	132569276	_		1129243 1/11129243 6	1721124750	1721134730	1721139914	1721140445		1721142803	1721145491	1711128532	1771135970	1711136303	_	1721141494	1721150232	1144754 1731144754 6	814415 124528372 5	124543445	837033 132568652 5	132572158	132578724	133603802	1341000954	~ .	1511063563	1511064398	1066427 1521066427 5	1021000402	105/806 144105/806 5	137583959	137584069	132576686	133596019	-	1441054627		1511070044	1521070932	10/2303 15/210/2303 5	1531073951	4940	1531076150	1521079179	1541084779	100033/15/100033/	\perp	35 1611094435	1341009397	1009557 1411009557 5		_	1621109422		1122480 1641122480 22		- 1	1038663 1431038663 5	- 1	



	Ne	ew.	to۱	٧n) (a	are	ea	6	5)	L/	١T	M	l D)ra	aft	t F	≀e	pc	rt	: 2	01	.8	_	_	_	_	_	_	_	_	_		_								7	•									_		_				_	_	'"		_				
2 S	N N	No No	N N	No	No	ON:	ON S	ON :	No.	No.	ON :	Yes	0 N	ON .	ON I	ON I	ON ON	N N	N N	No.	No	No	No	ON N	ON N	0 0	N N	No	No	No	No.	N 0	No.	N.	No	No.	ON ON	O N	N.	No	Yes	o N	N N	No	No.	oN oN	N 8	N N	No	No.	0 Z	N N	No	No	No	oN oN	ON ON	No	No	No	oN oN	N N	No	No	No
0 0	O No	O No	ON O	O No	O No	ON O	0 N	ONO	O No	1 No	o No	O No	0 N	0 0	O NO	O I	ON T	ON O	O O	0 No	ON O	O No	0 No	ON O	O NO	0 0	o o	0 0	O No	O No	o No	0 0	0 0	oN 0	O No	o No	O No	S ON	oN 0	O No	O No	O No	ON O	O No	O No	0 No	0 0	0 No	O No	ON O	1 No	0 0	ON O	O No	1 No	O No	ON O	0 No	O No	O No	0 0 0	0 NO	O No	1 No	O No
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0
7	1 1	0 0	0	0	0	0	0	0	-	0	-	0	0	0	0	0		0	0	0	0	1	0	0	9 6	1 0	0	0	0	0	- 0	0	-	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	-	0	0	0	0	1	0	0	0 0	0	0	0	1	0 0	0	0	0	0
	0	0 0	2 0	1 0	0	0	0 0	0	0	0	0 0	0	0 0	7 0	0 0	0 0		9 6		0	0	0	0	0 0	0 0	o e	1 0	0	1 0	0	0 0	0	0	0	1 0	0 0	0 0		1 0	0 0	0 0	0 0	0	1 0	0	0 0	0 0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0	0 0	1 0	1 0	0 0	0 0	0
0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0 0	0 0	0	0	0	0 0	0 0	0	0	0	0	0	0 0	0 0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0
- t	1 1	0 .	2	1	1		0 0	0	-	-		0			-		4 0	-	, ,	0	1	1	-	0 0	7 .	1 -	1 0	2	1	0		7 0	-	2	1			1 0	1	0	0 0	0 .	10	1	1	- 0	0 11		0	0		1 0	2	1	1	0 -	-	0	0	1	0	- -	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	2 2	v m	2	3	2	2	1	-	4	2	2	2	7	4 (7	7 0	0 0	, ,	2	2	1	2	7	7 -	7	, ,	2	2	2	2	2 2	-	2	2	m •	2	0 0	2	2	2 .	4 (W W	2	2	2 2	2 2	2	2	2	7	2	2	4	2	2 2	2	2	2	2	2 2	2	2	2	2
N ON	N o	No	Yes	Yes	No	No.	oN S	ON	No.	oN :	ο ₀ :	ON :	o S	res	ON S	ON S	ON ON	NO.	Ype	S Q	No	No	No.	ON ON	ON ON	No.	S	No	Yes	No	9 :	N ON	No	No.	Yes	9 :	ON ON	N ON	Yes	No	No.	ON ON	No No	Yes	No	No No	Yes	No	No	No.	oN o	N ON	No	No	No No	No No	N 0	No.	No	No	Yes	Yes	No	No	No
	П																				П																			П																									
8 8	8	No M	N o	No	No	No	ON S	ON :	No.	ON :	ON :	ON:	ON ON	ON	ON .	ON S	ON N	ON ON	N C	No No	No	No	No	ON ON	ON ON	No.	S S	No	No	No	No.	N 0	No	No	No	o :	ON ON	No No	No	No	No.	ON ON	N o	No	No	o N	N 0	No	No	No.	ON ON	o N	No	No	No	o N	No No	Yes	No	No	o N	N o	No	No	No
N 0	8	No No	9 S	No	No	oN :	Yes	ON	9 :	No	9 :	No	o S	ON .	0 E	ON S	ON N	N N	2 2	8	Yes	No	S.	ON ON	ON ON	0 S	2 2	S	No	No	9 E	N 0	N.	N N	No	<u>۹</u>	o N	S S	N N	No	No.	0 S	N N	No	No	No No	N 0	No.	No	N :	o S	N N	No	No	No.	o N	S S	S S	No	No	S S	N S	Yes	No	Yes
										T							Ī																			Ī											T				Ī														No Yes
S S	No No	gl Yes			Yes	Yes	Yes		No.	Yes	gl Yes	Yes	Yes	oe Yes	Yes	S	es es	s s	3 5	es	Yes	No	Yes	Yes	res	9 9	, be	(es	No	Yes	Yes	S S	No	Yes	Yes			Z A	Yes	Yes	Yes	Yes	Yes	do	,es	, es	Yes	No	Yes	Yes	Yes		Yes	Yes	Yes	(es	S 8	(es	(es	sa,	/es	9	res		
ב	Other ar	swip Other ar	Vehicle-	Vehicle-	Rear end	Rear end	swip Other ar	o let	CWa						-	ide s Other ar	ge le Other ar	onje Otner ar	Vehicle	Right an	0.0	CWa			mear end	/mod Vohicle-	om Right an	Rear end	Vehicle-	g fro			CWa		Vehicle-			park	Vehicle-	om rRight an	obje Other ar	g fro Right an	Head on	Ш		8		ge le Other ar	Rear end	Other ar				WO.	Other ar	Other ar	Other ar	Other ar			Vehicle	Vehicle-	swip Other an	ge le Other ar	Same - Rgt turn side s Other angl Yes
