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Table of Contents

1.	Exec	cutive Summary	1
2.	Intro	duction	2
	2.1	Background & Objectives	2
	2.2	Purpose of This Report	2
	2.3	Report Structure	3
	2.4	Referenced Documents	3
3.	Doc	ument Review	4
	3.1	Chippendale Phase 1 Improvement Plan & Issues Paper City of Sydne	∍y, 20064
	3.2	Carlton United Breweries (CUB) Site	6
	3.3 Octo	Traffic Study of Chippendale Area – Transport & Urban Planning Asso- ober 2000	ciates, 7
4 .	Existi	ing Conditions Assessment	8
	4.1	Study Area	8
	4.2	Carlton United Breweries Site	8
	4.3	Road Hierarchy	9
	4.4	Traffic Volumes & Speed Assessment	11
	4.5	Through Traffic Routes	16
	4.6	Accident Analysis	18
	4.7	Buses, Bicycles and Pedestrians	23
	4.8	Car Parking (On-Street)	29
	4.9	Initial Stakeholder Consultation	29
	4.10	Summary of Key Traffic and Transport Issues in Chippendale	29
5 .	Revi	ew of Existing LATM Measures	31
	5.1	Existing LATM Measures	31
	5.2	Review of existing LATM measures	32
6.	Chip	pendale 2007 LATM	37
	6.1	Introduction	37
	6.2	Chippendale LATM Objectives and Principles	37
	6.3	Chippendale LATM Concept Proposals	38
	6.4	Balfour Street Closure	41
	6.5	RTA Warrant Assessment	41
	6.6	Cyclists	45
	6.7	Pedestrians	48
	6.8	Urban Design/Landscaping	49
7 .	Com	munity Consultation	50
	7.1	Introduction	50
	7.2	Key Consultation Outcomes	50
	7.3	Additional LATM Concept Proposals	51
	7.4	Public Submissions	52



table of contents

8.	Cost	Estimates & Implementation Program	55
	8.1	Cost Estimates	55
	8.2	Implementation Program	56
9.	Con	clusions	58
App	endix	A	
		h Sydney Council – LATM Reference Note and Opportunities and Traffic agement Plans	
App	endix	В	
	Traffi	c Data (Intersection and Mid-Block Traffic Counts)	
App	endix	С	
	Figure	es 6.1-6.5 – LATM Concept Proposals	
App	endix	D	
	LATA Volu	M Warrant Assessment Site Locations & Associated Pedestrian and Traffic mes	
App	endix	E	
	RTA	Pedestrian Crossing & Traffic Signal Warrants Criteria	
App	endix	F	
	EDA'	W Urban Design Concept Plan	
App	endix	G	
	Over	all LATM Proposal Community Workshop Plan	
App	endix	Н	
	Cost	Rates & LATM Indicative Cost Estimates	



1. Executive Summary

In January 2007 GTA Consultants were commissioned by the City of Sydney to undertake an LATM study of Chippendale, the principle objective of which was to identify the existing traffic issues in Chippendale and develop a set of Local Area Traffic Management (LATM) measures to address these issues with an ultimate aim to further improve public amenity.

This was to be undertaken having regard to the previous traffic work already undertaken for this area and in the context of the recently adopted Chippendale Improvement Plan together with the imminent redevelopment of the Carlton United Breweries site and was achieved through a combination of traffic and pedestrian surveys, on-site observations, community and stakeholder consultation, and discussions with various City of Sydney Council staff.

The LATM proposals have been developed on the basis of the findings of the existing conditions assessment and outcomes of the community consultation which identified a need to:

- Reduce traffic speeds in Meagher Street, Buckland Street and Shepherd Street;
- Reduce traffic volumes in Meagher Street and Blackfriars Street; and
- Improve traffic safety in Wiley Street.

It is important to note that, on the whole, the existing traffic conditions in the Chippendale area are within acceptable levels but the LATM proposals recommended should improve this situation further.

It is envisaged that these proposals could be implemented reasonably over a 5 year period to account for the external approval processes required for the traffic signal works, the time taken to progress these works through to detailed design and tender documentation and the acquisition and allocation of funding.

The cost to implement the proposed LATM measures would be in the region of approximately \$330,000 - \$346,000 per annum for the next four years.

It is recommended that the LATM measures proposed within this report be adopted by Council in principle so that they can be progressed to the next stage in the design process.



2. Introduction

2.1 Background & Objectives

The Chippendale area has been the subject of numerous traffic management studies over the years with the majority of work undertaken when this area was part of the old South Sydney Local Government Area. As GTA Consultants understands it, in 1990 a Local Area Traffic Management (LATM) scheme was prepared for Chippendale which was supported by a further LATM study in 2000. Only a proportion of the new measures proposed were ever implemented.

In 2005/6 the City of Sydney commenced its Local Action Plan Program and developed an Improvement Plan¹ for Chippendale which included the development of a master plan for the entire area highlighting improvements to traffic management, pedestrian amenity and safety, cycle facilities and public domain/open space.

GTA Consultants was commissioned by the City of Sydney in January 2007 to undertake a Local Area Traffic Management (LATM) Study of the Chippendale area in support of the proposals within the Improvement Plan.

The principle objectives of this LATM study were to:

- Review and assess the existing traffic conditions of Chippendale;
- Assess the viability of the proposed projects from the Improvement Plan;
- If the proposed projects identified in the Improvement Plan were determined to be suitable and justified, progress these to a conceptual design stage; and
- Identify and propose new concept LATM proposals for improving traffic flow and public amenity throughout the Chippendale study area.

This report encompasses Stages 1 & 2 of the project which includes the development of Conceptual Schemes and Community Consultation. Stage 3 (Detailed Design) and Stage 4 (Partial Contract Administration) should be progressed following adoption by the City of Sydney of the recommendations within this report.

2.2 Purpose of This Report

This report sets out an assessment of the traffic conditions within the Chippendale Study Area and includes the following:

- i Assessment of the existing 2007 traffic volumes and speeds;
- ii Analysis of the accident statistics for the 5 year period to 2006;
- iii Assessment of the effectiveness of the already implemented LATM Schemes;

¹ Further detail of the process and content of the Chippendale Improvement Plan is discussed in Section 3 of this report.



- iv Assessment of the priority projects identified in the Improvement Plan;
- v Identification of further opportunities to reduce volumes of traffic on local streets to improve public amenity;
- vi Identification of pedestrian and cyclist improvements;
- vii Development of concept LATM proposals; and
- viii Development of a 4 year prioritised implementation plan.

2.3 Report Structure

This report is presented in the following sections:

- Executive Summary;
- 2 Introduction;
- 3 Document Review;
- 4 Existing Conditions Assessment (Including Initial Stakeholder Consultation);
- 5 Review of Existing LATM Measures;
- 6 Chippendale 2007 LATM;
- 7 Community Consultation;
- 8 Cost Estimates and Implementation Program; and
- 9 Conclusions.

2.4 Referenced Documents

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

- Austroads Guide to Traffic Engineering Practice Part 10 Local Area Traffic Management,
 2004;
- RTA Sharing the Main Street, A Practitioners' Guide, 2000;
- RTA Guidelines for Traffic Facilities, Parts 6 & 7.2, Local Area Traffic Management, 1986/7;
- RTA NSW Bicycle Guidelines 2003;
- RTA Road Design Guide 1991;
- RTA Guide to Traffic Generating Developments 2002;
- Austroads Guide to Traffic Engineering Practice, Part 14 Bicycles;
- Australian Standard/New Zealand Standard, Parking Facilities, Part 5: On-Street Parking AS/NZS 2890.5–1993;
- RTA-Technical Directions (Various);
- Traffic surveys undertaken by GTA Consultants as referenced in the context of this report;
- An inspection of the site and its surrounds; and
- Other documents as nominated.



3. Document Review

GTA Consultants have reviewed a number of documents provided by the City of Sydney to gain a better understanding of the study area and in particular to identify the issues that exist within this location. The reports which were of most relevance to this study have been summarised below.

3.1 Chippendale Phase 1 Improvement Plan & Issues Paper City of Sydney, 2006

The Chippendale Improvement Plan is one of the first initiatives developed from the City's Local Action Plans (LAPs) program that have begun to be rolled out across the entire Sydney LGA. The principle aim of the Improvement Plan is to develop a plan in partnership with the Chippendale Community to coordinate improvements to local area traffic management, public domain, open spaces and community facilities.

In April 2006 as part of this process Council committed to developing a master plan and urban design study (Improvement Plan) for the Chippendale area. The Improvement Plan has been developed with assistance from Landscape Architects and Traffic Consultants appointed by Council and at this stage has concentrated on the development of the master plan for Chippendale.

The key objectives of the Improvement Plan (Phase 1-Masterplan) are listed as follows:

- Develop a plan to guide short, medium and long term improvement projects;
- Improve traffic management, public domain, open space and community facilities for the local community by integrating all relevant City of Sydney programs;
- Ensure the projects complement the areas historic and desired future character;
- Improve safety and accessibility for pedestrians and cyclists;
- Improve access to and quality of open space;
- Develop traffic calming design solutions for local streets; and
- Make recommendations on future community facilities, open space and recreation needs.

The development of the Improvement Plan was undertaken by the collation of existing information of the Chippendale area, development of an issues paper determined from reviewing previous reports and on-site observations, the development of measures to address the issues identified and consultation with the local community.

GIA consultants

document review

Key Issues identified of relevance to this study were:

Vehicular Circulation and Local Area Traffic Management

- Through traffic on Meagher Street and Buckland Street;
- Speeding on Myrtle Street from Regent Street;
- Myrtle Street/Meagher Street intersection experiencing illegal traffic movements; and
- Confusing speed markings at Abercrombie Street/O Connor Street intersection.

Pedestrian Circulation and Safety

- Difficulty in crossing main roads, particularly Abercrombie Street;
- Insufficient and inconvenient pedestrian links between adjacent parks, universities, shops, bus stops and community facilities;
- Footpaths are too narrow;
- Speeding cars entering Chippendale from arterial road network;
- No pram ramps at Buckland Street closure and Beaumont Street; and
- Rose Street footpath trip hazards.

Cyclists

- No designated or marked cycle routes for recreational cyclists;
- Lack of cycle parking;
- Cyclist access from West Chippendale to the network identified in the Cycle Strategy and Action Plan 2007-2017;
- No continuity of cycle markings from Shepherd Street south of Cleveland Street through Chippendale; and
- No link between Chippendale and both Prince Alfred and Victoria Parks.

A total of approximately 25 potential projects were identified in the Improvement Plan to address the issues which, in consultation with the Chippendale Community, were prioritised by the City of Sydney.

Although the two crossing facilities linking Victoria Park and Prince Alfred Park ranked highly during the prioritisation process it was also identified that they were long term proposals requiring complex approval processes. Other priority proposals identified with a more achievable timeframe for implementation were as follows:

- Meagher Street Measures (Including Threshold Treatment at Meagher Street/Regent Street, Traffic Calming, Signalised Pedestrian Crossing at Meagher Street/Abercrombie Street; Street Tree Planting); and
- Buckland Street Measures (Including Threshold Treatment at Buckland Street/Broadway intersection, Wombat crossing on Buckland Street near Blackfriars Street, Pram Ramps at Peace Park, Widening of the footpaths between Paints Lane and Daniels Street, Cycleway).



3.2 Carlton United Breweries (CUB) Site

The CUB site is located in the north eastern corner of Chippendale and is bounded by Broadway, Abercrombie Street, Wellington Street and Kensington/Goold Street. It is the site of a disused brewery but the site still contains active administration and office facilities and is currently the subject of a major commercial/retail/residential development proposal.

The two reports undertaken by Consultants in relation to the Carlton United Breweries site dealing primarily with traffic and transport issues are summarised below.

3.2.1 Carlton United Breweries Site – Stage 1 Masterplan Transport Report – MWT, 2006

The purpose of this study was to assess the traffic and transport implications of the proposed redevelopment of this site which included a review of the existing traffic conditions and public transport operations in close proximity of the site, an estimation of the traffic generation and parking requirements of the development, preparation of a transport management plan and an assessment of the internal and external road network connections.

This study was commissioned by Carlton United Breweries Pty Ltd with the key conclusions as follows:

- The traffic generated by the proposed redevelopment would not have a significant impact on the operation of the surrounding streets;
- The proposed signal intersections at Abercrombie Street/Blackfriars Road/Irving Street2, Broadway/Balfour Street, and Kent Road/Regent Street on the Arterial Road Network would operate with a satisfactory level of service and also provide improved pedestrian and cycle access through the area; and
- The closure of Balfour Street and development of the park would still allow pedestrian/cyclist and emergency vehicle access.

It should also be noted that a Paramics Traffic Model was produced for this study which encompassed the entire Arterial road network surrounding the Chippendale area.

3.2.2 Carlton United Breweries Site Chippendale Traffic and Transport Study – PBAI & Halcrow, 2004

This traffic and transport study was commissioned by City of Sydney to support the development of planning controls for the Carlton and United Breweries (CUB) site. The report resulted from concerns from Council that the existing development controls did not adequately address or regulate the impacts that re-development might have on the surrounding area. Council also identified this site as an opportunity to further its commitment to more sustainable development in the CBD through the development of a draft Local Environment Plan (LEP) that promotes sustainability and liveability.

² It should be noted that this location is different from the location proposed in the Improvement Plan which recommends a signal crossing at O'Connor Street/Abercrombie Street.



document review

This study provided City of Sydney with the following supporting information:

- Modal Split Targets for future car, public transport, walking and cycling;
- Car Parking rates in support of the modal split targets;
- Guidelines for integrating the development with existing and proposed public transport services and potential pedestrian and cycle links;
- Guidelines for integrating the development with the existing road network (both local and arterial); and
- An indicative Travel Plan which promotes the use of sustainable transport for employees, visitors and residents.

Some of the key findings of relevance to the Chippendale LATM study are as follows:

- On street parking demand is high within the Chippendale area primarily as a result of the terraced housing which does not have off-street parking combined with the use of this area by those requiring access to commercial offices, universities, parks and other locations within the CBD;
- Most on-street parking is time restricted with approximately 40% designated as resident parking schemes;
- Poor levels of service exist for vehicles exiting the Chippendale Area onto the Arterial Road Network including in particular Meagher Street/Abercrombie Street/Myrtle Street and Regent Street/Meagher Street; and
- Need to provide north/south and east/west cycle and pedestrian access through the site via Balfour Street and O'Connor Street.

3.3 Traffic Study of Chippendale Area – Transport & Urban Planning Associates, October 2000

This traffic study was commissioned by the former South Sydney Council in 2000. The key objectives of the study, in consultation with the Community, were:

- To examine the traffic patterns within the Chippendale Study area;
- To identify opportunities to reduce traffic volumes on local streets within Chippendale as well as the constraints; and
- To examine the pedestrian links within, to and from the study area including links across Abercrombie Street and City Road.

The study resulted in the development of an opportunities plan (Refer Appendix A) for Chippendale which was only partly implemented.



4. Existing Conditions Assessment

4.1 Study Area

Chippendale is bounded by four major arterial roads namely Broadway to the north, Regent Street to the east, Cleveland Street to the south and City Road to the west. The study area is divided in two by another arterial road, Abercrombie Street. Chippendale is located to the south of the CBD directly to the west of Central Railway Station. Major land uses surrounding the area include the University of Sydney and Victoria Park to the west, Prince Albert Park to the east, the University of Technology Sydney (UTS) City Campus and TAFE NSW to the north and Redfern station to the south. Broadway shopping centre is also a predominant land use which is located on Broadway to the north of the study area.

Study Area and its Environs (Source: Sydway Publishing Pty Ltd)

Study Area

Study Area

Control

Cont

The location of the study area and the surrounding environs is shown in Figure 4.1

4.2 Carlton United Breweries Site

The CUB site is located in the north eastern corner of Chippendale and is bounded by Broadway, Abercrombie Street, Wellington Street and Kensington/Goold Street. It is the site of a disused brewery but the site still contains active administration and office facilities and is currently the subject of a major commercial/retail/residential development proposal.



4.3 Road Hierarchy

The RTA Road Design Guide states the purpose of a functional road hierarchy is to establish a logical integrated network in which roads of similar functional classifications are:

- Provided with the same general level of traffic service with regards to trip purpose, traffic composition, capacity and operational speed;
- Designed, constructed and maintained to the same general level of structure with regard to alignment, cross section, pavement strength and access control; and
- Assigned to the appropriate administrative control.

4.3.1 Functional Classification

This classification includes arterial, sub-arterial, collector and local roads. Together the roads make up a road network. The functional road classifications in NSW are:

- State Roads which are fully funded by the RTA;
- Arterial predominantly carry through traffic from one region to another forming principal avenues of communication for urban traffic movements;
- Sub-Arterial connects the arterial road to areas of development and carries traffic directly
 from one part of the region to another. They may also relieve traffic on arterial roads in
 some circumstances;
- Collector connects the sub-arterial roads to the local road system in developed areas; and
- Local the sub-divisional roads within a particular developed area. These are used solely as local access roads.

The road hierarchy within the study area is illustrated in Figure 4.2.

4.3.2 Implications for the Study

The traditional hierarchical structure is not observed in Chippendale. The road network consists primarily of local roads which link directly with major state/arterial roads with no collector or subarterial roads in between. This leads to through traffic in the local streets as vehicles in the heavily congested arterial roads attempt to find alternative routes that will reduce their travel time during the AM and PM peak periods. In Chippendale, local area traffic management measures have been implemented which have reduced the extent and impact of through traffic to a large degree.

The state/arterial roads within the study area are:

- Cleveland Street;
- Abercrombie Street;
- Regent Street;
- Lees Street;
- Broadway; and
- City Road.





4.4 Traffic Volumes & Speed Assessment

4.4.1 Traffic Surveys

GTA Consultants undertook turning movement counts at key intersections within the study area on Thursday, 8th February 2007 and Saturday, 10th February 2007 during the AM peak (7am–9am), PM peak (4pm-6pm) and week-end peak (12pm-2pm) periods. Additionally 7day (14th to 21st February 2007) 24-hour tube counts were undertaken on key roads within the study area to obtain mid-block volume and speed data. Details of the survey locations are provided in Figure 4.3 with more detailed traffic count data provided in Appendix B.

4.4.2 Environmental Capacity and Speed Performance Standards

The RTA Guide to Traffic Generating Developments specifies the environmental limits for each road class which are detailed in Table 4.1.

A further criteria specified by the RTA is that traffic volumes on local roads should not exceed a maximum of 2000 vehicles per day³.

These two sets of criteria have been used as the basis for identifying traffic issues within the streets of Chippendale.

Table 4.1: Environmental Capacity and Speed Performance Standards

Road class Road Type		Max Speed (km/hr)	Max Peak Hour Volume (veh/hr)	
Local	Street	40	200 (desirable) and 300 (absolute) ⁴	
Collector Street		50	300 (desirable) and 500 (absolute)	

(Source: RTA Guide to traffic Generating Developments, 2002)

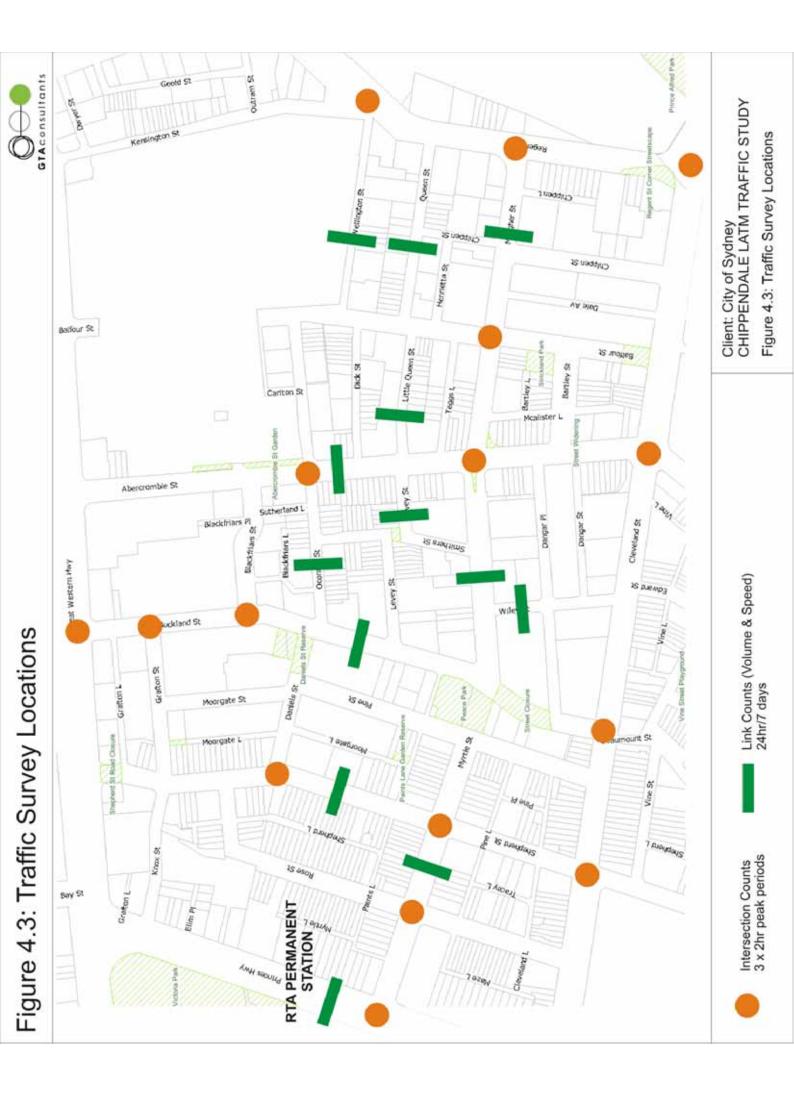
4.4.3 Traffic and Speed Assessment

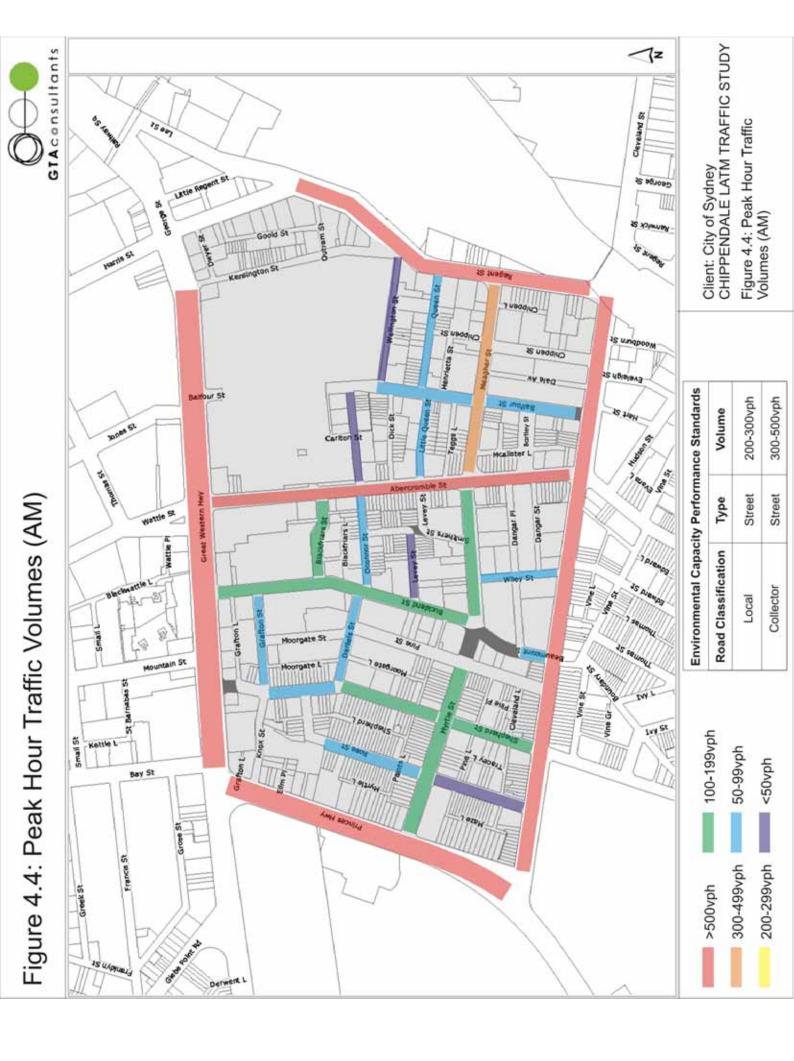
GTA Consultants analysed the traffic survey data to determine the existing volume and speed conditions in Chippendale.

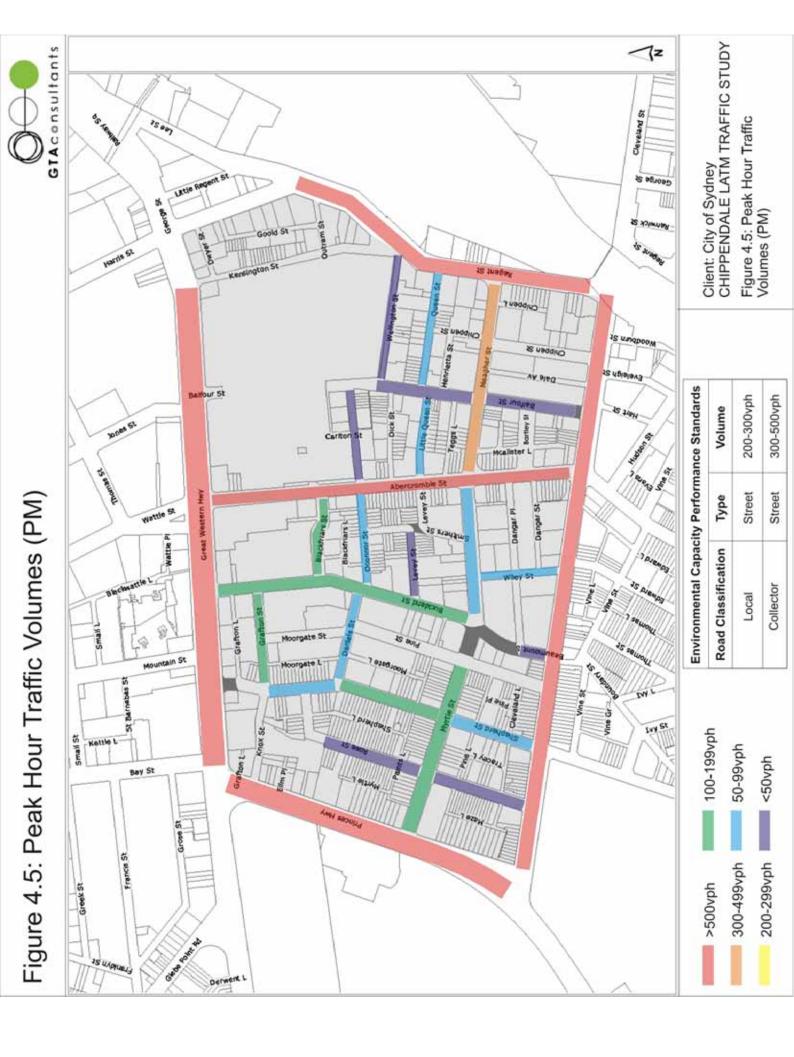
This assessment indicated that, with the exception of those streets listed in Table 4.2, most of the local roads of Chippendale were within an acceptable range in relation to their speed and peak hour traffic volumes. A summary of the AM and PM peak hour volumes and 85th percentile speeds for Chippendale are provided in Figures 4.4, 4.5 and 4.6 respectively.

³ Reference: RTA Road Design Guide 1991 – Table 1.2.6

⁴ This figure can be used to calculate annual average traffic volumes by assuming a peak to daily ratio of 10%.







GIAconsultants Client: City of Sydney CHIPPENDALE LATM TRAFFIC STUDY Figure 4.6: Speed Data (85th percentile) Both traffic directions 15007 Figure 4.6: Speed Data (85th percentile) - both traffic directions **Environmental Capacity Performance Standards** 40km/h 50km/h Street Street Great Western Hwy Road Classification Collector Local Bay St 40-49km/h 30-39km/h 50-59km/h <30km/h >60km/h



Table 4.2: Chippendale Streets (Approaching or exceeding standards)

Street Name	Functional Classification	Environmental Performance Standards			Survey Result		Compliance	
		Peak Traffic Volume (veh/hr)	85th % Speed (km/hr)	Peak Period	Peak Traffic Volume (veh/hr)	85 th % Speed (km/hr)	Volume (veh/hr)	Speed (km/hr)
Buckland	Buckland Local Street 200/300 40 (Ma:	(o (Max)	AM	128	- 48	Yes	No	
Street		(Desirable/Max)	40 (IVIAX)	РМ	153	40	Yes	140
Meagher	Meagher Street Local Street (Desirable/Max) 40 (Max)	(0 (May)	АМ	321		No	N-	
Street		(Desirable/Max)	40 (IVIAX)	PM	387	42	No	- No
Shepher d Street	Local Street	200/300 (Desirable/Max)	40 (Max)	AM	166	47	Yes	- No
				PM	167		Yes	

^{*}Peak Hour Traffic Flows were derived from Turning Movement Counts or 24 hour Tube counts

The streets listed in Table 4.2 have higher traffic volumes and speeds when compared against the other streets within Chippendale which could be as a consequence of traffic using these streets during the peak periods as alternatives to the surrounding and often congested Arterial Road Network.

4.5 Through Traffic Routes

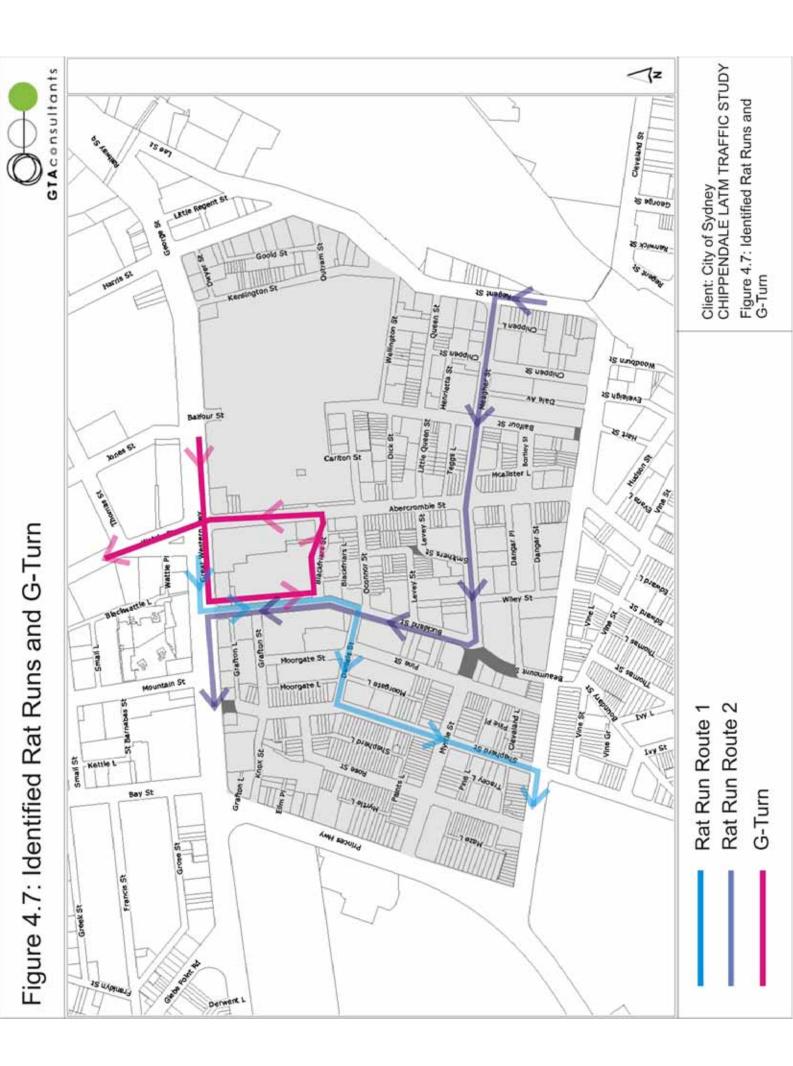
Although there has been a variety of a traffic management measure implemented in Chippendale over the years, through traffic still appears to occur on some specific streets.

Analysis to determine possible through traffic routes was undertaken by GTA Consultants based primarily on an assessment of the existing traffic flows and access restrictions (i.e. turn bans, road closures), to identify through routes in Chippendale that could potentially bypass the arterial road network. The speed and volumes of traffic on these through routes were then compared against environmental limits to identify the through traffic routes. The results of the assessment indicated that through traffic could be occurring on the following streets:

- Meagher Street;
- Buckland Street; and
- Shepherd Street.

It was also identified during the community consultation that in view of there being limited opportunities to turn right from Broadway, that some traffic was using Buckland Street, Blackfriars Street and Abercrombie Street, performing a G-turn, in order to head north on Wattle Street. This also results in further traffic conflict and a reduction in public amenity.

The possible through traffic and the G-turn routes are detailed in Figure 4.7.





4.5.1 Implications for the Study

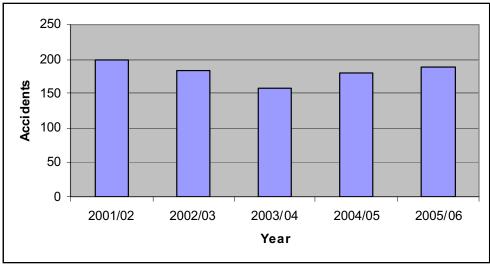
 The main implication of the higher traffic speed and volumes on certain streets in Chippendale is reduced standard of public amenity on these streets in terms of pedestrian safety and local access.

4.6 Accident Analysis

GTA Consultants analysed the 5 year accident data for the financial years 2001/02 to 2005/06 within the study area as provided by the City of Sydney.

A summary of the total accidents by year are provided in Graph 4.1.





The locations of these accidents are shown in Figures 4.8a and 4.8b.

It has been noted that the majority of traffic accidents occurred on the main arterial road network surrounding Chippendale. On the local roads within the Chippendale study area, a total of some 44 accidents were recorded. These accidents were analysed in further detail with the results as set out in Table 4.3.



4.6.1 Accident Analysis within Chippendale Study Area

A summary of the accidents and their locations within the study area is included in Table 4.3.

Table 4.3: Accident Summary – Study Area

Balfour St (excl. intersection with						
Grafton St				1 (vehicle-fixed object)		
Myrtle St	1					
Pine St		1				
Wiley St	1			1 (vehicle-fixed object)		
Blackfriars St	2			1 (vehicle- motorcyclist)		
Buckland St		1		1 (vehicle- motorcyclist)		
Shepherd St	2	1				
Meagher St/Chippen Ln				1 (vehicle-fixed object)		
Abercrombie St (excl. intersection with Meagher St)	10	2		2 (vehicle- motorcyclist)		
				1 (cyclist-cyclist)		
Abercrombie St/ Meagher St/ Myrtle St	10	1	2	1 (vehicle- motorcyclist)		
Location	Vehicle-Vehicle	Vehicle- Pedestrian	Vehicle-Cyclist	Other		
	No. of Accidents					

More detailed analysis was undertaken to determine if there were any locations within the study area where accidents of a similar nature had occurred a number of times at the same location. In particular, the results for accidents recorded at the intersection of Abercrombie Street/Meagher Street/Myrtle Street and along Blackfriars Street and Abercrombie Street were analysed.

Abercrombie Street/Meagher Street/Myrtle Street Intersection

At the intersection of Abercrombie Street and Meagher Street, 10 of the 14 recorded accidents involved a vehicle travelling from the west along Meagher Street colliding with a northbound vehicle, pedestrian or cyclist. This indicates that the left turn movement from west to north at this location is problematic, as it was the vehicle undertaking this movement which was at fault in each circumstance.





Blackfriars Street

There were three recorded accidents along Blackfriars Street, with two vehicle/vehicle accidents and one vehicle/motorcycle accident. Two of these were head-on collisions which occurred during the early evening, with the other a nose to tail collision.

Abercrombie Street

Abercrombie Street was analysed further to determine the locations and details of any pedestrian related accidents between Cleveland Street and Broadway. There were three pedestrian related accidents recorded between 2001 and 2006. Each of these accidents resulted in injuries to the pedestrian and were located at the intersections of Abercrombie Street/Meagher Street/Myrtle Street, Abercrombie Street/Blackfriars Street and Abercrombie Street/Dick Street. The accident data does not indicate that any particular section along Abercrombie Street is more dangerous for pedestrians than others.

4.6.2 Implications for the Study

Most of the accidents between 2001 and 2006 occurred on the arterial road network surrounding the Chippendale Study area which is attributed to the sheer volume of traffic using these roads. However the accidents which did occur within the study area highlighted some key issues to be addressed within the study as follows:

- Accidents occurring at the intersection of Meagher Street/Abercrombie Street imply that
 the treatment at this intersection should make the east/west banned movement self
 enforcing and that cyclists should be catered for within the design; and
- Pedestrian accidents along Abercrombie Street, although minimal, could possibly be further reduced if a pedestrian crossing or crossings were provided along Abercrombie Street.

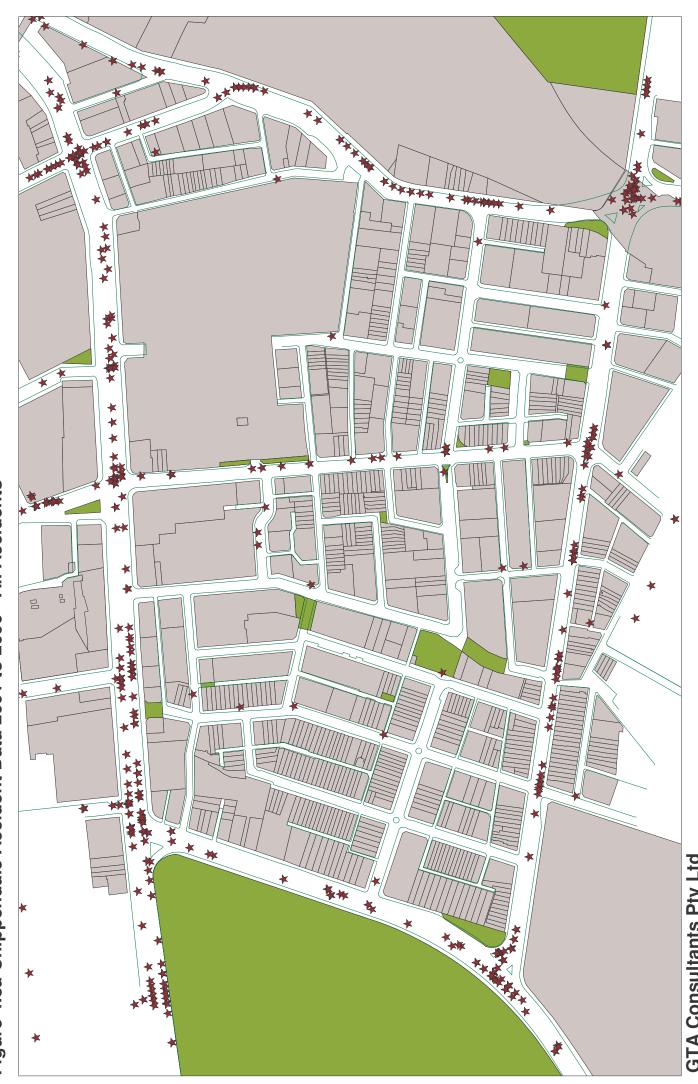


Figure 4.8a Chippendale Accident Data 2001 to 2006 - All Accidents

GTA Consultants Pty Ltd



Figure 4.8b Chippendale Accident Data 2001 to 2006 - Accidents within Study Area

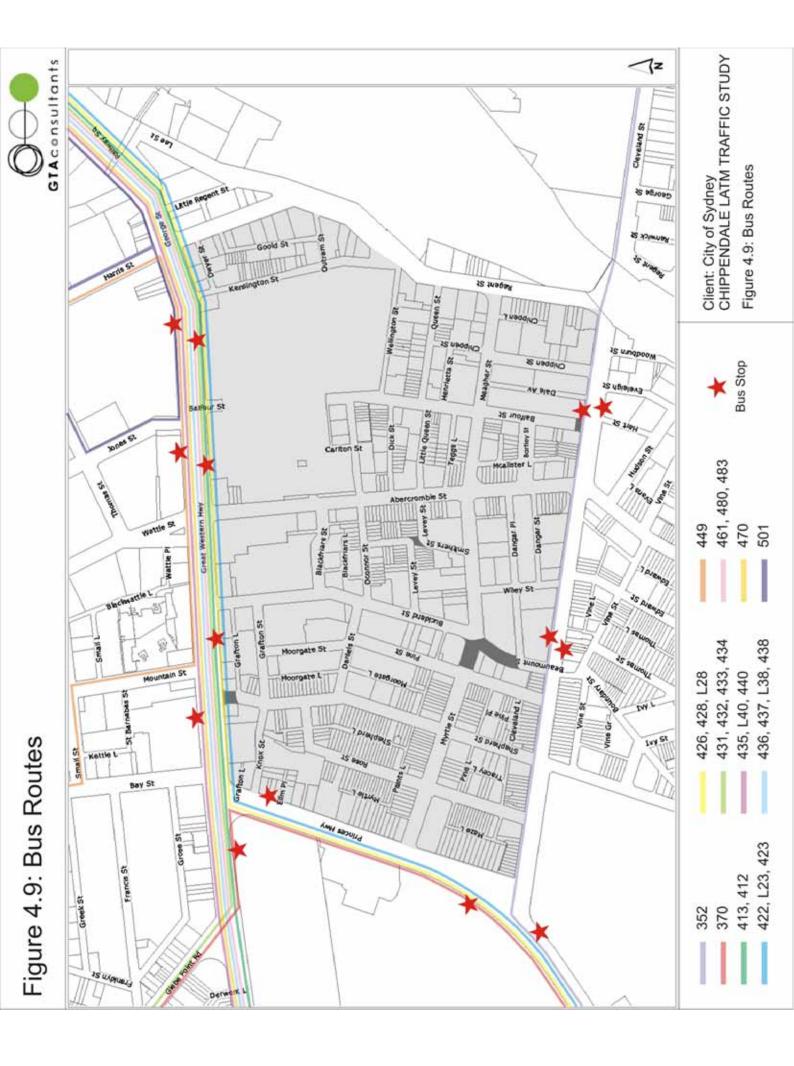
4.7 Buses, Bicycles and Pedestrians

4.7.1 Buses

A number of bus routes operate on the perimeter of the Chippendale study area, along the arterial roads of Broadway, City Road and Cleveland Street with a series of bus stops supporting these routes. These are shown in Figure 4.9.