o - Right-thru	p - Right-thru	ne - Lane side	- emerging	- Far side	ne - Rear end	ne - Rear end	ne - Lane side	riagewa	contro	ne - Rear end	path - Vehicle	p - Head on	ne - Rear end	- Near side	ne - Kear end	ne - Left turn s	ne - Lane char	- On carriage	- Near side	- Cross traffic	arding/alightin	t of control on	ne - Rear end	ne - Kear end	ne - kear end	- On footway	- Right-thru f	ne - Rear end	- Near side	nov - Emergin	o - Right-thru	ne - near end o - Right-thru	of control on	ne - Rear end	- Near side	ne - Rear end	ne - Rear end	nov - Parking-	- Far side	- Right-thru fi	t off cway into	nov - Emergin	p - Head on	i - Near side	ne - Rear end	p - Right-thru	- Algnt-tinu ii 1 - On carriage	ne - Lane char	ne - Rear end	p - Right-thru	ne - Left turn s	nov - Leaving	ne - Rear end	- Right-thru fi	p - Right-thru	nov - other	o - Right-thru	o - Right-thru	ne - Lane char	ne - Rear end	I - Near side	i - Near side	ne - Lane side	ne - Lane char	ne - Rgt turn s
202 Op	202 Op	305 Sar	1 Pec	3 Pec								201 Op	301 Sar	I Pec		309 Sar	307 Sar 703 Lot	A Por	1 Pac	101 Adj				301 Sar	301 Sar	DO COV	104 Adi	301 Sar	1 Pec		202 Op	202 Op			1 Pec	301 Sar	301 Sar		3 Pec	104 Adj	703 Lef	406 Ma	201 Op	1 Pec	301 Sar			307 Sar	301 Sar	202 Op				102 Adj			202 Op		306	301	1 Pec	1 Pec	305 Sar	307 Sar	308 Sar
ou Vehicles fr	or Vehicles fr	Sy Vehicles fr	si Pedestrian	id Pedestrian	\neg	Vehicles fr	ss Vehicles fr	td Off path of		\neg	ō	Vehicles fr	Vehicles fr	Sirvedestrian		SI Vehicles fr	t Off path or	ar Pedectrian	si Pedestrian	ffi Vehicles fr	120	o(Off path or	-	\neg	venicies in	OUT path of	ar Vehicles fr	Vehicles fr	si Pedestrian	g f Parking/U	or Vehicles fr	ou Vehicles fr	o Off path or		si Pedestrian				id Pedestrian	ar Vehicles fr	t Off path or	g Parking/U		si Pedestrian	Vehicles fr	ouVehicles fr	-	ng Vehicles fr	Vehicles fr	or Vehicles fr	si Vehicles fr	p On pari				an Parking/U	or vehicles fr	o Vehicles fr	ng Vehicles fr	Vehicles fr	S	.02	es Vehicles fr	ng Vehicles fr	n Vehicles fr
21 Right thr			0 Ped near	2 Ped far s			33 Lane sid	/O Off road	5			20 Head on	30 Rear enc	O Ped near		3/ Left turn	35 Lane cn.	3 Pod on C	O Ped near	10 Cross tra		74 On road-	30 Rear enc	30 Rear end	24 On road	6 Ped on fe	13 Right ne	30 Rear end	0 Ped near			21 Right thr	74 On road-		0 Ped near	30 Rear end	30 Rear end		2 Ped far s	13 Right ne	71 Off rd le	47 Emergin	20 Head on	0 Ped near	30 Rear end	21 Right thr	3 Ped on C	35 Lane cha	30 Rear end	21 Right thr				11 Right far			21 Right thr	21 Right thr	34 Lane cha	30 Rear end	O Ped near	Ped	33 Lane side	35 Lane cha	36 Right turn
			50 Ves	ON 09	ON 09	50 No	50 Yes	50 res	50 No	0N 09	50 No					50 NO				0N 09	50 No	50 No	0N 09	50 Yes		50 No	20 No	00 No	50 No							0 No	50 Yes	50 No	0N 09	50 No	60 Yes	50 Yes			50 Yes	0N 09					50 No	50 Yes			SO No	50 No		60 No	50 Yes	50 No	50 No	50 No		50 No	ON 09
1099555	4558506	21103958	1104398	1116231	11117599	11125448	31156402	31142979	11132371	31115598	11101531	21102780	1117158	3111/353	24550322	11126633	1109526	1103710	1118400	1052881	1039027	24540804	1106190	31040623	1037606	1041489	1097733	1044415	31034417	31034834	1016336	4532118	4533712	1010429	11010391	31033579	1092063	1075250	1091016	11013463	31080852	1081240	11088714	1082055	11094699	1014614	1074060	11074238	14600851	33597467	31078671	1572044	1065953	11053881	11058917	1059423	3598845	11002954	11003228	1151359	32577117	1557931	34543576	11149014	131550997
099555 161	829737 12	1103958 162	104398 162	1116231 162		1125448 164	156402 17:	142979 173	132371 164				117158 164	-		126633 1/1	103536 163	103230 107	118400 164	1052881 144	1039027 143	821239 12	1106190 162	040623 143	265/20	02/505 142	097733 162	044415 144	034417 143	034834 143	1016336 141	816329 12	817249 12	010429 133	010391 141	33579 145	092063 154	75250 153	091016	013463 141	380852 153	081240 154	1088714 154	1082055 153	094699 161	068904 151		074238 153	854683 13	_ !				053881 144	058917 151	059423 151	853154 13	002954 134	003228 134	151359 173	841267 13	330681 13		1149014 173	826673 13
	4441205253 30 No 371 Sofitation Market Mar	144410995555 30 No 21 Right through vehicles fr 2020 Oppo - Right vehicles fr 2020 Oppo - Right vehicles fr 2020 Oppo - Right through vehicles fr 2020 Oppo - Right vehicl	124 124	No. 17 124558505 15 10 10 10 10 10 10	124558505 20 100 27 1241585806 20 100	No. 10 10 10 10 10 10 10 1	No. 1,	No. No.	No. 10 10 10 10 10 10 10 1	No. 1,	No. 1, No. N	No. 10 10 10 10 10 10 10 1	No. 10 12 13 13 13 13 13 13 13	No. 10 No. No.	No. 21 Start turn') Wellinges No. 10 No.	No. 19 19 19 19 19 19 19 1	2.3 United that the control of the c	No. 1,		200 21 Right trans Particular Part	Statistication Stat	Statistical Stat						Section 1985 Sect												Sign Tilligettinological Michael March Michael March	No.	Signate Signature Signat	State March Marc		State Colored State Stat		Fig. Fig.	Column C			Column C														