4.7.2 Implications for the Study

Bus services do not travel through Chippendale and as such would not be affected by any
on-street LATM proposals. However consideration should be given to pedestrian access to
the bus stops on Broadway, City Road and Cleveland Street.





4.7.3 Bicycles

There is currently a lack of designated bicycle facilities that either runs through or adjacent to the Chippendale area. The City of Sydney Cycle Strategy Route No. 19 runs through East Chippendale, using Balfour Street (through the CUB site) and Wellington Street. The link from Regent Street to Prince Alfred Park across the railway corridor is proposed for the long term, with cyclists currently required to use Cleveland Street to access the park. West Chippendale is also not directly linked to the City of Sydney Cycle Strategy network.

The *Chippendale Local Action Plan Issues Report (Clouston Associates, 2006)* indicates that some of the existing issues relating to cycling in Chippendale include limited amenity for recreational users with no designated cycle routes, lack of bicycle parking and no links to the greater City of Sydney Cycle Network.

The Chippendale Improvement Plan recommended primary and secondary cycle routes within Chippendale which linked to the City of Sydney cycle network. These routes are shown in Figure 4.10.

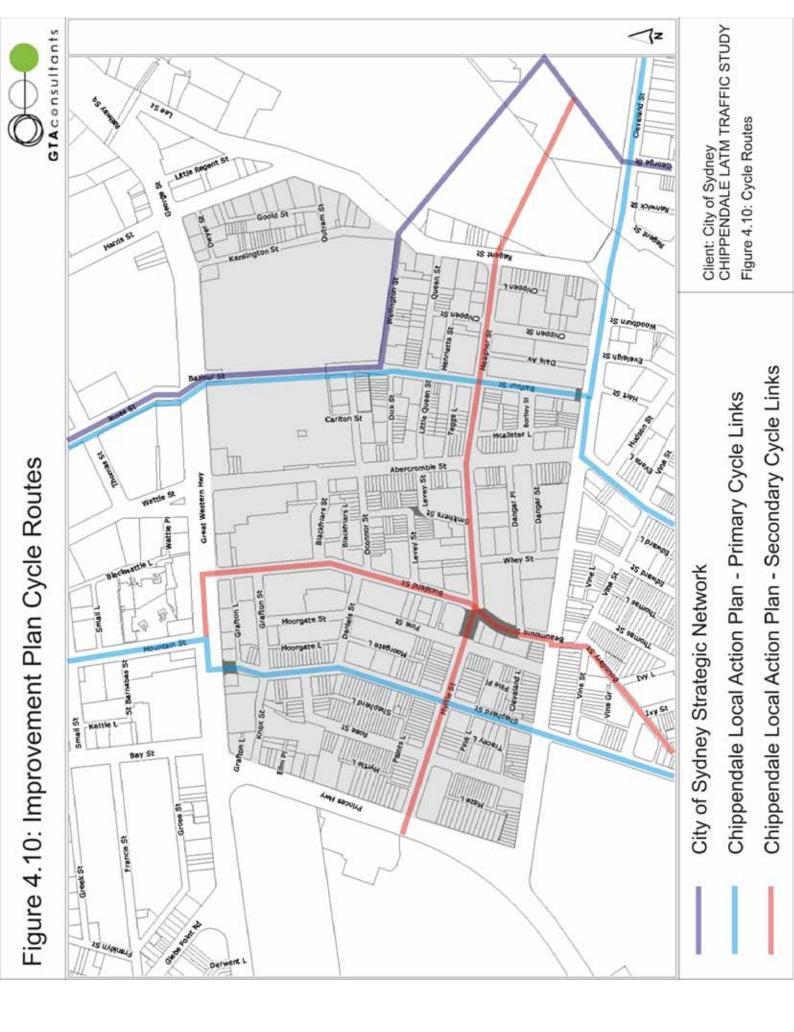
Inspections on site indicate that there are some issues that would need to be rectified to allow these routes to accommodate bicycle users. Some of these issues are noted as follows:

- There are inadequate kerb ramps at Peace Park near Buckland Street;
- No kerb ramps are provided at Dangar Place/Beaumont Street for cyclists accessing the park to the north;
- At Balfour Street near Cleveland Street, there are no kerb ramps provided; and
- Eastbound access across Abercrombie Street between Myrtle Street and Meagher Street is currently not permitted for cyclists.

4.7.4 Implications for the Study

The bicycle analysis suggests, in respect to the study, that;

- Cyclist are an important consideration within the LATM study and any measures proposed should accommodate their needs sufficiently;
- Consideration should be given to improving accessibility between Myrtle Street and Meagher Street by permitting this through movement for cyclists;
- Local Bicycle Routes should be implemented and provided with appropriate facilities as necessary; and
- Locations of bicycle parking should be identified.





4.7.5 Pedestrians

4.7.5.1 Background

The *Open Space and Community Facilities Needs Study (Heather Nesbitt Planning, 2005)*, prepared for the Carlton United Brewery Site, identified that to travel east-west, people used Myrtle, Queen and Meagher Streets, whilst north-south travel occurred along Pine, Shepherd, Buckland and Regent Streets.

With regard to pedestrian circulation and safety, the *Chippendale Local Action Plan Issues Report* (*Clouston Associates, 2006*) indicated that some of the main pedestrian issues included crossing main roads, particularly Abercrombie Street, poor links to adjacent facilities, including parks, narrow footpaths and the lack of pedestrian ramps.

4.7.5.2 Pedestrian Interview Surveys & Analysis

GTA Consultants undertook pedestrian interview surveys within the Chippendale study area on Wednesday 14th February 2007 primarily to determine the main pedestrian desire lines and identify any specific pedestrian issues within Chippendale.

The responses from the surveys indicated that the most popular roads used by pedestrians were **Broadway, Beaumont Street, Buckland Street, Myrtle Street and Abercrombie Street.** Other roads used also include Cleveland Street, Shepherd Street and Meagher Street.

Some of the specific pedestrian issues in the area, as recorded during the interview surveys, were as follows:

- Difficulty crossing busy streets, particularly Abercrombie Street;
- Busy local streets, with high vehicle speeds, including Buckland Street and Myrtle Street;
- Narrow footpaths, particularly on Buckland Street; and
- Lack of street lighting, particularly Shepherd Street, which is a concern for personal safety.

Other more general comments received included that there were rough and uneven footpaths; litter and glass on roads and footpaths, and concerns for safety due to crime and theft.

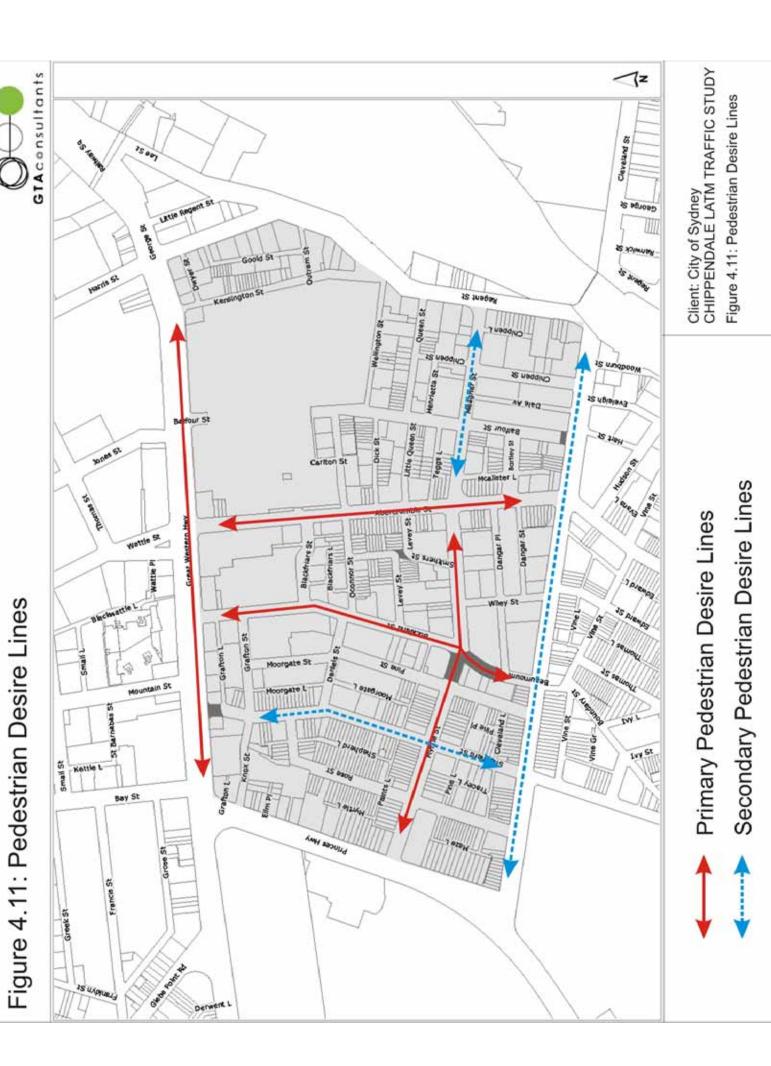
Figure 4.11 indicates the main pedestrian desire lines through Chippendale.

4.7.5.3 Pedestrian Volume Surveys

GTA Consultants undertook pedestrian volume surveys at the intersections of Meagher Street/Regent Street, Myrtle Street/City Road and Broadway/Buckland Street on Friday 15th May 2007 during the AM (8am-10am) and PM (3pm-7pm) peak periods to determine the levels of pedestrian activity at these three intersections. At the intersection of Myrtle Street/City Road in particular GTA Consultants also recorded those pedestrians crossing City Road unassisted across the 6 lanes of City Road traffic.

The outcomes of this survey indicated particularly heavy pedestrian flows across Buckland Street at the intersection of Broadway and Buckland Street with bi-directional flows of 498 pedestrians/hour in the AM peak period and 909 pedestrians/hour in the PM peak period respectively.

There were also a total of 17 pedestrians recorded crossing City Road at Myrtle Street during the AM peak hour period and 12 pedestrians crossing City Road during the PM peak hour period as indicated in Figure 6.7 in Appendix D.



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existing conditions assessment

4.8 Car Parking (On-Street)

Information obtained from previous reports and studies and observations on site indicated that there was a high demand for parking within the Chippendale study area which could be attributed to the housing types which does not provide off street parking and the demand for short term parking activity from shoppers and business people. The issue of parking is important in the development of any LATM measures which should look to minimise the loss of parking wherever possible. The issue of parking is also important in the context of the CUB site which, it is claimed, would provide sufficient parking to cater for the likely demand of the proposed development implying that there would be minimal parking impacts on the Chippendale local area.

GTA Consultants used the information provided from the PBAI Report in relation to the location and supply of on-street parking within Chippendale and included this information on a base plan prepared for this study.

4.9 Initial Stakeholder Consultation

GTA consulted with Sydney Buses, the Roads and Traffic Authority (RTA), NSW Police and Emergency Services during the development of the LATM proposals.

Sydney Buses main issues in this area related to bus services delays due to traffic congestion on the arterial road network. No public bus services travel through the Chippendale study area.

The RTA provided initial feedback as follows:

- City Road/Cleveland Street intersection Currently experience problems in getting the traffic to flow so any proposals in the LATM scheme should not reduce the efficiency of this intersection; and
- City Road signal controlled pedestrian crossing (At Myrtle Street) RTA has previously
 advised Council that they would not be supportive of another set of pedestrian traffic signals
 across City Road. Signalised pedestrian crossings are provided across Cleveland Street at
 the Cleveland/City intersection and across City Road at the City/Parramatta Road
 intersection which enables pedestrians to access the park.

4.10 Summary of Key Traffic and Transport Issues in Chippendale

The key traffic and transport issues are:

- Based on the peak hour traffic volumes obtained from the surveys, traffic volumes within Chippendale are generally within acceptable levels with the exception of Meagher Street (387 veh/hr);
- Based on the 85th percentile speeds obtained from surveys, traffic speeds within
 Chippendale are generally within the acceptable levels for local streets with the exception of
 Meagher Street (42km/h), Shepherd Street (47 km/h) and Buckland Street (48km/hr);



- There were two main through traffic routes identified which included the westbound route
 of Meagher Street, Myrtle Street and Buckland Street, and the southbound route of
 Buckland Street, Grafton Street and Shepherd Street;
- A G-turn route was identified with traffic using Buckland Street, Blackfriars Street and Abercrombie Street;
- The key accident location within the study area is the intersection of Abercrombie Street, Meagher Street and Myrtle Street where 10 accidents occurred over the 5 year period to 2006;
- There is insufficient provision of on-road bicycle facilities or bicycle parking on the local roads of Chippendale;
- The main pedestrian desire lines identified include the North/South routes of Abercrombie Street, Buckland Street and Shepherd Street and the East/West routes of Broadway, Myrtle and Meagher Streets;
- There is a lack of pedestrian facilities on the local roads adjoining the arterial road network;
- There is not enough safe pedestrian crossings linking the surrounding and internal parks;
- The demand for on-street car parking in Chippendale is high and may give rise to increase on street car parking demand following the development of the CUB site.



5. Review of Existing LATM Measures

5.1 Existing LATM Measures

GTA Consultants prepared an inventory of the existing LATM measures within the Chippendale study area primarily as the basis for developing new LATM measures for Chippendale. These existing measures (refer Table 5.1) were implemented as a result of previous studies undertaken to address issues of speed and traffic volumes within the local streets of Chippendale. These existing measures were included on a plan prepared by GTA Consultants and formed the basis for developing further LATM proposals.

Table 5.1: Existing Traffic Management Measures

Туре	Location Details			
Road Closure	Shepherd Street – Between Grafton Lane and Broadway Beaumont Street – Between Dangar Place and Buckland Street Myrtle Street – Between Pine Street and Buckland Street Smithers Street – Between Levey Street and Level Street Balfour Street – At Cleveland Street			
Raised Central Median	City Road, Cleveland Street, Regent Street and Broadway			
One Way	Knox Street, Abercrombie Street, Dick Street, Wellington Street and Bartley Street			
Shared Zone	Dick Street			
Footpath Extensions	Buckland Street/Myrtle Street Shepherd Street/Daniel Street Myrtle Street/Pine Street Beaumont Street/Cleveland Street Myrtle Street/Wiley Street			
Pedestrian Crossing	Buckland Street north of Blackfriars Street			
Roundabout	Meagher Street/Balfour Street Myrtle Street/Shepherd Street Myrtle Street/Rose Street			
Kerb Blisters	Abercrombie Street			
Speed hump	Myrtle Street west of Wiley Street			
On Street Parking	All local streets within the study area			
Turn Bans	Myrtle Street/Meagher Street (no through) Cleveland Street/Shepherd Street (no right turn) Cleveland Street/Beaumont Street (no right turn) Cleveland Street/Wiley Street (no right turn)			
Pedestrian Refuge	Meagher Street east of Abercrombie Street			

review of existing latm measures

5.2 Review of existing LATM measures

GTA Consultants used two forms of assessment to review the effectiveness of the existing LATM measures. The first included an overview of the existing 2007 traffic volume and speed data and the second included undertaking some SIDRA traffic modelling at intersections where existing LATM measures were already in place. GTA Consultants also reviewed the existing measures against the current design guidelines in relation to spacing of traffic management devices to achieve the desired mean speeds.

5.2.1 Traffic Volumes and Speed

The existing traffic volume and speed data identified only a small percentage of streets which were approaching or exceeding their environmental performance standards. In general, the existing LATM measures were working effectively.

5.2.2 Intersection (SIDRA) Modelling

The operation of the following four intersections were assessed using SIDRA INTERSECTION 3.0^5 , a computer based modelling package used to calculate intersection performance:

- Meagher Street/Balfour Street; (Roundabout);
- Myrtle Street/Rose Street; (Roundabout);
- Myrtle Street/Shepherd Street; (Roundabout); and
- Abercrombie Street/Myrtle Street/Meagher Street (Cross Intersection).

The commonly used measure of intersection performance, as defined by the RTA, is vehicle delay. SIDRA INTERSECTION 3.0 determines the average delay that vehicles encounter and provides a measure of the level of service.

Table 5.2 shows how SIDRA INTERSECTION 3.0 adopts the following criteria for level of service.

⁵ Program used under license from Akcelik & Associates Pty Ltd.



Table 5.2: SIDRA INTERSECTION 3.0 Levels of Service

Level of Service (LOS)	Average Delay per vehicle (secs/veh)	Traffic Signals, Roundabout	Give Way & Stop Sign
А	Less than 14	Good operation	Good operation
В	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
С	29 to 42	Satisfactory	Satisfactory, but accident study required
D	43 to 56	Near capacity	Near capacity, accident study required
E	57 to 70	At capacity, at signals incidents will cause excessive delays	At capacity, requires other control mode
F	Greater than 70	Extra capacity required	Extreme delay, major treatment required

Tables 5.3 to 5.6 provide a summary of the SIDRA INTERSECTION 3.0 analysis for the 4 intersections.



Table 5.3: Meagher Street/Balfour Street – Existing Operating Conditions

			Critical Turni	ng Movements			
Peak Period	Approach	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service		
	Balfour Street – South	0.004	9.8	o	А		
AM Peak	Meagher Street – East	0.129	6.1	5	А		
	Balfour Street – North	0.016	5.9	1	А		
	Meagher Street – West	0.05	4.9	2	А		
	Balfour Street – South	0.008	10.4	O	А		
DM Dards	Meagher Street – East	0.166	5-7	7	А		
PM Peak	Balfour Street – North	0.033	6.8	1	А		
	Meagher Street – West	0.045	6	2	А		

Table 5.4: Myrtle Street/Rose Street – Existing Operating Conditions

			Critical Turni	ng Movements		
Peak Period	Approach	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service	
	Rose Street – South	0.024	8.9	1	Α	
AM Peak	Myrtle Street – East	0.011	8.3	o	А	
	Rose Street – North	0.013	8	o	А	
	Myrtle Street – West	0.054	7-7	2	А	
	Rose Street – South	0.019	9.2	1	А	
PM Peak	Myrtle Street – East	0.027	7-5	1	А	
rivi reak	Rose Street – North	0.017	7.7	1	А	
	Myrtle Street – West	0.06	6.9	2	А	



Table 5.5: Myrtle Street/Shepherd Street–Existing Operating Conditions

			Critical Turni	ng Movements				
Peak Period	Approach	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service			
	Shepherd Street – South	0.06	6.7	3	А			
AM Peak	Myrtle Street – East	0.023	5.9	1	А			
	Shepherd Street – North	0.042	4.9	2	А			
	Myrtle Street – West	0.064	5.5	2	А			
	Shepherd Street – South	0.025	6.7	1	А			
DM Dools	Myrtle Street – East	0.022	6.1	1	А			
PM Peak	Shepherd Street – North	0.052	6.4	2	А			
	Myrtle Street – West	0.06	5.4	2	А			

On the basis of the above assessment, the SIDRA results indicated that the 3 intersections under roundabout control currently operate well with minimal queues and delays in both the AM and PM peak periods.

Table 5.6: Abercrombie Street / Meagher Street – Existing Operating Conditions

			Critical Turni	ng Movements	
Peak Period	Approach	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service
	Abercrombie Street – South	0.3	0.5	O	А
AM Peak	Meagher Street – East	1.132	212.8	135	F
	Myrtle Street - West	0.57	50	19	D
	Abercrombie Street – South	0.263	0.3	o	Α
PM Peak	Meagher Street – East	1.2	245.8	214	F
	Myrtle Street - West	0.255	32.4	8	С



The analysis of the operation of the Abercrombie Street/Myrtle Street/Meagher Street intersection indicates, on the basis of the SIDRA INTERSECTION model, a very poor level of service with unacceptable queues and delays during both the AM and PM peak periods. This result, however, has to be tempered by the fact that the model does not account for platooning of traffic which typically results in larger gaps created along, in this case, Abercrombie Street by the operation of the downstream signalised intersection of Cleveland Street/Abercrombie Street.

In reality, on-site observations indicate that there are significant gaps created on Abercrombie Street by this downstream intersection with sufficient capacity for left turning traffic exiting both Myrtle and Meagher Streets.



6. Chippendale 2007 LATM

6.1 Introduction

Sections 1-5 of this report have informed the development of the LATM measures proposed. The extent and level of LATM measures proposed are reflective of the relatively low level of traffic and speed issues that exist within the study area but these measures should, nevertheless, go some way towards addressing the remaining traffic issues within Chippendale.

GTA Consultants have also assessed the appropriateness of the Improvement Plan proposals and, where required, incorporated these into the overall LATM recommendations.

6.2 Chippendale LATM Objectives and Principles

6.2.1 Key Objectives

Given the preceding analysis, the key objectives for the framing of the LATM proposals arising from the study were to:

- Reduce Traffic Speed in Meagher Street, Buckland Street and Shepherd Street; and
- Reduce Traffic Volume in Meagher Street.

In addition, it was important to consider additional measures which would improve pedestrian and cycle connectivity/amenity within the Chippendale study area.

6.2.2 LATM Design Principles

The following design principles have been adopted for the LATM treatments in Chippendale:

- Measures should minimise the loss of on-street parking, where possible, given the high demand for parking in Chippendale;
- Measures should limit vertical changes in grade, where possible, due to noise and inconvenience issues created by such measures;
- Measures should consider the needs of cyclists in terms of accessibility and safety;
- Measures should consider the needs of pedestrians in terms of accessibility and safety; and
- Measures should, where suitable, provide opportunities for further landscaping to improve and compliment the current character of Chippendale.



6.2.3 Proposed LATM Measures

GTA Consultants have used the **Austroads Guide to Traffic Engineering Practice Part 10 - Local Area Traffic Management, 2004** to select the appropriate LATM treatments which address the various issues identified within this report. These guidelines provide a clear indication of the types of treatments available, which issues they best address and what the advantages and disadvantages of each treatment are. They have provided a good basis for developing LATM measures for Chippendale.

A description of the LATM treatments for Chippendale and further supporting analysis are provided below. The overall concept proposals are indicated in Figure 6.8 with further detail of the proposals provided in Appendix C.

Table 6.1 provides details of the positive and negative impacts of the LATM treatments proposed for Chippendale.

6.3 Chippendale LATM Concept Proposals

6.3.1 MEAGHER STREET

The traffic issue identified in Meagher Street was a combination of volume and speed which could be attributed to traffic avoiding the nearby congested intersections on the arterial road network. The width of Meagher Street (9 - 10m) and distance between Regent Street and Balfour Street, where no traffic calming devices exist, also contributes to the tendency of traffic to speed along Meagher Street. Details of the measures proposed along Meagher Street are described below.

Intersection Regent Street/Meagher Street – Pedestrian Crossing & Kerb Extensions (Refer Figure 6.1 in Appendix C)

The purpose of this treatment is to reduce speed at the intersection and provide pedestrians with a safer crossing facility at this location. It should be noted that the road narrowing should still allow access by larger service vehicles.

Preliminary surveys indicate that a pedestrian crossing would meet the requirements of the reduced RTA warrants, details of which are provided in Appendix E.

Intersection Meagher Street/Chippen Street - Modified T-Intersection/Kerb Blisters (Refer Figure 6.1 in Appendix C)

The purpose of this treatment is to reduce speed at mid-block along Meagher Street, to provide some further protection for parked cars and to reduce the crossing distance for pedestrians across Chippen Street (South). It is important to note that this treatment would result in the loss of some car parking spaces but should not restrict access for larger service vehicles.

6.3.2 MEAGHER STREET/ABERCROMBIE STREET/MYRTLE STREET TRAFFIC SIGNAL INTERSECTION

The signalling of this intersection is necessary primarily to provide a pedestrian crossing across Abercrombie Street and provide safer links between open spaces within Chippendale. The signals should also assist in physically enforcing the banned east/west cross vehicle movement, should safely accommodate the east and westbound bicycle movements and should eliminate the current accident issues that have occurred at this location over the last 5 years.

It is important to note that any traffic signals proposed on the RTA arterial road network would require RTA approval prior to proceeding. One criterion required for justifying the provision of signal controlled pedestrian crossings is that it is warranted if 3 or more pedestrian accidents have occurred at the location. In the case of this location, although there have not been 3 or more pedestrian crossings specifically at this location there has been 3 pedestrian accidents in relatively close proximity along Abercrombie Street.

The actual design of this treatment is subject to further discussion with the RTA and the City of Sydney.

6.3.3 BUCKLAND STREET

The traffic issue identified in Buckland Street was one of speed primarily which could be attributed to the fact that the southern part of Buckland Street is relatively wide at approximately 11.0m and relatively straight. In terms of design treatments for Buckland Street the following measures have been developed:

Intersection Buckland Street/Broadway - Pedestrian Crossing

The purpose of this treatment is to reduce speed at the intersection and provide pedestrians with a safer crossing at this location. It should be noted that this treatment should not restrict access for larger service vehicles. Preliminary surveys indicate that the pedestrian crossing would meet the requirements of the reduced RTA warrants.

Convert Existing marked Pedestrian Crossing into a Raised Threshold Pedestrian Crossing (North of Blackfriars Road)

The purpose of this treatment is to reduce speed at mid-block along Buckland Street and provide pedestrians with a safer east/west crossing of Buckland Street.

Kerb Blisters

The purpose of this treatment is to reduce speeds by narrowing the width of the available carriageway and also providing further protection to parked cars along Buckland Street. It is proposed to provide kerb blisters wherever possible along Buckland Street, the extent of which would be determined during the detailed design stage.



Footpath Widening/Road Narrowing (Between Paints Lane and Daniel Street)

The purpose of this treatment is to improve pedestrian safety together with acting as a further speed reducing measure by narrowing the existing carriageway.

The current road width along this section of Buckland Street is approximately 10.7m with car parking provided on both sides. It has been determined that by providing two 2.75m traffic lanes and maintaining car parking (2.1m x 2) on both sides of Buckland Street would allow a widening of 1.0m to occur along this section of Buckland Street.

It should be emphasised that Buckland Street to the north of Blackfriars Street has a carriageway width of some 9.2m (1.5m less than the southern end of Buckland Street) with car parking on both sides and continues to operate satisfactorily. It should also be noted that current design guidelines for residential sub-divisions (AMCORD) allow a minimum carriageway width of 5.5m kerb to kerb which can cater for a truck and car to pass side by side.

6.3.4 SHEPHERD STREET

The traffic issue identified in Shepherd Street was also one of speed which could be attributed to the fact that there are opportunities for southbound traffic to have a continuous run between Grafton Lane and Myrtle Street without anything to reduce their speeds. It has also been identified that Shepherd Street is potentially being used by traffic trying to avoid the City Road/Broadway intersection. In terms of design treatments for Shepherd Street the following measures have been developed:

Intersection Improvements Shepherd Street/Daniel Street (Refer Figure 6.2 in Appendix C)

GTA Consultants identified that currently vehicles travelling southbound on Shepherd Street (North of Daniel Street) can proceed through the intersection without a need to divert from their straight travel path resulting in speeds above the posted 40km/hr speed limit. Shepherd Street further south is also a straight road allowing these vehicles to continue at speed until the roundabout at Myrtle Street.

This treatment includes the provision of a more permanent but mountable traffic island or raised pavement markers and line marking to provide a deflection for southbound vehicles.

Speed Cushions – Between Daniel Street and Myrtle Street

The purpose of this treatment is to reduce speed at mid-block along Shepherd Street. Speed cushions are the preferred treatment type given that this is on the proposed local bicycle network.

6.3.4.1 INTERSECTION CITY ROAD/MYRTLE STREET – Kerb Extension and Pedestrian Refuge Island (Western End) (Refer Figure 6.3 in Appendix C)

The proposed treatment would reduce speed at the intersection as it would reduce the entry/exit carriageway width. It does not include a formal pedestrian crossing as the results of the surveys indicated that the RTA Warrants for a formal pedestrian crossing could not be met. This treatment should also not restrict access by larger service vehicles.

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6.3.5 CITY ROAD/MYRTLE STREET SIGNAL CONTROLLED PEDESTRIAN CROSSING

This treatment is important for pedestrians as it would provide a direct east/west pedestrian link between Victoria Park, the existing Peace Park, and the future proposed Balfour Park and the CUB site.

It is again subject to the approval of the RTA who has already indicated to Council that they would not support it as a consequence of City Road traffic capacity requirements in conjunction with recent proposals for the installation of north and southbound bus lanes on City Road.

6.4 Balfour Street Closure

The closure of Balfour Street between O'Connor Street and Wellington Street has already been adopted by the City of Sydney with the intention that this would become a park in the not so distant future. It should also be noted that the through route to Broadway on Balfour Street has been restricted for some time now as part of the redevelopment proposals for the Carlton United Breweries site which has not caused any issues.

The impacts that this closure would have on both resident access and traffic would be minimal. The current traffic volumes on O-Connor Street and Wellington Street are very low and are unlikely to cause any future traffic issues on surrounding streets as a consequence of traffic seeking alternative routes. The closure would have a minor affect on access to O'Connor Street (between Abercrombie Street and Balfour Street) from the south-east but there are still easy alternatives available.

The future park would provide the residents of the eastern part of Chippendale with a facility that is not currently available.

6.5 RTA Warrant Assessment

GTA Consultants reviewed the existing traffic and pedestrian volumes at the three locations of Meagher Street/Regent Street, Broadway/Buckland Street and Myrtle Street/City Road, where formal pedestrian crossings were proposed, against the RTA's warrant criteria to ascertain whether or not they could be justified on this basis.

The RTA Warrants for formal pedestrian crossings state the following:

"A marked foot crossing may be installed if at least 50% of pedestrians using the crossing are aged or have a mobility difficulty and for each of three one hour periods in a typical day:

- i P is greater than or equal to 30 &
- ii V is greater than or equal to 200"

Figure 6.6 and 6.7 in Appendix D provides the location and associated traffic and pedestrian volumes for all sites in Chippendale which require an RTA warrant assessment.

Appendix E provides details of the RTA warrant assessment criteria for the various types of pedestrian facilities.



GTA Consultants assessment of the RTA Warrants indicated that two of the three sites would meet the reduced RTA Warrants criteria for formal pedestrian crossings at Meagher Street/Regent Street and Broadway/Buckland Street but not at Myrtle Street/City Road. It is noted that in terms of the individual pedestrian and traffic volume components the warrants were exceeded in full or part at all three locations. It is important to note that the pedestrian volumes across Buckland Street were extremely high, in the order of 500 movements in the AM peak hour and 900 movements in the PM peak hour which in itself should warrant the need to improve safety here.

CHIPPENDALE 2007 LATM STUDY. Table 6.1 - LATM CONCEPT PROPOSALS IMPACTS TABLE



		MPA	IMPACTS	
TREATMENT TYPE AND REFERENCE	CHIPPENDALE PROPOSED LOCATIONS	POSITIVE	NEGATIVE	COMMENTS
A- FORMAL PEDESTRIAN CROSSINGS	Intersection Regent StreetMeadpler Street Intersection Broadway/Buckland Street	Reducas Traffic Speeds Discourages Through Traffic Increases Pedestrian Safety Reduces Crash Risk		Meet the reduced RTA Warrants
B. ROAD HUMPS	Meagher Street (Between Chippen Lane and Chippen Street Shepherd Street (Between Daniel Street and Myrle Street)	Reduces Traffic Speeds Discourages Through Traffic Reduces Crash Risk Low Installation Cost	Traffic noise may increase due to braking, acceleration and the vertical displacement of vehicles. Uncomfortable for drivers and cyclists.	
C-ROAD CUSHIONS (Preferred Option)	Meagher Street (Between Chippen Lane and Chippen Street Shepherd Street (Between Daniel Street and Myrle Street)	Reducas Traffic Speeds Discourages Through Traffic Reduces Crash Risk Does not restrict or discomfort cyclists and can be designed so they do not inconvenience commercial vehicles Low installation Cost	Less effective in slowing vehicles with a wide wheel track or nortovolsits. Drivers can action their effect by traversing the cushions with only two wheels.	
D- LANE NARROWINGKERB EXTENSIONS	7. Buckland Street (7 Locations) 8. Meagher Street (2 Locations Max)	slety nes at intersections. moes for Pedestrians deliniation for parked cars. or landscaping.	May restrict commercial vehicle access. May introduce squesze points for cyclists. Less effective than other LATM measures.	
E- MODIFIED INTERSECTIONS	Intersection Chippen Street/Meagher Street Intersection Shepherd Street/Daniel Street Intersection City Road/Myrtle Street	affic	May introduce squeeze points for cyclists. Results in the loss of on street car parking	
F. SHARED ZONES	12. Teggs Lane 13. Litte Queen Street	Reduces Traffic Speeds Discourages Through Traffic Increases Pedestrian Salety by Providing Pedestrian Priority Improves Amenity without Affecting Access	Can be costly depending on treatment applied Drivers may not observe the 10km/hr speed restriction when pedestrian usage is low. Requires education and enforcement	
G -TRAFFIC SIGNALS/SIGNAL CONTROLLED PEDESTRIAN CROSSINGS	reet	affic d Cyclist Safety	the main road.	Requires RTA Approval (State Road) Required to meet RTA Warrants
H - FOOTPATH WIDENING	15. Buckland Street (Between Paints Lane and Daniel Street) 16. Wiley Street Eastern Side (Between Myrtle Street and Cleveland Street)		High Installation Costs Removal of on-street car parking.	
I - SHARED PEDESTRIAN/CYCLEWAY	Provi	Provides legal facility for cyclists to access Prince Albert Park.	Can increase pedestrian/cyclist conflicts as cycle use increases.	
J - RAISED THRESHOLD PEDESTRIAN CROSSING	18. Buckland Street (North of Blackfriars Street)	ffic ety	ue to braking, acceleration and kehides. commercial vehicle access d cyclists	
K - AMIPM BANNED TURN	Left Turn Repeat Steet in Medgate Street, 20. Left Turn from Blackfiras Street inn Abacrombie Street (in conjunction with kerb extension on northern side of Blackfiras Reved) 21. Left Turn from O'Comor Street into Abercrombie Street (in conjunction with kerb extensions on northern side of Blackfirars Street)	Reduces Traffic Volumes Reduces Traffic Speeds Increases Pedestrian Safety Reduces Crash Tisk Minimal Installation and Maintenance Costs	Restricts Residential Access. May divert traffic onto surrounding streets (i.e Queen Street) Not self enforcing so may require Police enforcement. Turns at less safe places may occur as a consequence.	Requires RTA Approval. (State Road)

GIAconsultants Client: City of Sydney CHIPPENDALE LATM TRAFFIC STUDY Figure 6.8: LATM Concept Proposals 1500 W - AM/PM Peak Banned Turn (adopted by Council) - Road Closure (adopted by Co Great Western Hwy Dangar J - Raised Threshold Ped Crossing Figure 6.8: LATM Concept Proposals I - Shared Ped/Cycleway H - Footpath Widening G - Traffic Signals --- F - Shared Zones Bay St A - Formal Ped Crossings (At-Grade) B - Speed Humps C - Speed Cushions D - Kerb Blisters E - Modified Intersection Treatment



6.6 Cyclists

6.6.1 Proposed Bicycle Network

The Improvement Plan recommended a series of bicycle routes through Chippendale as indicated in Figure 4.10.

GTA Consultants recommends that this bicycle network be rationalised to provide one local network for Chippendale which is based on routes which can be directly linked with existing crossings of the arterial road network. It is recommended that the local bicycle network consist of Balfour Street and Shepherd Street for the north/south routes and Meagher Street and Myrtle Street for the east/west route. This proposed local bicycle network is provided in Figure 6.9.

6.6.2 Proposed Bicycle Facilities

Bicycle Route Facilities

The relationship between the prevailing traffic speed and volume is an important factor in the decision to provide specific bicycle facilities along a route. The *RTA's NSW Bicycle Guidelines 2003, Figure 3.2* below provides guidance on the selection of the appropriate type of bicycle facility to determine whether or not it should be a separate or mixed traffic facility.

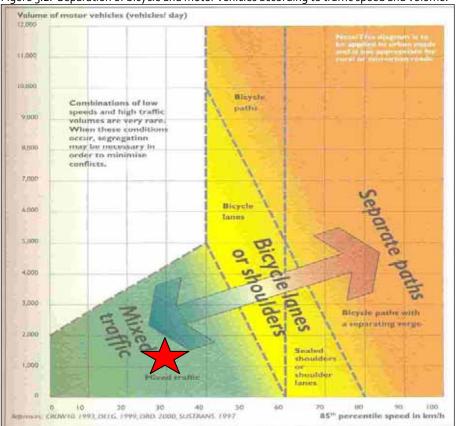


Figure 3.2: Separation of bicycle and motor vehicles according to traffic speed and volume.



Traffic volumes and speeds on Chippendale local roads are within this zone.



In the case of Chippendale the speeds and volumes along the roads designated as local bicycle routes, and in fact on all roads within Chippendale, are of a level which would allow safe travel by cyclists on mixed traffic routes. Furthermore the existing road widths are simply not sufficient to accommodate designated bike lanes without the need to remove car parking.

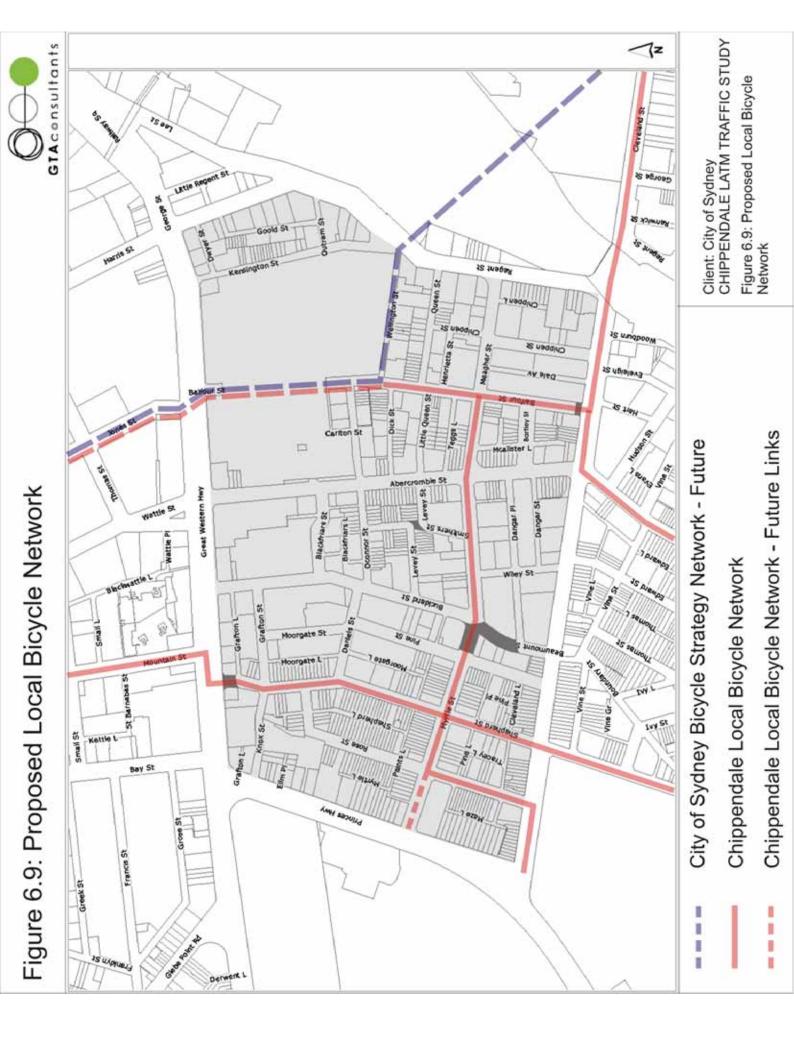
As such it is recommended that on-road bicycle logos and signage be provided along the routes identified by GTA Consultants as local bicycle routes in Chippendale.

Bicycle Parking Facilities

There is very little bicycle parking in Chippendale. Bicycle racks have been provided in the vicinity of the Shepherd Street closure at Broadway. It is recommended that further bicycle parking be provided within Chippendale initially at the following 5 locations.

- Meagher Street/Abercrombie Street Intersection;
- Abercrombie Street Intersection;
- Balfour Street Road Closure (Southern End);
- Peace Park; and
- Balfour Park (If and when constructed).

These locations would serve those cyclists wishing to visit the recreational areas and coffee shops/cafes in and around Chippendale.





6.7 Pedestrians

GTA Consultants have identified a number of locations along the primary and secondary pedestrian desire lines where the provision of pedestrian facilities would improve safety and connectivity. These facilities range from simple pram ramps to footpath widening and signal controlled pedestrian crossings which are described in further detail below:

6.7.1 North/South Pedestrian Desire Lines

Buckland Street Footpath Widening (Between Paints Lane and Daniel Street)

It is proposed to widen the footpath on the west side of Buckland Street to improve pedestrian safety and accessibility. This location is one of the most critical in terms of inadequate footpath widths as it links Peace Park and Broadway in the north/south direction.

Buckland Street (North of Blackfriars Street) Raised Threshold Formal Pedestrian Crossing

It is proposed to upgrade the existing formal pedestrian crossing on Buckland Street north of Blackfriars Street by way of a raised threshold to provide a safer crossing from the east to west side of Buckland Street.

Myrtle Street West (At City Road) – Pedestrian Refuge

It is proposed to provide a pedestrian refuge at the intersection of City Road and Myrtle Street to allow a safe north-south crossing of Myrtle Street.

Meagher Street (At Regent Street) - Pedestrian Crossing

It is proposed to provide a wombat crossing at the intersection of Meagher Street and Regent Street to allow a safe north-south crossing of Meagher Street.

6.7.2 East/West Pedestrian Desire Lines

Buckland Street/Broadway - Pedestrian Crossing

It is proposed to provide a formal pedestrian crossing on Buckland Street at Broadway. Pedestrians using Broadway would benefit from increased safety at the Buckland Street intersection with the installation of this formal pedestrian crossing.

Myrtle Street/Abercrombie Street/Meagher Street - Signal Controlled Pedestrian Crossing

It is proposed to provide a safe pedestrian crossing at the intersection of Abercrombie Street/Meagher Street/Myrtle Street with the installation of traffic signals at this intersection.



Meagher Street – Pedestrian Pram Ramps

It is proposed to provide pedestrian pram ramps and possibly small kerb extensions on the western arm of Balfour Street to allow a safer pedestrian crossing across Meagher Street ensuring that there will be a continuous route between the future Balfour Park and Peace Park.

6.8 Urban Design/Landscaping

Urban design consultants EDAW were also employed by Council on this project to assist with the urban design and landscaping aspects of the proposals. Their involvement in this stage of the project, although small, has been important in providing a more strategic overview specifically in relation to land uses, street character and the potential for community initiatives within the Chippendale area.

EDAW have identified the need to engage the Chippendale community more by introducing initiatives such as having community markets at specific locations, organising on-street business events, providing entry points which are designed in such a way that they provide a distinct Chippendale look and introducing further landscaping. Plan No. SKo4B (Refer Appendix F) details schematically some of these potential initiatives for Chippendale.

It should be noted that EDAW would have a more prominent involvement during the detailed design stage of this project.



7. Community Consultation

7.1 Introduction

A community workshop, which was facilitated by consultants KJA, was organised and held at the Citigate Hotel on the 10th May 2007 between 6pm and 8pm to present and discuss the outcomes of the most recent LATM study undertaken by GTA Consultants for the Chippendale area. It was also an opportunity to explain and educate the community about the LATM process and approval procedures and requirements in relation to some of the draft proposals developed as part of the LATM study.

The main objective of the workshop was as follows:

- i To update the community on the status of the Chippendale Improvement Plan;
- ii To present the key findings and draft LATM proposals;
- iii To obtain feedback in relation to the draft LATM proposals; and
- iv To identify any further traffic issues which could be included within the current LATM study.

GTA Consultants prepared a presentation plan of all the LATM proposals (Refer Appendix G) which was used as the basis for the community workshop. This workshop was attended by some 19 people.

7.2 Key Consultation Outcomes

Overall the workshop attendees were supportive of the majority of the proposed LATM treatments and indicated that they adequately addressed the traffic related issues in Chippendale.

However the following additional issues were raised in relation to the LATM study:

- i Need to investigate further traffic issues in Blackfriars Street.
- ii It was identified that there was through traffic using Blackfriars Street as part of a G-Turn to access Wattle Street from the east along Broadway. At present traffic cannot turn right into Wattle Street from Broadway;
- iii Need to investigate further traffic issues in Wiley Street;
- iv It was identified that the width of Wiley Street and the limited opportunity for two vehicles to pass side by side when cars were parked on one side of Wiley Street was problematic; and
- v Need to update the accident analysis data to reflect the latest 5 year period available 6.

GTA Consultants subsequently investigated further the traffic issues raised above with the outcomes of this work explained in further detail overleaf:

Further detail of the community consultation outcomes is contained in a separate report prepared by Consultants KJA.

⁶ Refer Section 4.6 for updated accident analysis information.

7.3 Additional LATM Concept Proposals

7.3.1 Blackfriars & O-Connor Streets

In terms of design treatments for Blackfriars Street and O'Connor Street the following measures have been proposed:

7.3.1.1 Blackfriars Street/Abercrombie Street Intersection - Point One Way (Left In Only Permitted) (Refer Figure 6.4 in Appendix C)

The proposed treatment would primarily involve introducing a left-in only arrangement or what is commonly referred to in traffic engineering terms as a "point on way" at the intersection of Blackfriars Street and Abercrombie Street. This would be achieved by a combination of kerb extensions and "No Entry "signage which would visually and physically delineate the left-in only arrangement. This should go some way in removing the existing G-Turn issue but also reduce the probability of conflict between east and westbound vehicles travelling on Blackfriars Street and Abercrombie Street. It should be noted that this proposal would have implications for resident egress as they would no longer be able to exit Blackfriars Street into Abercrombie Street but instead would have to find alternative routes.

In addition to the above treatment GTA Consultants also identified a need to provide centre line marking on the S-bend of Blackfriars Street to encourage vehicles to travel within their designated lanes therefore reducing the opportunity for conflict and improving traffic safety. This treatment does however result in the need to remove some on-street parking on both sides of Blackfriars Street at the location of the S-bend as indicated in Figure 6.4 in Appendix C.

7.3.1.2 O'Connor Street/Abercrombie Street Intersection - Point One Way (Left In Only Permitted) (Refer Figure 6.4 in Appendix C)

As is often the case with proposals like that proposed for Blackfriars Street where access is restricted the likely consequence is that traffic would seek out alternative routes to perform the same manoeuvres as before. In this case O'Connor Street would be the obvious choice for diverted traffic necessitating the introduction of similar measures as proposed on Blackfriars Street to ensure that the G-Turn traffic issue is not simply transferred into O'Connor Street. It is therefore proposed to introduce a left-in only treatment at the intersection of O'Connor Street and Abercrombie Street. This would also be achieved by a combination of kerb extensions and "No Entry "signage which would visually and physically delineate the left-in only arrangement. As is the case for Blackfriars Street this proposal would have implications for resident egress as they would no longer be able to exit O'Connor Street into Abercrombie Street but instead would have to find alternative routes.

7.3.2 Wiley Street

Currently Wiley Street operates as a two way road with parallel parking on the western side. It is only 6.3m wide which results in opposing vehicles not being unable to pass one another when "all day" kerbside parking occurs. This issue is exacerbated by the existing kerb extensions which physically narrow the carriageway to 4.8m at the Buckland Street and Dangar Avenue Intersections. Parking south of Dangar Avenue is however restricted to 1 hour parking only allowing some opportunities for passing when, at times, these spaces are free of parked cars.

In terms of design treatments for Wiley Street the following measures have been proposed:



7.3.2.1 Wiley Street – Removal of On-Street Car Parking and Kerb Extensions (Refer Figure 6.5 in Appendix C)

The proposed treatment would involve the provision of more waiting areas or to increase the availability of passing opportunities by the extension of existing or introduction of new "no stopping" restrictions together with the removal of existing physical pinch points at various locations along Wiley Street. This would result in the loss of some 6 car parking spaces but also allows the opportunity to widen the eastern footpath by approximately o.8m and to provide an overall 5.5m carriageway width. This treatment should alleviate the traffic issues currently experienced in Wiley Street. Details of the proposed treatment are shown in Figure 6.5 in Appendix C.

7.4 Public Submissions

In addition to the feedback received at the community workshop there were also a total of 10 written submissions received during the public exhibition period which have been summarised based on the key issues raised as indicated in Table 7.1.



Table 7.1: Public Submissions Summary Table

ubmission No	Street Address (If applicable)	Key Issues/Concerns	GTA Response
1.	Myrtle Street	 Pedestrian Safety at Paints Lane and crossing to Peace Park. 	 The LATM treatments on Buckland Street (Blisters and Footway widening) should go son way to improving safety at Paints Lane.
		2. Through traffic via Wiley Street 3. Increase soft landscaping within LATM treatments 4. Impose timed parking throughout Chippendale	2. According to the traffic data recorded by GT Consultants Wiley Street is not a rat run. The Wiley Street issue is caused by the narrownes of the street and lack of passing opportunities when two vehicles approach at the same time This issue has been investigated further by GT Consultants and proposals formulated to address this as indicated in Figure 6.5.
			Wherever possible and relevant soft landscaping will be provided within the LATM treatments
			4. All parking issues will be dealt with through separate study.
2.	Buckland Street	 Concern for possible increase in left turning traffic into Myrtle Street from Abercrombie Street as a consequence of a traffic signal proposal. Ensure Blisters have 	The left turning traffic movement is not dissimilar to what currently exists and traffic flow figures indicate that this street is not bein used heavily as a through route from this direction. Wherever possible and relevant soft
		planting within them.	landscaping will be provided within the LATM treatments.
3.	Blackfriars Street Residents and Businesses	Blackfriars Street – Loss of amenity and dangerous nature of street. This is as a consequence of Wiley Street being used by traffic wanting to access Wattle Street and general geometry and parking on the street.	This issue has been investigated further and proposals formulated to address this as indicated in Figure 6.4
4.	Myrtle Street	Concerned about the traffic in the western end of Myrtle Street.	Traffic volume and speed data obtained did not highlight any particular traffic issues in thi section of Myrtle Street.
5.	Shepherd Street	1. Times of parking restrictions in Shepherd Street are not practical. Should be 1P 8am-6pm, Mon-Sat.	All parking issues will be dealt with through separate study.
6.	Abercrombie Street	Opposed to Traffic Signals at the intersection of Abercrombie Street/Meagher Street due to potential queuing outside 106 Abercrombie Street and associated traffic noise and pollution.	It is envisaged that the traffic signals at this location could be co-ordinated with the Cleveland Street/Abercrombie Street traffic signals such that there would be minimal queuing on the Abercrombie Street approach this intersection.



Submission No	Street Address (If applicable)	Key Issues/Concerns	GTA Response
7.	Pine Street	In support of controlled pedestrian crossing on City Road at Myrtle Street but would like them made a priority in the implementation program.	1. The RTA has provided further information in relation to the proposal to provide a signal controlled crossing of City Road at Myrtle Street. They have indicated that there are proposals to implement bus lanes in both directions on City Road which would not allow an opportunity to provide a signalled pedestrian crossing as initially proposed due to capacity concerns.
		 Suggested that Pine Street was also a rat run and needed treatment. 	 Unfortunately not all streets could be surveyed. This would not be cost effective and the surveys which were undertaken provided a fairly good indication of traffic conditions in Chippendale which was sufficient for the study. If required Pine Street could be investigated further,
		3. Requested an update on progress with RTA.	3. Process for approval is firstly for approval in principle at the City of Sydney Traffic Committee and then for the preparation of more detailed plans for submission to the RTA for further assessment.
8.	Wiley Street	Stated that traffic measures were required in Wiley Street as it was part of a rat run.	Although Wiley Street is not part of a rat run as indicated by the very low traffic volumes recorded in this street (peak hour flows in the region of 50 vehicles/hour) further measures have been proposed to relieve some of the other traffic issues in Wiley Street.
9.	Moorgate Gardens	In full support of the measures proposed.	n/a
10.	Levy Street	Is not supportive of the raised threshold pedestrian crossing at Buckland Street/ Broadway intersection as the left turn into Buckland Street is already difficult with the car wash and buses queuing across it.	1. There needs to be a balance found here between the need to provide pedestrian safety in view of the very high pedestrian volumes and the likely delay that this might cause to traffic on Broadway. Moving the crossing off the pedestrian desire line (i.e. Further south on Buckland Street) would not achieve any pedestrian benefits.



8. Cost Estimates & Implementation Program

Cost estimates⁷ were determined from information provided in **Austroads Guide to Traffic Engineering Practice Part 10 - Local Area Traffic Management, 2004** and from rates obtained by GTA Consultants on previous projects.

The implementation program has been determined on the basis of priority⁸ and cost but also taking into consideration the approval processes required for some of the measures.

8.1 Cost Estimates

Table 8.1 provides a summary of estimated costs of the LATM proposals for Chippendale with a detailed costing provided in Appendix H. This estimate equates to an investment of approximately \$330,000 - \$346,000 per annum for the next four years.

It should be noted that this excludes the \$500,000 already allocated as part of the Chippendale Improvement Plan for the future Balfour Street Park and City Road pedestrian crossing.

⁷ All cost estimates prepared by GTA Consultants are for broad level or initial feasibility planning only and must not be relied upon for quoting, budgeting or construction purposes. You should seek a detailed cost estimate from a suitably qualified civil engineer or quantity surveyor.

⁸ Priority of the measures has been based primarily on traffic safety but consideration has also been given to the priority measures identified previously within the Chippendale Improvement Plan.



cost estimates & implementation program

Table 8.1: Summary of Cost Estimates

Tubic O.1.	John Lary of C	ost Estimates			
Item No.	Street	LATM Measure	Street Priority	ltems ⁹	Cost
1	Meagher Street	Regent Street/Meagher Street Intersection Upgraded; Meagher Street Traffic Calming; and Meagher Street/Abercrombie Street Intersection Upgrade.	1	1.1,1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8,	\$433,650
2	Buckland Street	Buckland Street Traffic Calming; and Buckland Street Footpath Widening.	2	2.1, 2.2, 2.3, 2.4, 2.5	\$413,750
3	Shepherd Street	Shepherd Street Traffic Calming	3	3.1,3.2	\$27,000
4	City Road/Myrtle Street	City Road/Myrtle Street Intersection Upgrade	3	4.1	\$35,000
5	Blackfriars Street	Blackfriars Street Traffic Calming	3	5.1, 5.2, 5.3	\$18,290
6	Wiley Street	Wiley Street Traffic Improvement	3	6.1, 6.2, 6.3	\$249,150
7	Other Treatments	Bicycle Routes Upgrade; Teggs Lane & Little Queen Street Shared Zone; Cleveland Street Shared Path; and Balfour street Lighting Upgrade	3	7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7	\$170,750
				Sub Total	\$1,364,290
				Contingency (15%)	\$204, 644
				Total	\$1,568,934
		Chippendale Improvement Pl	an Measure	es	
9	Balfour Street/ O'Connor Street	Balfour Street Closure (Future Open Space/Park)	n/a	8.1	\$500,000
				Total	\$500,000

8.2 Implementation Program

Table 8.2 provides an outline 4 year implementation program which Council could use as the basis for allocation of funding as and when it becomes available.

⁹ Details of these item numbers are provided in Appendix G.



cost estimates & implementation program

Table 8.1: Summary of Cost Estimates

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				Total	\$500,000

8.2 Implementation Program

Table 8.2 provides an outline 4 year implementation program which Council could use as the basis for allocation of funding as and when it becomes available.

⁹ Details of these item numbers are provided in Appendix G.



9. Conclusions

The key conclusions of this report are:

- The current traffic conditions in the streets of Chippendale are, on the whole, within acceptable standards;
- The scale and types of the LATM proposals developed within this report reflect the relatively low level of traffic issues identified;
- Formal pedestrian crossings could be installed at two of the three locations identified on the basis of the RTA Warrants and as discussed within this report to improve pedestrian safety;
- Traffic Signals should be installed at the intersection of Abercrombie Street/Myrtle
 Street/Meagher Street with the actual design subject to further discussion with the RTA and
 City of Sydney;
- There was general support from the community for the LATM treatments proposed for the Chippendale area;
- The Chippendale Community should be made aware of the most recent information received from the RTA in relation to the signal pedestrian crossing on City Road at Myrtle Street;
- The residents of O'Connor Street should also be made aware of subsequent measures proposed as a consequent of recent City of Sydney comments; and
- The LATM proposals developed should address the large majority of the remaining traffic issues identified and, if implemented, would result in further improvements to public amenity for the Chippendale Community.

appendix a

Appendix A

South Sydney Council – LATM Reference Note and Opportunities and Traffic Management Plans

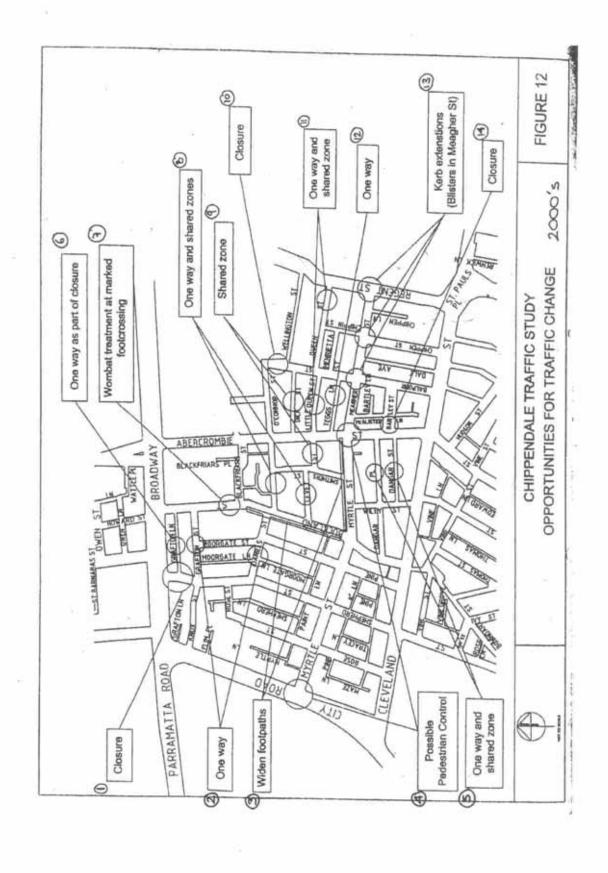
CHIPPENDALE LATM UPDATE

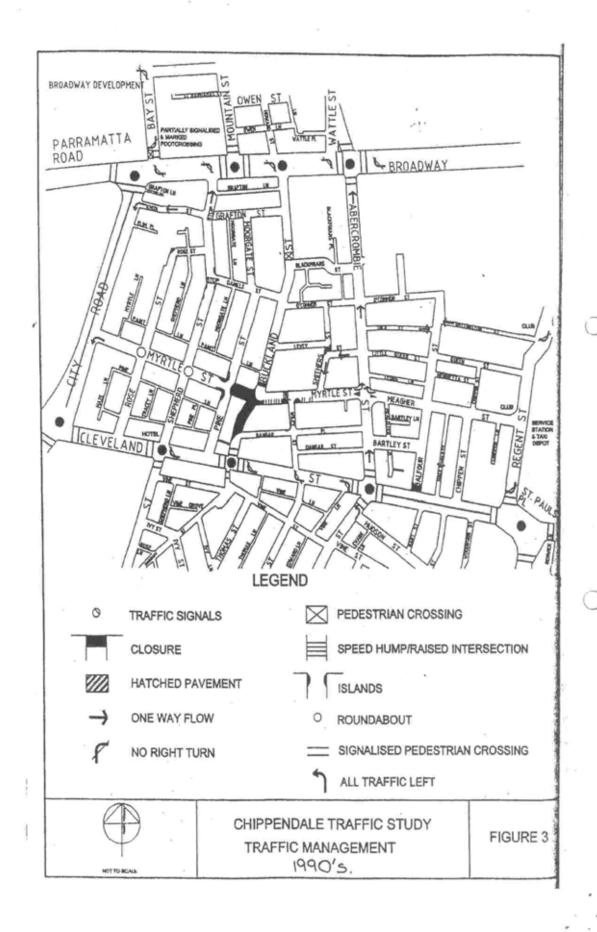
Refer to plan for Item locations:

- Shepherd Street, between Broadway and Grafton Lane, was closed with a new drainage system, garden beds, planted trees and decorative pavement within the closure area
- Residents did not show strong support for a One-way in either Graffon Street or Daniels Street so it was not carried out especially once the closure of Shepherd Street was implemented
- However the proposed footway widening of the western side of Buckland Street between Myrtle Street and Blackfriars Street has not been carried out Widened footpaths in Myrtle Street (between Buckland Street and Abercrombie Street) together with additional angle parking were completed. yet as the road width was not adequate.
- RTA refused pedestrian treatments (ie crossings or signals) at the intersection of Abercrombie and MyrdeMeagher Streets as the required warrants However a median island on Meagher St east of Abercrombie St was constructed and the median island on Myrtle St west of Abercrombie St was reconstructed with landscaping
- Residents did not show strong support for a One-way in either Dangar Street or Dangar Place so it was not carried out. Both streets contained new residential development sites under construction. 10
- 6 One -way in Grafton Lane was rejected by local Shop operators as it effected rear delivery operations.
- 7 Wombat treatment has not been carried out because the school was not operating.
- 8 Residents did not show strong support for Shared Zones in O'Connor Street and western part of Levey Street.
- traffic problems so further work was not carried out. However a Shared Zone in Dick St between Abercrombie St and Balfour St, was constructed with sandstone kerb and concrete gutter, reconstructed road pavement with coloured asphalt concrete, and three kerb side islands with landscaping Residents did not show strong support for Shared Zones in the eastern part of Levey Street. The existing one-way and mid-block closure reduced
- Proposed Balfour St closure between Dick St and O'Connor St was rejected by the former City of Sydney. A Shared Zone with a one-way was being considered as an alternative but investigations were not completed before boundary change. Effected by the C.U.B site 9
- Residents did not show strong support for Shared Zones and One-ways in Little Queen Street and Queen Street. RTA did not support proposed measures and so the matter was on hold prior to boundary change
- Residents did not show strong support for One-way in Teggs Lane (no evidence of use by short-cutting non-local traffic)
- manoeuvring problems. However as an atternative a roundabout and four kerb side islands was constructed at the intersection of Meagher St/Batfour St. (RTA still wanted Meagher Street available as a possible detour route for traffic going to Abercrombie Street if Cleveland Street was congested) RTA refused kerb extensions at the corners of Meagher Street with Balfour, Chippen and Regent Streets as they could cause congestion and
- Abercrombie Street and McAlister Lane, with footway widening and provision of parking, new kerb & gutter, landscaping, tree planting and laying 14 Resident rejected closure of Bartley Street at Abercrombie Street. However as an alternative Bartley Street was made one-way west between decorative pavers on footway
- 15 Additionally about ten kerbside islands with landscaping were constructed on the eastern side of Abercrombie Street, between Cleveland St and

T- abody

1





appendix b

Appendix B

Traffic Data (Intersection and Mid-Block Traffic Counts)



Intersection Traffic Counts

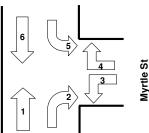
Site : Princes Hwy / Myrtle St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary

Prince Hwy



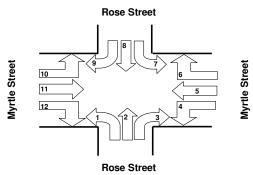
Princes Hwy

	Approach				Prince	s Hwy	у						Myrt	le St				Prince Hwy							
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total
	7:00 to 8:00	932	30	28	990	0	0	0	0	21	0	0	21	0	0	0	0	30	1	0	31	996	36	12	1044
ΑM	7:15 to 8:15	1006	39	36	1081	0	0	0	0	22	0	0	22	0	0	0	0	34	2	0	36	1033	45	12	1090
	7:30 to 8:30	1085	43	44	1172	0	0	0	0	20	0	0	20	0	0	0	0	32	3	0	35	1115	52	15	1182
Thursday	7:45 to 8:45	1111	39	48	1198	0	0	0	0	15	0	0	15	0	0	0	0	37	2	0	39	1165	60	19	1244
Ė	8:00 to 9:00	1242	43	55	1340	0	0	0	0	13	0	0	13	0	0	0	0	58	3	0	61	1268	73	21	1362
	AM Total	2174	73	83	2330	0	0	0	0	34	0	0	34	0	0	0	0	88	4	0	92	2264	109	33	2406
	16:00 to 17:00	1395	22	38	1455	0	0	0	0	28	0	0	28	0	0	0	0	65	1	0	66	1484	30	27	1541
Ā	16:15 to 17:15	1385	19	39	1443	0	0	0	0	31	0	0	31	0	0	0	0	70	1	0	71	1483	30	29	1542
day I	16:30 to 17:30	1388	18	32	1438	0	0	0	0	29	0	0	29	0	0	0	0	73	0	0	73	1564	29	29	1622
Thursday	16:45 to 17:45	1377	15	31	1423	0	0	0	0	28	0	0	28	0	0	0	0	67	0	0	67	1572	29	33	1634
F	17:00 to 18:00	1466	19	22	1507	0	0	0	0	32	0	0	32	0	0	0	0	77	0	0	77	1618	24	38	1680
	PM Total	2861	3	4	377	0	0	0	0	6	0	0	6	0	0	0	0	18	0	0	18	439	6	8	453
	12:00 to 13:00	1341	18	8	1367	0	0	0	0	30	0	0	30	0	0	0	0	44	0	0	44	1156	25	15	1196
WE	12:15 to 13:15	1371	16	7	1394	0	0	0	0	32	0	0	32	0	0	0	0	49	0	0	49	1213	25	16	1254
	12:30 to 13:30	1422	11	10	1443	0	0	0	0	27	0	0	27	0	0	0	0	54	0	0	54	1280	27	16	1323
Saturday	12:45 to 13:45	1418	9	11	1438	0	0	0	0	26	0	0	26	0	0	0	0	58	0	0	58	1262	24	17	1303
Ö	13:00 to 14:00	1356	8	14	1378	0	0	0	0	20	0	0	20	0	0	0	0	47	0	0	47	1224	22	16	1262
	Sat Total	2697	26	22	2745	0	0	0	0	50	0	0	50	0	0	0	0	91	0	0	91	2380	47	31	2458

Site : Rose St / Myrtle St

Day: Thu 8th & Sat 10th Feb 2007Description: Classified Intersection Count

: Hourly Summary





	Approach							Rose	Stree	t									ı	Myrtle	Stree	t					
	Direction			Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6		
	Time Period		Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	
	7:00 to	3:00	0	0	0	0	6	0	0	6	7	0	0	7	2	0	0	2	16	0	0	16	3	0	0	3	
Ψ	7:15 to	3:15	0	0	0	0	10	0	0	10	9	0	0	9	4	0	0	4	15	0	0	15	3	0	0	3	
	7:30 to	3:30	0	0	0	0	13	0	0	13	12	0	0	12	6	0	0	6	10	0	0	10	4	0	0	4	
Thursday	7:45 to	3:45	1	0	0	1	16	0	0	16	13	0	0	13	5	0	0	5	6	0	0	6	4	0	0	4	
F	8:00 to	9:00	1	0	0	1	15	0	0	15	13	1	0	14	5	0	0	5	4	0	0	4	4	0	0	4	
	AM Total		1	0	0	1	21	0	0	21	20	1	0	21	7	0	0	7	20	0	0	20	7	0	0	7	
	16:00 to 1	7:00	2	0	0	2	9	0	0	9	11	0	0	11	4	0	0	4	21	0	0	21	3	0	0	3	
PM	16:15 to 1	7:15	2	0	0	2	9	0	0	9	12	0	0	12	5	0	0	5	21	0	0	21	5	0	0	5	
sday	16:30 to 1	7:30	2	0	0	2	7	0	0	7	11	0	0	11	5	0	0	5	19	0	0	19	5	0	0	5	
Thurs	16:45 to 1	7:45	0	0	0	0	8	0	0	8	8	0	0	8	4	0	0	4	19	0	0	19	5	0	0	5	
-	17:00 to 18	3:00	0	0	0	0	8	0	0	8	2	0	0	2	4	0	0	4	24	0	0	24	4	0	0	4	
	PM Total		2	0	0	2	17	0	0	17	13	0	0	13	8	0	0	8	45	0	0	45	7	0	0	7	
	12:00 to 13	3:00	2	0	0	2	12	0	0	12	4	0	0	4	5	0	0	5	24	0	0	24	1	0	0	1	
WE	12:15 to 13	3:15	1	0	0	1	13	0	0	13	4	0	0	4	8	0	0	8	20	0	0	20	4	0	0	4	
	12:30 to 13	3:30	2	0	0	2	12	0	0	12	5	0	0	5	6	0	0	6	15	0	0	15	6	0	0	6	
Saturday	12:45 to 13	3:45	3	0	0	3	9	0	0	9	6	0	0	6	7	0	0	7	13	0	0	13	6	0	0	6	
ιχ	13:00 to 14	4:00	4	0	0	4	7	0	0	7	6	0	0	6	6	0	0	6	8	0	0	8	6	0	0	6	

10

19

	Approach		Rose Street														Myrtle Street													
	Direction	Direction 9				Direction 8				Direction 7				Direction 10				Direction 11				Direction 12								
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total					
	7:00 to 8:00	1	0	0	1	9	0	0	9	2	0	0	2	4	0	0	4	24	1	0	25	2	0	0	2					
AM	7:15 to 8:15	1	0	0	1	9	0	0	9	2	0	0	2	6	0	0	6	26	2	0	28	2	0	0	2					
day	7:30 to 8:30	1	0	0	1	9	0	0	9	2	0	0	2	5	0	0	5	25	3	0	28	2	0	0	2					
Thursday	7:45 to 8:45	2	0	0	2	6	0	0	6	3	0	0	3	4	0	0	4	31	2	0	33	2	0	0	2					
-	8:00 to 9:00	3	0	0	3	6	0	0	6	5	0	0	5	4	0	0	4	52	3	0	55	2	0	0	2					
	AM Total	4	0	0	4	15	0	0	15	7	0	0	7	8	0	0	8	76	4	0	80	4	0	0	4					
	16:00 to 17:00	3	0	0	3	12	0	0	12	2	0	0	2	3	0	0	3	60	1	0	61	2	0	0	2					
A	16:15 to 17:15	3	0	0	3	12	0	0	12	3	0	0	3	5	0	0	5	62	1	0	63	3	0	0	3					
sday	16:30 to 17:30	1	0	0	1	9	0	0	9	2	0	0	2	5	0	0	5	65	0	0	65	3	0	0	3					
Thursday PM	16:45 to 17:45	0	0	0	0	6	0	0	6	4	0	0	4	6	0	0	6	58	0	0	58	3	0	0	3					
_	17:00 to 18:00	1	0	0	1	5	0	0	5	3	0	0	3	6	0	0	6	68	0	0	68	3	0	0	3					
	PM Total	4	0	0	4	17	0	0	17	5	0	0	5	9	0	0	9	128	1	0	129	5	0	0	5					
	12:00 to 13:00	1	0	0	1	12	0	0	12	3	0	0	3	1	0	0	1	41	0	0	41	2	0	0	2					
WE	12:15 to 13:15	1	0	0	1	13	0	0	13	4	0	0	4	4	0	0	4	41	0	0	41	4	0	0	4					
day	12:30 to 13:30	0	0	0	0	12	0	0	12	6	0	0	6	7	0	0	7	43	0	0	43	4	0	0	4					
Saturday WE	12:45 to 13:45	2	0	0	2	11	0	0	11	4	0	0	4	8	0	0	8	45	0	0	45	5	0	0	5					
S	13:00 to 14:00	2	0	0	2	8	0	0	8	8	0	0	8	9	0	0	9	35	0	0	35	3	0	0	3					
	Sat Total	3	0	0	3	20	0	0	20	11	0	0	11	10	0	0	10	76	0	0	76	5	0	0	5					

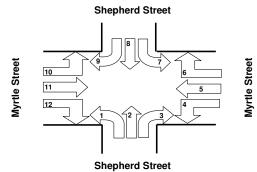
Sat Total

Site : Shepherd St and Myrtle St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary



21



	Approac	proach Shepherd Street													Myrtle Street													
	Direction		Direc	tion 1			Direction 2				Direc	tion 3		Direction 4					Direc	tion 5		Direction 6						
		Time Period		Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total		
	7:00 to	8:00	3	0	0	3	46	2	0	48	5	0	0	5	17	0	0	17	13	0	0	13	0	0	0	0		
Σ	7:15 to	8:15	3	0	0	3	50	2	0	52	7	0	0	7	16	0	0	16	14	0	0	14	0	0	0	0		
	7:30 to	8:30	5	0	0	5	54	2	0	56	9	0	0	9	17	0	0	17	11	0	0	11	1	0	0	1		
Thursday	7:45 to	8:45	5	0	0	5	57	3	0	60	11	0	0	11	18	0	0	18	9	0	0	9	2	0	0	2		
F	8:00 to	9:00	3	0	0	3	57	5	1	63	13	0	0	13	17	0	0	17	9	0	0	9	2	0	0	2		
	AM To	tal	6	0	0	6	103	7	1	111	18	0	0	18	34	0	0	34	22	0	0	22	2	0	0	2		
	16:00 to	17:00	1	0	0	1	19	0	0	19	4	0	0	4	8	0	0	8	10	0	0	10	2	0	0	2		
₽	16:15 to	17:15	2	0	0	2	22	1	0	23	5	0	0	5	10	0	0	10	13	0	0	13	2	0	0	2		
sday	16:30 to	17:30	3	0	0	3	23	1	0	24	6	0	0	6	8	0	0	8	10	0	0	10	1	0	0	1		
Thurs	16:45 to	17:45	2	0	0	2	27	1	0	28	6	0	0	6	9	0	0	9	5	0	0	5	2	0	0	2		
F	17:00 to	18:00	4	0	0	4	28	1	0	29	8	0	0	8	8	0	0	8	4	0	0	4	1	0	0	1		
	PM To	tal	5	0	0	5	47	1	0	48	12	0	0	12	16	0	0	16	14	0	0	14	3	0	0	3		
	12:00 to	13:00	11	0	0	11	29	0	0	29	5	0	0	5	10	0	0	10	1	0	0	1	2	0	0	2		
WE	12:15 to	13:15	14	0	0	14	28	0	0	28	6	0	0	6	13	0	0	13	5	0	0	5	2	0	0	2		
	12:30 to	13:30	16	0	0	16	30	0	0	30	5	0	0	5	12	0	0	12	6	0	0	6	1	0	0	1		
Saturday	12:45 to	13:45	14	0	0	14	29	0	0	29	4	0	0	4	12	0	0	12	8	0	0	8	1	0	0	1		
Š	13:00 to	14:00	13	0	0	13	26	0	0	26	3	0	0	3	11	0	0	11	10	0	0	10	0	0	0	0		

55

	Approach Shepherd Street													Myrtle Street													
	Direction		Direc	tion 9			Direction 8				Direction 7				Direction 10				Direct	ion 11		Direction 12					
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total		
	7:00 to 8:00	5	0	0	5	31	0	0	31	5	0	0	5	4	0	0	4	20	1	0	21	9	0	0	9		
AM	7:15 to 8:15	5	0	0	5	33	1	0	34	4	0	0	4	4	0	0	4	23	2	0	25	10	0	0	10		
	7:30 to 8:30	4	0	0	4	34	2	0	36	4	0	0	4	7	0	0	7	24	3	0	27	8	0	0	8		
Thursday	7:45 to 8:45	1	0	0	1	41	2	0	43	3	0	0	3	9	0	0	9	30	2	0	32	8	0	0	8		
-	8:00 to 9:00	1	0	0	1	44	2	0	46	2	0	0	2	12	0	0	12	52	4	0	56	6	0	0	6		
	AM Total	6	0	0	6	75	2	0	77	7	0	0	7	16	0	0	16	72	5	0	77	15	0	0	15		
	16:00 to 17:00	17	0	0	17	33	0	0	33	1	0	0	1	23	0	0	23	43	1	0	44	7	0	0	7		
Δ	16:15 to 17:15	16	0	0	16	45	0	0	45	1	0	0	1	22	0	0	22	47	1	0	48	8	0	0	8		
sday	16:30 to 17:30	16	0	0	16	43	0	0	43	3	0	0	3	21	0	0	21	51	0	0	51	6	0	0	6		
Thurs	16:45 to 17:45	21	0	0	21	51	0	0	51	6	0	0	6	19	0	0	19	43	0	0	43	8	0	0	8		
È	17:00 to 18:00	24	0	0	24	52	0	0	52	7	0	0	7	17	0	0	17	47	0	0	47	9	0	0	9		
	PM Total	41	0	0	41	85	0	0	85	8	0	0	8	40	0	0	40	90	1	0	91	16	0	0	16		
	12:00 to 13:00	12	0	0	12	32	0	0	32	6	0	0	6	8	0	0	8	23	0	0	23	15	0	0	15		
WE	12:15 to 13:15	10	0	0	10	35	0	0	35	5	1	0	6	14	0	0	14	21	0	0	21	12	0	0	12		
	12:30 to 13:30	9	0	0	9	42	0	0	42	3	1	0	4	21	0	0	21	20	0	0	20	10	0	0	10		
aturday	12:45 to 13:45	7	0	0	7	43	0	0	43	2	1	0	3	23	0	0	23	19	0	0	19	13	0	0	13		
Ss	13:00 to 14:00	10	0	0	10	48	0	0	48	4	1	0	5	21	0	0	21	13	0	0	13	14	0	0	14		
1	Sat Total	22	0	0	22	80	0	0	80	10	1	0	11	29	0	0	29	36	0	0	36	29	0	0	29		

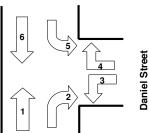
Site : Shepherd St and Daniels St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary

Sheperd Street



Sheperd Street

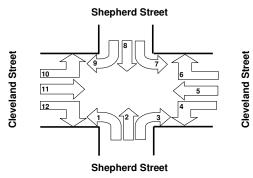
	Approach	Sheperd Street										[Daniel	Stree	et			Sheperd Street								
	Direction	Direction 1					Direction 2				Direction 3				Direc	tion 4			Direc	tion 5		Direction 6				
	Time Period		Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	
	7:00 to 8:00	18	2	0	20	35	0	0	35	9	0	0	9	4	0	0	4	8	0	0	8	22	0	0	22	
AM	7:15 to 8:15	14	2	0	16	40	0	0	40	8	0	0	8	2	1	0	3	7	1	0	8	18	1	0	19	
Thursday AM	7:30 to 8:30	14	2	0	16	44	0	0	44	10	0	0	10	1	1	0	2	10	1	0	11	21	2	0	23	
hurs	7:45 to 8:45	22	1	0	23	46	2	0	48	12	0	0	12	3	1	0	4	13	2	0	15	26	2	0	28	
-	8:00 to 9:00	21	3	1	25	47	2	0	49	10	0	0	10	6	1	0	7	11	2	0	13	31	2	0	33	
	AM Total	39	5	1	45	82	2	0	84	19	0	0	19	10	1	0	11	19	2	0	21	53	2	0	55	
	16:00 to 17:00	20	0	0	20	18	0	0	18	24	0	0	24	10	0	0	10	3	0	0	3	27	0	0	27	
PM	16:15 to 17:15	20	0	0	20	26	1	0	27	31	0	0	31	9	0	0	9	2	0	0	2	31	0	0	31	
sday	16:30 to 17:30	20	0	0	20	27	1	0	28	32	0	0	32	10	0	0	10	5	0	0	5	30	0	0	30	
Thursday PM	16:45 to 17:45	20	0	0	20	29	1	0	30	42	0	0	42	10	0	0	10	8	0	0	8	36	0	0	36	
1	17:00 to 18:00	26 46	0	0	26 4	29 6	0	0	30 6	45 7	0	0	45 7	8	0	0	8	10	0	0	10 3	38 10	0	0	38 10	
	PM Total	26	0	0	26	14	0	0	14	21	0	0	21	10	0	0	10	6	0	0	6	29	0	0	29	
	12:00 to 13:00	29	0	0	29	14	0	0	14	21	0	0	21	9	1	0	10	6	0	0	6	25	1	0	26	
Saturday WE	12:15 to 13:15	29	0	0	29	14	0	0	14	22	0	0	22	6	1	0	7	5	0	0	5	30	1	0	31	
urda	12:30 to 13:30 12:45 to 13:45	30	0	0	30	16	0	0	16	18	0	0	18	10	1	0	11	5	0	0	5	33	1	0	34	
Satı	12:45 to 13:45 13:00 to 14:00	29	0	0	29	18	0	0	18	20	0	0	20	7	1	0	8	3	0	0	3	40	1	0	41	
	Sat Total	55	0	0	55	32	0	0	32	41	0	0	41	17	1	0	18	9	0	0	9	69	1	0	70	

Site : Shepherd St and Cleveland St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary





	Approach					Sh	epher	rd Str	eet									Cle	evelar	nd Str	eet				
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	58	5	0	63	36	3	0	39	74	0	0	74	25	1	1	27	616	26	3	645	0	0	0	0
M	7:15 to 8:15	73	6	0	79	39	4	0	43	85	0	0	85	13	1	1	15	687	35	4	726	0	0	0	0
Thursday AM	7:30 to 8:30	82	5	0	87	36	6	0	42	90	1	0	91	9	1	1	11	702	36	3	741	0	0	0	0
hurs	7:45 to 8:45	97	4	0	101	38	10	0	48	86	2	0	88	9	0	0	9	797	35	3	835	0	0	0	0
-	8:00 to 9:00	102	2	0	104	41	11	0	52	89	2	0	91	8	0	0	8	805	40	4	849	0	0	0	0
	AM Total	160	7	0	167	77	14	0	91	163	2	0	165	33	1	1	35	1421	66	7	1494	0	0	0	0
	16:00 to 17:00	51	0	0	51	12	0	0	12	84	0	0	84	10	0	0	10	1187	25	4	1216	0	0	0	0
M	16:15 to 17:15	54	0	0	54	21	0	0	21	89	0	0	89	13	0	0	13	1185	23	3	1211	0	0	0	0
sday	16:30 to 17:30	59	0	0	59	24	0	0	24	93	0	0	93	17	0	0	17	1188	19	3	1210	0	0	0	0
Thursday PM	16:45 to 17:45	69	2	0	71	29	0	0	29	95	0	0	95	22	1	0	23	1176	26	3	1205	0	0	0	0
-	17:00 to 18:00	67	2	0	69	31	0	0	31	101	0	0	101	30	1	0	31	1152	26	2	1180	0	0	0	0
	PM Total	118	2	0	120	43	0	0	43	185	0	0	185	40	1	0	41	2339	51	6	2396	0	0	0	0
	12:00 to 13:00	22	0	0	22	39	0	0	39	73	1	0	74	11	1	0	12	1017	26	4	1047	0	0	0	0
WE	12:15 to 13:15	33	1	0	34	25	0	0	25	76	0	0	76	12	0	0	12	1005	25	6	1036	0	0	0	0
rday	12:30 to 13:30	45	1	0	46	24	0	0	24	86	0	0	86	16	0	0	16	989	18	3	1010	0	0	0	0
Saturday	12:45 to 13:45	54	1	0	55	25	0	0	25	91	0	0	91	14	0	0	14	932	19	3	954	0	0	0	0
3,	13:00 to 14:00	60	3	0	63	20	0	0	20	96	1	0	97	13	0	0	13	960	24	3	987	0	0	0	0
	Sat Total	82	3	0	85	59	0	0	59	169	2	0	171	24	1	0	25	1977	50	7	2034	0	0	0	0

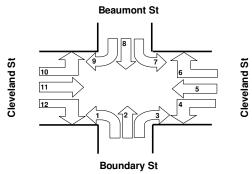
	Approach					Sh	ephei	rd Str	eet									Cle	evelar	nd Str	eet	•			
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total																				
	7:00 to 8:00	3	0	0	3	36	2	0	38	27	2	0	29	14	1	0	15	1138	48	0	1186	35	0	0	35
ΑM	7:15 to 8:15	3	0	0	3	41	1	0	42	27	3	0	30	14	1	0	15	1156	58	0	1214	33	0	0	33
day	7:30 to 8:30	6	0	0	6	42	0	0	42	24	3	0	27	21	0	0	21	1155	57	0	1212	38	0	0	38
Thursday	7:45 to 8:45	6	0	0	6	42	1	0	43	26	1	0	27	18	1	0	19	1149	53	1	1203	38	0	0	38
-	8:00 to 9:00	7	0	0	7	41	1	0	42	23	1	0	24	19	2	0	21	1129	58	2	1189	41	0	0	41
	AM Total	10	0	0	10	77	3	0	80	50	3	0	53	33	3	0	36	2267	106	2	2375	76	0	0	76
	16:00 to 17:00	6	0	0	6	21	0	0	21	17	1	0	18	17	0	0	17	1000	22	8	1030	35	0	0	35
Σd	16:15 to 17:15	5	0	0	5	23	0	0	23	19	1	0	20	17	1	0	18	987	19	5	1011	33	0	0	33
	16:30 to 17:30	6	0	0	6	32	0	0	32	15	0	0	15	18	1	0	19	982	19	5	1006	31	0	0	31
Thursday	16:45 to 17:45	5	0	0	5	46	0	0	46	14	0	0	14	22	1	0	23	983	17	5	1005	33	0	0	33
F	17:00 to 18:00	5	0	0	5	54	0	0	54	15	0	0	15	19	1	0	20	991	18	5	1014	30	0	0	30
	PM Total	11	0	0	11	75	0	0	75	32	1	0	33	36	1	0	37	1991	40	13	2044	65	0	0	65
	12:00 to 13:00	11	1	0	12	24	0	0	24	17	0	0	17	20	0	0	20	1182	19	5	1206	58	0	0	58
VE	12:15 to 13:15	14	0	0	14	30	0	0	30	14	0	0	14	23	0	0	23	1204	19	4	1227	71	1	0	72
Saturday WE	12:30 to 13:30	19	0	0	19	33	0	0	33	16	0	0	16	25	0	0	25	1175	15	4	1194	85	1	1	87
atr.c	12:45 to 13:45	19	0	0	19	33	0	0	33	13	0	0	13	28	0	0	28	1126	15	1	1142	82	1	1	84
Š	13:00 to 14:00	21	0	0	21	38	0	0	38	17	0	0	17	22	0	0	22	1158	14	0	1172	75	1	1	77
	Sat Total	32	1	0	33	62	0	0	62	34	0	0	34	42	0	0	42	2340	33	5	2378	133	1	1	135

Site : Cleveland St and Beaumont St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary





	Approach							Bound	lary S	t									C	Clevel	and S	it				
	Direction			Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period		Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total																
	7:00 to 8	3:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	610	30	4	644	6	1	0	7
Σ	7:15 to 8	3:15	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	2	667	36	5	708	6	1	0	7
	7:30 to	3:30	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	1	728	44	3	775	3	1	0	4
Thursday	7:45 to 8	3:45	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	1	796	50	2	848	0	0	0	0
-	8:00 to	9:00	0	0	0	0	2	0	0	2	0	0	0	0	2	0	0	2	818	51	1	870	0	0	0	0
	AM Total		0	0	0	0	2	0	0	2	0	0	0	0	3	0	0	3	1428	81	5	1514	6	1	0	7
	16:00 to 1	7:00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1146	79	9	1234	0	0	0	0
₹	16:15 to 1	7:15	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1104	65	8	1177	0	0	0	0
sday	16:30 to 1	7:30	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	2	1088	60	7	1155	0	0	0	0
Thursday	16:45 to 1	7:45	0	0	0	0	1	0	0	1	0	0	0	0	3	0	0	3	1146	62	6	1214	0	0	0	0
-	17:00 to 18	3:00	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	2	1177	62	3	1242	0	0	0	0
	PM Total		0	0	0	0	1	0	0	1	0	0	0	0	4	0	0	4	2323	141	12	2476	0	0	0	0
	12:00 to 13	3:00	0	0	0	0	0	0	0	0	1	0	0	1	3	0	0	3	1055	19	3	1077	0	0	0	0
WE	12:15 to 13	3:15	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	2	1034	19	3	1056	0	1	0	1
	12:30 to 13	3:30	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	2	1096	14	3	1113	0	1	0	1
Saturday	12:45 to 13	3:45	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1095	15	2	1112	1	1	0	2
S	13:00 to 14	4:00	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1072	15	2	1089	2	1	0	3

	Approach					E	Beaum	ont S	t									(Clevel	and S	it				
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total												
	7:00 to 8:00	16	0	0	16	0	2	0	2	10	0	0	10	28	0	0	28	1190	84	0	1274	2	0	0	2
AM	7:15 to 8:15	12	0	0	12	2	2	0	4	9	0	0	9	28	0	0	28	1234	96	1	1331	2	0	0	2
day	7:30 to 8:30	9	0	0	9	3	1	0	4	6	0	0	6	40	1	0	41	1302	95	1	1398	2	0	0	2
Thursday	7:45 to 8:45	5	0	0	5	4	1	0	5	4	0	0	4	41	1	0	42	1264	90	1	1355	3	0	0	3
-	8:00 to 9:00	2	0	0	2	4	0	0	4	5	0	0	5	38	1	0	39	1214	99	2	1315	2	0	0	2
	AM Total	18	0	0	18	4	2	0	6	15	0	0	15	66	1	0	67	2404	183	2	2589	4	0	0	4
	16:00 to 17:00	14	0	0	14	1	0	0	1	5	0	0	5	14	1	0	15	1080	56	6	1142	2	0	0	2
PM	16:15 to 17:15	11	0	0	11	1	0	0	1	5	0	0	5	13	0	0	13	1041	50	3	1094	3	0	0	3
day	16:30 to 17:30	12	0	0	12	1	0	0	1	4	0	0	4	14	0	0	14	1100	47	3	1150	2	0	0	2
Thursday	16:45 to 17:45	10	0	0	10	2	0	0	2	6	0	0	6	14	0	0	14	1113	43	4	1160	3	0	0	3
-	17:00 to 18:00	9	0	0	9	2	0	0	2	6	0	0	6	16	0	0	16	1117	44	5	1166	2	0	0	2
	PM Total	23	0	0	23	3	0	0	3	11	0	0	11	30	1	0	31	2197	100	11	2308	4	0	0	4
	12:00 to 13:00	6	0	0	6	1	0	0	1	0	0	0	0	3	0	0	3	1288	25	0	1313	1	0	0	1
ΝE	12:15 to 13:15	4	0	0	4	1	0	0	1	0	0	0	0	4	0	0	4	1306	21	0	1327	2	0	0	2
day \	12:30 to 13:30	4	0	0	4	2	0	0	2	1	0	0	1	4	0	0	4	1301	16	0	1317	4	0	0	4
Saturday WE	12:45 to 13:45	3	0	0	3	2	0	0	2	3	0	0	3	5	0	0	5	1298	16	0	1314	4	0	0	4
Ö	13:00 to 14:00	6	0	0	6	3	0	0	3	3	0	0	3	7	0	0	7	1270	16	0	1286	3	0	0	3
	Sat Total	12	0	0	12	4	0	0	4	3	0	0	3	10	0	0	10	2558	41	0	2599	4	0	0	4

Site : Cleveland St and Abercrombie St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary

Abercrombie St

Abercrombie St

Abercrombie St

Abercrombie St



Cleveland St

	Approach					Ak	ercro	mbie	St									(Clevel	and S	t				
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total												
	7:00 to 8:00	27	0	0	27	0	0	0	0	0	0	0	0	20	0	0	20	605	21	4	630	1154	38	10	1202
ΑM	7:15 to 8:15	26	0	0	26	0	0	0	0	0	0	0	0	23	0	0	23	656	23	4	683	1290	32	7	1329
	7:30 to 8:30	29	0	0	29	0	0	0	0	0	0	0	0	26	0	0	26	713	30	3	746	1384	35	6	1425
Thursday	7:45 to 8:45	43	0	0	43	0	0	0	0	0	0	0	0	34	0	0	34	764	27	4	795	1427	35	4	1466
-	8:00 to 9:00	44	0	0	44	0	0	0	0	0	0	0	0	38	0	0	38	792	32	4	828	1448	47	2	1497
	AM Total	71	0	0	71	0	0	0	0	0	0	0	0	58	0	0	58	1397	53	8	1458	2602	85	12	2699
	16:00 to 17:00	65	0	0	65	0	0	0	0	0	0	0	0	24	0	0	24	1130	11	3	1144	1204	21	0	1225
₽	16:15 to 17:15	67	0	0	67	0	0	0	0	0	0	0	0	28	0	0	28	1138	8	3	1149	1289	14	1	1304
	16:30 to 17:30	85	0	0	85	0	0	0	0	0	0	0	0	30	0	0	30	1167	10	3	1180	1344	13	1	1358
Thursday	16:45 to 17:45	87	0	0	87	0	0	0	0	0	0	0	0	30	0	0	30	1181	13	2	1196	1410	11	1	1422
F	17:00 to 18:00	90	0	0	90	0	0	0	0	0	0	0	0	32	0	0	32	1152	13	0	1165	1442	10	1	1453
	PM Total	155	0	0	155	0	0	0	0	0	0	0	0	56	0	0	56	2282	24	3	2309	2646	31	1	2678
	12:00 to 13:00	75	0	0	75	0	0	0	0	0	0	0	0	17	0	0	17	985	26	3	1014	1108	38	2	1148
WE	12:15 to 13:15	88	0	0	88	0	0	0	0	0	0	0	0	17	0	0	17	1060	22	4	1086	1161	31	0	1192
lay V	12:30 to 13:30	93	0	0	93	0	0	0	0	0	0	0	0	18	0	0	18	1019	19	2	1040	1118	27	0	1145
Saturday	12:45 to 13:45	100	0	0	100	0	0	0	0	0	0	0	0	19	0	0	19	1064	18	1	1083	1195	26	0	1221
Š	13:00 to 14:00	101	1	0	102	0	0	0	0	0	0	0	0	21	0	0	21	1027	20	1	1048	1150	24	0	1174
I	Cet Tetal	176	1	0	177	0	0	0	0	n	n	0	0	38	Λ	n	38	2012	46	4	2062	2258	62	2	2322

	Approach					Al	oercro	mbie	St									(Clevel	and S	it				
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	0	0	0	0	0	0	0	0	0	0	0	0	106	2	0	108	1183	44	0	1227	0	0	0	0
Ψ	7:15 to 8:15	0	0	0	0	0	0	0	0	0	0	0	0	119	2	0	121	1208	40	1	1249	0	0	0	0
sday	7:30 to 8:30	0	0	0	0	0	0	0	0	0	0	0	0	125	1	0	126	1234	46	2	1282	0	0	0	0
Thursday	7:45 to 8:45	0	0	0	0	0	0	0	0	0	0	0	0	127	1	0	128	1258	46	3	1307	0	0	0	0
-	8:00 to 9:00	0	0	0	0	0	0	0	0	0	0	0	0	106	4	0	110	1207	46	4	1257	0	0	0	0
	AM Total	0	0	0	0	0	0	0	0	0	0	0	0	212	6	0	218	2390	90	4	2484	0	0	0	0
	16:00 to 17:00	0	0	0	0	0	0	0	0	0	0	0	0	89	3	0	92	1033	23	8	1064	0	0	0	0
Σ	16:15 to 17:15	0	0	0	0	0	0	0	0	0	0	0	0	94	3	0	97	1063	26	6	1095	0	0	0	0
day	16:30 to 17:30	0	0	0	0	0	0	0	0	0	0	0	0	89	2	0	91	1114	24	5	1143	0	0	0	0
Thursday	16:45 to 17:45	0	0	0	0	0	0	0	0	0	0	0	0	97	2	0	99	1093	21	3	1117	0	0	0	0
-	17:00 to 18:00	0	0	0	0	0	0	0	0	0	0	0	0	95	1	0	96	1078	20	2	1100	0	0	0	0
	PM Total	0	0	0	0	0	0	0	0	0	0	0	0	184	4	0	188	2111	43	10	2164	0	0	0	0
	12:00 to 13:00	0	0	0	0	0	0	0	0	0	0	0	0	82	0	0	82	1177	22	2	1201	0	0	0	0
ΝĒ	12:15 to 13:15	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	90	1221	17	1	1239	0	0	0	0
day \	12:30 to 13:30	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0	88	1144	14	0	1158	0	0	0	0
Saturday WE	12:45 to 13:45	0	0	0	0	0	0	0	0	0	0	0	0	86	0	0	86	1179	16	0	1195	0	0	0	0
Ö	13:00 to 14:00	0	0	0	0	0	0	0	0	0	0	0	0	76	0	0	76	1199	14	1	1214	0	0	0	0
	Sat Total	0	0	0	0	0	0	0	0	0	0	0	0	158	0	0	158	2376	36	3	2415	0	0	0	0

Sat Total

1376

1426 1409

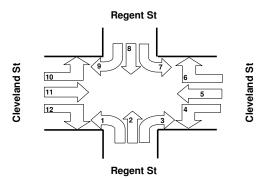
14 **1446**

Site : Cleveland St and Regent St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary



83 2462

2485 0



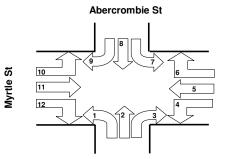
	Approach						Rege	nt St										(Clevel	and S	it				
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	Buses	Total																				
	7:00 to 8:00	742	48	8	798	929	24	45	998	0	0	0	0	42	0	0	42	1005	26	4	1035	0	0	0	0
Α	7:15 to 8:15	789	47	6	842	1036	24	44	1104	0	0	0	0	54	0	0	54	1084	26	4	1114	0	0	0	0
	7:30 to 8:30		50	4	901	1083	21	42	1146	0	0	0	0	84	1	0	85	1231	16	3	1250	0	0	0	0
Thursday	7:45 to 8:45	816	48	5	869	1142	19	45	1206	0	0	0	0	93	2	0	95	1399	13	3	1415	0	0	0	0
-	8:00 to 9:00		49	4	955	1176	20	43	1239	0	0	0	0	113	2	0	115	1370	18	5	1393	0	0	0	0
<u> </u>	AM Total	1644	97	12	1753	2105	44	88	2237	0	0	0	0	155	2	0	157	2375	44	9	2428	0	0	0	0
	16:00 to 17:00	872	17	1	890	796	13	40	849	0	0	0	0	97	4	1	102	1412	17	3	1432	0	0	0	0
P	16:15 to 17:15	953	10	1	964	884	17	35	936	0	0	0	0	87	4	1	92	1470	16	3	1489	0	0	0	0
sday	16:30 to 17:30	992	10	0	1002	877	12	29	918	0	0	0	0	84	3	1	88	1569	14	4	1587	0	0	0	0
Į Š	16:45 to 17:45		8	0	1004	872	10	31	913	0	0	0	0	77	2	1	80	1516	16	4	1536	0	0	0	0
-	17:00 to 18:00		9	0	1042	921	8	31	960	0	0	0	0	86	1	0	87	1565	11	2	1578	0	0	0	0
<u> </u>	PM Total	1905	26	1	1932	1717	21	71	1809	0	0	0	0	183	5	1	189	2977	28	5	3010	0	0	0	0
	12:00 to 13:00	716	23	10	749	723	8	6	737	0	0	0	0	50	0	0	50	1381	8	7	1396	0	0	0	0
WE	12:15 to 13:15	703	22	6	731	738	14	7	759	0	0	0	0	47	0	0	47	1345	7	6	1358	0	0	0	0
	12:30 to 13:30	717	25	5	747	724	18	8	750	0	0	0	0	44	0	0	44	1294	9	4	1307	0	0	0	0
Saturday	12:45 to 13:45	669	20	5	694	702	16	9	727	0	0	0	0	36	0	0	36	1194	8	2	1204	0	0	0	0
S	13:00 to 14:00	660	14	3	677	686	15	8	709	0	0	0	0	33	0	0	33	1081	7	1	1089	0	0	0	0

	Approach						Rege	nt St										(Clevel	and S	it				
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total
	7:00 to 8:00	0	0	0	0	955	48	13	1016	181	7	6	194	29	1	0	30	827	23	2	852	303	19	0	322
AM	7:15 to 8:15	0	0	0	0	1007	46	20	1073	195	9	9	213	23	0	0	23	878	20	3	901	323	24	0	347
	7:30 to 8:30	0	0	0	0	1096	51	23	1170	210	10	9	229	12	0	0	12	921	21	2	944	334	24	0	358
Thursday	7:45 to 8:45	0	0	0	0	1069	55	27	1151	239	13	11	263	8	0	0	8	907	19	2	928	341	24	0	365
-	8:00 to 9:00	0	0	0	0	1052	56	26	1134	269	15	10	294	8	0	0	8	958	22	2	982	342	23	0	365
	AM Total	0	0	0	0	2007	104	39	2150	450	22	16	488	37	1	0	38	1785	45	4	1834	645	42	0	687
	16:00 to 17:00	0	0	0	0	1259	39	17	1315	266	6	3	275	19	0	0	19	810	6	4	820	231	9	2	242
ĕ	16:15 to 17:15	0	0	0	0	1417	37	20	1474	286	7	2	295	23	0	0	23	837	7	3	847	245	8	1	254
day	16:30 to 17:30	0	0	0	0	1396	23	19	1438	307	8	1	316	26	0	0	26	844	6	3	853	251	5	0	256
Thursday	16:45 to 17:45	0	0	0	0	1452	22	20	1494	337	6	1	344	27	0	0	27	845	7	3	855	238	2	0	240
-	17:00 to 18:00	0	0	0	0	1572	16	22	1610	374	6	0	380	27	0	0	27	836	10	4	850	214	2	0	216
	PM Total	0	0	0	0	2831	55	39	2925	640	12	3	655	46	0	0	46	1646	16	8	1670	445	11	2	458
	12:00 to 13:00	0	0	0	0	837	30	17	884	403	4	2	409	24	0	0	24	881	9	3	893	282	3	3	288
ΝE	12:15 to 13:15	0	0	0	0	821	23	20	864	411	6	3	420	21	0	0	21	886	11	2	899	269	2	3	274
Saturday WE	12:30 to 13:30	0	0	0	0	857	21	20	898	390	7	2	399	28	0	0	28	915	11	2	928	263	4	3	270
atric	12:45 to 13:45	0	0	0	0	851	23	13	887	389	4	1	394	24	0	0	24	896	9	1	906	259	4	1	264
Ö	13:00 to 14:00	0	0	0	0	886	20	14	920	359	3	1	363	20	0	0	20	900	9	2	911	268	5	0	273
	Sat Total	0	0	0	0	1723	50	31	1804	762	7	3	772	44	0	0	44	1781	18	5	1804	550	8	3	561

Site : Abercrombie St/Myrtle St and Meagher St

Day : Thu 8th & Sat 10th Feb 2007 Description : Classified Intersection Count

: Hourly Summary





Meagher St Abercrombie St

	Approac	ch					Ak	ercro	mbie	St										Meag	her S	t				
	Directio	n		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Tim Perio	-	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total												
	7:00 to	8:00	14	1	0	15	1224	55	10	1289	18	1	0	19	0	0	0	0	21	6	0	27	86	4	0	90
AM	7:15 to	8:15	19	1	0	20	1326	58	7	1391	27	2	0	29	0	0	0	0	17	3	0	20	103	4	0	107
	7:30 to	8:30	23	1	0	24	1408	65	6	1479	35	2	0	37	0	0	0	0	13	1	0	14	127	3	0	130
Thursday	7:45 to	8:45	34	1	0	35	1452	72	5	1529	48	3	0	51	0	0	0	0	15	1	0	16	132	0	0	132
Ė	8:00 to	9:00	37	1	0	38	1438	78	2	1518	52	2	0	54	0	0	0	0	13	2	1	16	138	2	0	140
	AM To	tal	51	2	0	53	2662	133	12	2807	70	3	0	73	0	0	0	0	34	8	1	43	224	6	0	230
	16:00 to	17:00	24	1	0	25	1254	25	2	1281	41	2	0	43	0	0	0	0	29	0	0	29	202	1	0	203
M	16:15 to	17:15	24	1	0	25	1357	23	3	1383	30	2	0	32	0	0	0	0	26	0	0	26	198	1	0	199
sday	16:30 to	17:30	33	0	0	33	1441	20	2	1463	28	1	0	29	0	0	0	0	20	0	0	20	202	0	0	202
Thurs	16:45 to	17:45	37	0	0	37	1497	18	1	1516	24	1	1	26	0	0	0	0	18	0	0	18	205	0	0	205
F	17:00 to	18:00	35	0	0	35	1527	14	1	1542	25	0	1	26	0	0	0	0	16	0	0	16	213	0	0	213
	PM To	tal	59	1	0	60	2781	39	3	2823	66	2	1	69	0	0	0	0	45	0	0	45	415	1	0	416
	12:00 to	13:00	13	0	0	13	1164	17	7	1188	27	0	0	27	0	0	0	0	3	0	0	3	73	0	0	73
WE	12:15 to	13:15	14	0	0	14	1172	19	4	1195	28	0	0	28	0	0	0	0	6	0	0	6	82	0	0	82
	12:30 to	13:30	18	0	0	18	1215	18	4	1237	36	0	0	36	0	0	0	0	7	0	0	7	78	0	0	78
Saturday	12:45 to	13:45	27	0	0	27	1223	22	6	1251	34	0	0	34	0	0	0	0	7	0	0	7	82	0	0	82
ιÿ	13:00 to	14:00	31	0	0	31	1192	22	4	1218	33	0	0	33	0	0	0	0	6	0	0	6	71	0	0	71
	Sat To	otal	44	0	0	44	2356	39	11	2406	60	0	0	60	0	0	0	0	9	0	0	9	144	0	0	144

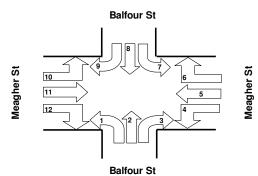
	Approach					Al	ercro	mbie	St										Myrt	le St					
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10)		Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total																				
	7:00 to 8:00	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	48	15	4	0	19	0	0	0	0
AM	7:15 to 8:15	0	0	0	0	0	0	0	0	0	0	0	0	52	1	1	54	15	2	0	17	0	0	0	0
	7:30 to 8:30	0	0	0	0	0	0	0	0	0	0	0	0	64	1	1	66	16	1	0	17	0	0	0	0
Thursday	7:45 to 8:45	0	0	0	0	0	0	0	0	0	0	0	0	64	1	1	66	15	1	0	16	0	0	0	0
F	8:00 to 9:00	0	0	0	0	0	0	0	0	0	0	0	0	73	1	1	75	13	1	0	14	0	0	0	0
	AM Total	0	0	0	0	0	0	0	0	0	0	0	0	121	1	1	123	28	5	0	33	0	0	0	0
	16:00 to 17:00	0	0	0	0	0	0	0	0	0	0	0	0	38	1	0	39	16	2	0	18	0	0	0	0
Σ	16:15 to 17:15	0	0	0	0	0	0	0	0	0	0	0	0	43	1	0	44	16	2	0	18	0	0	0	0
sday	16:30 to 17:30	0	0	0	0	0	0	0	0	0	0	0	0	42	1	0	43	14	1	0	15	0	0	0	0
Thurs	16:45 to 17:45	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	42	14	1	0	15	0	0	0	0
F	17:00 to 18:00	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	46	13	1	0	14	0	0	0	0
	PM Total	0	0	0	0	0	0	0	0	0	0	0	0	84	1	0	85	29	3	0	32	0	0	0	0
	12:00 to 13:00	0	0	0	0	0	0	0	0	0	0	0	0	22	1	0	23	5	0	0	5	0	0	0	0
WE	12:15 to 13:15	0	0	0	0	0	0	0	0	0	0	0	0	21	1	0	22	5	0	0	5	0	0	0	0
	12:30 to 13:30	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	3	0	0	3	0	0	0	0
aturday	12:45 to 13:45	0	0	0	0	0	0	0	0	0	0	0	0	22	1	0	23	6	0	0	6	0	0	0	0
Š	13:00 to 14:00	0	0	0	0	0	0	0	0	0	0	0	0	20	1	0	21	5	0	0	5	0	0	0	0
	Sat Total	0	0	0	0	0	0	0	0	0	0	0	0	42	2	0	44	10	0	0	10	0	0	0	0

Site : Balfour St and Meagher St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary



10

144

10



	Approach							Balfo	ur St											Meag	her S	t				
	Direction			Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period		Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
	7:00 to 8	3:00	0	0	0	0	1	0	0	1	4	0	0	4	11	0	0	11	103	10	0	113	7	0	1	8
Α	7:15 to 8	3:15	0	0	0	0	0	0	0	0	4	0	0	4	10	0	0	10	119	5	0	124	9	0	1	10
	7:30 to 8	3:30	0	0	0	0	0	0	0	0	3	0	0	3	14	0	0	14	138	4	0	142	14	0	1	15
Thursday	7:45 to 8	3:45	1	0	0	1	0	0	0	0	2	0	0	2	15	0	0	15	145	1	0	146	16	0	1	17
F	8:00 to 9	9:00	1	0	0	1	0	0	0	0	2	0	0	2	19	0	0	19	148	4	1	153	23	0	0	23
	AM Total		1	0	0	1	1	0	0	1	6	0	0	6	30	0	0	30	251	14	1	266	30	0	1	31
	16:00 to 17	:00	5	0	0	5	2	0	0	2	5	0	0	5	10	0	0	10	219	1	0	220	7	0	0	7
ĕ	16:15 to 17	1:15	3	0	0	3	1	0	0	1	4	0	0	4	9	0	0	9	214	1	0	215	7	0	0	7
sday	16:30 to 17	7:30	2	0	0	2	1	0	0	1	7	0	0	7	8	0	0	8	212	0	0	212	8	0	0	8
Thurs	16:45 to 17	7:45	3	0	0	3	1	0	0	1	9	0	0	9	8	0	0	8	219	0	0	219	10	0	0	10
-	17:00 to 18	3:00	3	0	0	3	1	0	0	1	10	0	0	10	8	0	0	8	216	0	0	216	12	0	0	12
	PM Total	4	8	0	0	8	3	0	0	3	15	0	0	15	18	0	0	18	435	1	0	436	19	0	0	19
	12:00 to 13	3:00	5	0	0	5	3	0	0	3	2	0	0	2	3	0	0	3	73	0	0	73	4	0	0	4
WE	12:15 to 13	3:15	3	0	0	3	2	0	0	2	3	0	0	3	3	0	0	3	82	0	0	82	4	0	0	4
	12:30 to 13	3:30	3	0	0	3	1	0	0	1	3	0	0	3	5	0	0	5	81	0	0	81	9	0	0	9
Saturday	12:45 to 13	3:45	1	0	0	1	1	0	0	1	3	0	0	3	7	0	0	7	75	0	0	75	7	0	0	7
ιÿ	13:00 to 14	1:00	1	0	0	1	1	0	0	1	4	0	0	4	7	0	0	7	71	0	0	71	5	1	0	6

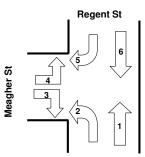
	Approach						Balfo	ur St											Meag	her S	i				
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total																				
	7:00 to 8:00	4	0	0	4	0	0	0	0	10	4	0	14	3	1	0	4	29	3	0	32	2	0	0	2
Ψ	7:15 to 8:15	3	0	0	3	1	0	0	1	11	4	0	15	7	0	0	7	32	4	0	36	3	0	0	3
	7:30 to 8:30	1	0	0	1	1	0	0	1	13	1	0	14	11	0	0	11	41	3	0	44	2	0	0	2
Thursday	7:45 to 8:45	1	0	0	1	2	0	0	2	13	0	0	13	13	0	0	13	45	4	0	49	5	0	0	5
-	8:00 to 9:00	2	0	0	2	3	0	0	3	14	0	0	14	16	0	0	16	41	4	0	45	7	0	0	7
	AM Total	6	0	0	6	3	0	0	3	24	4	0	28	19	1	0	20	70	7	0	77	9	0	0	9
	16:00 to 17:00	7	0	0	7	4	0	0	4	16	1	0	17	9	1	0	10	34	3	0	37	14	0	0	14
Σ	16:15 to 17:15	9	0	0	9	5	0	0	5	24	2	0	26	6	1	0	7	30	3	0	33	10	0	0	10
	16:30 to 17:30	8	0	0	8	5	0	0	5	29	2	0	31	7	1	0	8	28	1	0	29	8	0	0	8
Thursday	16:45 to 17:45	8	0	0	8	4	0	0	4	34	1	0	35	5	1	0	6	27	0	0	27	7	1	0	8
-	17:00 to 18:00	10	0	0	10	4	0	0	4	36	1	0	37	5	0	0	5	31	0	0	31	2	1	0	3
	PM Total	17	0	0	17	8	0	0	8	52	2	0	54	14	1	0	15	65	3	0	68	16	1	0	17
	12:00 to 13:00	2	0	0	2	4	0	0	4	14	0	0	14	9	0	0	9	27	0	0	27	5	0	0	5
ΝE	12:15 to 13:15	2	0	0	2	4	0	0	4	14	0	0	14	9	0	0	9	25	0	0	25	4	0	0	4
day \	12:30 to 13:30	2	0	0	2	2	0	0	2	15	1	0	16	6	0	0	6	26	0	0	26	5	0	0	5
Saturday WE	12:45 to 13:45	3	0	0	3	1	0	0	1	12	1	0	13	6	0	0	6	27	0	0	27	6	0	0	6
Ö	13:00 to 14:00	3	1	0	4	1	0	0	1	12	1	0	13	6	0	0	6	27	0	0	27	5	0	0	5
	Sat Total	5	1	0	6	5	0	0	5	26	1	0	27	15	0	0	15	54	0	0	54	10	0	0	10

Site : Regent St and Meagher St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary





Regent St

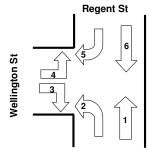
	Approach				Rege	nt St							Meag	her St	i						Rege	ent St			
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	826	42	51	919	76	3	0	79	9	1	0	10	19	1	0	20	53	4	0	57	1140	48	14	1202
ΑM	7:15 to 8:15	886	43	60	989	94	3	0	97	12	2	0	14	23	1	0	24	55	4	0	59	1187	50	19	1256
day	7:30 to 8:30	984	38	56	1078	103	4	0	107	14	3	0	17	27	0	0	27	63	4	0	67	1236	59	28	1323
Thursday	7:45 to 8:45	1030	41	49	1120	108	1	0	109	14	3	0	17	28	0	0	28	64	3	0	67	1262	63	36	1361
-	8:00 to 9:00	1024	38	50	1112	114	3	0	117	14	3	0	17	31	0	0	31	64	0	0	64	1302	65	38	1405
	AM Totals	1850	80	101	2031	190	6	0	196	23	4	0	27	50	1	0	51	117	4	0	121	2442	113	52	2607
	16:00 to 17:00	633	13	39	685	165	8	1	174	15	3	0	18	10	1	0	11	54	2	1	57	1533	54	19	1606
Σ	16:15 to 17:15	674	17	32	723	176	7	1	184	21	3	0	24	9	1	0	10	57	1	1	59	1590	43	18	1651
day	16:30 to 17:30	747	16	31	794	184	1	1	186	22	3	0	25	14	0	0	14	51	1	0	52	1675	33	18	1726
Thurs	16:45 to 17:45	763	15	29	807	182	1	1	184	24	1	0	25	15	0	0	15	58	1	0	59	1754	28	19	1801
F	17:00 to 18:00	804	11	33	848	172	1	1	174	29	1	0	30	22	0	0	22	63	1	0	64	1878	22	22	1922
	PM Totals	1437	24	72	1533	337	9	2	348	44	4	0	48	32	1	0	33	117	3	1	121	3411	76	41	3528
	12:00 to 13:00	694	29	17	740	56	1	0	57	17	0	0	17	17	0	0	17	37	0	0	37	1190	46	22	1258
WE	12:15 to 13:15	696	26	14	736	73	1	0	74	14	0	0	14	20	0	0	20	34	0	0	34	1221	40	22	1283
-	12:30 to 13:30	681	24	12	717	85	0	1	86	10	0	0	10	24	0	0	24	35	0	0	35	1226	36	17	1279
Saturday	12:45 to 13:45	688	26	13	727	80	1	1	82	7	0	0	7	24	0	0	24	31	0	0	31	1240	28	15	1283
S	13:00 to 14:00	643	23	16	682	71	2	1	74	5	0	0	5	28	0	0	28	25	0	0	25	1235	22	13	1270
	Sat Totals	1337	52	33	1422	127	3	1	131	22	0	0	22	45	0	0	45	62	0	0	62	2425	68	35	2528

Site : Regent St and Wellinton St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary





Regent St

	Approach				Rege	nt St						٧	Vellin	gton S	St						Rege	ent St			
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	836	45	50	931	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1183	61	46	1290
ΑM	7:15 to 8:15	901	46	62	1009	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	1355	68	53	1476
	7:30 to 8:30	967	38	56	1061	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	3	1352	62	45	1459
Thursday	7:45 to 8:45	1062	38	53	1153	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1378	65	53	1496
F	8:00 to 9:00	1067	38	51	1156	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1378	71	53	1502
	AM Totals	1903	83	101	2087	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	3	2561	132	99	2792
	16:00 to 17:00	642	12	40	694	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	1596	54	26	1676
ĕ	16:15 to 17:15	676	16	34	726	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	1719	46	26	1791
	16:30 to 17:30	716	13	30	759	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	1839	40	34	1913
Thursday	16:45 to 17:45	732	11	30	773	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	1904	36	39	1979
=	17:00 to 18:00	830	11	32	873	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1880	24	43	1947
	PM Totals	1472	23	72	1567	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	3476	78	69	3623
	12:00 to 13:00	712	33	20	765	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	1236	41	24	1301
WE	12:15 to 13:15	732	30	20	782	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	1318	45	23	1386
day	12:30 to 13:30	721	25	20	766	7	0	0	7	0	0	0	0	0	0	0	0	2	0	0	2	1324	39	19	1382
Saturday	12:45 to 13:45	691	20	20	731	6	0	0	6	0	0	0	0	0	0	0	0	2	0	0	2	1312	36	18	1366
ď	13:00 to 14:00	676	19	19	714	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	1287	31	18	1336
	Sat Totals	1388	52	39	1479	12	0	0	12	0	0	0	0	0	0	0	0	2	0	0	2	2523	72	42	2637

Sat Total

Site : Abercrombie St and O'Connor St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary

8 2516

12 **2584**

Abercrombie St

To be to



O' Connor St

Approach					Al	ercro	mbie	St									(O' Cor	nor S	St				
Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
Time Period	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
7:00 to 8:00	4	0	0	4	1347	69	13	1429	3	0	0	3	0	0	0	0	1	0	0	1	6	0	0	6
7:15 to 8:15	3	0	0	3	1443	61	8	1512	2	0	0	2	0	0	0	0	0	0	0	0	9	0	0	9
7:30 to 8:30	4	0	0	4	1568	63	8	1639	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
7:45 to 8:45	3	0	0	3	1531	57	6	1594	1	0	0	1	0	0	0	0	0	0	0	0	7	0	0	7
8:00 to 9:00	8	0	0	8	1638	70	4	1712	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5
AM Total	12	0	0	12	2985	139	17	3141	5	0	0	5	0	0	0	0	1	0	0	1	11	0	0	11
16:00 to 17:00	6	0	0	6	1523	30	8	1561	1	0	0	1	0	0	0	0	4	0	0	4	19	0	0	19
16:15 to 17:15	3	0	0	3	1554	24	8	1586	2	0	0	2	0	0	0	0	2	0	0	2	17	0	0	17
16:30 to 17:30	2	0	0	2	1679	20	5	1704	4	0	0	4	0	0	0	0	2	0	0	2	13	0	0	13
16:45 to 17:45	1	0	0	1	1685	14	2	1701	4	0	0	4	0	0	0	0	4	0	0	4	20	0	0	20
17:00 to 18:00	1	0	0	1	1795	15	1	1811	4	0	0	4	0	0	0	0	3	0	0	3	29	0	0	29
PM Total	7	0	0	7	3318	45	9	3372	5	0	0	5	0	0	0	0	7	0	0	7	48	0	0	48
12:00 to 13:00	5	0	0	5	1215	33	7	1255	0	0	0	0	0	0	0	0	1	0	0	1	8	0	0	8
12:15 to 13:15	5	0	0	5	1268	30	7	1305	1	0	0	1	0	0	0	0	1	0	0	1	9	1	0	10
12:30 to 13:30	5	0	0	5	1305	29	4	1338	1	0	0	1	0	0	0	0	1	0	0	1	7	1	0	8
12:45 to 13:45	3	0	0	3	1308	26	6	1340	1	0	0	1	0	0	0	0	0	0	1	1	7	1	4	12
13:00 to 14:00	3	0	0	3	1301	23	5	1329	1	0	0	1	0	0	0	0	0	0	1	1	6	1	4	11

	Approach					Ak	ercro	mbie	St									(O' Con	nor S	it				
	Direction		Direc	tion 9			Direc	tion 8			Direc	tion 7			Direct	ion 10			Direct	ion 11			Direct	ion 12	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	29	8	0	0	8	0	0	0	0
AM	7:15 to 8:15	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	35	8	0	0	8	0	0	0	0
	7:30 to 8:30	0	0	0	0	0	0	0	0	0	0	0	0	35	1	0	36	5	0	0	5	0	0	0	0
Thursday	7:45 to 8:45	0	0	0	0	0	0	0	0	0	0	0	0	35	1	0	36	0	0	0	0	0	0	0	0
-	8:00 to 9:00	0	0	0	0	0	0	0	0	0	0	0	0	38	1	0	39	3	0	0	3	0	0	0	0
	AM Total	0	0	0	0	0	0	0	0	0	0	0	0	67	1	0	68	11	0	0	11	0	0	0	0
	16:00 to 17:00	0	0	0	0	0	0	0	0	0	0	0	0	20	1	0	21	0	0	0	0	0	0	0	0
Δd	16:15 to 17:15	0	0	0	0	0	0	0	0	0	0	0	0	21	2	0	23	0	0	0	0	0	0	0	0
	16:30 to 17:30	0	0	0	0	0	0	0	0	0	0	0	0	26	1	0	27	1	0	0	1	0	0	0	0
Thursday	16:45 to 17:45	0	0	0	0	0	0	0	0	0	0	0	0	31	1	0	32	1	0	0	1	0	0	0	0
F	17:00 to 18:00	0	0	0	0	0	0	0	0	0	0	0	0	28	1	0	29	1	0	0	1	0	0	0	0
	PM Total	0	0	0	0	0	0	0	0	0	0	0	0	48	2	0	50	1	0	0	1	0	0	0	0
	12:00 to 13:00	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	2	0	0	2	0	0	0	0
WE	12:15 to 13:15	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	21	1	0	0	1	0	0	0	0
	12:30 to 13:30	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	18	1	0	0	1	0	0	0	0
aturday	12:45 to 13:45	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	17	1	0	0	1	0	0	0	0
Sa	13:00 to 14:00	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	17	2	0	0	2	0	0	0	0
	Sat Total	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	41	4	0	0	4	0	0	0	0

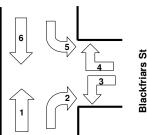
Site : Buckland St and Blackfriars St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary

Buckland St



Buckland St

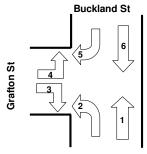
	Approach			ļ	Buckl	and S	t					E	Blackf	riars S	St						Buckl	and S	t		
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total	Lights	Неаvу	Tram	Total
	7:00 to 8:00	28	1	0	29	42	0	0	42	7	0	0	7	12	0	0	12	15	0	0	15	39	0	0	39
АМ	7:15 to 8:15	33	1	0	34	51	0	0	51	8	0	0	8	10	0	0	10	16	1	0	17	43	0	0	43
	7:30 to 8:30	34	1	0	35	56	0	0	56	8	0	0	8	11	0	0	11	16	1	0	17	44	0	0	44
Thursday	7:45 to 8:45	35	0	0	35	57	0	1	58	8	1	0	9	9	0	0	9	19	1	0	20	44	0	0	44
Ė	8:00 to 9:00	39	0	0	39	51	1	1	53	14	1	0	15	9	0	0	9	29	1	0	30	53	0	0	53
	AM Total	67	1	0	68	93	1	1	95	21	1	0	22	21	0	0	21	44	1	0	45	92	0	0	92
	16:00 to 17:00	34	2	0	36	19	0	0	19	14	1	0	15	12	0	0	12	21	5	0	26	76	7	0	83
P	16:15 to 17:15	31	3	0	34	21	0	0	21	13	1	0	14	12	0	0	12	24	4	0	28	84	9	0	93
day	16:30 to 17:30	30	1	0	31	23	1	0	24	8	1	0	9	12	0	0	12	36	3	0	39	78	9	0	87
Thursday	16:45 to 17:45	39	1	0	40	22	2	0	24	7	1	0	8	8	1	0	9	49	2	0	51	89	8	0	97
-	17:00 to 18:00	42	2	0	44	22	2	0	24	8	0	0	8	10	2	0	12	67	2	0	69	103	9	0	112
	PM Total	76	0	0	6	5	1	0	6	0	0	0	0	0	0	0	0	16	1	0	17	17	1	0	18
	12:00 to 13:00	28	1	0	29	16	1	0	17	12	0	0	12	10	2	0	12	11	0	0	11	49	1	0	50
WE	12:15 to 13:15	29	3	0	32	13	1	0	14	11	0	0	11	9	1	0	10	16	0	0	16	42	1	0	43
day	12:30 to 13:30	32	4	0	36	13	1	0	14	9	0	0	9	6	0	0	6	14	1	0	15	43	2	0	45
Saturday WE	12:45 to 13:45	32	6	0	38	15	1	0	16	7	0	0	7	8	0	0	8	14	1	0	15	45	3	0	48
S	13:00 to 14:00	37	5	0	42	19	0	0	19	5	0	0	5	7	0	0	7	17	1	0	18	43	4	0	47
	Sat Total	65	6	0	71	35	1	0	36	17	0	0	17	17	2	0	19	28	1	0	29	92	5	0	97

Site : Buckland St and Grafton St

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary





Buckland St

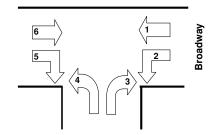
	Approach			l	Buckl	and S	t						Graft	on St						l	Buckl	and S	t		
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	31	1	0	32	9	0	0	9	8	0	0	8	6	0	0	6	21	1	0	22	46	4	0	50
PΑ	7:15 to 8:15	34	1	0	35	9	0	0	9	7	0	0	7	3	0	0	3	19	0	0	19	56	4	0	60
	7:30 to 8:30	35	1	0	36	10	0	0	10	10	0	0	10	5	1	0	6	26	0	0	26	61	2	0	63
Thursday	7:45 to 8:45	31	0	0	31	13	0	0	13	13	0	0	13	8	1	0	9	39	1	0	40	66	2	0	68
-	8:00 to 9:00	37	0	0	37	11	0	0	11	18	0	0	18	8	1	1	10	42	1	0	43	65	1	1	67
	AM Totals	68	1	0	69	20	0	0	20	26	0	0	26	14	1	1	16	63	2	0	65	111	5	1	117
	16:00 to 17:00	28	2	0	30	18	0	0	18	24	1	0	25	7	0	0	7	53	3	0	56	75	3	0	78
ĕ	16:15 to 17:15	27	3	0	30	16	0	0	16	22	1	0	23	6	0	0	6	52	3	0	55	87	3	0	90
	16:30 to 17:30	23	1	0	24	19	1	0	20	21	1	0	22	6	0	0	6	61	3	0	64	106	3	0	109
Thursday	16:45 to 17:45	27	1	0	28	20	2	0	22	27	0	0	27	5	0	0	5	62	2	0	64	117	2	0	119
-	17:00 to 18:00	35	2	0	37	17	3	0	20	37	0	0	37	8	0	0	8	65	1	0	66	137	1	0	138
	PM Totals	63	4	0	67	35	3	0	38	61	1	0	62	15	0	0	15	118	4	0	122	212	4	0	216
	12:00 to 13:00	24	2	0	26	14	1	0	15	16	0	0	16	10	0	0	10	28	0	0	28	44	0	1	45
×	12:15 to 13:15	25	4	0	29	13	0	0	13	16	0	0	16	10	1	0	11	34	0	0	34	38	0	1	39
day	12:30 to 13:30	25	4	0	29	13	0	0	13	16	0	0	16	9	1	0	10	40	0	0	40	43	2	0	45
Saturday WE	12:45 to 13:45	24	6	0	30	16	0	0	16	10	0	0	10	6	1	0	7	36	0	0	36	50	3	0	53
S	13:00 to 14:00	28	5	0	33	16	0	0	16	13	0	0	13	6	1	0	7	30	0	0	30	44	4	0	48
	Sat Totals	52	7	0	59	30	1	0	31	29	0	0	29	16	1	0	17	58	0	0	58	88	4	1	93

Site : Buckland St and Broadway

Day : Thu 8th & Sat 10th Feb 2007

Description : Classified Intersection Count

: Hourly Summary



Buckland St

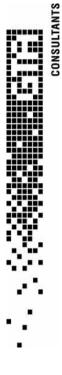
	Approach				Broa	dway							Buckl	and S	t						Broa	dway			
	Direction		Direc	tion 1			Direc	tion 2			Direc	tion 3			Direc	tion 4			Direc	tion 5			Direc	tion 6	
	Time Period	Cars	Trucks	Buses	Total	Cars	Trucks	səsng	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total	Cars	Trucks	Buses	Total
	7:00 to 8:00	857	45	42	944	70	7	0	77	0	0	0	0	36	1	0	37	0	0	0	0	2147	195	97	2439
АМ	7:15 to 8:15	946	50	47	1043	78	6	0	84	0	0	0	0	39	1	0	40	0	0	0	0	2175	185	104	2464
	7:30 to 8:30	1070	47	54	1171	92	6	0	98	0	0	0	0	43	2	0	45	0	0	0	0	2197	180	119	2496
Thursday	7:45 to 8:45	1116	50	62	1228	106	6	0	112	0	0	0	0	44	1	0	45	0	0	0	0	2240	151	142	2533
F	8:00 to 9:00	1173	50	76	1299	104	5	2	111	0	0	0	0	43	1	0	44	0	0	0	0	2371	137	152	2660
	AM Total	2030	95	118	2243	174	12	2	188	0	0	0	0	79	2	0	81	0	0	0	0	4518	332	249	5099
	16:00 to 17:00	1719	59	79	1857	138	0	0	138	0	0	0	0	31	0	0	31	0	0	0	0	1698	46	75	1819
PM	16:15 to 17:15	1817	50	97	1964	154	0	0	154	0	0	0	0	33	0	0	33	0	0	0	0	1763	38	84	1885
	16:30 to 17:30	1837	36	101	1974	165	0	0	165	0	0	0	0	31	0	0	31	0	0	0	0	1751	42	77	1870
Thursday	16:45 to 17:45	1918	40	123	2081	182	0	0	182	0	0	0	0	26	0	0	26	0	0	0	0	1749	48	77	1874
F	17:00 to 18:00	2039	31	124	2194	202	0	0	202	0	0	0	0	32	0	0	32	0	0	0	0	1797	43	70	1910
	PM Total	3758	90	203	4051	340	0	0	340	0	0	0	0	63	0	0	63	0	0	0	0	3495	89	145	3729
	12:00 to 13:00	1478	45	48	1571	83	1	1	85	0	0	0	0	40	0	0	40	0	0	0	0	1670	20	56	1746
WE	12:15 to 13:15	1506	52	51	1609	84	1	1	86	0	0	0	0	40	0	0	40	0	0	0	0	1683	18	58	1759
day	12:30 to 13:30	1528	65	54	1647	87	2	0	89	0	0	0	0	36	0	0	36	0	0	0	0	1667	22	55	1744
Saturday	12:45 to 13:45	1607	63	61	1731	86	4	0	90	0	0	0	0	40	0	0	40	0	0	0	0	1741	25	59	1825
S	13:00 to 14:00	1562	70	60	1692	68	3	1	72	0	0	0	0	31	0	0	31	0	0	0	0	1621	26	54	1701
	Sat Total	3040	115	108	3263	151	4	2	157	0	0	0	0	71	0	0	71	0	0	0	0	3291	46	110	3447

Broadway



Mid-Block Traffic Counts

CHIPPENDALE LATM STUDY - CONCEPT PROPOSALS SUMMARY - 2007 TUBE COUNT SURVEY SUMMARY



Street Name	Location	Direction	AM Volume (veh/hr)	PM Volume (veh/hr)	% Heavy	85th Percentile Speed (km/hr)
Myrtle Street	Between Rose Street & Shepherd Street	Eastbound Westbound	47 84	58 67	3% 3%	35 36
Shepherd Street	Between Paints Lane & Daniels Street	Northbound Southbound	95 71	64 105	4% 3%	40
Buckland Street	Between Myrtle Street & O'Connor Street	Northbound Southbound	67 92	61 92	4% 3%	40 48
O'Connor Street	Between Buckland Street & Smithers Street	Eastbound Westbound	45 26	28 24	3%	39 28
Levey Street	Between Smithers Street & Abercrombie Street	Eastbound	19	81	3%	30
Wiley Street	Between Dangar Place & Myrtle Street	Northbound Southbound	37 59	39 73	3%	32 35
Myrtle Street	Between Wiley Street & Smithers Street	Eastbound Westbound	68 70	53 65	4%	35 37
Meagher Street	Between Chippen Street & Chippen Lane	Eastbound Westbound	197 124	273 114	4% 6%	47 39
Little Queen Street	Between Abercrombie Street & Balfour Street	Eastbound Westbound	27 23	16 34	6% 2%	34 36
Queen Street	Between Balfour Street & Chippen Street	Eastbound Westbound	8 38 38	32 43	4% 3%	37 39
Wellington Street	Between Balfour Street & Regent Street	Westbound	12	#	%9	32
Abercrombie Street	Between Dick Street & O'Connor Street	Northbound	1,702	1,766	%/_	56
City Road	North of Myrtle Street	Northbound Southbound	1,882 1,499	1,536 1,749	8% 7%	65 58

OTAL COUNT	MON 267 57	rts 968, 978, 98 TUE 207H 135	IIPPENDALE :	E : From SHEPH Id, Between Dick	ABERCROMBIE STREET, CHIPPENDALE: From SHEPHERD STREET to PARRAMATTA ROAD: NORTH BOUND Combined Counts 968, 978, 980 Northbound, Between Dick Street and O'Connor Street, House No. , ELP	to PARRAMA'	TTA ROAD: N	ORTH BOUND , ELP Carr	Carria	увемау в при	
COUNT	MON 267 134 67 57	TUE 207H 135	0 Northbound,	Between Dick	Street and O'C	onnor Street, F	louse No.	ELP	Carriageway		
TOTAL COUNT M light - 1am - 2am	MON 267H 134 67 57	тие 207н 135									
TOTAL COUNT M iight - 1am - 2am - 3am	MON 267H 134 67 57	тие 207н 135	Start	Date T .	20-FEB-07	,	Weekly	Weekly 50th Percentile Speed	e Speed		45
ight - 1am - 2am - 3am	MON 267H 134 67 57	TUE 20TH 135	Start Dura Interv	Start Time Duration Interval	7 DAYS 1 HOUR		weekiy Five Da Seven I	weekiy sain Perceniii Five Day AADT Seven Day AADT	e Speed	20 21927 20542	27 442
ight - 1am - 2am - 3am	267H 134 67 57	20TH 135	WED	돧	FR	SAT	SUN	5 Dav	av	7 Dav	av
night - 1am - 2am - 3am	134 67 57	135	21ST	22ND	23RD	24TH	25TH	Total	Average	Total	Average
1 - 2am 1 - 3am	67	3	186	156	226	333	380	837	167	1550	221
1 - 3am	25	61	92	103	112	210	212	435	87	857	122
44		59	73	83	83	147	161	355	71	663	95
sam - 4am	81	74	78	98	62	131	135	398	80	664	95
4am - 5am	148	139	109	118	120	102	107	634	127	843	120
5am - 6am	389	373	380	398	415	233	129	1955	391	2317	331
6am - 7am	957	1026	1019	1038	993	466	232	5033	1007	5731	819
7am - 8am	1605	1528	1539	1552	1497	622	374	7721	1544	8717	1245
8am - 9am	1702	1210	1127	1564	1521	926	688	7124	1425	8738	1248
9am - 10am	1370	1381	1364	1155	1227	1088	1102	6497	1299	8687	1241
10am - 11am	1155	1062	1183	1096	1222	1163	911	5718	1144	7792	1113
11am - Midday	1159	1095	1145	1164	1233	1339	1114	9625	1159	8249	1178
Midday - 1pm	1139	1137	1197	1179	1229	1338	1142	5881	1176	8361	1194
1pm - 2pm	1178	1187	1126	1212	1224	1263	1117	5927	1185	8307	1187
2pm - 3pm	1230	1245	1337	1283	1382	1186	1079	6477	1295	8742	1249
3pm - 4pm	1399	1453	1442	1472	1513	1183	925	7279	1456	9387	1341
4pm - 5pm	1558	1593	1554	1584	1570	1088	1024	7859	1572	9971	1424
2pm - 6pm	1704	1766	1746	1630	1664	1186	1011	8510	1702	10707	1530
6pm - 7pm	1393	1366	1487	1481	1363	1123	945	7090	1418	9158	1308
7pm - 8pm	902	1022	1027	1093	1102	852	712	5149	1030	6713	929
8pm - 9pm	731	791	722	804	809	648	989	3857	771	5191	742
9pm - 10pm	601	717	889	918	712	594	655	3636	727	4885	869
10pm - 11pm	485	613	558	985	718	613	585	3359	672	4557	651
11pm - Midnight	296	363	335	554	562	532	368	2110	422	3010	430
Total	21443	21396	21514	22708	22576	18366	15794	109637	21927	143797	20542

Count Mumber	090		4 + 0	4			, ,		ı	265 0.4	
Street	BUCKLAND ST	BUCKLAND STREET, CHIPPENDALE	ReI : GI ENDALE : Fro	n m BROADWA	: GIA : From BROADWAY to MYRTLE STREET : SOUTH BOUND	STREET: SOU		Directory kei		: UBD 233 Q-1	
Location	Between Levey	Between Levey Street and O'Connor Street	onnor Street, H	, House No.75, E	ELP SY 07238)	Carriageway		
			Start	Date	05-FEB-07		Weekly	Weekly 50th Percentile Speed	Speed		37
I CO LATOT	>100 H		Start	Start Time Duration	100 7 DAYS		Weekly Five Day	Weekly 85th Percentile Speed Five Day AADT	Speed		996
IOTAL COUNT MATRIX	INI MAIRIX		Interval	/al	1 HOUR		Seven D	Seven Day AADT			968
	MOM	TUE	WED	H	FRI	SAT	SUN	5 Dav	_	7.0	7 Dav
	5TH	91	HTT	8TH	9ТН	10TH	11TH		Average		Average
Midnight - 1am	6	8	9	12	19	25	24	54	11	103	15
1am - 2am	8	9	7	9	12	18	23	39	8	80	11
2am - 3am	3	2	1	2	7	16	16	18	4	20	7
3am - 4am	1	1	2	9	2	12	8	12	2	32	2
4am - 5am	2	1	2	1	3	13	2	6	2	27	4
5am - 6am	11	5	9	6	7	7	7	38	80	52	7
6am - 7am	15	7	13	24	27	7	3	98	17	96	14
7am - 8am	37	43	37	59	38	24	8	214	43	246	35
8am - 9am	92	74	91	80	91	21	16	428	98	465	99
9am - 10am	71	89	62	89	92	27	29	372	74	428	61
10am - 11am	61	89	49	20	74	39	38	322	64	339	22
11am - Midday	43	58	59	77	49	47	34	286	22	367	52
Midday - 1pm	53	72	48	62	54	47	39	289	28	375	54
1pm - 2pm	26	63	38	54	09	37	37	271	54	345	49
2pm - 3pm	41	9	71	62	49	35	31	288	28	354	51
3pm - 4pm	22	29	53	99	79	50	29	322	64	401	22
4pm - 5pm	72	63	09	92	92	41	43	347	69	431	62
5pm - 6pm	98	87	29	83	92	41	51	415	83	202	72
6pm - 7pm	29	06	91	69	73	44	38	390	78	472	29
7pm - 8pm	46	48	50	45	54	38	31	243	49	312	45
8pm - 9pm	22	4	31	35	38	27	30	167	33	224	32
9pm - 10pm	33	29	24	28	30	22	25	144	29	191	27
10pm - 11pm	15	21	15	27	38	24	18	116	23	158	23
11pm - Midnight	12	14	24	29	32	28	18	111	22	157	22
Total	913	1022	924	1053	1069	069	601	4981	966	6272	896

BUCKLAND STREET Between Levey Street DITAL COUNT MATRIX 1		From MYRTLE STREET to BROADWAY: NORTH BOUND at, House No.75, ELP SY 07238 tart Date uration 05-FEB-07 Week lart Time Week lart Time interval TDAYS Week lart Time interval TDAYS NVeek lart Time interval NVeek lart Time	SAT 10TH 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SUN 10 13 8 8 9 10 10 13 10 13 8 9 0 27 7 7 7 8 9 9 0 27 6 160 6	Carrie entile Spee	E Total 30 25 13 11 20 20 20 31 31 31 31 31 31 31 31 31 31 31 31 31	31 40 621 557 7 Dav Average 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
am am m m	NED Start Date Start Time Duration Interval ATH 8TH 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FLP SY 07238 05-FEB-07 100 7 DAYS 1 HOUR 97H 2 2 2 2 2 2 2 2 2 36 36 36 46	SAT 1077 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Weekly 50th P Weekly 85th P Five Day AAD Seven Day AAD 10 7 7 7 3 8 8 6 0 0	Sercentile Speed Percentile Speed Percentile Speed Average 13 7 7 7 8 8 5 27 8 86 1 86 1	E Total 30 25 20 20 31 31 31 31 31 31 31 31 31 31 31 31 31	
TAL COUNT MATRIX MON T 57H am 2 0 0 1 17 23 23 23 6 6 6 7 17 17 19 48 48 48 48 48 48 48	Start Date Start Time Duration Interval	05-FEB-07 100 7 DAYS 1 HOUR 97H 2 2 2 2 2 2 2 2 5 1 1 1 5 46 46	SAT 10TH 7 7 7 7 7 7 7 7 8 8 9 8 9 9 9 9 9 9 9 9	Weekly 50th P Weekly 85th P Five Day AAD' Seven Day AA 11TH TC 10 7 3 8 8 0 0 3 6 16	S Dav S Dav S Dav S Dav T T T T T T T T T T T T T T S B S S S S	Total 30 30 13 12 13 14 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
TAL COUNT MATRIX MON T 5TH 0 0 1 1 17 2 2 2 3 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Start Ime Duration Interval	7 DAYS 7 DAYS 1 HOUR 97H 2 2 2 2 2 2 2 2 5 1 1 5 46 46	SAT 1077 7 7 7 7 7 7 8 8 9 8 9 9 9 9 9 9 9 9 9 9	Sun 1177 10 7 3 6 1 10 7 3 3 6 1 6	5 Dav otal Average 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total 30 30 13 12 13 14 12 15 15 15 15 15 15 15 15 15 15 15 15 15	
m 23 6 1 1 1 1 1 1 1 1 1 1 1 1		FRI 97H 2 2 1 1 1 5 5 1 5 46	SAT 1077 7 11 2 2 2 4 4 4 4 4 16 18	F	5 Dav Avera	Total 30 25 13 12 20 20 20 31 31 31 31 31 31 31 31 31 31 31 31 31	a
am 2 0 1 1 0 2 2 2 2 3 4 17 17 m 28 m 27 m 27 m 27 m 27 48 48 48 48 48 48 48 48		97 <i>H</i> 2 2 1 1 0 0 2 2 36 36 46	1077 7 7 7 7 11 11 11 12 2 2 2 4 4 4 4 18 118 118		Avera	Å	Average 4 4 4 4 4 4 4 4 4 4 4 2 2 2 2 2 2 2 2
am 2 0 0 0 0 6 6 6 6 6 7 7 17 17 19 19 48 48 48 48 48 48 48 48 48 48 48 48 48		2 2 0 0 36 48 48 48 48 48 48 48 48 48 48 48 48 48	7 11 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4				2 2 2 8 4 4 8 9 2 2 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9
0 0 0 0 6 6 6 6 72 m 52 m 27 m 27 m 27 19 19 48 48 43 43 43 43 43 43		2 0 0 2 2 5 5 5 4 4 6 4 6 4 6 4 6 6 6 6 6 6 6 6 6	11 2 2 2 2 4 4 4 9 1 8 1 8 1				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1 0 0 6 6 17 17 17 18 82 18 19 19 19 43 43 43 43 43 43 43 43 43 43 43 43 43		1 0 0 2 2 5 1 5 36 8 46	2 2 2 2 4 4 4 9 1 8 1 8 1 8 1			7	2 2 3 13 13 2 2 2 6 2 6
0 2 6 6 17 17 17 18 19 19 19 19 19 19 19 19 19 19		0 2 2 5 15 36 36 46	2 8 4 4 18 18 18 18 18 18 18 18 18 18 18 18 18			7	2 3 4 4 13 26
2 6 17 17 17 18 13 18 19 19 19 19 19 19 19 19 19 19 19 19 19		2 5 15 36 51 46	3 4 4 4 18 18				13 26
6 17 17 23 23 24 27 24 24 28 48 24 25 24 27 24 27 27 24 27 27 27 27 27 27 27 27 27 27 27 27 27		5 15 36 51 46	4 4 4 16 18			7	13 26
17 23 23 88 82 84 84 84 84 86 86 86 86 86 86 86 86 86 86 86 86		15 36 51 46	16			7	13
23 n 58 52 n 28 day 27 m 27 m 27 19 48 48 48 48 48 43 43 43		36 51 46	16				26
58 52 28 48 27 m 27 27 m 27 19 48 48 48 48 43 43 56 69		51	18				
52		46		6	300 6	60 327	47
hday 27 hday 27 hm 27 pm 27 24 19 48 48 43 76 17 17		>	21	21	276 5	55 318	45
lday 27 pm 27 24 19 48 43 43 76 76 76		30	27	27	169 3	34 223	32
27 24 19 19 48 43 43 76 76 76 76 76 76 76 76 76 76 76 76 76	37 45	34	37	18	181 3	36 236	34
24 19 48 43 56 17	32 42	34	33	21	171 3	34 225	32
19 48 43 56 17 17	33 34	27	41	43	160 3	32 244	35
48 43 56 59 17	34 41	29	30	14	149 3	30 193	28
43 56 59 17	37 43	51	20	29	224 4	45 273	39
56 59 17	42 42	38	26	21	204 41	1 251	36
17	61 56	26	28	23	290 58	8 341	49
17	52 51	50	25	30	262 5	52 317	45
46	34 33	31	15	10	141 2	28 166	24
al ol mde - mde	9 24	27	10	18	95 1	19 123	18
9pm - 10pm 19 23	17 15	11	16	13	85 17	7 114	16
10pm - 11pm 9 15	12 6	18	18	14	60 1	12 92	13
11pm - Midnight 3 1	7 7	8	12	13	23	5 48	7
Total 556 656	622 667	604	426	366 31	3105 621	1 3897	556

COUNT MATRIX COUNT COUNT MATRIX COUNT MATRI	Count Number	226		. Fed	GTA				יאטייר	Pof · UBC	. UBD 255 P-1	
tion Combined Counts 974, 975, 976 and 1173 Northbound, north of Myrale Street, House No. ELP Weekly Soft Percentile Speed Start Date Start D	Street	CITY ROAD, D	ARLINGTON	: From BROAL	DWAY to CLE	VELAND STRE	ET: NORTH B					
TOTAL COUNT MATRIX Start Date Start Time TOTAL COUNT MATRIX Start Date Start Time TOTAL COUNT MATRIX TOTAL COUNT TOTAL COUNT MATRIX TOTAL COUNT TOTA	Location	Combined Cou	ınts 974, 975, 9 ⁻	76 and 1173 N	orthbound, nor	th of Myrtle Stre	et, House No.	, ELP		Carriageway	,	
Total County MATRIX Tube				Star	t Date	20-FEB-0;		Weekly	50th Percentil	e Speed		53
MON TUE WED THU FRI SAT SUN 5 Day TOR ght-1am 267H 2157 2167 2167 2167 1504 1504 1504 1604 </th <th>TOTAL COL</th> <th>JNT MATRIX</th> <th></th> <th>Star Dur</th> <th>t Iime ation rval</th> <th>7 DAYS 1 HOUR</th> <th></th> <th>weekiy Five Da Seven I</th> <th>som Percentil ty AADT Day AADT</th> <th>e speed</th> <th>23</th> <th>65 1240 8591</th>	TOTAL COL	JNT MATRIX		Star Dur	t Iime ation rval	7 DAYS 1 HOUR		weekiy Five Da Seven I	som Percentil ty AADT Day AADT	e speed	23	65 1240 8591
Genth 20174 2187 2284D 24174 26174 Total Average		MOM	TUE	WED	H	FRI	SAT	SUN	5 D?	av	1 2	Jav
gift-1am 284 233 385 303 419 722 768 1594 319 3084 2am 184 148 241 236 274 463 552 168 211 271 278 148 376 148 377 149 769 144 1580 1918 271 286 147 769 148 1918 271 286 187 1918 1920		26TH	20TH	21ST	22ND	23RD	24TH	25TH		Average	Total	Average
2am 184 241 236 274 463 532 1083 217 2078 3am 143 144 155 173 184 397 414 769 175 184 397 414 769 176 189 184 189 184 189 184 189 184 189 184 189 184 187 189 189 189 189 189 189 189 189 189 184 187 186 284 187 186 189 <th>Midnight - 1am</th> <th>284</th> <th>233</th> <th>355</th> <th>303</th> <th>419</th> <th>722</th> <th>268</th> <th>1594</th> <th>319</th> <th>3084</th> <th>441</th>	Midnight - 1am	284	233	355	303	419	722	268	1594	319	3084	441
3am 143 144 155 173 184 397 414 769 154 150 4am 23m 141 167 167 167 188 219 475 567 357 187 187 189 189 187 189 189 187 188 187 188 187 189 187 188 187 188 187 188 187 188	1am - 2am	184	148	241	236	274	463	532	1083	217	2078	297
4am 201 451 475 507 936 487 1918 5am 271 284 272 286 271 337 1332 265 1931 5am 524 561 561 574 46 276 286 271 1337 286 1902 7am 151 1283 1290 1278 1764 716 354 6176 1236 1924 8am 1785 1845 1840 1870 1783 1761 673 909 1870 1870 9am 1785 1789 1761 1789 1781 1781 1789 1789 1789 1789 1789 1789 1780 1880	2am - 3am	143	114	155	173	184	397	414	692	154	1580	226
6am 271 249 272 246 286 271 337 1323 265 1931 6am 554 587 581 284 285 288 288 288 288 365 1936 7am 1154 1253 1896 1796 1804 176 186 1789 1871 186 1789 1871 186 1789 1871 1895 1812 1806 1802 <th>3am - 4am</th> <th>201</th> <th>161</th> <th>167</th> <th>188</th> <th>219</th> <th>475</th> <th>202</th> <th>936</th> <th>187</th> <th>1918</th> <th>274</th>	3am - 4am	201	161	167	188	219	475	202	936	187	1918	274
6am 554 561 564 574 456 288 2821 564 356 7am 1781 1263 1290 1278 1290 1278 1786 6178 1785 1786 1845 1780 1876 1876 1876 1876 1876 1876 1878	4am - 5am	271	249	272	245	286	271	337	1323	265	1931	276
7am 1151 1253 1290 1278 716 354 6176 1235 7246 8am 1882 1845 1811 1885 1796 832 486 9102 1820 10420 9am 1882 1765 1870 1753 1796 1873 1873 1873 1873 1873 1882	5am - 6am	554	587	561	545	574	456	288	2821	564	3565	509
8am 1785 1845 1811 1865 1796 832 486 9102 1820 10420 9am 1882 1870 1753 1789 1161 673 9059 1812 10893 9am 1386 1470 1486 1430 1481 1781 1643 1482 1483 1671 1893 1812 1893 1813 1893 1813 1863 1813 1813 1822 1813 1863 1864 1856	6am - 7am	1151	1253	1290	1278	1204	716	354	6176	1235	7246	1035
9am 1882 1765 1870 1753 1789 1161 673 9659 1812 1083 10am 1386 1470 1486 1430 1418 1371 1043 1438 9604 183 183 1438 9604 183 186 1430 1438 1438 1438 1438 1438 1438 1438 1436 1252 6534 1212 8823 3y-1m 1232 1234 1282 1267 1267 1266 1252 6534 1267 8823 3y-1m 173 1158 1186 1320 1477 1301 5971 149 8749 4pm 173 1487 1487 1436 1487 1436 1450 9634 1450 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 9634 <	7am - 8am	1785	1845	1811	1865	1796	832	486	9102	1820	10420	1489
10am 1386 1470 1486 1430 1418 1371 1043 7190 1438 604 -11am 1222 1140 1142 1180 1386 1199 5827 1165 8424 -Midday 1222 1240 1242 1242 1181 1181 1286 6058 1212 863 3y-1pm 1232 1234 1252 1267 1286 1287 1287 1275 863 3ym 1348 1252 1286 1286 1287 1276 1286 1287 1487 1477 1477 1487	8am - 9am	1882	1765	1870	1753	1789	1161	673	9059	1812	10893	1556
-Ilam 122 1140 1143 1142 1180 1398 1199 5827 1465 8424 - Midday 1232 1234 1263 1261 1286 1296 6058 1212 863 3y-1pm 1238 1251 1282 1267 1286 1266 1566 1326 1262 6334 1267 863 3y-1pm 1173 1155 1138 1185 1280 1272 1304 8749 87	9am - 10am	1386	1470	1486	1430	1418	1371	1043	7190	1438	9604	1372
- Midday 1232 1234 1263 1191 1138 1519 156 156 6534 1267 863 3y - 1pm 1238 1251 1282 1267 1296 156 156 1267 9092 2pm 1173 1155 1138 1185 1280 1280 1267 1391 1473 1494 8749 3pm 1438 1252 1286 1286 1286 1381 1336 1286 9873 9873 4pm 1473 1467 1487 1324 1160 7249 1450 973 9873 5pm 1483 1485 1487 1487 1484 7610 1522 10081 7pm 1486 1487 <	10am - 11am	1222	1140	1143	1142	1180	1398	1199	5827	1165	8424	1203
ay - 1pm 1238 1251 1282 1267 1296 155 6334 1267 9992 2pm 1173 1155 1138 1185 1260 127 1477 1301 5971 1194 8749 3pm 1348 1252 1285 1266 1381 1324 1236 6532 1306 9873 4pm 1473 1467 1410 1412 1487 1324 160 7249 1450 9873 5pm 4pm 1473 1467 1487 1324 1160 7249 1450 9733 6pm 1483 1465 1481 1324 1467 1481 1344 1467 940 9533 8pm 1340 1482 1481 1385 1481 1385 1487 1481 1481 1481 1481 1481 1481 1481 1481 1481 1481 1481 1481 1481 1481 14	11am - Midday	1232	1234	1263	1191	1138	1519	1286	6058	1212	8863	1266
2pm 1173 1155 1138 1185 1320 1477 1301 5971 1194 8749 3pm 1348 1252 1285 1266 1381 1319 1236 6532 1306 9087 4pm 1473 1467 1410 1487 1487 1784 7610 7249 1450 9733 5pm 1483 1453 1465 1481 1344 7610 152 10081 6pm 1458 1453 1465 1481 1346 7610 152 10081 7pm 1340 1450 1420 1481 1346 1784 7610 167 962 8pm 1340 1420 1420 1481 1346 1687 1481 1346 167 167 963 9pm 1382 1420 1420 1420 1482 1421 4401 4401 4401 9pm 148 148	Midday - 1pm	1238	1251	1282	1267	1296	1506	1252	6334	1267	9092	1299
3pm 1348 1252 1285 1266 1381 1319 1236 6532 1306 9087 4pm 1473 1467 1410 1412 1487 1324 1160 7249 1450 9733 5pm 1488 1458 1487 1481 1754 1764 1667 1678 1008 7pm 1458 1483 1485 1481 1784 7610 1672 1008 3pm 1458 1486 1481 1481 1484 1484 1484 1484 1484 1484 1487	1pm - 2pm	1173	1155	1138	1185	1320	1477	1301	5971	1194	8749	1250
- 4pm 1473 1467 1410 1412 1487 1324 1160 7249 1450 973 5pm 1483 1572 1534 1534 1536 1467 1467 1764 7610 1522 10081 6pm 1458 1459 1465 1481 1315 1184 7336 1467 9835 7pm 1380 1490 1420 1335 1198 1087 6767 1353 9052 9pm 836 1008 1007 1017 1086 1036 872 872 4701 940 6455 9pm 836 1007 1007 1008 882 761 4391 878 6034 10pm 784 862 761 4658 761 4659 876 658 761 4659 810 4659 110pm 2340 2418 241 2579 23993 19943 121200 2240	2pm - 3pm	1348	1252	1285	1266	1381	1319	1236	6532	1306	9087	1298
Spm 1483 1534 1536 1485 1317 1154 7610 1522 10081 6pm 1458 1458 1481 1315 1184 7336 1467 9835 7pm 1458 1481 1315 1184 7336 1467 9835 3pm 1340 1382 1420 1420 1420 1436 1636 1673 1673 1675	3pm - 4pm	1473	1467	1410	1412	1487	1324	1160	7249	1450	9733	1390
-6pm14581493148914651481131511847336146798357pm13401382129014201335119810876767135390528pm10361070101710861036812872470194064559pm83610179539048827614391878603410pm78491887890690488276140528105641-11pm6078627788578578105641-11pm358537499709945100257930486104629Nidnight3582418124342507923993199431212002424016518	4pm - 5pm	1483	1572	1534	1536	1485	1317	1154	7610	1522	10081	1440
7pm13401382129014201335119810876767135390528pm1008100910701017108610368125271105471199pm83610179559408828724701940645510pm784918879906904882761439187860341-11pm60786278895694565840528105641-Midnight3585374997099451002579304861046292340124181243425079239931994312120024240165136	2pm - 6pm	1458	1493	1439	1465	1481	1315	1184	7336	1467	9835	1405
8pm 1008 1090 1070 1017 1086 1036 812 5271 1054 7119 9pm 836 1017 953 956 940 882 872 4701 940 6455 10pm 784 878 956 964 882 761 4391 878 6034 1-11pm 607 862 788 857 938 954 658 4052 810 564 -Midnight 358 537 499 709 945 1002 579 3048 610 4629 23401 24181 24181 2434 25079 23993 19943 121200 24240 165136	6pm - 7pm	1340	1382	1290	1420	1335	1198	1087	2929	1353	9052	1293
9pm 836 1017 953 955 940 882 872 4701 940 6455 10pm 784 918 879 904 882 761 4391 878 6034 1-11pm 607 862 788 857 938 954 658 4052 810 564 Nidnight 358 537 499 709 945 1002 579 3048 610 4629 Assistant Saturation 24181 24181 2434 25079 23993 19943 121200 24240 165136	7pm - 8pm	1008	1090	1070	1017	1086	1036	812	5271	1054	7119	1017
-10pm784918879906904882761439187860341-11pm60786278885793895465840528105641-Midnight35853749970994510025793048610462923401241812434425079239931994312120024240165136	8pm - 9pm	836	1017	953	955	940	882	872	4701	940	6455	922
-11pm60786278885793895465840528105664-Midnight3585374997099451002579304861046292340124195241812434425079239931994312120024240165136	9pm - 10pm	784	918	879	906	904	882	761	4391	878	6034	862
-Midnight 358 537 499 709 945 1002 579 3048 610 4629 23401 24195 24181 24344 25079 23993 19943 121200 24240 165136	10pm - 11pm	209	862	788	857	938	954	658	4052	810	5664	809
23401 24195 24181 24344 25079 23993 19943 121200 24240 165136	11pm - Midnight	358	537	499	209	945	1002	579	3048	610	4629	661
	Total	23401	24195	24181	24344	25079	23993	19943	121200	24240	165136	23590