Newtown (area 6) LATM Draft Report 2018



m'l	-	INE	W	to	ΛΠ	10	re	a (<u>)</u>	LA	11	VI		d I	1 1	Re	שנ	ווכ		U.	TC)	$\overline{}$	\neg	_	_	_						_	_	_	_						_						$\overline{}$	\neg	$\overline{}$	Т	$\overline{}$	_	_	_	$\overline{}$	$\overline{}$	_	_	$\overline{}$	_	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	7
ng_Fatigue_ No	9 :	0 N	2 2	No	2	2 2	N _o	No	9 2	0 g	ON ON	2 2	2	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	N _o	No	N _o	Yes	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	S.	o _N	oN:	S.	No	Yes	No No	N N	No	S.	S.	No	S.	2	0 g	N N	2 8	2
Mot(Speedi 0 No	0 Yes	0 0	0 0 0	O No	0 N	ON O	1 No	O No	o No	1 No	0 0	0 0	0 No	0 No	O No	1 No	0 No	0 No	0 No	1 No	0 No	0 No	O No	O No	0 No	0 No	O No	0 No	ON O	0 No	ON O	0 No	0 No	0 No	0 No	O No	O No	O No	1 No	1 No	1 No	O No	O No	0 Yes	O No	O No	O No	0 Yes	0 No	O No	ON O	O No	1 No	0 No	0 No	0 No	0 No	0 Yes	0 No	O No	0 No	O No	O No	No No	I NO	0 C	2
Mot Num 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1	0 (5 C) c	5
m_Bicyd Num 0	0	0 0	0	1	0	0	0	0		0 •	1 0	o ==	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	1		0	0 0	5 C) C	,
um_Bicyd Nu 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	5 0	o c	,
Num_Pede Num	0	0	0	0	0	0	0	0	0	0	9 -	10	-	0	0	0	0	0	0	0	1	1	0	0	0		0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	-	0	0	0	5 0	5 0	2 0	5
Num Pede	0	0 0	0	1 0	0	10	0	0 0	0	0 0	-	0	0	0	0	1 0	0 0	0	0	0	0	0	0	0	1 0	0	0 0	0 1	0 1	0	0	0	0	0	0 0	0) 0	0 1	0 1	0	1 0	0 0	0 0	0 0	0	0 0	0 0	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5 0	2 0	, ,	
S_Numbers 0	0	0 0	0	0	0 0	0 0	0	0	0	0 0	5 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0 0	o c	
Un Number 2		2 3	2 2	2	2	7 2	2	2	2	2 0	7 0	2	2	e	2	2	4	2	2	2	2	2	m	2	3	2	3	2	2	2	2	e	2	3	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	m	-	2	3	2	2	m	2	2	2	2		2	7 .	7 0	4 -	•
Ped Traffic	1	+			1				+		+																																									1	1	+	+	+							+	$\frac{1}{1}$	+	$\frac{1}{1}$	1
sh_BicyCrash No		T		No					No.		T		Ī		No							Yes							No				Yes		8																													o v		T	
n_Mot				No Yes																		o No																																										Sa No			
Ĕ				No N																																																															
No No		T		No																														Γ																																	
No No	No	ON ON	No	No	No.	Yes	No	No	No	ON ON	ON ON	No No	9	No	No	No	No	No	No No	N _o	No	No	9 N	No	No	No	No	No	No	No	N _o	No	N _o	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0 N	8	<u>۷</u>	8	9 N	<u>۷</u>	9 N	No No	No	_S	0 N	No No	No	No.	No No	No No	N N	2
No No	o i	ON ON	N o	No	No.	ON ON	No	No	No.	ON ON	ON ON	0 N	No.	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	ON N	No.	Q.	S S	No	No.	No	No No	No	No No	ON N	No	No.	No	No.	No.	N CN	3
No	9	No.	8	No	₽:	2 2	N _o	No	№	2 2	S 5	2 2	9	N _o	No	No	No	No	9	S N	N N	No	8	Yes	N	N N	No	No	No	N	N _o	N	8	N _o	N	No	No	No	No	No	No	No	No	No	No	Yes	No	No	N _o	8	2	2	2	Yes	₽ :	Yes	N _o	No	9	8	8	₽:	2	9 S	N N	5 S	2
Ligh	N :	No Vec	S S	No	S :	S S	No	No	No.	S 5	ON ON	2 S	9 N	No	No	No	No	No	No No	No	No	No	N N	Yes	No	No	No	No	9V	No	N _o	No	9 N	No	N N	No	No	No	9V	No	No	No	No	No	No	Yes	No	No	No	S.	8 1	Q :	S S	Yes	2	Yes	N _o	No	9 V	S.	No	<u>8</u>	§ :	0 S	0 S	2 2	2
je j		S NO				N N					T	S S			S No	s No	s Yes										s Yes	s Yes		S No						s No					No							No			S S													S 8		T	
Hirst_Impa Cra Other angl Yes	9	Other and Vec	Right angle Yes		50	Other and Yes				Other angl Yes		Venicie-pe res Other angl Yes			Other angl Yes	Other angl Yes	Vehicle-ob Yes		Rear end Yes	=+		ā					/ehicle-ob Yes	Rear end Yes		Other angl Yes	Vehicle-pe No	Other angl Yes	Vehicle-pe No			Vehicle-pe Yes	Rear end Yes	Other angl No	Other angl No	Other angl Yes	Right angle No	Other angl Yes		Vehicle-pe Yes		Other angl Yes	Right angle Yes		e-be	Other angl Yes			-	Rear end Yes	5	Other angl Yes	angl	angle		e-b		20		ther ang	Other angl Yes	ear end	
cA_Supp ing-park		curin	traffic R	П		on cwa				On path - Vehicle dool	diws apis a				Left off cway into obje	t-thru (obje o		_				r end R	Same - Lane side swip C	ange le	\ side \	Left off cway into obje Vehicle-ob	r end R				g parki	Ped - On footway/med	ay into obje	Manov - Emerging fro Right angle	√ side	r end R	oop a							le doo	ge ri				On path - Vehicle dool	e change ri			pu		,		ange le	nto ob			oop a		t-thru	1 Manov - Leaving parki O	" into ohie	- Linn nam kp
DCA Manov -	7 Right turn R	1 Same - Kear end	1 Adj - Cross traffic	1 Same - Rear end	O Same - other	O Manoy - other	2 Opp - Right-thru	400 Manov - other	604 On path - Vehicle doo	4 On path -	2 Dod - Careido			1 Same - Res	3 Left off cw	2 Opp - Right-thru			3 Same - Rear right	2 Opp - Right-thru	3 Ped - Far side	1 Ped - Near side	1 Same - Rear end	5 Same - Lar	7 Same - Lar	1 Ped - Near side	3 Left off cw	1 Same - Rear end	1 Same - Rea	O Same - other	7 Ped - driveway	1 Manov - Le	8 Ped - On fc	3 Left off cw	6 Manov - Er	1 Ped - Near side	1 Same - Rear end	4 On path - 1	2 Opp - Right-thru	2 Opp - Right-thru	104 Adj - Right-thru from I	2 Opp - Right-thru	3 Same - Rear right	1 Ped - Near side	4 On path - \	6 Same - Lar		3 Ped - Far side	1 Ped - Near side	4 On path - 1	6 Same - Lar	3 Off right be	2 Opp - Right-thru	1 Same - Rear end	1 Opp - Head on	2 Opp - Right-thr	7 Opp - U-turn		704 Right off cway	Ped - Ne	Manov -	4 On path - 1	1 Same - Rear end	2 Opp - Right-thru	401 Manov - Le	1 Same - nec	
S,		5 fr 301				70 400	Ļ			1 604		s fr 202		Ļ	10 t					s fr 202	ian				s fr 307		703 וסור	s fr 301	L	s fr 300	Ĺ	/U 401	L	703		ian	- tr	1 604		_		s fr 202		ian 1			s fr 101	ian	an		s fr 306		s fr 202	_	. ع	s fr 202		.=	5		5	1 604	sfr 30				
DescRUM_Gro	느	Kear end Vehicles fr	Cross traffi Vehicles fr	end Vehicles fr	sam Vehicles fr	ad-ot Off path of			e do On path	e do On path	sides venicle	ir sig Pedestrian throuVehicles fr			left :Off path or	throuVehicles fr				throu Vehicles fr	Ped far sid Pedestriar	· 🚎	and Vehicles fr	Lane sides Vehicles fr		earsi Pedestriar	left :Off path o	and Vehicles fr	and Vehicles fr	sam Vehicles fr	way Pedestrian		n foo Pedestria	left :Off path or		earsi Pedestria	and Vehicles fr	Vehicle do On path	throu Vehicles fr	throuVehicles fo	near Vehicles fr	throu Vehicles fr		earsi Pedestriar	Vehicle do On path			ir sid Pedestrian	earsi Pedestrian		chang Vehicles fr		=						rght Off path o			e do On path		throu Vehicles	2 Leaving pa Parking/U	Inft Off nat	ier ich
Speed_lim School RUM_CORUM_Desc 50 No 44 Parking ve		30 Kear end			39 Other sam	49 Other man				53 Vehicle do	33 Lane sides	21 Right throu	0 Ped nearsi	30 Rear end	71 Off rd left	21 Right throu	71 Off rd left		32 Right rear	21 Right throu	2 Ped fa	0 Ped n	30 Rear end	33 Lane s	35 Lane o	0 Ped nearsi	71 Off rd left	30 Rear end	30 Rear end	39 Other sam		42 Leavin	6 Ped on foo	71 Off rd left	47 Emerg	0 Ped nearsi			21 Right throu	21 Right thro		21 Right throu		0 Ped nearsi				2 Ped far sid			34 Lane chang	81 Off lef	21 Right throu	Rear	20 Head		Ę	35 Lane o	73 Off rd rght			63 Vehicle do	30 Rear end	21 Right thro	42 Leavin	71 Off rd	1
50 No	50 No	SO NO	50 Yes	50 No	50 No	50 No	50 No	50 No	50 No	50 No	SO TES	50 No	50 No	90 No	50 No	90 No	ON 09	90 No	50 Yes	50 Yes	40 Yes	50 No	0N 09	SO No	50 No	50 No	0N 09	60 Yes	60 Yes	50 No	50 No	50 No	50 Yes	50 No	ON 09	90 No	50 Yes	60 Yes	50 Yes	50 Yes	50 No	50 No	50 No	40 Yes	50 No	ON 09	ON 09	50 No	50 No	50 No	SO No	20 No	SO No	50 Yes	0N 09	0N 09	50 No	50 No	50 No	SO No	50 No	50 No	ON 09	50 No			
1596													L																	-													01												7			0									
969		042 1411008042	376 132567329		075 1441055075	1129243 1711129243	1730 1721134730			1139914 1721139914	703 1721140445	803 172114280	491 172114549	532 1711128	1135970 1721135970	3303 1711136303	3681 172113868:		232 1721150232		_	_			_	5287 133603802	1000954 1341000954	1057018 1511057018	1063563 1511063563	1398 1511064398	274 1521066	1066432 1521066432	7806 1441057806	941 1441060	843768 132583959	13258406		825 133596019	1503 1441054503	1627 1441054627	7293 134606014	1070044 1511070044	932 152107093	303 1521072			1531074940				124528868					557 141100955						480 1641122480		127 1421032127	8663 1431038663	EE7 143103G	100
CRAID 1001596	831948	1008047	836276	836670	1055075	1129	1134730	1134	1139255	1139914	1140	1142803	1145491	1128	1135	1136303	1138681	1141	1150232	1144	814415	823002	837033	839837	845	855287	1000	1057	1063	1064398	1066	1066	1057806	1060	843	843801	841150	851825	1054	1054627	857293	1070	1070932	1072	1073	1073951	1074940	1076150	1079	1084779	814644	1096234	1098818	1094435	100939	1009557	1015345	1020460	1109422	1121147	1122	1122480	1022430	1032127	1038663	1039657	1