Count Number Street	973 CITY ROAD. D	973 CITY ROAD, DARLINGTON:From BRO	Ref : G From BROAD	GTA ADWAY to CLEV	GTA ADWAY to CLEVELAND STREET : SOUTH BOUND	ET : SOUTH B		Directory Ref		: UBD 255 P-1	
Location	Combined Cou	Combined Counts 970, 971 and 972 Southbound, north of Myrtle Street, House No.	d 972 Southbo	und, north of M	Ayrtle Street, Ho	use No. , E	ELP		Carriageway	,	
			Start	Date	05-FEB-07		Weekly	Weekly 50th Percentile Speed	e Speed		48
TOTAL COU	TOTAL COUNT MATRIX		Dura	Start Time Duration Interval	7 DAYS 1 HOUR		Veekly sour Pe Five Day AADT Seven Day AAD	weekiy ootii reiceriiile opeed Five Day AADT Seven Day AADT	paado a	24	24680 24072
	MON	TUE	WED	롸	FR	SAT	SUN	5 D	\ar	1	7 Dav
	5TH	91	HLL	8TH	91H	10TH	11TH		Average		Average
Midnight - 1am	321	299	370	347	465	683	764	1802	360	3249	464
1am - 2am	207	201	233	216	312	506	564	1169	234	2239	320
2am - 3am	139	147	152	167	218	467	468	823	165	1758	251
3am - 4am	128	125	158	146	172	333	360	729	146	1422	203
4am - 5am	198	156	165	189	202	312	281	910	182	1503	215
5am - 6am	445	481	481	452	469	341	287	2328	466	2956	422
6am - 7am	1126	1121	1094	1136	1040	638	325	5517	1103	6480	926
7am - 8am	1343	1322	1325	1298	1330	764	435	6618	1324	7817	1117
8am - 9am	1465	1442	1475	1499	1476	992	594	7357	1471	8943	1278
9am - 10am	1376	1378	1460	1457	1402	1219	854	7073	1415	9146	1307
10am - 11am	1337	1364	1341	1363	1380	1315	1155	6785	1357	9255	1322
11am - Midday	1255	1251	1331	1348	1419	1421	1325	6604	1321	9350	1336
Midday - 1pm	1228	1273	1278	1282	1305	1476	1445	9989	1273	9287	1327
1pm - 2pm	1242	1322	1316	1385	1366	1511	1515	6631	1326	9657	1380
2pm - 3pm	1318	1342	1317	1301	1424	1404	1284	6702	1340	9390	1341
3pm - 4pm	1456	1514	1512	1423	1550	1410	1285	7455	1491	10150	1450
4pm - 5pm	1552	1569	1671	1607	1672	1411	1363	8071	1614	10845	1549
2pm - 6pm	1763	1716	1382	1749	1743	1472	1316	8353	1671	11141	1592
6pm - 7pm	1605	1756	1557	1712	1700	1473	1270	8330	1666	11073	1582
7pm - 8pm	1124	1172	1394	1364	1530	1268	937	6584	1317	8789	1256
8pm - 9pm	860	947	902	1066	1078	1010	828	4856	971	6694	926
9pm - 10pm	838	1010	954	1063	1000	985	829	4865	973	6299	954
10pm - 11pm	899	751	792	902	666	981	699	4115	823	2925	824
11pm - Midnight	575	809	277	651	945	1077	483	3356	671	4916	702
Total	23569	24267	24240	25126	26197	24469	20636	123399	24679	168504	24072

COUNT MATRIX Street and Aberrorumble Street and Ab	Count Number	962		Ref : G	GTA				Directory R	Ref : UBD 255 Q-1	255 Q-1	
Total County Matter Street and Abert-cromble Street House No.38 Total County Matter House	Street	LEVEY STREE	T, CHIPPENDAL	.E : From BL	JCKLAND STR	REET to ABERC	ROMBIE STR	EET : EAST BO	7			
TOTAL COUNT MATRIX Signt Date OS-FED-07 Weekly SGNP Percentile Speed 24 Signt Time 100 Signt	Location	Between Smithe	ers Street and Ab	ercrombie St	reet, House No	.38			O	arriageway		
TOTAL COUNT MATRIX TOTAL C				Start	Date T	05-FEB-07		Weekly 5	50th Percentile	Speed		24
MON TUE WED THU FRI SAT SUN TOAR Average	TOTAL COL	JNT MATRIX		Dura	IIme tion /al	7 DAYS 1 HOUR		Weekly of Five Day Seven D	som Percentile s AADT ay AADT	pbeed	` `	% 148 125
STH STH STH STH STH TTH TTH <th></th> <th>MOM</th> <th>TUE</th> <th>WED</th> <th>THU</th> <th>FRI</th> <th>SAT</th> <th>SUN</th> <th></th> <th></th> <th></th> <th>av</th>		MOM	TUE	WED	THU	FRI	SAT	SUN				av
giltr 1am 0 0 3 1 0 4 1 4 2am 0 0 0 0 1 0 4 1 4 3am 0 0 0 0 0 0 1 0 0 2 4am 0 0 0 0 0 0 1 1 0		5TH	етн	TTH	8TH	9TH	10TH	11TH		rerade		Average
2am 0 0 1 3 0 4 3am 0 0 0 0 1 3 0 0 4 4am 0 </td <th>Midnight - 1am</th> <td>0</td> <td>0</td> <td>0</td> <td>က</td> <td>_</td> <td>0</td> <td>0</td> <td>4</td> <td>-</td> <td>4</td> <td>-</td>	Midnight - 1am	0	0	0	က	_	0	0	4	-	4	-
3am 0	1am - 2am	0	0	0	0	0	1	3	0	0	4	1
4am 0 0 2 1 0 1 3 1 4 5am 0 0 0 0 0 1 0 0 1 4 5am 1 0 0 0 0 0 0 0 0 0 1 7am 1 6 3 6 5 2 0 21 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 23 1 4 2 4 3 4 4 3 4	2am - 3am	0	0	0	0	0	1	1	0	0	2	0
Sam 0 0 1 0 0 1 0 0 1 Gam 2 4 1 2 3 6 3 1 1 1 1 2 14 Anne 1 6 3 6 7 1 1 1 1 4 23 1 4 23 1 4 23 1 4 23 1 4 1 5 4 1 7 1 6 1 4 1 7 4 1 7 4 1 7 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 <	3am - 4am	0	0	0	2	1	0	1	3	1	4	1
6am 2 4 1 2 3 1 1 1 12 2 14 23 14 15 4 23 7	4am - 5am	0	0	0	0	0	1	0	0	0	1	0
7am 1 6 3 6 5 2 0 21 4 23 8am 14 12 9 17 18 1 1 70 14 72 8am 16 13 17 18 1 1 70 14 75 9am 16 16 17 18 1 5 6 11 57 -Midday 8 13 16 18 1 6 13 13 7 3yr-1pm 6 11 18 1 8 6 8 13 7 3yr-1pm 6 13 1 8 4 3 53 14 60 3yr-1pm 1	5am - 6am	2	4	1	2	3	1	1	12	2	14	2
8am 14 12 9 17 18 1 1 70 14 72 9am 10 9 4 19 12 2 1 54 11 54 11 57 10am 8 15 14 15 14 15 14 57 68 17 57 68 17 57 68 17 57 68 68 67 17 68 7 7 68 62 12 7 7 7 69 62 12 7 7 7 69 62 12 7 7 7 60 64 7 7 6 64 7 7 64 7 7 64 7 7 64 7 7 64 7 7 64 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6am - 7am	_	9	3	9	5	2	0	21	4	23	က
9am 10 9 4 19 12 2 1 54 11 57 10am 8 15 8 16 11 5 5 58 12 68 1-11am 10 13 16 13 16 16 2 5 5 12 68 1-11am 18 13 16 18 6 2 12 17 68 3y-1pm 6 11 16 7 7 5 53 17 64 2pm 13 14 10 13 2 5 5 10 64 4pm 15 16 16 2 5 5 10 64 4pm 1 6 1 1 1 1 4 1 5pm 1 2 1 2 2 4 4 4 6pm 1 2	7am - 8am	14	12	6	17	18	1	1	20	14	72	10
10am 8 15 8 16 11 13 11 13 16 17 5 5 5 12 68 -11am 10 13 14 13 16 16 2 5 13 7 7 -Midday 8 13 14 16 16 2 65 12 7 7 3y-1pm 6 11 18 10 8 1 8 62 12 7 7 9 10 9 13 5 5 10 64 10 64 10 64 10 64 10 64 65 10 64 65 65 10 64 65	8am - 9am	10	6	4	19	12	2	-	54	7	22	8
-I-flam 10 13 10 3 5 63 13 71 Midday 8 13 15 15 15 15 62 12 78 71 3y-1pm 6 11 18 10 8 4 3 53 11 60 3y-1pm 6 11 6 7 7 5 52 10 64 3pm 4 8 12 6 7 6 5 10 64 4pm 15 9 16 2 5 5 10 64 5pm 3 1 3 4 4 9 48 6pm 3 1 3 4 4 7 44 7pm 3 4 4 4 4 25 9pm 4 4 4 4 4 2 9pm 4 4	9am - 10am	8	15	8	16	11	5	5	58	12	89	10
-Midday 8 13 15 15 16 18 6 2 12 78 2pm 1 18 10 8 4 3 53 11 60 2pm 13 15 11 6 7 7 5 52 10 64 3pm 4 8 3 4 10 13 2 5 10 64 4pm 15 8 10 16 2 5 58 12 65 5pm 3 4 3 44 9 48 65 6pm 3 16 3 4 4 9 48 6pm 3 4 4 4 9 48 4 7pm 4 2 3 4 47 9 48 8pm 4 4 4 4 4 4 4 4	10am - 11am	10	19	11	13	10	3	5	63	13	71	10
2pm 1 18 10 8 4 3 53 11 60 2pm 13 15 11 6 7 7 5 52 10 64 3pm 4 8 11 6 7 7 7 5 52 10 64 4pm 4 8 10 9 16 2 5 8 12 65 45 6pm 7 9 8 13 7 1 3 44 9 48 6pm 3 1 3 4 47 9 48 8pm 1 2 3 7 5 2 18 4 25 9pm 5 2 4 4 4 4 25 10pm 3 4 4 4 3 1 4 2 11pm 1 2 3 <	11am - Midday	8	8	13	15	18	œ	8	62	12	78	7
2pm 13 15 11 6 7 7 5 55 10 64 3pm 4 10 13 3 29 6 45 4pm 15 8 10 9 16 2 5 58 12 65 4pm 7 9 8 13 7 1 3 44 9 48 6pm 3 12 9 12 3 4 47 9 48 8pm 1 2 12 3 4 47 9 54 9pm 5 2 4 47 9 4 25 10pm 3 4 4 3 1 4 25 9pm 4 5 4 4 2 4 2 10pm 6 1 2 4 4 4 2 11pm 1	Midday - 1pm	9	11	18	10	8	4	3	53	1	09	6
.3pm 4 10 13 29 6 45 4pm 15 8 10 9 16 2 5 58 12 65 5pm 7 9 13 7 1 3 44 9 48 6pm 3 15 9 5 2 37 7 44 6pm 3 16 12 3 4 47 9 48 8pm 1 2 3 4 47 9 54 8pm 5 6 2 4 4 25 9 4 25 9pm 5 6 7 4 3 1 4 25 9pm 5 6 7 4 3 1 4 25 10pm 6 7 4 3 1 4 2 16 1-11pm 0 1	1pm - 2pm	13	15	11	9	7	7	5	52	10	64	6
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-Spm 7 1 3 44 9 48 6pm 6pm 2 4 9 48 6pm 3 2 37 7 44 7pm 8 10 9 12 3 4 47 9 54 8pm 1 2 3 7 5 2 18 4 55 9pm 5 6 2 4 7 18 4 25 10pm 3 4 5 4 3 1 4 25 11pm 1 0 6 1 2 3 1 4 2 11pm 1 2 3 3 1 4 1 11pm 1 2 3 3 4 1 1 11pm 1 2 3 3 4 1 1 1 1 2 </td <th>3pm - 4pm</th> <td>15</td> <td>8</td> <td>10</td> <td>6</td> <td>16</td> <td>2</td> <td>5</td> <td>28</td> <td>12</td> <td>9</td> <td>6</td>	3pm - 4pm	15	8	10	6	16	2	5	28	12	9	6
-6pm 3 4 4 7pm 8 10 9 12 3 4 47 9 54 7pm 8 10 1 1 1 1 2 54 8pm 1 2 4 4 0 1 21 4 25 9pm 3 4 5 4 4 0 1 1 4 22 10pm 3 4 5 4 3 1 1 22 1-11pm 1 0 1 2 3 1 4 2 16 1-Midnight 0 1 2 3 1 3 1 1 10 1-Midnight 13 14 13 16 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4pm - 5pm	7	6	8	13	7	1	3	44	6	48	7
7pm 8 10 9 12 3 4 47 9 54 8pm 1 2 3 7 5 2 18 4 25 9pm 5 6 2 4 4 0 1 21 4 22 10pm 3 4 5 2 4 3 1 18 4 22 1-11pm 1 0 6 1 2 3 3 10 2 16 Niddight 0 1 2 2 3 5 1 10 Niddight 13 13 16 17 73 17 873	5pm - 6pm	က	2	80	15	o	2	2	37	7	44	9
8pm 1 2 5 3 7 5 18 4 25 9pm 5 6 2 4 4 0 1 21 4 22 1 0pm 3 4 5 2 4 3 1 18 4 22 1-11pm 1 0 6 1 2 3 3 10 2 16 Nidnight 0 1 2 2 3 5 1 10 1-Midnight 147 137 169 167 73 61 73 74 873	6pm - 7pm	∞	8	10	6	12	က	4	47	6	54	∞
9pm 5 6 2 4 6 1 21 4 22 10pm 3 4 5 2 4 3 1 18 4 22 1-11pm 1 0 6 1 2 3 10 2 16 Nidnight 0 1 2 0 2 2 3 5 1 10 119 147 137 169 167 73 61 73 73 74 873	7pm - 8pm	_	2	5	ဇ	7	5	2	18	4	25	4
-10pm 3 4 5 2 4 3 1 18 4 22 1-11pm 1 0 6 1 2 3 3 10 2 16 I-Midnight 0 1 2 2 3 5 1 10 119 147 137 169 167 73 61 739 147 873	8pm - 9pm	5	9	2	4	4	0	-	21	4	22	က
1-11pm 1 0 6 1 2 3 3 10 2 16 16 11 10 10 10 10 10 10 10 10 10 10 10 10	9pm - 10pm	ဇ	4	5	2	4	က	-	18	4	22	က
1-Midnight 0 1 2 0 2 3 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1	10pm - 11pm	1	0	9	1	2	3	3	10	2	16	2
119 147 137 169 167 73 61 739 147 873	11pm - Midnight	0	_	2	0	2	2	3	2	1	10	1
	Total	119	147	137	169	167	73	61	739	147	873	124

Count Number Street	965 Ref : Ref CITTLE QUEEN STREET, CHIPPENDAL!	N STREET, C	·	GTA : From ABERCROMBIE STREET to BALFOUR STREET : EAST BOUND	OMBIE STREE	T to BALFOU	D: JR STREET : E/	Directory Ref EAST BOUND	ef : UBD 256 A-2	256 A-2	
Location	Between Aberci	rombie Street	ı⊼	et, House No.	, ELP			_	Carriageway		
			Start	Date T:	14-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		25
TOTAL COL	TOTAL COUNT MATRIX		Dura	Start Time Duration Interval	7 DAYS 1 HOUR		Weekly Som Pero Five Day AADT Seven Day AADT	Stin Percentile S AADT 3y AADT	pbeed	~ ~	135
	NOM LTO	TUE	WED	THU	FRI	SAT	SUN	5 Dav	av Average	7 Dav	Jav
Midnight - 1am	2	0	0	2	0	2	101		1		1
1am - 2am	0	0	0	0	_	2	_	-	0	4	-
2am - 3am	0	0	_	-	0	0	_	7	0	က	0
3am - 4am	1	0	0	0	0	0	0	1	0	-	0
4am - 5am	1	0	0	0	0	0	0	1	0	1	0
5am - 6am	2	2	0	1	1	0	0	9	1	9	1
6am - 7am	1	2	0	3	3	2	0	6	2	11	2
7am - 8am	12	10	11	6	10	0	0	52	10	52	7
8am - 9am	17	15	13	19	27	2	2	91	18	86	14
9am - 10am	6	8	0	6	6	4	1	35	7	40	9
10am - 11am	5	12	3	8	11	9	4	39	8	49	7
11am - Midday	11	5	5	7	11	9	5	39	80	20	7
Midday - 1pm	7	4	16	10	11	9	12	48	10	99	6
1pm - 2pm	13	7	11	8	11	9	8	20	10	64	6
2pm - 3pm	4	4	7	11	6	8	5	35	7	48	7
3pm - 4pm	9	6	11	8	15	7	4	49	10	09	6
4pm - 5pm	9	14	7	8	7	11	3	42	8	26	8
2pm - 6pm	8	15	11	9	12	2	6	52	10	63	6
6pm - 7pm	6	4	15	11	15	4	5	54	11	63	6
7pm - 8pm	3	9	4	2	8	4	4	23	2	31	4
8pm - 9pm	2	5	5	2	3	1	5	17	3	23	3
9pm - 10pm	1	3	2	1	4	2	5	11	2	18	3
10pm - 11pm	0	2	0	2	4	2	1	8	2	11	2
11pm - Midnight	2	2	-	0	2	8	0	7	1	15	2
Total	122	129	123	128	174	88	92	929	135	840	120

COUNT MATRIX COUN	Count Number	965		Ref : G	GTA			О	Directory Ref		: UBD 256 A-2	
Total County Matrix Street and Ballour Street House No. ELP Start Date 14FE b-7 Needly Still Percentile Speed 37 140	Street	LITTLE QUEEN	I STREET, C	HIPPENDALE:	From BALFOU	R STREET to A	BERCROMB	IE STREET : W	EST BOUND			
Signt Dale 14-FED-07 Weekly Softh Percentile Speed 28 Start Time 1000 Weekly Softh Percentile Speed 38 Start Time 1000 Weekly Softh Percentile Speed 38 Start Time 1000 Mol	Location	Between Aberci	rombie Street	and Balfour Stre	et, House No.	, ELP			2	arriageway		
TOTAL COUNT MATRIX TOTAL C				Start	t Date	14-FEB-07		Weekly 5	Oth Percentile	Speed		27
MON TUE WED THU FRI SAT SUN TOAI Average TOAI Average ght-1am 197H 207H 14HL2157 157H 167H 177H 187H TOAI Average TOAI Average 3am 1 2 0 0 0 0 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 6 1<	TOTAL COL	UNT MATRIX		Dura	t IIme ation val	7 DAYS 1 HOUR		vveekly 8 Five Day Seven Da	AADT AADT ay AADT	obeed	. `	8 4 4 163 163
girt 19/11 20/11 10/11 10/11 10/11 Average 10481 Average 2am 1 0 1 2 0 1 6 5 1 1 12 3am 1 0 1 2 0 0 0 4 1 1 4 1 4 4am 1 0 0 0 0 0 0 0 0 1 4 1 1 4 1 1 1 4 1 1 1 4 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 4 1 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4		NOM	TUE	WED	UHT	FRI	SAT	NNS	5 D		7	av
2am 1 0 1 2 0 0 4 1 4 3am 0 2 1 1 2 5 5 1 4 1 3am 1 2 1 1 1 2 5 5 1 9 1 9 5am 1 2 2 2 0 1 1 6 1 8 6am 0 2 2 2 0 2 1 1 6 1 8 8am 16 2 2 2 0 2 1 8 1 7am 10 1	Midnight - 1am	2814	0	14111/2131	15/1	0	1/1	9		verage 1		Average 2
3am 0 2 1 1 1 2 5 1 9 4am 2 0 4 0 1 1 6 1 8 5am 1 0 0 4 0 1 1 6 1 8 6am 1 2 2 2 2 1 1 1 1 1 8 1 8 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 1 2 1 2 1 2 1 3 4 4 7 1 4 7 4 4 7 4 4 7 4 4 4 4 4 4	1am - 2am	_	0	_	2	0	0	0	4	-	4	_
4am 2 0 4 0 4 0 4 0 4 9 1 1 6 1 8 5am 1 0 2 2 2 1 1 2 5 7am 1 2 2 2 1 1 2 0 2 1 2 0 5 7am 1 2 2 1	2am - 3am	0	2	_	_	-	2	2	5	1	6	-
Sam 1 0 0 1 1 2 2 2 1 5 5 5 5 5 6 1 2 1 5 1 2 1 6 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 4 1 4 4 1 4 4 2 7 4 4 7 4 4 7 4 4 7 4 4 7 4 7 4 4 7 4 4 7 4 4 7 4 4 7 4 4 7 4 4 4 4 4 4	3am - 4am	2	0	0	4	0	_	_	9	-	∞	-
6am 0 2 2 5 2 1 2 13 14 1 1 2 13 1 1 1 2 1 <th>4am - 5am</th> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>0</td> <td>5</td> <td>-</td>	4am - 5am	1	0	0	0	1	1	2	2	0	5	-
7am 1 2 2 1	5am - 6am	0	2	2	5	2	0	2	11	2	13	2
8am 15 9 11 12 15 9 0 64 64 64 64 64 71 14 77 94 7 14 14 14 14 14 14 14 14 14 14 14 16 14 10 14 14 16 14 10 14 14 15 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14	6am - 7am	1	2	2	1	1	1	0	7	1	8	1
9am 10 19 13 14 15 4 2 71 14 77 10am 10 9 0 10 12 7 7 7 33 7 47 77 14 7 47 7 48 47 48 47 48	7am - 8am	15	6	11	12	15	2	0	62	12	64	6
10am 10 9 10 4 7 7 33 7 47 -11am 4 13 3 12 12 7 12 7 47 47 47 -Inidday 9 23 12 15 15 16 16 16 17 6 18 19 6 13 8 50 10 10 70 -Spin 14 13 14 16 14 16 17 56 17 68 3pm 19 18 14 7 13 7 8 16 17 17 18 10 17 10	8am - 9am	10	19	13	14	15	4	2	71	14	77	11
1-11am 4 13 3 12 7 12 7 12 8 39 8 59 Midday 9 23 12 15 15 16 16 17 9 6 13 81 50 ay-1pm 7 14 16 17 16 17 6 17 60 70	9am - 10am	10	6	0	10	4	7	7	33	7	47	7
- Midday 9 6 6 13 81 ay-1pm 7 14 6 14 11 8 10 52 10 70 2pm 14 13 13 13 6 14 11 8 10 52 10 70 3pm 5 17 16 14 16 14 10 5 10 70 70 4pm 13 14 14 7 13 16 16 17 66 13 81 70 68 5pm 19 14 7 13 7 3 61 17 68 6pm 19 14 7 13 4 8 14 10 68 11 68 10 68 10 69 11 68 11 68 11 68 11 68 11 68 12 12 12 12	10am - 11am	4	13	3	12	7	12	8	39	8	29	8
ay-1pm 7 14 6 14 11 8 10 52 10 70 2pm 13 13 6 10 5 7 56 11 68 3pm 14 15 17 16 14 6 8 8 52 10 68 4pm 13 14 16 14 10 5 66 13 61 5pm 13 14 7 13 7 3 61 12 7 6pm 19 15 14 13 14 12 14 12 14 15 7 pm 14 13 14 13 14 2 14 13 143 143 10pm 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11am - Midday	6	23	12	15	7	6	9	99	13	81	12
-2pm 14 13 13 6 10 5 7 56 11 68 -3pm -3pm 5 17 10 14 6 8 8 52 10 68 -4pm 13 16 14 10 5 66 13 81 <th>Midday - 1pm</th> <td>7</td> <td>14</td> <td>9</td> <td>14</td> <td>11</td> <td>8</td> <td>10</td> <td>52</td> <td>10</td> <td>20</td> <td>10</td>	Midday - 1pm	7	14	9	14	11	8	10	52	10	20	10
-3pm 5 17 10 14 6 8 8 52 10 68 -4pm 13 16 14 10 5 66 13 81 -5pm 19 18 14 7 13 7 3 61 12 71 -6pm 19 15 27 14 13 12 9 88 18 109 -7pm 19 17 24 12 4 8 111 22 123 -8pm 1 8 4 8 14 3 123 123 -9pm 7 8 6 7 5 14 3 23 -11pm 2 3 4 5 4 3 23 -11pm 3 2 4 5 4 3 2 3 -11pm 3 2 3 4 5 14 <th>1pm - 2pm</th> <td>14</td> <td>13</td> <td>13</td> <td>9</td> <td>10</td> <td>2</td> <td>7</td> <td>26</td> <td>11</td> <td>89</td> <td>10</td>	1pm - 2pm	14	13	13	9	10	2	7	26	11	89	10
-4pm 13 16 14 10 5 66 13 81 -5pm -5pm 9 18 14 7 13 7 3 61 12 71 -6pm 19 15 27 14 13 12 9 88 18 109 -7pm 19 4 8 111 22 123 123 -8pm 7 3 7 4 8 111 22 123 -9pm 7 3 7 4 4 4 4 35 7 43 -10pm 2 3 4 5 4 3 23 3 23 1-11pm 3 2 4 3 5 5 5 5 34 1-11pm 1 7 4 3 5 5 5 5 3 2 3 3 4 3	2pm - 3pm	5	17	10	14	9	8	8	52	10	89	10
-5pm 9 18 14 7 13 7 3 61 12 71 6pm 19 15 27 14 13 12 9 88 18 19 109 7pm 19 15 27 14 13 4 8 111 22 123 109 8pm 4 8 14 3 7 43 43 9 4 4 35 7 43 9pm 7 3 6 7 5 31 6 43 23 10pm 2 3 6 5 3 26 5 34 1-11pm 3 2 3 5 2 4 3 3 4 1-11pm 3 2 3 5 5 5 3 4 1-11pm 3 3 3 4 5 16 5 <	3pm - 4pm	13	10	13	16	14	10	2	99	13	81	12
-6pm 19 15 27 14 13 12 9 88 18 109 7 pm 19 14 14 22 123 123 123 9pm 7 3 7 4 4 4 35 7 43 9pm 7 3 7 8 6 7 5 31 6 43 9pm 7 3 4 5 31 6 43 10pm 2 4 3 4 5 14 3 23 1-11pm 3 7 4 3 5 5 5 5 3 23 1-14pm 1 7 2 3 5 5 5 5 3 2 1-14pm 1 7 2 3 5 5 16 5 3 2 1-14pm 1 2 2 3	4pm - 5pm	6	18	14	7	13	7	3	61	12	71	10
-7pm 19 17 34 22 19 4 8 111 22 123 -8pm 4 8 4 4 4 35 7 43 -9pm 7 3 6 7 5 31 6 43 -10pm 2 3 4 5 14 3 23 1-11pm 3 7 4 3 9 5 3 26 5 34 1-Midnight 1 7 2 3 5 2 16 3 23 1-Midnight 1 18 17 19 17 19 16 15 14 3 23	5pm - 6pm	19	15	27	14	13	12	6	88	18	109	16
-8pm 4 7 12 4 4 35 7 43 -9pm 7 8 6 7 5 31 6 43 -10pm 2 3 4 3 4 5 14 3 23 -11pm 3 7 4 3 9 5 3 2 3 -Midnight 1 7 2 3 5 5 16 3 23 -Midnight 18 18 18 17 19 105 919 183 1143	6pm - 7pm	19	17	34	22	19	4	8	111	22	123	18
-9pm 7 8 6 7 5 31 6 43 -10pm 2 3 4 3 4 5 14 3 23 1-11pm 3 7 4 3 6 5 5 5 3 23 1-Midnight 1 7 2 3 5 5 16 3 23 1-Midnight 15 21 18 18 11 11 18 18 18 11 18 11 18 10 19 10 10 10 11	7pm - 8pm	4	8	4	7	12	4	4	35	7	43	9
-10pm 2 4 3 4 5 14 3 23 1-11pm 3 7 4 3 9 5 3 26 5 34 1-Midnight 1 7 2 3 3 5 16 3 23 158 211 182 196 172 119 105 919 183 1143	8pm - 9pm	7		7	8	9	7	2	31	9	43	9
1-11pm 3 7 4 3 9 5 3 26 5 34 1-Midnight 1 7 2 3 3 5 5 2 16 3 23 158 211 182 196 172 119 105 919 183 1143	9pm - 10pm	2	3	2	4	3	4	2	14	3	23	3
1-Midnight 1 7 2 3 3 5 5 2 16 3 23 15 211 182 196 172 119 105 919 183 1143	10pm - 11pm	3	7	4	3	6	5	3	26	2	34	2
158 211 182 196 172 119 105 919 183 1143	11pm - Midnight	_	7	2	3	3	2	2	16	က	23	ဗ
	Total	158	211	182	196	172	119	105	919	183	1143	163

Count Number	963		Ref : GTA					Directory Ref		· UBD 256 B-2	
Street	MEAGHER STREET, CHIPPENDALE	REET, CHIPF		ABERCROM	: From ABERCROMBIE STREET to REGENT STREET : WEST BOUND	REGENT STR	ZEET : WEST E	SOUND			
Location	Between Chipp	en Street and	Between Chippen Street and Chippen Lane, House No.54	louse No.54)	Carriageway		
			Start	Date	14-FEB-07		Weekly !	Weekly 50th Percentile Speed	Speed		32
TOTAL COUNT MATRIX	INT MATRIX		Start Time Duration Interval	lime ion al	7 DAYS 1 HOUR		vveekiy a Five Day Seven D	veekly som Percentile Speed Five Day AADT Seven Day AADT	Speed	7 7	39 1172 1023
	MON	TUE	WED	呈	FRI	SAT	SUN	5 Dav	,	7 Dav	av
	19TH	20TH	14TH/21ST	15TH	16TH _	17TH	18TH		Average		Average
Midnight - 1am	ω	4	15	11	7	23	24	45	6	92	13
1am - 2am	7	7	2	2	6	7	14	33	7	54	8
2am - 3am	2	1	4	9	2	8	16	15	3	39	9
3am - 4am	4	5	1	8	4	11	8	22	4	41	9
4am - 5am	7	4	8	5	11	6	8	35	7	52	7
5am - 6am	10	11	6	5	12	5	11	47	6	63	6
6am - 7am	43	32	37	38	37	12	12	187	37	211	30
7am - 8am	55	29	64	56	63	26	12	305	61	343	49
8am - 9am	108	124	115	91	87	33	22	525	105	580	83
9am - 10am	78	108	110	75	88	52	23	460	92	535	26
10am - 11am	49	29	81	81	2.2	62	27	367	73	456	65
11am - Midday	69	69	20	61	64	46	28	333	29	407	28
Midday - 1pm	64	64	71	72	29	29	37	338	89	442	63
1pm - 2pm	61	58	78	63	64	63	32	324	65	419	09
2pm - 3pm	63	62	25	72	61	22	49	315	63	419	09
3pm - 4pm	91	72	86	71	89	45	40	421	84	206	72
4pm - 5pm	92	83	94	105	100	29	42	474	92	545	78
2pm - 6pm	111	83	114	110	94	32	35	512	102	629	83
6pm - 7pm	73	7.1	113	81	88	29	30	426	85	485	69
7pm - 8pm	39	34	20	38	38	39	17	199	40	255	36
8pm - 9pm	14	31	27	36	25	17	23	133	27	173	25
9pm - 10pm	25	36	29	25	33	21	23	148	30	192	27
10pm - 11pm	21	21	18	23	24	21	17	107	21	145	21
11pm - Midnight	13	12	19	21	24	20	20	88	18	129	18
Total	1107	1138	1287	1159	1169	732	920	2860	1172	7162	1023

Street	963 MEAGHER STREET, CHIPPENDALE:	REET, CHIPF		GTA om REGENT ST	REET to ABER	CROMBIE ST	GIA From REGENT STREET to ABERCROMBIE STREET : EAST BOUND	ory	Ref : UBD	: UBD 256 B-2	
Location	Between Chipp	en Street and	Between Chippen Street and Chippen Lane, House No.54	House No.54					Carriageway		
			Start	Date ∓∵	14-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		37
TOTAL COU	TOTAL COUNT MATRIX		Start IIr Duration Interval	Start Time Duration Interval	7 DAYS 1 HOUR		Weekly 85th Perc Five Day AADT Seven Day AADT	weekiy satri Percentile Speed Five Day AADT Seven Day AADT	paed o	2 +	47 2277 1986
	MOM	TUE	WED	된	FRI	SAT	SUN	5 Dav	2		7 Dav
Midnight 40m	19TH	20TH	14TH/21ST	15TH	16TH	17TH	18TH	Total	Average	Total	Average
1am - 2am	01 41	2 6	2 2	14	5 4	23	600	8 8	14	122	17
2am - 3am	9	9	6	15	17	22	20	23	= =	95	4
3am - 4am	7	14	8	15	8	17	22	52	10	91	13
4am - 5am	8	4	4	1	11	13	14	38	8	65	6
5am - 6am	29	23	24	17	21	12	14	114	23	140	20
6am - 7am	91	80	29	73	81	30	15	392	78	437	62
7am - 8am	122	146	118	114	106	20	40	909	121	969	66
8am - 9am	165	175	193	154	168	28	32	855	171	948	135
9am - 10am	146	197	167	144	142	85	47	962	159	928	133
10am - 11am	116	121	134	108	120	93	25	599	120	749	107
11am - Midday	116	112	26	103	122	84	75	550	110	402	101
Midday - 1pm	104	101	101	122	111	100	85	539	108	724	103
1pm - 2pm	114	122	128	124	132	108	71	620	124	799	114
2pm - 3pm	125	119	124	132	161	66	78	661	132	838	120
3pm - 4pm	156	140	151	152	168	62	29	167	153	888	127
4pm - 5pm	203	200	203	210	175	92	78	991	198	1145	164
5pm - 6pm	243	252	259	253	218	2.2	78	1225	245	1380	197
6pm - 7pm	181	179	273	159	210	74	69	1002	200	1135	162
7pm - 8pm	62	71	82	86	81	73	70	394	62	537	77
8pm - 9pm	52	20	29	92	71	26	29	316	63	401	22
9pm - 10pm	45	58	37	20	54	44	53	244	49	341	49
10pm - 11pm	31	47	35	40	45	55	28	198	40	281	40
11pm - Midnight	27	34	42	22	41	52	33	201	40	286	41
Total	2179	2275	2364	2269	2296	1364	1158	11383	2276	13905	1986