Appendix G

Proposed LATM Concept Designs



Newtown Local Area Traffic Management Study 2018

Draft Proposed Treatments

November 2018

© COPYRIGHT

Land and Property Information NSW Inner West Council

Plan Produced by Information Systems of Inner West Council. This Map Remains the Property of Inner West Council. Reproduction of any part of this map without approval is prohibited.

All Rights Reserved.

DISCLAIMER

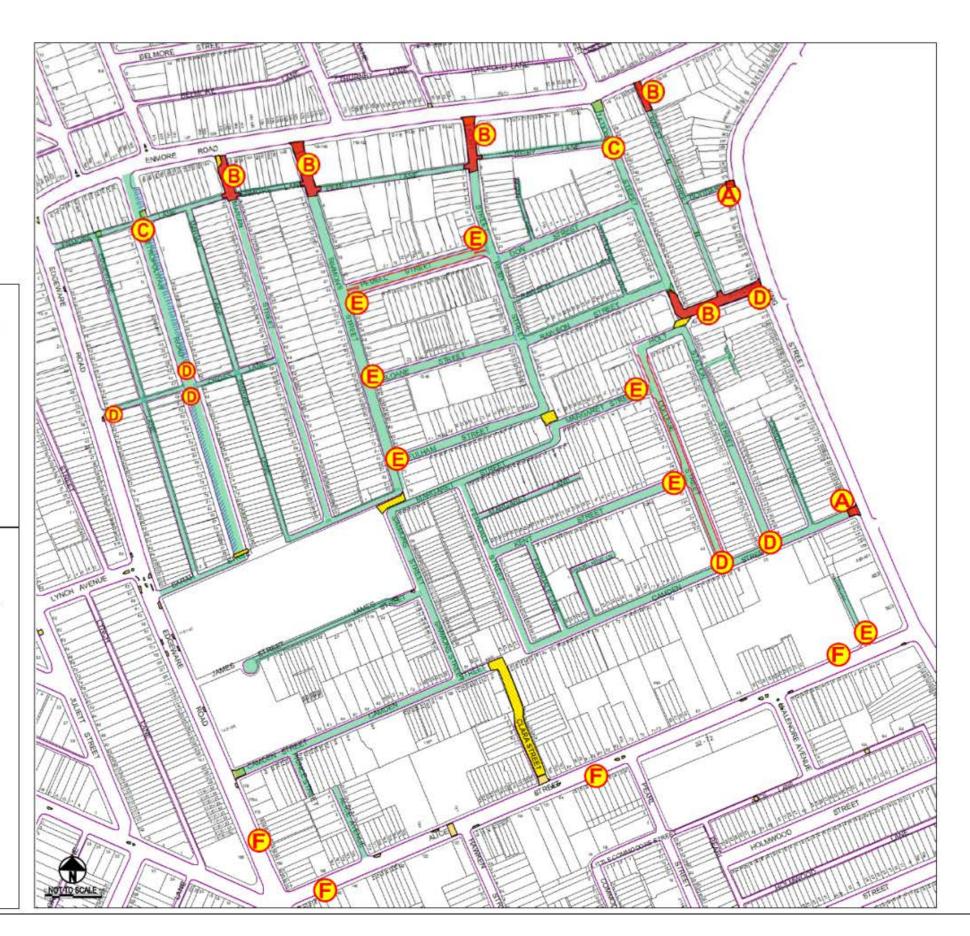
This map has been compiled from various sources and the publisher and/or contributors accept no responsibility for any injury, loss or damage arising from its use or errors or omissions therein.

Legend:

Continuous footpath treatment

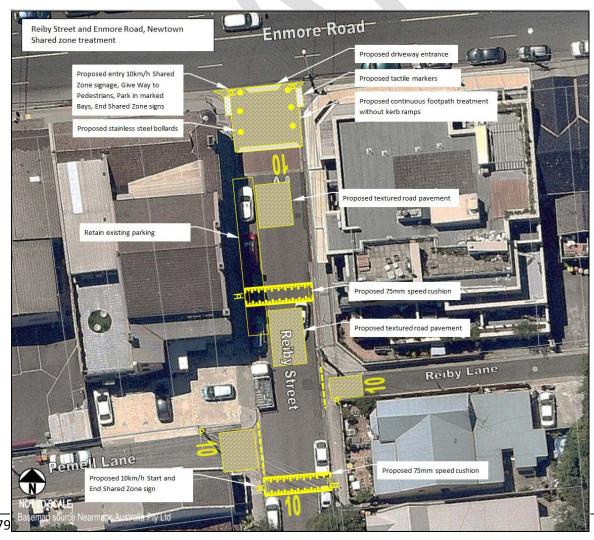
(B) 10km/h Shared zone

- Local road entry treatment (surface treatment, signage and kerb blister)
- D Kerb blister island/kerb extensions
- E Give Way lines and signs
- F Linemarking changes
- Proposed linemarking
- Existing Traffic Facility
- Streets nominated for 40km/h local traffic area