COUNT MATRIX COUN	Count Number	696		Ref : GTA					Directory R	Ref · UBD	. UBD 256 A-2	
Total County MATER Start Date Start Date Start Date Start Date Start Date Start Date Start Time 1 HOUNS Start Date Start Time 1 HOUNS Start Date Start Time Start Date S	Street	MYRTLE STRE	ET, CHIPPEND	ALE : From A	BERCROME	SIE STREET to B	UCKLAND ST	TREET : WEST	7			
TOTAL COUNT MATRIX Signt Traine OG-FEB-07 Weekly Softh Percentile Speed 37 Start Traine 100 Start	Location	Between Wiley	Street and Smit	hers Street, Ho	use No.	, ELP)	Sarriageway		
TOTAL COUNT MATRIX Total C				Start	Date	05-FEB-07		Weekly	50th Percentile	Speed		27
MON TUE WED THU FRI SAT SUN Total Average <	TOTAL CO	UNT MATRIX		Start Durat Interv	IIme ion al	7 DAYS 7 HOUR		Weekly S Five Day Seven D	som Percentile , AADT ay AADT	peed		37 656 585
girt firt firt <th< th=""><th></th><th>MOM</th><th>TUE</th><th>WED</th><th>H</th><th>FRI</th><th>SAT</th><th>SUN</th><th>5 Dav</th><th></th><th>1 /</th><th>Jav</th></th<>		MOM	TUE	WED	H	FRI	SAT	SUN	5 Dav		1 /	Jav
giltr 1am 5 8 11 11 7 10 11 42 8 63 2am 2am 2 0 3 4 9 11 10 2 34 4am 2 2 4 3 2 5 7 10 2 34 4am 3 1 1 3 2 5 7 10 2 34 5am 3 4 1 1 2 5 7 10 2 32 5am 4 1 1 2 5 7 10 2 32 34 35 35 36 37 4 36 37 4 36 37 4 37 4 38 36 46 37 4 36 37 4 38 37 4 38 37 4 38 37 37 37 37 37 </th <th></th> <th>5TH</th> <th>H19</th> <th>HLL</th> <th>8ТН</th> <th>9TH</th> <th>10TH</th> <th>11TH</th> <th></th> <th>verade</th> <th></th> <th>Average</th>		5TH	H19	HLL	8ТН	9TH	10TH	11TH		verade		Average
2am 2 2 4 3 4 1 1 1 2 34 4am 3 4 3 4 6 6 6 7 11 2 3 4 3 4 4 3 4 4 3 4 1 1 2 5 7 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 1 1 2 5 7 11 2 5 7 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 4	Midnight - 1am	2	80	11	11	7	10	11	42	80	63	6
3am 2 4 3 4 9 8 15 3 32 4am 3 1 1 3 2 5 7 10 2 22 5am 3 4 1 1 2 5 1 1 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 <th< td=""><th>1am - 2am</th><td>2</td><td>2</td><td>0</td><td>3</td><td>3</td><td>13</td><td>11</td><td>10</td><td>2</td><td>34</td><td>5</td></th<>	1am - 2am	2	2	0	3	3	13	11	10	2	34	5
4am 3 1 1 3 2 5 7 10 2 22 5am 3 4 1 1 1 2 5 7 11 2 23 5am 2 5 11 8 5 7 11 2 23 7am 3 12 13 13 13 13 6 7 11 2 23 8am 31 43 30 35 14 6 169 34 189 34 189 9am 56 60 60 60 60 60 46 23 20 27 204 41 25 9am 42 46 45 45 45 45 46 45 46 47 47 47 47 47 47 47 47 48 48 48 48 48 48 48 48 <th>2am - 3am</th> <td>2</td> <td>2</td> <td>4</td> <td>3</td> <td>4</td> <td>6</td> <td>8</td> <td>15</td> <td>3</td> <td>32</td> <td>2</td>	2am - 3am	2	2	4	3	4	6	8	15	3	32	2
6am 3 4 1 1 2 5 7 11 2 23 6am 2 5 11 8 7 11 8 5 1 8 7 1 2 37 7am 3 4 12 13 13 6 6 3 6 7 14 8 37 60 34 60 80 36 36 14 60 14 6 16 60 34 18 60 34 18 60 34 18 60 34 18 60 34 18 60 34 18 60 34 18 60 34 18 34 18 34	3am - 4am	3	1	1	3	2	2	7	10	2	22	3
6am 2 5 11 8 5 1 31 6 37 7am 9 12 13 13 13 13 6 3 60 12 69 34 69 34 69 14 6 14 6 14 6 14 6 14 6 18	4am - 5am	3	4	1	1	2	5	7	11	2	23	3
7am 9 12 13 13 13 13 13 13 13 13 13 13 13 13 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 6 14 15 14 16 17 18 <t< td=""><th>5am - 6am</th><td>2</td><td>2</td><td>5</td><td>11</td><td>8</td><td>2</td><td>1</td><td>31</td><td>9</td><td>37</td><td>2</td></t<>	5am - 6am	2	2	5	11	8	2	1	31	9	37	2
8am 31 43 36 36 44 6 169 34 189 9am 56 44 51 51 70 13 10 272 54 285 10am 66 60 60 60 40 22 20 275 54 285 10am 38 56 39 46 23 22 204 41 254 254 -Inday 38 49 42 48 48 46 26 26 204 41 254 25 204 41 254 25 204 41 254 25 204 41 254 25 26 2	6am - 7am	6	12	13	13	13	9	3	09	12	69	10
9am 56 44 51 51 70 13 10 272 54 295 10am 46 60 60 60 49 22 20 275 55 317 10am 46 60 60 49 23 20 275 55 317 -11am 38 42 36 48 45 36 20 41 25 37 204 41 254 37	7am - 8am	31	43	30	35	30	14	9	169	34	189	27
10am 46 60 60 49 22 20 275 55 317 -11am 38 58 39 46 23 28 22 204 41 254 -Midday 33 42 36 48 45 35 20 204 41 254 -Midday 33 42 48 48 48 46 36 20 204 41 254 3yu 10m 49 42 42 26 42 36 39 36 39 38 39 39 36 36 36 36 36 36 39 47 38 36 39 47 38 36 49 39 48 39 48 39 48 38 49 49 49 49 49 49 49 49 49 49 49 49 48 49 48 49 48	8am - 9am	26	44	51	51	20	13	10	272	54	295	42
High 38 46 23 28 28 29 41 254 -Midday 33 42 48 45 48 46 35 20 204 41 259 3y-1pm 28 49 42 42 26 18 49 59 39 259 39 259 39 259 39 259 39 258 39 258 39 258	9am - 10am	46	09	09	09	49	22	20	275	22	317	45
- Midday 33 42 36 48 45 45 56 61 60 204 41 59 3y-1pm 28 49 42 42 34 26 18 195 39 239 2pm 36 41 27 42 26 191 38 239 3pm 48 45 36 36 30 14 180 36 24 4pm 48 38 49 54 50 23 48 26 23 48 28 20 23 48 28 20 23 20 22 22 23 22 22 23 48 28	10am - 11am	38	58	39	46	23	28	22	204	41	254	36
3y - 1pm 28 49 42 42 66 18 195 39 239 2pm 36 41 27 42 25 191 38 258 3pm 39 31 45 39 36 30 14 180 36 224 4pm 48 38 49 54 50 23 20 239 48 262 5pm 47 43 51 50 42 27 21 23 47 201 5pm 45 65 57 27 21 23 47 201 8pm 43 54 56 26 25 224 45 27 8pm 17 18 35 29 16 15 17 21 21 21 21 21 21 21 21 21 22 224 45 22 224 45 22 </td <th>11am - Midday</th> <td>33</td> <td>42</td> <td>36</td> <td>48</td> <td>45</td> <td>35</td> <td>20</td> <td>204</td> <td>41</td> <td>259</td> <td>37</td>	11am - Midday	33	42	36	48	45	35	20	204	41	259	37
2pm 36 41 27 42 26 191 38 568 3pm 3pm 29 36 36 36 14 180 36 224 4pm 48 38 49 54 50 23 20 239 48 282 5pm 47 43 51 50 42 27 21 239 47 281 6pm 47 43 65 67 27 27 21 23 47 281 8pm 45 54 56 57 26 25 224 45 27 8pm 17 16 17 45 16 17 14 17 14 10pm 17 16 17 24 20 13 48 18 121 11pm 13 1 1 1 1 1 1 1 1 1 <	Midday - 1pm	28	49	42	42	34	26	18	195	39	239	34
.3pm 29 31 45 36 36 36 14 180 36 224 4pm 48 38 49 54 50 23 20 239 48 282 5pm 47 43 51 50 42 27 21 233 47 281 6pm 47 41 58 65 54 54 54 54 334 . Tom 47 41 58 65 57 26 25 224 45 275 . Spm 17 14 15 14 145 145 176 176 . Spm 17 14 17 14 17 14 13 17 14 13 . Spm 13 16 17 14 17 14 103 12 14 103 . Spm 13 15 14 15 14 16	1pm - 2pm	36	51	36	41	27	42	25	191	38	258	37
4pm 48 38 49 54 50 23 20 239 48 282 5pm 47 43 51 50 42 27 21 233 47 281 6pm 47 41 58 65 57 30 26 26 26 26 27 45 27 7pm 49 54 39 37 45 26 25 224 45 275 9pm 17 18 17 14 17 45 26 15 145 27 176 9pm 17 17 16 17 24 20 13 17 17 17 10pm 14 17 16 17 24 20 13 18 18 18 121 1-11pm 1 4 9 8 7 14 17 14 13 1-11pm	2pm - 3pm	29	31	45	39	36	30	14	180	36	224	32
5pm 47 43 51 50 42 27 21 23 47 281 6pm 47 41 58 65 65 57 30 208 26 54 54 334 7pm 49 54 36 45 26 27 45 27 45 27 27 9pm 17 16 17 16 17 16 17 16 17 16 17 <th< td=""><th>3pm - 4pm</th><td>48</td><td>38</td><td>49</td><td>54</td><td>20</td><td>23</td><td>20</td><td>239</td><td>48</td><td>282</td><td>40</td></th<>	3pm - 4pm	48	38	49	54	20	23	20	239	48	282	40
-6pm 47 48 65 57 36 30 268 54 334 7pm 49 54 36 45 26 25 224 45 275 8pm 22 21 45 26 16 17 45 27 27 9pm 17 17 16 17 24 20 13 16 17 17 17 10pm 14 17 16 17 24 20 13 18 18 18 18 121 1-11pm 13 14 14 14 103 14 103 1-11pm 13 14 14 16 14 16 17 17 Nididight 7 4 9 8 7 14 103 7 7 7 7 587 657 657 463 354 354 359 657 7<	4pm - 5pm	47	43	51	20	42	27	21	233	47	281	40
7pm 49 54 39 37 45 26 25 224 45 275 8pm 2 2 2 2 46 16 15 145 29 176 9pm 17 17 16 17 24 20 13 17 13 13 1 Opm 14 17 13 18 13 18 18 18 18 13 103 1 - 11pm 13 4 9 8 7 14 103 Niddight 7 4 9 7 71 7 7 73 S87 657 657 713 656 463 354 358 656 4097	2pm - 6pm	47	41	28	65	22	36	30	268	54	334	48
8pm 22 21 38 35 29 16 15 145 29 176 9pm 17 17 16 27 30 13 17 107 21 137 1 Opm 14 17 16 17 24 20 13 88 18 18 18 18 18 12 17 13 1 - 11pm 13 13 18 18 13 13 13 13 1 - Midnight 7 4 9 8 7 21 17 35 7 73 587 657 657 713 656 463 354 354 358 656 4097	- 7pm	49	54	39	37	45	26	25	224	45	275	39
9pm 17 17 16 27 30 13 17 107 21 137 10pm 14 17 16 17 24 20 13 88 18 18 18 18 18 121 1-11pm 13 10 13 19 18 13 72 14 103 Nidnight 7 4 9 8 7 21 17 73 Nidnight 657 657 713 354 354 358 656 4097	7pm - 8pm	22	21	38	35	29	16	15	145	29	176	25
-10pm 14 17 16 17 24 20 13 88 18 18 121 1-11pm 13 10 13 14 103 103 1-11pm 13 14 103 103 103 103 I-Midnight 7 4 9 8 7 7 73 7 587 657 667 713 656 463 354 3280 656 4097	8pm - 9pm	17	17	16	27	30	13	17	107	21	137	20
-11pm 13 10 17 13 19 18 13 72 14 103 -Midnight 7 4 9 8 7 21 17 35 7 73 587 657 667 713 656 463 354 3280 656 4097	9pm - 10pm	14	17	16	17	24	20	13	88	18	121	17
1-Midnight 7 4 9 8 7 21 17 35 7 73 53 7 73 54 657 667 713 656 463 354 3280 656 4097	10pm - 11pm	13	10	17	13	19	18	13	72	14	103	15
587 657 667 713 656 463 354 3280 656 4097	11pm - Midnight	7	4	6	8	7	21	17	35	7	73	10
	Total	587	259	299	713	656	463	354	3280	929	4097	585

Count Number Street	969 MYRTLE STRE	969 Ref : MYRTLE STREET, CHIPPENDALE : Fro	Ref : GTA ALE : From BU	-A SUCKLAND S	GTA m BUCKLAND STREET to ABERCROMBIE STREET : EAST BOUND	RCROMBIE ST	D TREET: EAST 6	ory	Ref : UBD	: UBD 256 A-2	
Location	Between Wiley	Between Wiley Street and Smithers Street	ners Street, Ho	, House No.	, ELP				Carriageway		
			Start	Date	05-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		26
TOTAL COL	TOTAL COUNT MATRIX		Start Time Duration Interval	IIme ion al	7 DAYS 1 HOUR		weekly s Five Day Seven Da	Weekly som Percentile Five Day AADT Seven Day AADT	peed		35 568 490
	MON	TÜE	WED	돼	FRI	SAT	SUN	5 D.		1/	7 Dav
Midnight - 1am	51H 3	61H 3	3	81H 10	91H 6	101H 16	111H 10	l otal A	Averade 5	1 otal 7	Averade 7
1am - 2am	4	_	2	7	4	15	9	18	4	39	9
2am - 3am	က	က	0	-	2	9	10	12	2	28	4
3am - 4am	2	1	1	4	2	7	1	10	2	18	3
4am - 5am	1	1	0	1	0	5	2	3	1	10	1
5am - 6am	2	3	3	4	4	5	1	19	4	25	4
6am - 7am	6	6	14	13	19	3	1	64	13	89	10
7am - 8am	42	23	36	51	33	8	9	185	37	199	28
8am - 9am	25	51	22	28	89	7	11	289	28	307	44
9am - 10am	39	55	56	43	41	18	13	234	47	265	38
10am - 11am	32	54	35	46	47	21	13	214	43	248	35
11am - Midday	27	36	29	44	25	23	13	161	32	197	28
Midday - 1pm	27	40	32	33	39	21	17	171	34	500	30
1pm - 2pm	19	29	24	31	33	17	17	136	27	170	24
2pm - 3pm	26	38	33	32	38	21	10	167	33	198	28
3pm - 4pm	32	41	46	46	35	25	15	200	40	240	34
4pm - 5pm	52	42	53	42	41	25	19	230	46	274	39
5pm - 6pm	48	45	33	53	38	20	16	217	43	253	36
6pm - 7pm	26	34	38	43	39	19	10	180	36	209	30
7pm - 8pm	19	14	20	16	22	11	9	91	18	108	15
8pm - 9pm	13	12	14	23	15	6	16	2.2	15	102	15
9pm - 10pm	11	17	12	8	11	13	9	29	12	78	11
10pm - 11pm	5	4	7	6	18	12	17	43	6	72	10
11pm - Midnight	5	5	6	6	6	17	11	37	7	65	6
Total	505	561	257	627	592	344	247	2842	568	3433	490

Count Number SSE CTA Directory Ref. (SPA) Directory Ref. (SPA) CARRIGORIAN Location MYRILE STREET, CHIPPENDALE STREET, EAST BOUND Carrigorius Carrigorius Carrigorius Location Processor Processor Processor Processor Carrigorius Stand Date of Control												
Total County MATRIX Start Date CoFFED-07 Wieekly Soth Percentile Speed 25 Start Time 1 HOUR Start Time 1 HOUR Start Date Start Date Start Time 1 HOUR Start Date Sta	Count Number Street	958 MYRTLE STRE	ET, CHIPPEND/	Ref : G ALE:From(I A CITY ROAD to	PINE STREET	: EAST BOUN		irectory F		255 Q-2	
TOTAL COUNT MATRIX Signt Dale OS-FEB-07 Weekly SGN Percentile Speed 25 Start Tine 100 Signt Tine 100 Signt Tine 100 Signt Tine 100 Seven Day AADT 383 Signt Tine 100 Seven Day AADT 383 Signt Tine 1	Location	Between Rose	Street and Sheph	nerd Street, H	ouse No.35)	Sarriageway		
TOTAL COUNT MATRIX Total				Start	Date	05-FEB-07		Weekly !	50th Percentile	Speed		26
MON TUE WED THU FRI SAT SUN TOAI Average TOAI Average ght-1am 67H 67H 77H 67H 77H 17H	TOTAL COU	INT MATRIX		Dura	IIme tion ⁄al	7 DAYS 1 HOUR		Vveekiy Five Day Seven D	sour Percentile / AADT lay AADT	obeed		383
ght-1am 57H 67H 7TH 8TH 9TH 10TH 17TH Total Average Average </th <th></th> <th>MOM</th> <th>TUE</th> <th>WED</th> <th>THU</th> <th>FRI</th> <th>SAT</th> <th>SUN</th> <th>5 Day</th> <th></th> <th>7.0</th> <th>)av</th>		MOM	TUE	WED	THU	FRI	SAT	SUN	5 Day		7.0)av
giltr-1am 0 1 1 4 4 7 5 10 2 22 2am 1 1 1 1 1 1 1 1 9 22 4am 1 1 1 1 1 1 0 2 2 8 2 1 9 4am 2 1 2 3 1 2 2 6 1 0 3 4 3 1		5TH	91.	HTT	8ТН	9ТН	10TH	11TH		verage		Average
2am 1 1 1 1 1 1 1 1 1 1 1 9 3am 1 1 1 1 1 1 1 9 1 9 4am 2 0 1 0 1 0 0 4 2 2 0 1 10 5am 0 1 0 1 0 1 0 0 1 0 8 1	Midnight - 1am	0	_	_	4	4	7	2	10	2	22	ဗ
.3am 1 1 2 3 1 0 2 8 2 10 -4am 2 0 1 0 1 0 1 0 1 1 1 -4am 0 1 0 1 0 1 0 4 2 2 2 0 8 1 <th< td=""><th>1am - 2am</th><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>3</td><td>1</td><td>2</td><td>-</td><td>6</td><td>1</td></th<>	1am - 2am	1	1	1	1	1	3	1	2	-	6	1
4am 2 0 1 0 0 4 3 1 10 5am 0 1 0 1 0 4 2 2 0 8 5am 0 1 2 1 2 1 2 0 8 7am 1 2 1 2 1 2 2 2 0 8 7am 2 1 2 1 2 3 1 7 4 2 37 1 4 3 8am 2 13 2 2 1 1 4 2 37 4	2am - 3am	1	1	2	3	1	0	2	8	2	10	1
Sam 0 1 0 4 2 2 2 6 8 Gam 0 1 2 1 2 1 2 6 8 Gam 0 1 2 1 2 1 2 1 9 9 Ram 25 13 17 24 24 24 2 37 7 14 9am 26 13 17 14 17 17 17 14 17 17 17 18	3am - 4am	2	0	_	0	0	က	4	က	-	10	-
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	Total	657	748	784	780	292	562	490	3736	747	4788	684

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6pm 14 16 14 10 9 4 75 15 8 7pm 13 16 16 10 5 90 18 105 8pm 5 9 6 6 42 8 54 9pm 5 7 3 5 3 4 4 23 5 31 9pm 7 3 5 5 4 4 2 3 4 4 23 5 31 10pm 7 3 5 5 4 3 6 6 36 3 7 1-11pm 3 2 0 2 4 3 9 2 16 1-11pm 1 2 2 4 3 9 2 16 Niddight 1 2 2 4 3 9 2 16 Niddight 1 1 <th>4pm - 5pm</th> <td>16</td> <td>13</td> <td>19</td> <td>22</td> <td>16</td> <td>8</td> <td>3</td> <td>98</td> <td>17</td> <td>97</td> <td>14</td>	4pm - 5pm	16	13	19	22	16	8	3	98	17	97	14
7pm 13 16 24 21 16 10 5 90 18 105 8pm 5 9 6 6 42 8 54 90 9pm 5 7 3 5 3 4 4 23 5 31 9pm 7 3 5 5 8 3 5 2 31 1-11pm 3 2 6 4 3 5 6 36 36 1-11pm 3 2 6 4 3 9 2 16 1-11pm 3 1 3 4 3 9 2 16 Nidnight 0 1 2 5 5 3 10 2 18 I-11pm 1 2 4 1 3 4 1 3 4 1	5pm - 6pm	14	21	16	14	10	6	4	75	15	88	13
-8pm 5 9 9 6 42 8 54 9pm 5 3 4 4 23 5 31 10pm 7 3 5 5 8 3 5 28 5 31 1-11pm 3 2 6 7 4 3 6 36 36 1-11pm 3 1 2 2 5 5 3 16 3 Nidnight 0 1 2 1 3 10 2 18 156	6pm - 7pm	13	16	24	21	16	10	5	06	18	105	15
9pm 5 3 4 4 23 5 31 10pm 7 3 5 5 8 3 6 36 36 1-11pm 3 2 6 3 6 36 36 1-Midnight 0 1 2 5 5 5 3 10 2 18 Midnight 158 175 7 18 1156 1156	7pm - 8pm	5	6	10	6	6	9	9	42	8	54	8
-10pm 7 3 5 8 3 5 28 6 36 1-11pm 3 2 4 3 9 2 16 1-Midnight 0 1 2 5 5 5 3 10 2 18 158 197 178 224 187 18 18 1156	8pm - 9pm	2	7	3	2	3	4	4	23	2	31	4
1-11pm 3 2 6 4 3 9 2 16 -Midnight 0 1 2 5 5 5 3 10 2 18 158 197 178 124 187 125 87 944 188 1156	9pm - 10pm	7	3	2	2	8	3	5	28	9	36	2
1-Midnight 0 1 2 2 5 5 5 3 10 2 18 18 1156	10pm - 11pm	3	2	0	2	2	4	3	6	2	16	2
158 197 178 224 187 125 87 944 188 1156	11pm - Midnight	0	_	2	2	2	2	3	10	2	18	3
	Total	158	197	178	224	187	125	87	944	188	1156	165

Continuing Con	Count Namber	700			ě F			1			0 1	
Total County MATER Start Date Coffee Each Office Coffee Each Off	Street	O'CONNOR ST	REET, CHIPPE		m BUCKLAND	STREET to BA	ALFOUR STRE	L EET : EAST BO	UND		733 G-	
Signt Dale OS-FEB-07 Weekly Soft Percentile Speed 35 Signt Dale OS-FEB-07 Chick Soft Percentile Speed 35 Signt Time 100 Chick Soft Percentile Speed 35 Sign Time 35 S	Location	Between Buckla	and Street and 9	Smithers Stree	t, House No.17,)	Sarriageway		
TOTAL COUNT MATRIX Total MATRIX Tota				Start	Date	05-FEB-07		Weekly 5	30th Percentile	Speed		31
MON TUE WED THU FRI SAT SUN TOAI Average TOAI Average ght-1am 5TH 6TH 7TH 6TH 7TH 10TH 10TH<	TOTAL COL	JNT MATRIX		Dura	: IIme Ition val	7 DAYS 1 HOUR		Five Day Seven D	sour Percenule , AADT ay AADT	paado		323 293
Girl 67H 67H 77H 87H 97H 107H 17H Total Average Total		MOM	TUE	WED	표	FRI	SAT	SUN	5 D	,	12	Jav
Participation 2 1 2 4 4 5 2 7 1 2 Jame 1 1 2 1 2 4 4 7 7 1 1 2 Jame 1 1 2 1 1 2 7 1	Midnight	5TH	6TH	HTT C	8TH	97H	10TH	117H		verage		Average
3am 1 1 2 2 3 2 7 1 1 1 4am 4am 4am 6am 1 <th< th=""><th>1am - 2am</th><th>2 0</th><th>- -</th><th>2 0</th><th>t 0</th><th>t -</th><th>n c</th><th>7 2</th><th>2 </th><th>۰ -</th><th>17</th><th>3 6</th></th<>	1am - 2am	2 0	- -	2 0	t 0	t -	n c	7 2	2	۰ -	17	3 6
-4am 0 1 1 1 1 1 1 9 1 9 9 5 4 9 1 9 9 5 5 6 6 9 1 1 1 2 2 2 0 5 5 6 9 5 6 9 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 7 2 17 4 9 5 5 5 9 5 7 1 2 1 4 9 5 5 1 4 9 5 1 4 4 9 5 5 4 9 5 2 2 1 4 9 5 5 4 9 1 4 9 1 <th>2am - 3am</th> <td>7 -</td> <td>-</td> <td>2 2</td> <td>7 -</td> <td>- 5</td> <td>ာ က</td> <td>5</td> <td>7</td> <td></td> <td>12</td> <td>2 2</td>	2am - 3am	7 -	-	2 2	7 -	- 5	ာ က	5	7		12	2 2
Sam 0 0 1 1 1 2 2 0 5 Gam 2 3 1 4 1 2 12 2 15 7 7 4 1 2 12 2 15 15 15 15 15 15 15 15 14 35 18 18 14 35 18 18 18 18 18 18 18 18 18 14 35 35 14 35 35 35 35 35 <th>3am - 4am</th> <td>0</td> <td>0</td> <td>_</td> <td>-</td> <td>_</td> <td>ဗ</td> <td>3</td> <td>ဗ</td> <td>-</td> <td>6</td> <td>1</td>	3am - 4am	0	0	_	-	_	ဗ	3	ဗ	-	6	1
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7am 10 7 9 7 11 5 34 49 52 8am 33 35 35 36 36 37 44 36 42 7 2 174 35 183 9am 37 34 35 32 45 45 17 20 42 27 48 36 42 27 1-14am 17 20 15 22 15 14 145 29 18 17 1-Midday 13 12 14 22 14 18 18 18 18 118	5am - 6am	2	2	3	1	4	1	2	12	2	15	2
8am 35 36 36 36 36 37 4 36 45 7 2 174 35 183 9am 37 44 39 43 45 7 12 108 42 27 1-10am 2 3 2 4 15 4 45 5 14 15 14 15 14 15 14 15 14 16 14 16 14 16 14 16 14 16 14 16 14 16 14 16 14 16 14 16 14 16 17 17 17 18 10 11 10 3bm 16 16 18 17 17 17 18 10 11 10 4bm 15 16 17 18 16 18 16 10 10 10 5bm 16 18 <th>6am - 7am</th> <td>10</td> <td>7</td> <td>6</td> <td>7</td> <td>11</td> <td>5</td> <td>3</td> <td>44</td> <td>6</td> <td>52</td> <td>7</td>	6am - 7am	10	7	6	7	11	5	3	44	6	52	7
9am 37 44 39 43 45 7 12 208 42 27 10am 26 30 32 34 45 15 14 145 29 174 1-11am 17 20 15 22 14 16 18 18 18 18 18 18 18 17 16 10	7am - 8am	33	35	39	32	35	7	2	174	35	183	26
10am 26 30 32 33 24 15 44 145 29 174 1-1dam 17 20 15 22 15 21 8 89 18 18 18 1-Midday 13 12 14 22 14 18 13 75 15 16 18 18 18 13 75 15 106 18 18 18 17 17 18 17 18 17 18 17 12 10 20 13 20 13 20 13 20 13 20 13 13 13 13 13 13 13	8am - 9am	37	44	39	43	45	7	12	208	42	227	32
1-11am 17 20 15 22 15 21 8 89 18 118 Midday 13 12 14 22 14 18 13 75 15 106 ay-1pm 10 16 18 14 18 13 75 15 106 2pm 16 18 14 18 17 78 16 17 17 78 104 3pm 26 17 18 17 18 17 18 10 10 4pm 16 19 23 23 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 17 18 18 18 19 20 13 6pm 22 24 12 14 18 12 112 12 13 13 9pm 12	9am - 10am	26	30	32	33	24	15	14	145	59	174	25
1-Midday 13 12 14 22 14 18 13 75 15 16 10 ay-1pm 10 16 16 18 14 19 18 17 17 13 104 2pm 16 16 18 13 17 17 78 16 112 3pm 26 17 16 18 17 17 78 16 112 4pm 15 14 13 20 12 11 81 16 104 5pm 16 13 20 12 14 16 10 20 13 6pm 20 13 23 23 12 14 98 20 133 7 pm 12 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	10am - 11am	17	20	15	22	15	21	8	88	18	118	17
ay - 1pm 10 16 9 18 14 19 18 67 13 104 2pm 2pm 16 18 13 17 17 78 16 13 17 17 78 16 112 3pm 26 17 18 15 14 81 16 13 4pm 15 14 18 16 19 20 13 5pm 16 19 23 23 17 18 14 98 20 13 6pm 23 13 16 17 18 14 98 20 13 7 pm 24 13 17 12 14 5 14 13 8pm 11 12 14 15 14 5 14 15 14 14 14 14 14 14 14 14 14 14 14 14	11am - Midday	13	12	14	22	14	18	13	75	15	106	15
-2pm 16 18 13 17 17 78 16 18 13 17 78 16 19 21 18 15 99 20 132 4pm 15 14 13 19 20 12 11 81 16 104 -bm 15 14 13 17 18 17 18 14 98 20 130 -bm 23 17 18 17 12 10 20 133 -pm 23 24 12 12 10 20 13 -pm 11 12 14 13 17 5 58 12 13 -pm 10 1 1 4 5 2 4 5 4 9 54 -pm 10 1 4 5 2 7 40 8 49	Midday - 1pm	10	16	6	18	14	19	18	29	13	104	15
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-4pm 15 14 13 19 20 12 11 81 16 104 -5pm 15 23 17 18 17 18 14 98 20 130 -6pm 23 17 18 15 21 12 10 20 133 -7pm 22 13 28 23 12 12 12 22 136 -8pm 12 14 13 17 5 58 12 80 136 -9pm 14 13 17 5 45 9 54 9 54 -10pm 10 11 4 5 2 7 40 8 49 -11pm 2 7 40 6 3 7 45	2pm - 3pm	26	17	16	19	21	18	15	66	20	132	19
-5pm 16 19 23 17 18 17 18 17 18 15 21 12 100 20 130 -6pm 23 17 18 15 21 12 100 20 136 -7pm 2 2 13 17 12 12 136 136 -8pm 12 14 13 17 5 58 12 80 -9pm 10 10 11 4 16 17 4 5 45 5 46 56 -10pm 10 11 4 5 2 7 40 8 49 -11pm 2 7 4 6 35 7 45	3pm - 4pm	15	14	13	19	20	12	11	81	16	104	15
-6pm 23 17 27 18 15 21 10 20 133 -7pm 26 26 13 28 13 12 12 14 13 17 15 15 16 16 17 15 16 16 17 16 16 17 16 <th< td=""><th>4pm - 5pm</th><td>16</td><td>19</td><td>23</td><td>23</td><td>17</td><td>18</td><td>14</td><td>86</td><td>20</td><td>130</td><td>19</td></th<>	4pm - 5pm	16	19	23	23	17	18	14	86	20	130	19
- 7pm 22 26 13 28 12 12 12 13 14 13 17 15 15 12 136 136 14 13 17 5 58 12 80 18 19 54 80 19 54 80 14 10 4 5 45 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 54 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 7 45 9 45	5pm - 6pm	23	17	27	18	15	21	12	100	20	133	19
-8pm 8 11 12 14 13 17 5 58 12 80 -9pm 12 9 4 10 10 10 4 5 45 9 54 -10pm 10 11 4 5 7 40 8 49 I - 11pm 2 7 40 8 13 4 6 35 7 45 I - Midnight 3 5 1 3 10 6 3 22 4 31 306 31 31 31 31 31 32 32 32	6pm - 7pm	22	26	13	28	23	12	12	112	22	136	19
-9pm 12 9 4 10 10 4 5 45 6 45 5 40 5 54 9 54 1-10pm 10 10 11 4 5 7 40 8 49 1-11pm 2 7 6 35 7 45 7 45 1-Midnight 3 5 1 3 10 6 3 2 4 31 306 318 36 351 331 243 161 322 2052	7pm - 8pm	8	11	12	14	13	17	5	58	12	80	11
-10pm 10 11 4 5 2 7 40 8 49 1-11pm 2 7 5 8 13 4 6 35 7 45 1-Midnight 3 5 1 3 10 6 3 22 4 31 306 318 351 331 243 195 1614 322 2052	8pm - 9pm	12	6	4	10	10	4	2	45	6	54	8
1-11pm 2 7 5 8 13 4 6 3 5 7 45 1-Midnight 3 5 1 3 8 10 6 3 22 4 31	9pm - 10pm	10	10	11	4	5	2	7	40	8	49	7
1-Midnight 3 5 1 3 10 6 3 22 4 31 31 31 31 243 195 1614 322 2052	10pm - 11pm	2	7	5	8	13	4	9	35	7	45	9
306 318 308 351 331 243 195 1614 322 2052	11pm - Midnight	3	5	-	3	10	9	3	22	4	31	4
	Total	306	318	308	351	331	243	195	1614	322	2052	293

Count Number Street	966 QUEEN STREE	ET, CHIPPEN	966 QUEEN STREET, CHIPPENDALE:From BALFOUR STREET to REGENT STREET:EAST BOUND	GTA BALFOUR STRE	EET to REGENI	r Street : E/		Directory Ref	ef : UBD 256 A-2	256 A-2	
Location	Between Balfou	ır Street and (Between Balfour Street and Chippen Street, House No.12	louse No.12				S	Carriageway		
			Start	Date ∓∵	14-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		27
TOTAL COU	TOTAL COUNT MATRIX		Start Dura Inter	Start IIme Duration Interval	1300 7 DAYS 1 HOUR		Weekly 85th Perci Five Day AADT Seven Day AADT	weekly som Percentile Speed Five Day AADT Seven Day AADT	peed	(37 239 195
	MON	TUE	WED	THU	FRI	SAT	NOS	5 D		7	av
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1am - 2am	_	0	0	2	_	2	8	4	-	6	-
2am - 3am	0	0	0	0	0	0	2	0	0	7	0
3am - 4am	0	0	0	1	0	1	1	1	0	3	0
4am - 5am	1	1	1	2	1	1	2	9	1	6	1
5am - 6am	2	4	1	1	0	1	1	8	2	10	1
6am - 7am	4	5	1	4	3	1	0	17	3	18	3
7am - 8am	12	9	7	8	7	1	1	40	8	42	9
8am - 9am	13	13	33	20	23	2	3	102	20	110	16
9am - 10am	17	26	25	12	18	9	2	86	20	106	15
10am - 11am	17	21	18	22	13	6	7	91	18	107	15
11am - Midday	13	10	32	15	22	12	0	92	18	104	15
Midday - 1pm	23	22	10	13	12	12	11	80	16	103	15
1pm - 2pm	20	16	12	12	23	8	2	83	17	93	13
2pm - 3pm	17	22	17	19	17	7	4	92	18	103	15
3pm - 4pm	21	16	21	17	16	12	0	91	18	103	15
4pm - 5pm	6	19	21	19	21	12	0	89	18	101	14
2pm - 6pm	18	21	32	18	15	9	0	104	21	110	16
6pm - 7pm	19	17	18	18	13	5	0	85	17	06	13
7pm - 8pm	2	6	10	8	2	2	0	34	7	36	2
8pm - 9pm	8	5	2	3	2	4	0	23	2	27	4
9pm - 10pm	8	5	9	-	9	4	0	21	4	25	4
10pm - 11pm	2	2	3	9	2	3	0	15	3	18	က
11pm - Midnight	2	1	9	3	_	7	4	13	3	24	3
Total	228	241	276	226	223	129	45	1194	238	1368	195

Count Number Street	966 QUEEN STREI	ET, CHIPPEN	$_{ m Ref}$: GTA QUEEN STREET, CHIPPENDALE : From REGENT STREET to BALFOUR STREET : WEST BOUND	GTA REGENT STREE	ET to BALFOUI	R STREET : W	_	Directory Ref		: UBD 256 A-2	
Location	Between Balfou	ır Street and (Between Balfour Street and Chippen Street, House No.12	louse No.12				0	Carriageway		
			Start	Date	14-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		8 8
TOTAL COUNT MATRIX	NT MATRIX		Dura	Start IIme Duration Interval	7 DAYS 1 HOUR		Weekly Sour Pe Five Day AADT Seven Day AAI	weekiy oolii reiceniile opeed Five Day AADT Seven Day AADT	paedo		38 344 344
	MON	TUE	WED	UHL	FRI	SAT	SUN	5 D		1	7 Dav
Midnight - 1am	191H	H102	141H/21SI	15/H	161H	4 4	181H	l otal A	Averade 2	otal	Averade 4
1am - 2am	2 2	0	ı e	9	ı m	2	0	14	၊ က	16	. 2
2am - 3am	_	3	0	2	_	2	8	7	-	12	2
3am - 4am	2	0	0	9	0	က	2	8	2	13	2
4am - 5am	_	7	0	0	2	0	2	2	_	10	-
5am - 6am	5	4	5	4	1	2	5	19	4	56	4
6am - 7am	3	ဇ	5	5	4	က	0	20	4	23	က
7am - 8am	26	14	18	19	12	4	0	88	18	93	13
8am - 9am	32	28	33	33	32	5	3	158	32	166	24
9am - 10am	33	37	37	27	22	18	8	156	31	182	26
10am - 11am	21	31	32	34	27	22	13	145	29	180	26
11am - Midday	30	41	34	38	27	14	7	170	34	191	27
Midday - 1pm	30	36	25	36	35	17	10	162	32	189	27
1pm - 2pm	26	33	28	18	21	13	14	126	25	153	22
2pm - 3pm	23	42	38	34	33	14	5	170	34	189	27
3pm - 4pm	40	22	31	31	20	20	0	144	29	164	23
4pm - 5pm	18	34	34	36	41	o	0	163	33	172	25
2pm - 6pm	37	24	34	30	24	14	0	149	30	163	23
6pm - 7pm	28	28	43	26	35	80	0	160	32	168	24
7pm - 8pm	10	12	19	7	16	9	0	64	13	20	10
8pm - 9pm	8	8	7	11	9	5	0	40	8	45	9
9pm - 10pm	8	6	7	2	9	8	0	35	7	43	9
10pm - 11pm	8	14	4	6	12	10	2	47	6	62	6
11pm - Midnight	3	12	5	6	8	11	-	37	7	49	7
Total	398	437	444	430	390	214	92	2099	419	2405	343