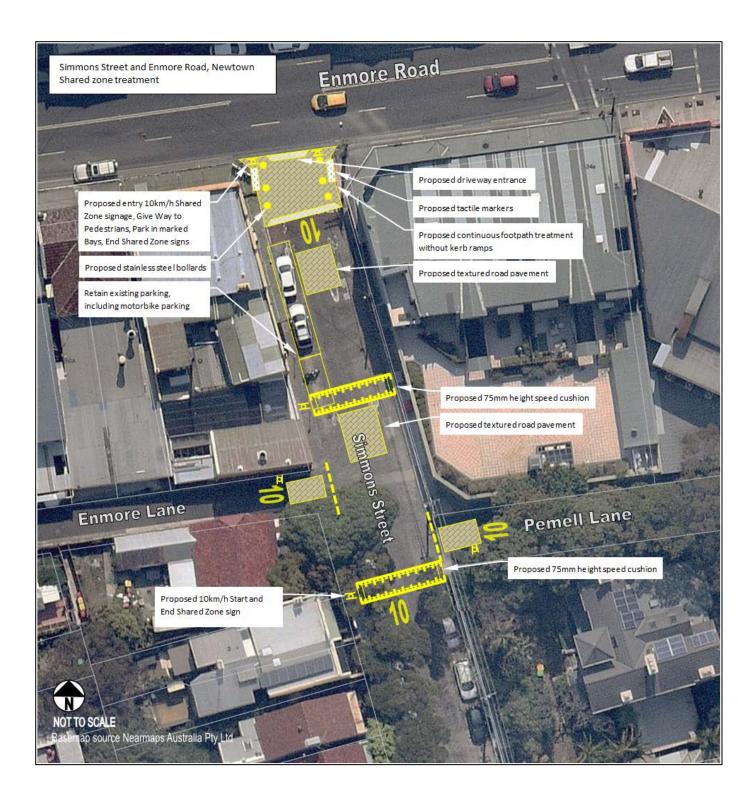


















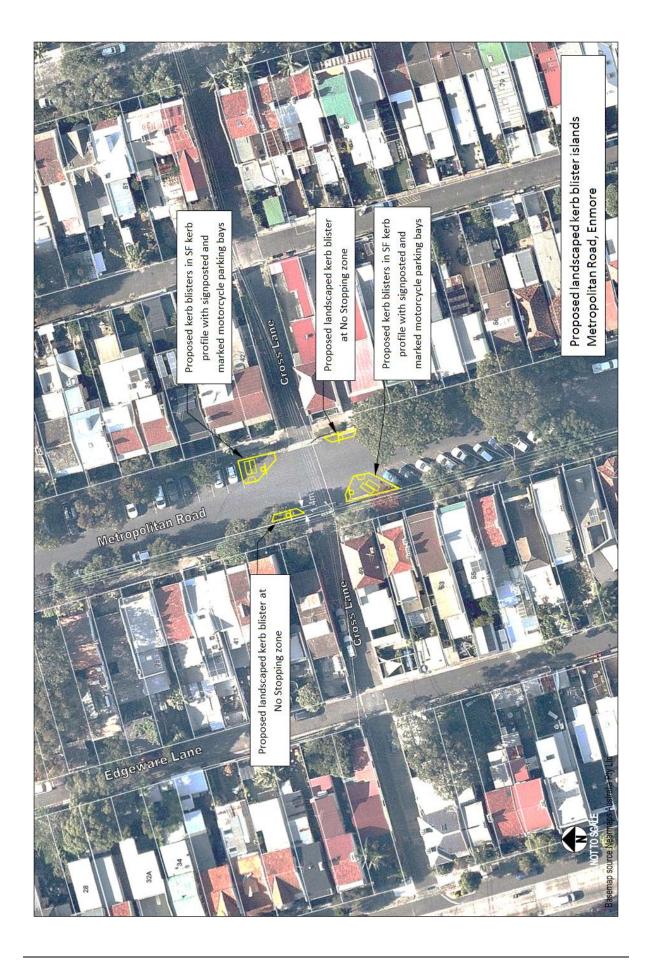








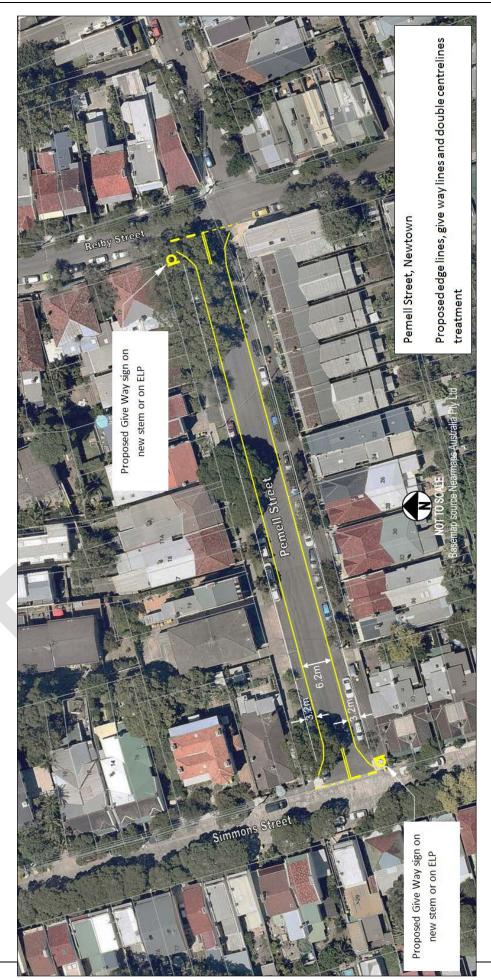






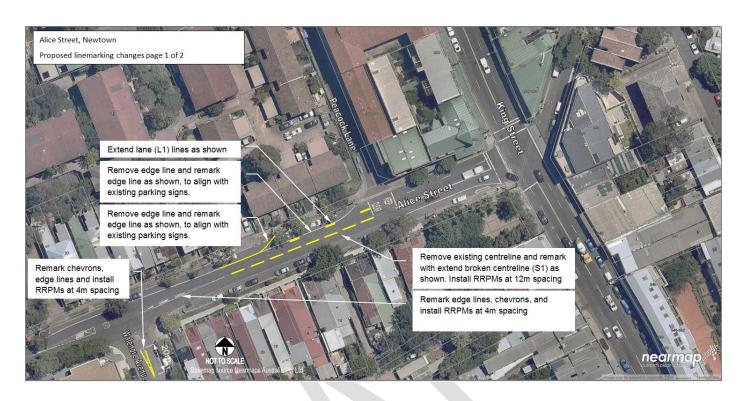






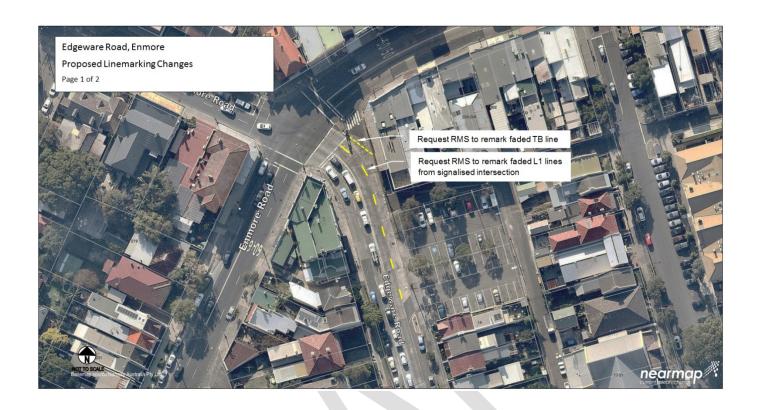
















Appendix H

Public Exhibition Feedback Summary – (to be completed)





Appendix I

Impact of WestConnex Project on Edgeware Road

Inner West Council in 2017 engaged BECA to develop a Local Area Improvement Strategy (LAIS) in order to minimise impacts to the local community in the Inner West affected by stages 1, 2 & 3 of the WestConnex project. The community engagement undertaken at the study revealed that community concerns in Edgeware Road were most received for the St Peters precinct area. The LAIS is intended to guide the design and ultimately implementation of a series of traffic calming schemes to protect streets from WestConnex-related traffic.

According to the strategic traffic modelling undertaken by BECA as part of the WestConnex Local Area Improvement Strategy, Edgeware Road will experience an increase in average weekday traffic (AWT) as well as Bedwin Road and Campbell Street. Under the 2021 scenario (stage 1 and 2 of WestConnex projects completed) there will be projected increase in Bedwin Road and Edgeware Roads by about 10% whilst a completed stage 3 WestConnex scenario will see the AWT reduce by 12% partially reversing the increases in traffic expected from the first two stages of the project. Table 13 and 14 detail the change in volume in both roads through 2021 stage 1 to 3 scenarios of the WestConnex project.

The report also considered the results of consultation undertaken with the community during the study as well as the traffic modelling results and recommends five (5) treatment locations in Edgeware Road between Enmore Road and Alice Street. Whilst the report does not detail specific treatment in each location, it identifies a need to reduce vehicle speeds and treating intersections.

Section	2021 B	ase Tra	ffic	2021 Stag	ge 1 and 2	Change	
Bedwin Road – Between Edinburgh Road and Unwins Bridge Road	Daily	NB 17910	SB 16800	NB 22480	SB 21530	NB 26%	SB 28%
Edgeware Road – Between Enmore Road and Lynch Avenue	Daily	NB 9830	SB 10410	NB 10640	SB 11600	NB 8%	SB 11%

Table 13: Edgeware Road and Bedwin Road Stage 1 and 2 expected traffic volume changes (AWT)

Section	2031 S	tage 1 aı	nd 2	2031 Stag	je 3	Change	
Bedwin Road – Between Edinburgh Road and Unwins Bridge Road	Daily	NB 24680	SB 23780	NB 21080	SB 20730	NB -15%	SB -13%
Edgeware Road – Between Enmore Road and Lynch Avenue	Daily	NB 11290	SB 12300	NB 10050	SB 10880	NB -11%	SB -12%

Table 14: Edgeware Road and Bedwin Road Stage 3 expected traffic volume changes (AWT)

These volumes in Edgeware Road are also similarly represented in the modelling undertaken by Roads and Maritime Services (RMS) for the WestConnex Stage 1 & 2 scenarios with King Street



Gateway works. The RMS modelling scenario 2021 WestConnex Stages 1 & 2 with King Street Gateway works show that Edgeware Road between Enmore Road and Lynch Avenue will carry 18,400 vehicles (AWT). Under an additional 2021 scenario with WestConnex Stages 1 & 2 and where the King Street Gateway works are not completed, Edgeware Road is estimated to carry 19,100 weekly daily vehicles, representing approximately 3.8% increase.

The treatments proposed under the Local Area Improvement Strategy are outlined in Figure 31 including an integrated traffic calming with pedestrian and cycling facilities, and some form of intersection modifications.

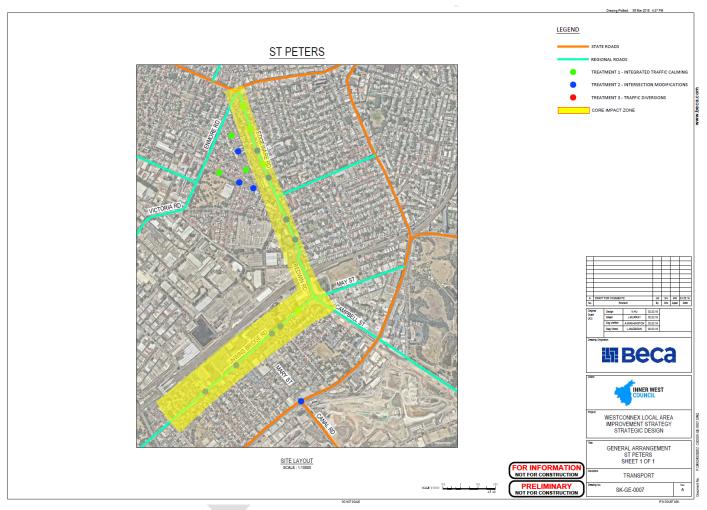


Figure 31: Local Area Improvement Strategy 2018 Concept Plan for Edgeware Road

The Edgeware Road treatments described in Figure 31 have not been added to the current LATM scheme as these treatment proposals will required further investigation and community engagement before final draft schemes can be considered.

The Edgeware Road treatments are included in the total cost of LAIS works, estimated to \$29 million and it is intended that Council seeks funding from RMS for these works, arguing that RMS funding is justified as WestConnex has created the need for the works.



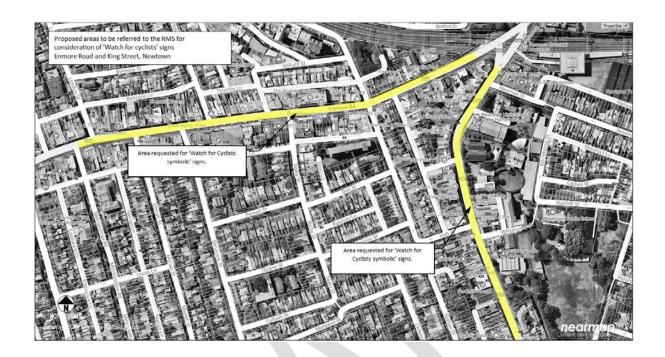
Appendix J

Matters to be referred to the RMS for consideration





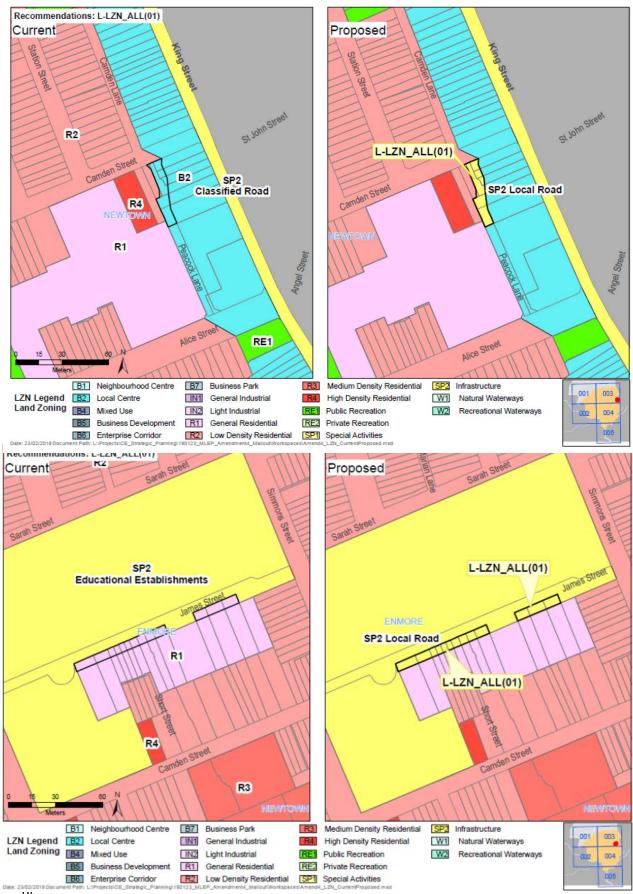






Appendix K

Marrickville Development Control Plan 2011 Amendment No.4





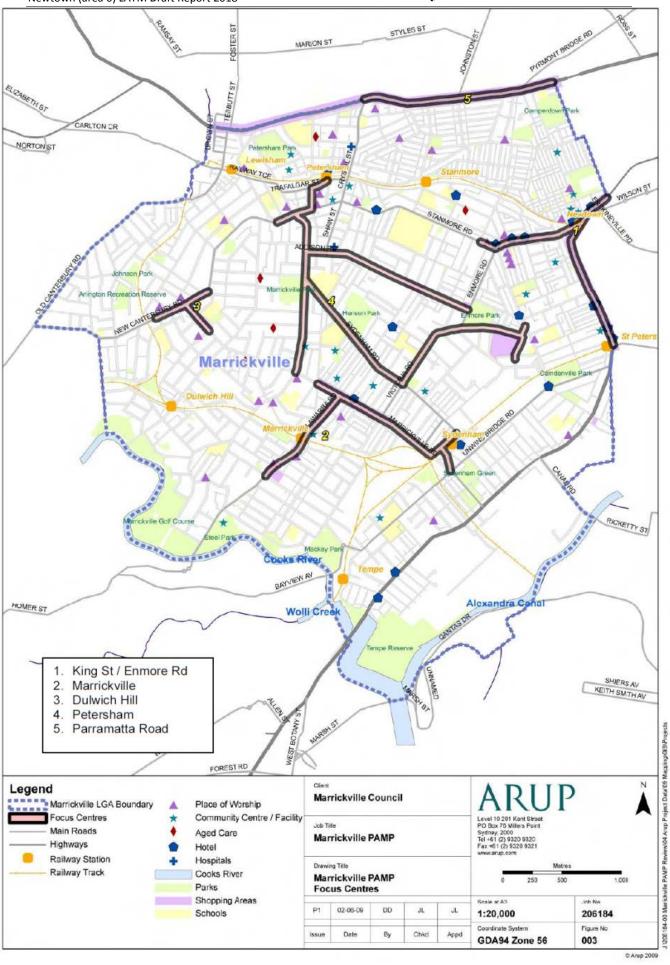
Appendix L

 $Locations\ of\ Missing\ Kerb\ Ramps\ \&\ Marrick ville\ PAMP\ focus\ areas$

(source ARUP PAMP Report for Marrickville Council 2009)









Appendix M

Holt Street Reduced No Stopping zone Risk Assessment

The RMS checklist attached in the 'TTD 2014/005: Statutory 10m No Stopping at unsignalised intersections review' was used in this risk analysis. The proposal is to reduce the existing 10m No Stopping zone on the south side of Holt Street west of King Street to 6m. This will provide an additional parking space.

Holt Street west of King Street is a local road of 8.5m width between kerbs. The road operates as a one way westbound and generally has unrestricted parking on both sides of the road, with a short section of motor bike parking on the north side. Parking restrictions for the first 10m west of King Street is currently No Stopping.

Both King Street and Holt Street have a speed limit of 50km/h.

Risk Assessment for Holt Street,	, Newtown		
Criteria	Yes	No	Comment
Detailed plan to scale, include key elements like: • Kerb and gutter • Linemarking • Existing property line • Footpath width • Existing Kerbside Parking			See swept path diagram and aerial below.
Crossing Sight Distance (CSD)		Not affected	CSD depends on crossing length, walking speed and 85th%ile speed. The proposal does not impact on those criteria.
Approach Sight Distance (ASD)		Not affected	
Safe Intersection sight Distance (SISD)		Not affected	
Minimum Gap Sight Distance (MGSD)		Not affected	
Turning paths		Not affected	Turning path assessment for an 8.8m truck has been provided below.
Public Transport		Not affected	Holt Street is not a bus route.
Emergency vehicle access		Not affected	Fire engines used in the Inner West LGA are 2.5m wide and 8m long. 8.8m medium rigid vehicle swept path diagram to be used to analyse.
Angle parking manoeuvres		Not affected	



Holt Street truck turning assessment



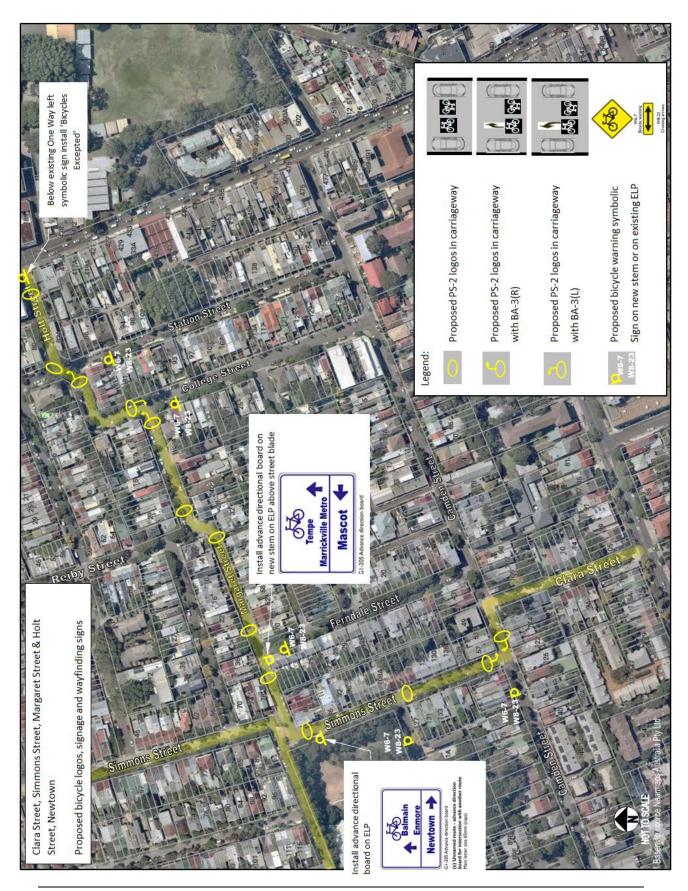
Holt Street existing parking arrangement





Appendix N

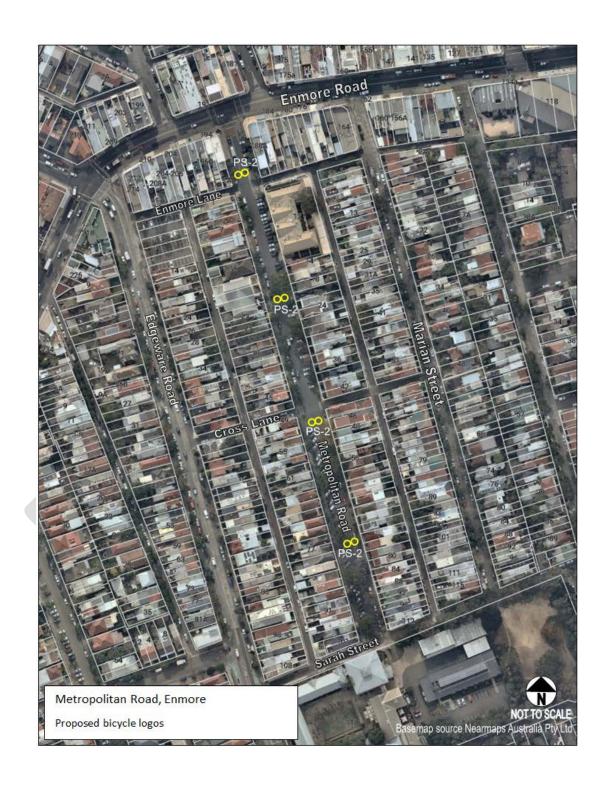
Proposed Bicycle Facilities







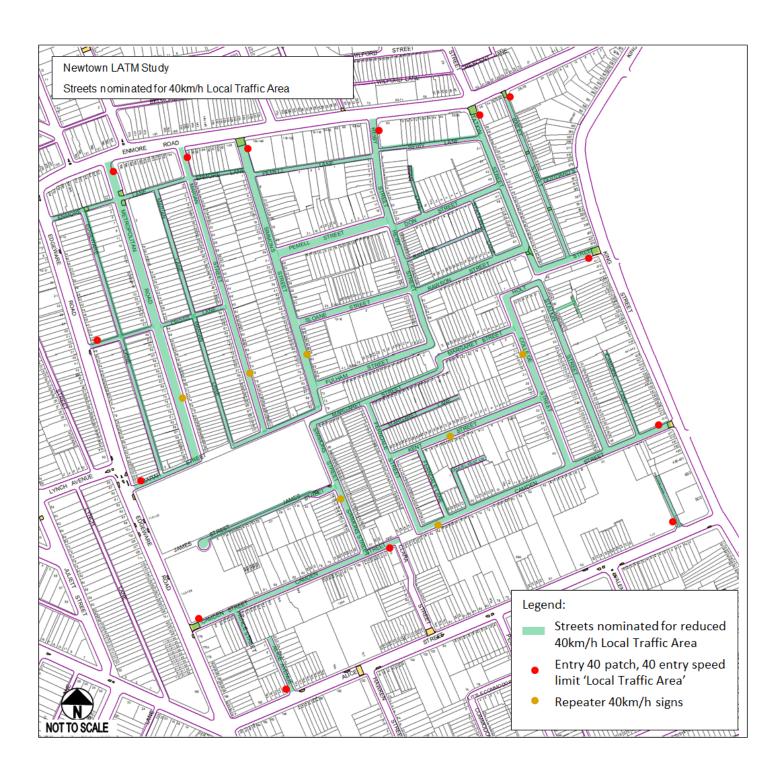






Appendix O

Streets nominated for 40km/h Local Traffic Area

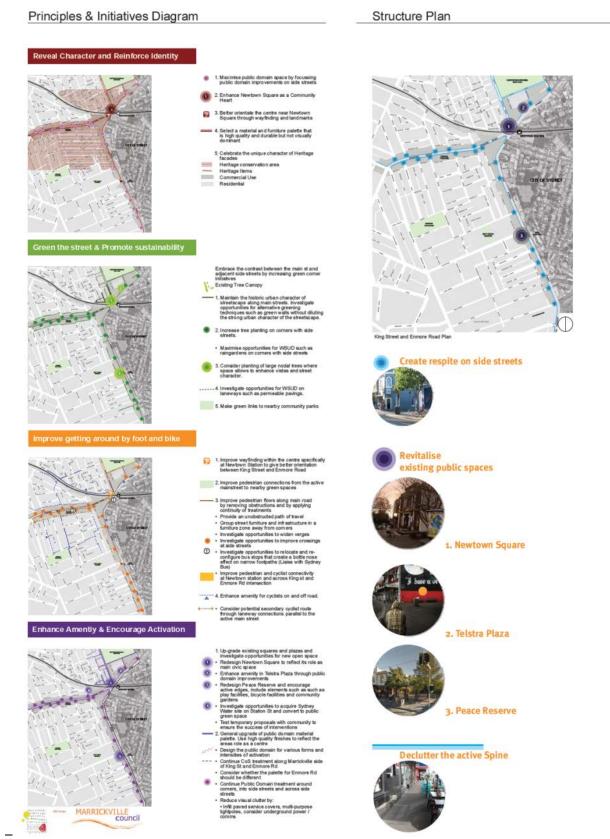




Appendix P

Marrickville Public Domain Masterplan King Street & Enmore Road

King Street and Enmore Road





Ideas / Proposals





Side street interventions













Revitalise existing public spaces

1. New Town Square





Sense of Place



Activation

3. Peace Reserve



Opportunities

Declutter and Upgrade paving & Street Furniture



Poor quality of paving & confusing paving patterns















Contemporary & functional range of furniture, duster facilities



Should the material palette of Enmore road be different to King Street?