e Speed 34 e Speed 42 814 733 av 7 Dav Averade Total Avera 7 57 4 4 22 2 26 2 26 2 17 6 37 6 37 6 37 6 37 6 37 7 57 7 57 7 57 7 57 7 57 7 57 7 57 7	Count Number	959		Ref : G	GTA			Ц	Directory R	Ref : UBD	: UBD 255 Q-1	
Total County Market Patrice House No.91 Start Time Cos-FEB-07 Mosely Still Percentile Speed 24 24 Mosely Still Percentile Speed 24 24 Mosely Still Percentile Speed 24 24 24 Mosely Still Percentile Speed 24 24 24 Mosely Still Percentile Speed 24 24 24 24 24 24 24 2	Street	SHEPHERD ST	TREET, CHIPPI	• • •	im BROADWA	Y to CLEVELA	ND STREET:	SOUTH BOUN	7			
Signt Date OS-FED-OT Weekly SOth Percentile Speed 34 August Aug	Location	Between Paints	Lane and Dan		use No.91					arriageway		
Total Count Matrix Total Count Total Count Matrix Total Count Matrix Total Count Matrix Total Count Total Count Total Count Matrix Total Count Total Count Matrix Total Count				Start	Date	05-FEB-07		Weekly !	50th Percentile	Speed		34
MON TUE WED THU FRI SAT SUN TOAI Average TOAI Average ght-1am 5TH 6TH 7TH 8TH 9TH 10TH 11TH TOAI Average TOAI Average 34h-1am 5TH 7 <th>TOTAL COI</th> <th>UNT MATRIX</th> <th></th> <th>Dura</th> <th>r Iime ition val</th> <th>7 DAYS 7 HOUR</th> <th></th> <th>vveekiy i Five Day Seven D</th> <th>som Percentile / AADT lay AADT</th> <th>Speed</th> <th></th> <th>47 814 733</th>	TOTAL COI	UNT MATRIX		Dura	r Iime ition val	7 DAYS 7 HOUR		vveekiy i Five Day Seven D	som Percentile / AADT lay AADT	Speed		47 814 733
Gift GTM TMH BTM 10TH 10TH TOTAL TOTAL <th></th> <th>MOM</th> <th>TUE</th> <th>WED</th> <th>呈</th> <th>FRI</th> <th>SAT</th> <th>SUN</th> <th>5 D</th> <th></th> <th></th> <th>Jav</th>		MOM	TUE	WED	呈	FRI	SAT	SUN	5 D			Jav
gift flam 5 3 4 18 15 9 33 7 57 2am 4 4 2 5 7 7 13 6 4 4 2 4am 2 5 8 3 6 7 7 13 6 7 4 42 4am 2 5 6 7 7 13 6 7 23 5 26 36 4am 2 5 6 7 7 23 6 7 42 26 26 26 7 7 23 4 42 42 42 42 42 42 42 42 42 43 44 7 9 9 9 9 9 9 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 <th></th> <th>5TH</th> <th>91</th> <th>HLL</th> <th>8TH</th> <th>9ТН</th> <th>10TH</th> <th>11TH</th> <th></th> <th>verade</th> <th>Total</th> <th>Average</th>		5TH	91	HLL	8TH	9ТН	10TH	11TH		verade	Total	Average
2am 4 4 2 5 7 7 13 22 4 42 3am 2 5 6 7 23 5 6 42 3 6 4 42 36 36 36 4 42 36 36 36 36 36 36 36 36 36 36 36 36 36 36 37 36 36 37 40 36 36 37 41 36 4 4 4 56 37 4 4 4 36 36 37 4 4 37 4 </td <td>Midnight - 1am</td> <td>2</td> <td>ဇ</td> <td>ဇ</td> <td>4</td> <td>18</td> <td>15</td> <td>6</td> <td>33</td> <td>7</td> <td>22</td> <td>∞</td>	Midnight - 1am	2	ဇ	ဇ	4	18	15	6	33	7	22	∞
3am 2 5 6 7 23 5 36 4am 3 2 1 8 9 9 2 26 4am 2 1 2 1 2 4 4 4 5 5 5 56 37 6am 6 4 4 13 16 16 6 8 2 17 56 37 7am 14 13 16 16 5 7 9 16 8 37 17 8 37 16 8 37 16 8 37 16 86 37 17 18 16 16 17 18 16 18 17 18 18 17 18 <t< td=""><td>1am - 2am</td><td>4</td><td>4</td><td>2</td><td>2</td><td>7</td><td>7</td><td>13</td><td>22</td><td>4</td><td>42</td><td>9</td></t<>	1am - 2am	4	4	2	2	7	7	13	22	4	42	9
4am 3 2 3 0 1 8 9 2 26 5am 2 4 1 2 4 4 5 5 6 8 2 75 5am 6 4 4 1 2 4 4 4 4 4 7 9 6 8 7 7am 14 13 19 16 16 16 6 5 6 7 78 16 8 8am 42 2 16 44 7 9 198 40 21 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 37 38 38 38 37 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38<	2am - 3am	2	5	2	8	3	9	7	23	5	36	5
6am 2 1 2 1 3 6 8 2 17 6am 6 4 4 13 2 4 4 13 6 8 2 17 7am 14 14 15 14 15 14 15 16 16 18 40 18 8 2 17 8 18 40 8 3 8m 42 26 62 62 62 12 18 40 24 8 8 3 7 8 8 3 7 8 8 3 16 8 3 16 8 3 16 32 3 3 4 3 4	3am - 4am	3	2	3	0	1	8	6	6	2	26	4
6am 6 4 4 13 2 4 4 9 4 29 6 37 7am 14 13 19 16	4am - 5am	2	1	2	2	1	3	9	8	2	17	2
7am 14 13 19 16 16 16 5 5 7 8 16 88 8am 42 26 41 45 44 7 9 186 40 214 9am 42 26 43 45 22 17 28 40 21 9am 43 64 56 63 43 45 17 28 40 21 -Midday 11 33 47 47 47 43 32 24 50 37 37 3yth 41 33 47 47 47 43 32 20 42 27 43 37 42 37 42 37 42 44 47 47 47 47 47 48 48 40 27 42 42 42 42 42 42 42 42 42 42 42 4	5am - 6am	9	4	4	13	2	4	4	29	9	37	2
8am 42 44 7 9 198 40 214 9am 49 64 55 62 62 62 12 12 185 64 31 49 40 214 32 316 316 316 316 316 316 316 316 316 317 318	6am - 7am	14	13	19	16	16	5	5	78	16	88	13
9am 49 64 56 62 22 12 282 56 316 10am 52 71 56 63 63 42 22 17 284 57 323 10am 52 71 56 43 42 24 57 32	7am - 8am	42	26	41	45	44	7	6	198	40	214	31
10am 52 71 56 63 42 25 17 284 57 323 -11am 27 54 36 43 45 45 64 54 65 46 54 56 46 54 56 46 56 57 36 46 57 49 56 57 <	8am - 9am	49	64	22	52	62	22	12	282	26	316	45
-IIIam 27 54 39 43 35 45 45 64 198 40 267 -Midday 41 33 47 41 41 33 42 50 42 574 3y-1pm 0 41 37 46 43 36 46 42 574 575 574 574 574 575 574 575 574 575 574 575 574 575 574 575 575 574 575 <td>9am - 10am</td> <td>52</td> <td>71</td> <td>56</td> <td>63</td> <td>42</td> <td>22</td> <td>17</td> <td>284</td> <td>22</td> <td>323</td> <td>46</td>	9am - 10am	52	71	56	63	42	22	17	284	22	323	46
Hidday 41 33 47 41 43 32 209 42 274 3y-1pm 0 41 37 36 46 43 39 160 32 242 2pm 24 42 49 51 51 34 189 38 274 3pm 24 30 35 49 36 33 176 35 245 4pm 50 54 54 56 47 28 30 261 52 319 5pm 56 54 54 56 32 461 52 319 6pm 86 54 36 <td>10am - 11am</td> <td>27</td> <td>54</td> <td>39</td> <td>43</td> <td>35</td> <td>45</td> <td>24</td> <td>198</td> <td>40</td> <td>267</td> <td>38</td>	10am - 11am	27	54	39	43	35	45	24	198	40	267	38
3y - 1pm 0 41 37 36 46 43 39 160 32 242 2pm 2pm 47 42 49 51 51 34 189 38 274 3pm 24 30 35 49 54 49 56 47 58 36 36 36 36 36 36 36 36 37 36 37	11am - Midday	41	33	47	47	41	33	32	209	42	274	39
-2pm 0 47 42 49 51 51 34 189 38 274 3pm 3pm 24 36 36 36 37 176 35 245 4pm 50 54 54 56 47 28 30 76 52 319 4pm 56 54 54 54 54 64 52 319 52 319 52 319 52 319 487<	Midday - 1pm	0	41	37	36	46	43	39	160	32	242	35
4pm 24 36 36 36 36 36 36 45 46 4pm 50 54 54 56 47 28 30 261 52 319 5pm 76 59 71 59 38 31 324 65 39 6pm 86 74 71 93 87 42 32 413 88 30 7pm 76 85 82 90 105 39 26 438 88 503 8pm 36 45 54 57 48 36 24 49 314 214 49 314 214<	1pm - 2pm	0	47	42	49	51	51	34	189	38	274	39
4pm 50 54 56 47 28 30 261 52 319 5pm 76 59 71 59 38 31 324 65 393 6pm 88 74 71 93 87 42 32 413 83 487 7pm 7pm 76 85 80 105 39 26 438 88 503 9pm 36 45 57 48 36 36 36 37 49 31 9pm 38 20 44 38 31 21 22 43 49 31 21 24 41 29 148 21 41 29 148 29 148 20 41 29 148 29 148 29 148 29 148 29 148 29 148 29 148 29 148 29 148	2pm - 3pm	24	30	35	49	38	36	33	176	35	245	35
Spm 76 59 71 59 38 31 324 65 393 6pm 88 74 71 93 87 42 32 413 83 487 7pm 7pm 76 85 90 105 39 26 438 89 503 9pm 39 45 54 67 48 36 36 37 49 31 10pm 18 20 44 38 31 21 22 171 34 214 214 10pm 18 20 25 28 18 28 186 186 1-11pm 10 91 12 20 19 12 20 49 406 36 36 36 36 36 36 36 36 36 49 406 39 31 31 31 31 30 1-11pm 10 <th< td=""><td>3pm - 4pm</td><td>20</td><td>54</td><td>54</td><td>99</td><td>47</td><td>28</td><td>30</td><td>261</td><td>52</td><td>319</td><td>46</td></th<>	3pm - 4pm	20	54	54	99	47	28	30	261	52	319	46
-6pm 88 74 71 93 87 42 32 413 83 487 7pm 7pm 76 85 86 105 36 26 438 88 503 8pm 36 45 57 48 36 36 36 27 47 49 314 27 47 34 214 10pm 18 20 18 24 144 29 186 1-11pm 18 20 18 24 144 29 162 1-11pm 18 20 18 24 144 29 162 I-11pm 10 9 10 12 20 19 16 30 16 I-Midnight 10 9 10 12 20 19 40 40 40 40 40 40 70 70 70 70 70 70 70 70	4pm - 5pm	92	29	29	71	69	38	31	324	65	393	26
7pm 76 85 82 90 105 39 26 438 88 503 8pm 39 26 48 36 36 36 243 49 314 9pm 38 45 54 57 48 36 36 27 47 34 214 10pm 18 22 36 18 24 144 29 186 1-11pm 18 20 25 28 16 27 16 29 1-Midnight 10 9 10 12 20 19 4069 813 5129 7	5pm - 6pm	88	74	71	93	87	42	32	413	83	487	70
8pm 39 45 54 67 48 36 36 35 243 49 314 9pm 38 20 44 38 31 21 22 171 34 214 </td <td>6pm - 7pm</td> <td>9/</td> <td>85</td> <td>82</td> <td>06</td> <td>105</td> <td>39</td> <td>26</td> <td>438</td> <td>88</td> <td>503</td> <td>72</td>	6pm - 7pm	9/	85	82	06	105	39	26	438	88	503	72
9pm 38 31 21 24 34 214 10pm 18 38 36 30 18 24 144 29 186 -11pm 18 20 25 18 28 116 23 162 - Midnight 10 9 10 12 20 19 13 61 12 93 684 802 813 813 859 566 494 4069 813 5129 7	7pm - 8pm	39	45	54	22	48	36	35	243	49	314	45
-10pm 18 38 22 36 30 18 24 144 29 186 1-11pm 18 20 25 18 28 116 23 162 1-Midnight 10 9 10 12 20 19 13 61 12 93 684 802 811 913 859 566 494 4069 813 5129 7	8pm - 9pm	38	20	4	38	31	21	22	171	34	214	31
11pm 18 20 25 28 25 18 28 116 23 162 Midnight 10 9 10 12 20 19 13 61 12 93 684 802 811 913 859 566 494 4069 813 5129 7	9pm - 10pm	18	38	22	36	30	18	24	144	29	186	27
Midnight 10 9 10 12 20 19 13 61 12 93 684 802 811 913 859 566 494 4069 813 5129 7	10pm - 11pm	18	20	25	28	25	18	28	116	23	162	23
684 802 811 913 859 566 494 4069 813 5129 T	11pm - Midnight	10	6	10	12	20	19	13	61	12	93	13
	Total	684	802	811	913	859	266	494	4069	813	5129	732

Count Number Street	959 SHEPHERD ST	959 Ref SHEPHERD STREET, CHIPPENDALE		'A m CLEVELAN	D STREET to E	3ROADWAY:	GTA From CLEVELAND STREET to BROADWAY : NORTH BOUND	Directory Ref		: UBD 255 Q-1	
Location	Between Paints	Between Paints Lane and Daniels Street, House No.91	iels Street, Hou	se No.91					Carriageway		
			Start	Date	05-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		32
TOTAL COU	TOTAL COUNT MATRIX		Start Time Duration Interval	IIme ion al	7 DAYS 7 DAYS 1 HOUR		Weekly 85th Perce Five Day AADT Seven Day AADT	AADT ay AADT	Speed		40 717 641
	MON	TUE	WED	THU	FRI	SAT	SUN	5 D		7.	av
Midnight - 1am	5	0	4	ر ا	9	8	L	10tal A	Average 4	33	Average 5
1am - 2am	4	2	က	0	_	2	5	10	7	17	7
2am - 3am	-	-	4	2	က	4	2	1	7	20	က
3am - 4am	0	1	2	2	0	1	2	5	-	8	1
4am - 5am	2	3	5	5	4	1	2	19	4	22	3
5am - 6am	8	12	6	16	10	2	2	22	11	29	8
6am - 7am	21	20	27	23	27	12	0	118	24	130	19
7am - 8am	53	48	69	64	26	18	11	290	28	319	46
8am - 9am	78	93	95	82	91	23	13	439	88	475	68
9am - 10am	42	64	61	29	39	33	21	265	53	319	46
10am - 11am	25	39	36	52	35	53	30	187	37	270	39
11am - Midday	31	25	46	44	30	20	41	176	35	267	38
Midday - 1pm	1	39	30	32	32	37	31	137	27	205	29
1pm - 2pm	0	35	22	43	31	38	36	131	26	205	29
2pm - 3pm	9	38	37	28	39	23	32	148	30	203	29
3pm - 4pm	38	43	51	36	40	34	26	208	42	268	38
4pm - 5pm	29	22	51	22	48	38	26	270	54	334	48
5pm - 6pm	09	99	28	64	29	28	27	297	59	352	20
6pm - 7pm	58	62	09	61	56	27	27	297	29	351	20
7pm - 8pm	29	36	36	40	34	21	10	175	35	206	29
8pm - 9pm	20	21	26	26	28	17	13	121	24	151	22
9pm - 10pm	16	23	18	17	21	16	14	92	19	125	18
10pm - 11pm	10	13	11	15	17	11	10	99	13	87	12
11pm - Midnight	8	2	6	10	14	8	7	46	6	61	6
Total	575	736	770	779	724	205	398	3584	716	4487	641

MONT TUE MEDIA MONT	Count Number	296		Ref : G	GTA				Directory Re	Ref : UBD 256 B-1	256 B-1	
Participation Pattern Ballour Street and Regent Street House No. Participation Pattern Ballour Street and Regent Street House No.	Street	WELLINGTON	STREET, CHIP		rom BALFOU	R STREET to R	EGENT STRE	ET : WEST BO	7 - 0 0 0			
TOTAL COUNT MATRIX Signt Date 14+FEb-07 Weekly SGN Percentile Speed 2.0 Signt Time 1000 Weekly SGN Percentile Speed 2.0 Signt Time 1000 Weekly SGN Percentile Speed 2.0 Signt Time 1000 Medicy SGN Percentile Speed 2.0 Medicy SGN Percentile SGN Percentile Speed 2.0 Medicy SGN Percentile SGN Percenti	Location	Between Balfou	ır Street and Re	gent Street, Ho	onse No.9				ٽ ا	arriageway		
TOTAL COUNT MATRIX Mon. Interval in				Start	Date	14-FEB-07		Weekly	50th Percentile S	Speed		24
MON TUE WED THU FRI SAT SUN TOAL Average TOAL Average 4th-1am 19TH 10TH 15TH 16TH 17TH 19TH TOAL 10 1 1 1 0 3 2am 2 1 1 1 1 4 1 0 3 1 4 1 0 <th>TOTAL CO</th> <th>UNT MATRIX</th> <th></th> <th>Dura</th> <th>rime ition val</th> <th>7 DAYS 1 HOUR</th> <th></th> <th>rveekiy Five Day Seven D</th> <th>sour Percentile S AADT ay AADT</th> <th>paado</th> <th></th> <th>76 76</th>	TOTAL CO	UNT MATRIX		Dura	rime ition val	7 DAYS 1 HOUR		rveekiy Five Day Seven D	sour Percentile S AADT ay AADT	paado		76 76
ght -1am 1914 2014 7414 1514 1514 1514 1514 1514 1514 1514 1514 1514 1514 1614		MON	TUE	WED	THU	FRI	SAT	SUN	5 D		7	av
Sam 2 0 1 1 1 4 1 5 Sam 0 0 0 0 0 1 4 1 5 Sam 0 1 0 0 0 0 1 0 1 Sam 1 1 2 1 0	Midnight - 1am	191H 0	201H	141H	151H 0	161H 0	171H	181H		/erade 0		Average
3am 0 0 0 0 0 1 0 0 1 4am 4am 4am 4am 0 0 0 0 0 1 4am 4am 4am 0	1am - 2am	2	0		-	-	0	_	4	-	2	-
4am 0 1 0 0 0 1 0 2 5am 0 0 0 0 0 0 0 0 0 5am 1 1 2 1 0 </td <td>2am - 3am</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td>	2am - 3am	0	0		0	0	0	-	0	0	-	0
Sam 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6 0 0 6 0	3am - 4am	0	_		0	0	0	_	-	0	2	0
6am 1 1 1 2 1 0 5 1 5 1 5 7am 1 3 2 0 1 0 6 1 7 7 9am 4 4 4 4 4 4 7 6 1 16 3 1 7 7 7 7 7 14 7 29 6 3 1 6 3 1 7 29 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 7 3 7 3 8 9 <th< td=""><td>4am - 5am</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	4am - 5am	0	0		0	0	0	0	0	0	0	0
7am 1 3 2 0 1 0 6 1 7 8am 4 4 4 4 4 6 1 16 3 17 9am 6 5 6 6 10 4 4 0 1 16 3 17 10am 3 6 6 10 4 4 6 6 10 4 2 6 3 17 20 4 20 4 20 4 20 3 4 20 20 4 20 20 20<	5am - 6am	1	1		2	1	0	0	5	1	2	1
8am 4 4 4 4 4 4 4 4 4 4 4 4 9 1 16 3 17 9am 19 4 6 3 1 29 6 33 17 34 5 6 3 4 5 6 3 1 29 6 33 1 20 4 5 6 33 1 20 6 33 1 20 4 5 6 33 4 5 6 33 4 5 6 33 4 5 6 34 4 5 4 3 2 4 3 2 4 3 4	6am - 7am	1	3		2	0	1	0	9	1	7	1
9am 10 5 8 6 3 1 29 6 33 10am 9 0 5 5 6 1 19 4 26 26 1 19 4 26 20 1 19 4 26 20 1 20 4 26 20 2 4 20 2 4 20 2 4 2 2 4 20 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 <td>7am - 8am</td> <td>4</td> <td>4</td> <td></td> <td>4</td> <td>4</td> <td>0</td> <td>1</td> <td>16</td> <td>3</td> <td>17</td> <td>3</td>	7am - 8am	4	4		4	4	0	1	16	3	17	3
10am 9 0 5 6 1 19 4 26 -11am 3 1 4 2 4 2 4 26 -Iniday 6 10 1 4 3 1 4 26 4 29 -Midday 6 6 10 1 2 1 3 4 29 4 29 3y-1pm 6 6 7 11 7 6 3 3 6 3 4 5 6 4 40 6 4 40	8am - 9am	10	5		8	9	3	1	29	9	33	9
-I18m 3 5 10 4 4 3 22 4 29 -Widday 6 10 12 3 1 34 7 38 3y-1pm 9 6 10 12 2 1 22 4 29 3y-1pm 6 7 11 7 6 3 31 6 40 3pm 6 8 11 4 3 28 6 37 6pm 6 8 7 8 7 8 3 8 3 6 3 6pm 6 9 11 2 3 2 6 3 1 8pm 4 8 1 2 2 2 6 3 1 9pm 4 3 2 1 2 1 3 1 10pm 4 5 2 2 6	9am - 10am	6		0	2	2	9	1	19	4	26	4
-Midday 6 6 10 12 3 1 34 7 38 2pm 9 6 5 2 2 1 22 4 25 2pm 6 5 2 1 2 4 25 4 25 3pm 7 11 7 6 3 31 6 40 4pm 7 8 11 4 3 28 6 37 6pm 6 8 1 4 3 28 6 37 6pm 6 8 7 8 7 6 37 9 1	10am - 11am	3		5	10	4	4	3	22	4	29	2
2pm 6 5 2 1 22 4 25 2pm 6 3 3 4 25 40 40 3pm 7 11 7 6 3 28 6 40 3pm 6 8 11 4 3 28 6 37 5pm 2 8 7 8 2 6 37 37 6pm 6 8 7 8 7 6 37 37 7pm 6 9 11 2 6 3 3 4 3 17 8pm 4 1 2 2 2 6 37 17 9pm 4 5 6 7 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11am - Midday	9		9	10	12	3	1	34	7	38	9
-2pm 6 3 31 6 40 -3pm 7 6 3 28 6 40 4pm 6 8 11 4 3 28 6 35 4pm 6 8 9 5 3 29 6 37 5pm 6 8 7 8 2 6 3 37 6pm 6 9 11 2 3 2 6 37 8pm 4 8 1 2 2 2 6 39 9pm 4 3 4 5 0 1 2 1 10pm 1 3 4 5 0 1 3 1 11pm 2 1 2 6 1 3 1 4 11pm 2 2 6 1 3 6 1 4	Midday - 1pm	6		9	2	2	2	1	22	4	25	4
3pm 7 2 8 11 4 3 28 6 35 4pm 6 8 9 5 3 29 6 37 5pm 2 8 7 8 2 6 5 33 6pm 6 9 11 2 3 2 6 37 7pm 4 8 1 2 2 0 15 3 17 9pm 4 8 1 2 2 0 15 16 10pm 4 8 1 3 4 5 0 1 13 14 10pm 2 6 1	1pm - 2pm	9		7	11	7	9	က	31	9	40	7
4pm 6 8 9 5 3 29 6 37 5pm 2 6 7 8 7 8 7 6 5 5 5 33 6pm 6 9 11 2 3 2 6 37 37 7pm 9 11 3 1 2 2 2 2 3 17 9pm 4 3 1 3 4 5 0 1 3 14 10pm 1 3 4 5 0 1 3 14 1-11pm 2 1 0 2 6 1 8 1-11pm 2 3 4 5 0 1 3 14 9 1 1 2 6 1 8 1 8	2pm - 3pm	7		2	8	11	4	3	28	9	35	9
5pm 2 8 7 8 7 8 2 6 25 5 33 6pm 6 9 11 2 3 32 6 37 7pm 9 11 3 6 8 2 29 6 39 9pm 4 3 1 3 4 5 0 11 2 16 10pm 1 3 4 5 0 1 13 3 14 1-11pm 2 1 0 2 6 1 8 1-11pm 2 3 1 2 6 1 8 1-11pm 2 3 4 5 6 1 8 1 1-11pm 3 1 1 1 2 6 1 8 1-11pm 3 1 1 2 6 1 8 9	3pm - 4pm	9		9	8	6	5	3	29	9	37	9
-6pm 6 9 11 2 3 32 6 37 7pm 9 11 3 6 8 2 29 6 39 8pm 4 3 1 2 2 1 2 17 9pm 4 3 1 3 1 2 16 10pm 1 3 4 5 0 1 13 3 14 1-11pm 2 1 0 2 6 1 8 1-11pm 2 1 0 1 1 3 14 I-11pm 2 1 0 0 1 2 0 3 I-11pm 3 1 0 0 1 2 0 3 I-11pm 3 1 3 3 3 3 4 6 I-11pm 3 4 3 4	4pm - 5pm	2		8	7	8	2	9	25	2	33	9
- 7pm 9 11 3 6 8 2 29 6 39 - 8pm 4 8 1 2 2 0 15 3 17 - 9pm 4 3 1 3 2 11 2 16 - 10pm 1 3 4 5 0 1 1 8 - 11pm 2 6 1 8 1 8 - Midnight 0 1 2 6 1 8 - Midnight 9 52 38 38 76 470	5pm - 6pm	9		9	6	11	2	က	32	9	37	9
8pm 1 2 2 0 15 3 17 9pm 4 3 1 3 3 2 11 2 16 1 Opm 1 3 4 5 0 1 13 3 14 1-11pm 2 6 1 8 1 8 1-Midnight 0 1 2 6 1 8 Nidnight 9 52 38 380 76 470	6pm - 7pm	6		1	3	9	∞	2	29	9	39	7
9pm 4 3 1 3 1 2 16 10pm 1 3 4 5 0 1 13 3 14 1-11pm 2 6 1 8 14 8 1-11pm 2 6 1 8 1 8 Nidnight 0 1 2 0 3 Nidnight 5 13 38 76 470	7pm - 8pm	4		8	_	2	2	0	15	က	17	က
-10pm 1 3 4 5 0 1 13 3 14 1-11pm 2 6 1 8 1 8 1-Midnight 0 1 1 0 0 1 2 0 3 92 15 72 103 98 52 38 380 76 470	8pm - 9pm	4		3	_	က	3	2	11	7	16	3
1-11pm 2 6 1 8 8 1 0 2 6 1 8 8 1-11pm 2 9 1 9 8 52 38 380 76 470	9pm - 10pm	_		3	4	5	0	1	13	က	14	2
1-Midnight 0 1 1 2 0 3 3 3 3 470	10pm - 11pm	2		0	3	1	0	2	9	1	8	1
92 15 72 103 98 52 38 380 76 470	11pm - Midnight	0		1	_	0	0	-	2	0	3	_
	Total	92	15	72	103	86	52	38	380	92	470	29

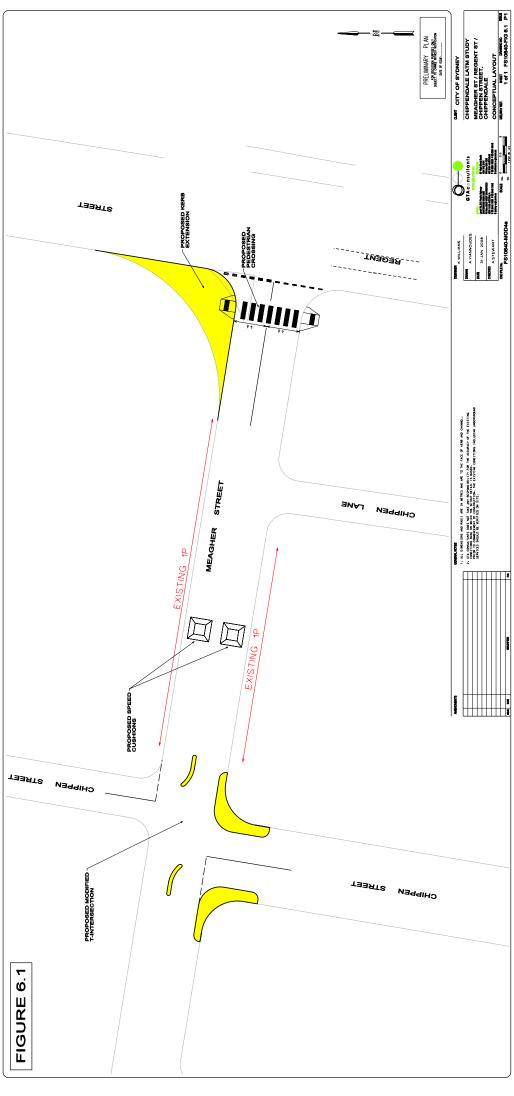
Count Number Street	964 WILEY STREE	964 Ref : WILEY STREET, CHIPPENDALE : From		ra Eveland st	GTA CLEVELAND STREET to MYRTLE STREET : NORTH BOUND	LE STREET : I	D NORTH BOUNE	Directory Ref		: UBD 255 Q-2	
Location	Between Danga	Between Dangar Place and Myrtle Street,		House No. , E	ELP				Carriageway		
			Start	Date	05-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		23
TOTAL COL	TOTAL COUNT MATRIX		Start Time Duration Interval	lime tion al	7 DAYS 1 HOUR		Weekly 85th Pe Five Day AADT Seven Day AAE	weekly som Percentile Speed Five Day AADT Seven Day AADT	Speed		32 292 250
	NOM	TUE	WED	THU	FRI	SAT	SUN	5 Day	av	7 Day	av Average
Midnight - 1am	2	0	0	2	8	4	9		1		Average 2
1am - 2am	_	0	_	_	_	က	_	4	-	8	_
2am - 3am	0	0	_	0	0	-	4	-	0	9	-
3am - 4am	1	0	1	2	1	0	2	5	-	7	-
4am - 5am	0	0	0	1	1	1	0	2	0	3	0
5am - 6am	3	3	2	9	2	5	1	16	3	22	3
6am - 7am	12	9	13	15	13	1	3	59	12	63	6
7am - 8am	26	20	27	32	25	9	2	130	26	138	20
8am - 9am	25	29	31	30	37	5	8	152	30	165	24
9am - 10am	28	24	30	30	26	8	7	138	28	153	22
10am - 11am	11	18	6	15	18	10	13	71	14	94	13
11am - Midday	4	6	7	14	14	10	9	48	10	64	6
Midday - 1pm	3	4	16	11	11	13	16	45	6	74	11
1pm - 2pm	8	9	6	12	6	4	7	44	6	22	8
2pm - 3pm	6	13	17	13	17	13	2	69	14	87	12
3pm - 4pm	24	25	26	22	26	11	10	123	25	144	21
4pm - 5pm	19	26	27	29	25	12	8	126	25	146	21
2pm - 6pm	21	17	26	29	29	3	11	122	24	136	19
6pm - 7pm	39	37	36	32	27	16	8	171	34	195	28
7pm - 8pm	9	10	2	13	8	7	1	39	8	47	7
8pm - 9pm	9	3	9	7	9	5	5	28	9	38	2
9pm - 10pm	8	5	8	4	9	13	4	31	9	48	7
10pm - 11pm	2	1	3	5	3	7	0	14	3	21	3
11pm - Midnight	5	0	2	0	9	4	1	16	3	21	3
Total	263	256	303	325	314	162	129	1461	292	1752	250

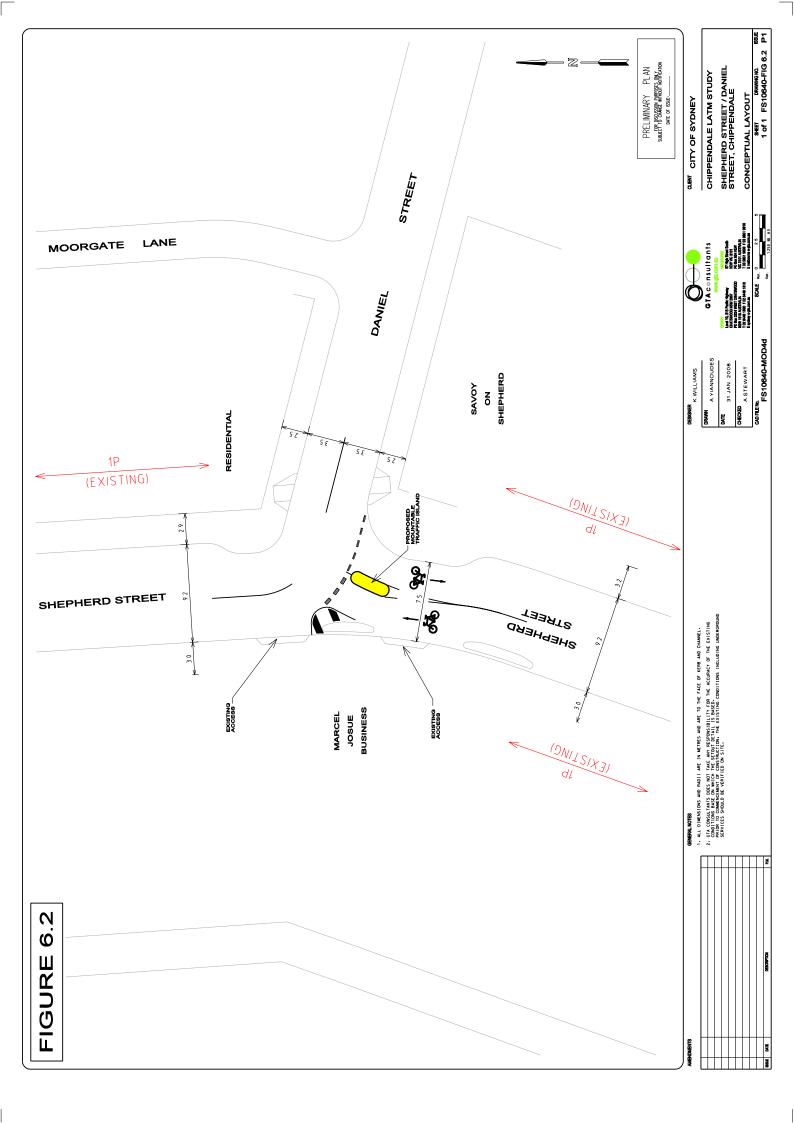
Count Number	06.4		l	Δ±2			Ĺ		ı	2 O 350 UBIT	
Street	WILEY STREE	T, CHIPPENDA	LE : From MY	RTLE STREE	WILEY STREET, CHIPPENDALE: From MYRTLE STREET to CLEVELAND STREET: SOUTH BOUND	ND STREET : 8	SOUTH BOUNI	Uniectory ner VD		2 2 1	
Location	Between Dangar	ar Place and My	Place and Myrtle Street, House No.	ise No. , E	ELP				Carriageway		
			Start	Date ∓∵	05-FEB-07		Weekly 5	Weekly 50th Percentile Speed	Speed		25
TOTAL COUNT MATRIX	NT MATRIX		Start Time Duration Interval	IIme tion al	7 DAYS 1 HOUR		weekiy oour Pe Five Day AADT Seven Day AAE	weekiy asiri Perceniile Speed Five Day AADT Seven Day AADT	peed		709 644
	MOM	TUE	WED	돮	R	SAT	SUN	5 Dav		7 Dav	av
	5TH	Н19	HLL	8ТН	9ТН	10TH	11TH		Average		Average
Midnight - 1am	9	7	11	6	17	20	16	20	10	98	12
1am - 2am	9	5	3	4	7	12	15	25	2	52	7
2am - 3am	2	3	4	2	2	14	18	19	4	51	7
3am - 4am	4	1	1	2	3	6	5	11	2	25	4
4am - 5am	0	4	2	2	5	9	4	13	3	23	3
5am - 6am	5	8	3	12	8	4	5	36	7	45	9
6am - 7am	13	10	14	20	20	7	4	77	15	88	13
7am - 8am	35	27	44	40	34	19	10	180	36	209	30
8am - 9am	51	49	43	20	59	16	12	252	20	280	40
9am - 10am	44	49	44	22	48	24	25	240	48	289	41
10am - 11am	44	52	41	35	36	26	30	208	42	264	38
11am - Midday	24	22	42	26	27	30	29	204	41	263	38
Midday - 1pm	40	48	38	42	33	33	35	201	40	269	38
1pm - 2pm	42	41	33	37	41	26	31	194	39	251	36
2pm - 3pm	29	31	44	43	51	33	29	198	40	260	37
3pm - 4pm	22	52	43	48	45	24	27	243	49	294	42
4pm - 5pm	48	42	43	55	52	33	22	240	48	295	42
2pm - 6pm	61	41	25	26	65	31	35	280	99	346	49
	89	73	63	51	22	34	28	310	62	372	53
7pm - 8pm	33	33	30	39	41	35	26	176	35	237	34
8pm - 9pm	24	32	27	26	28	17	15	137	27	169	24
9pm - 10pm	22	11	20	24	27	17	15	104	21	136	19
10pm - 11pm	11	18	14	24	14	19	2	81	16	105	15
11pm - Midnight	10	12	15	16	15	19	12	89	14	66	4
Total	677	704	629	751	736	208	453	3547	602	4508	644

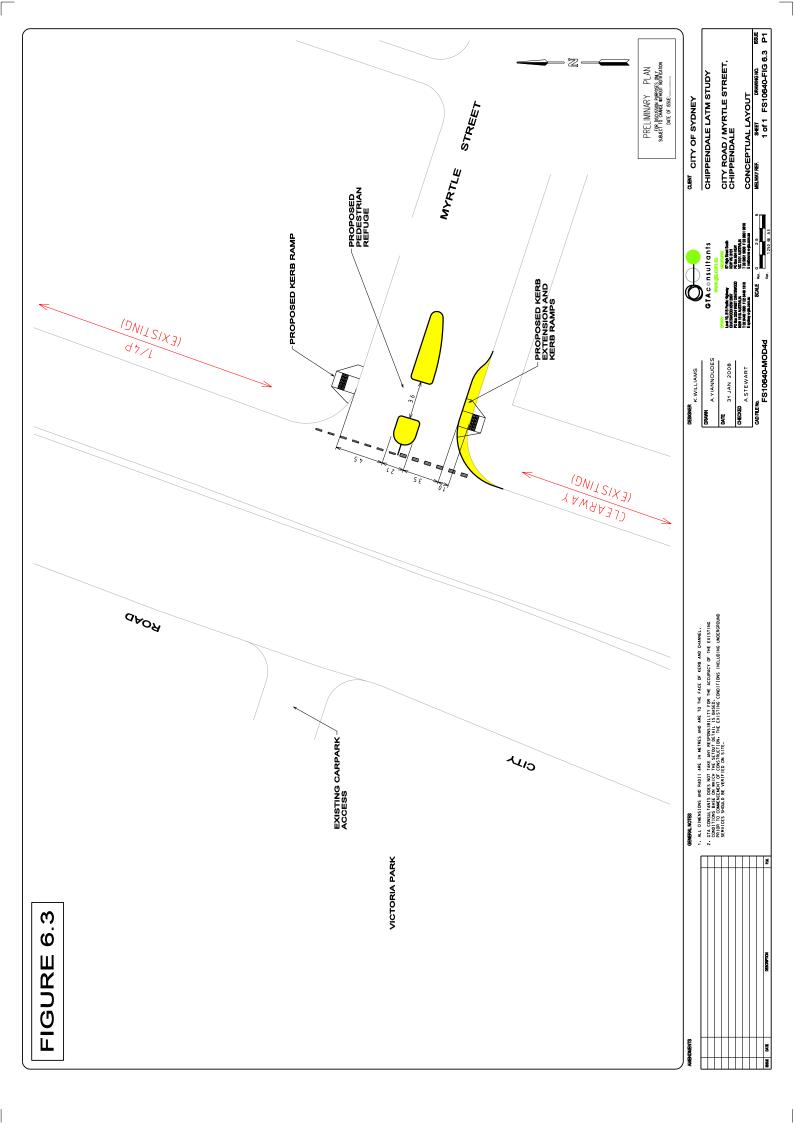
appendix c

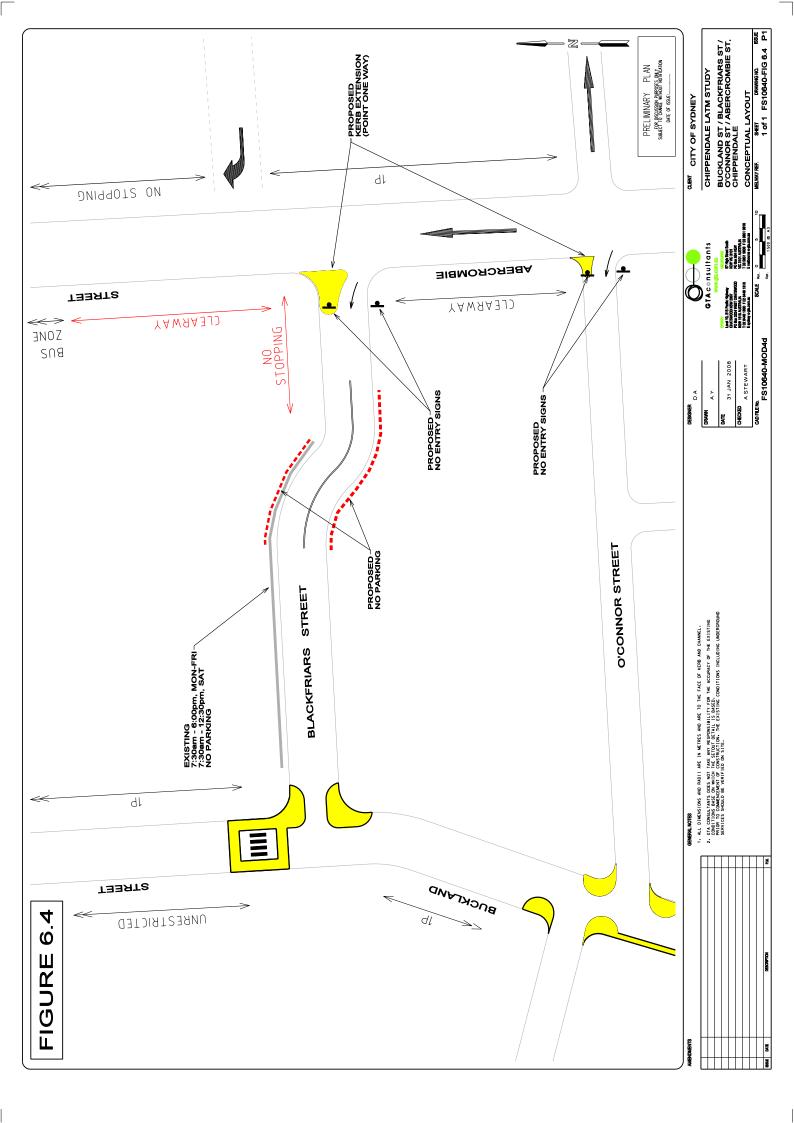
Appendix C

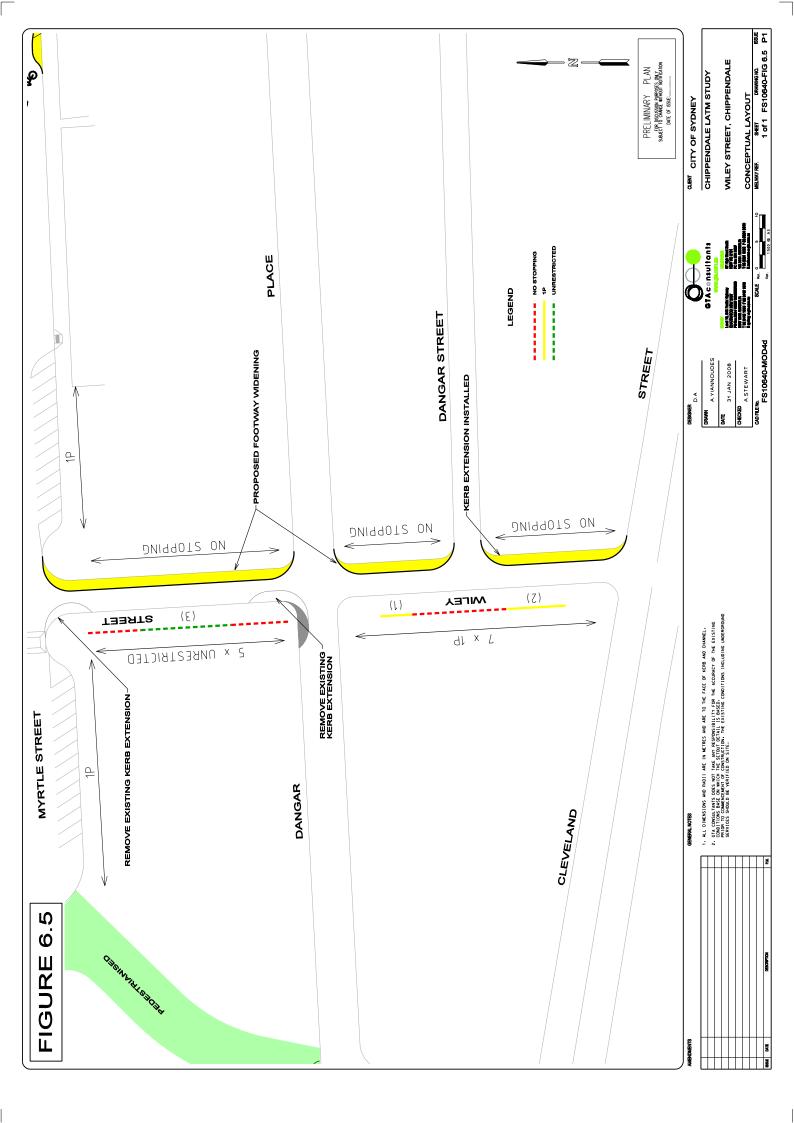
Figures 6.1-6.5 – LATM Concept Proposals









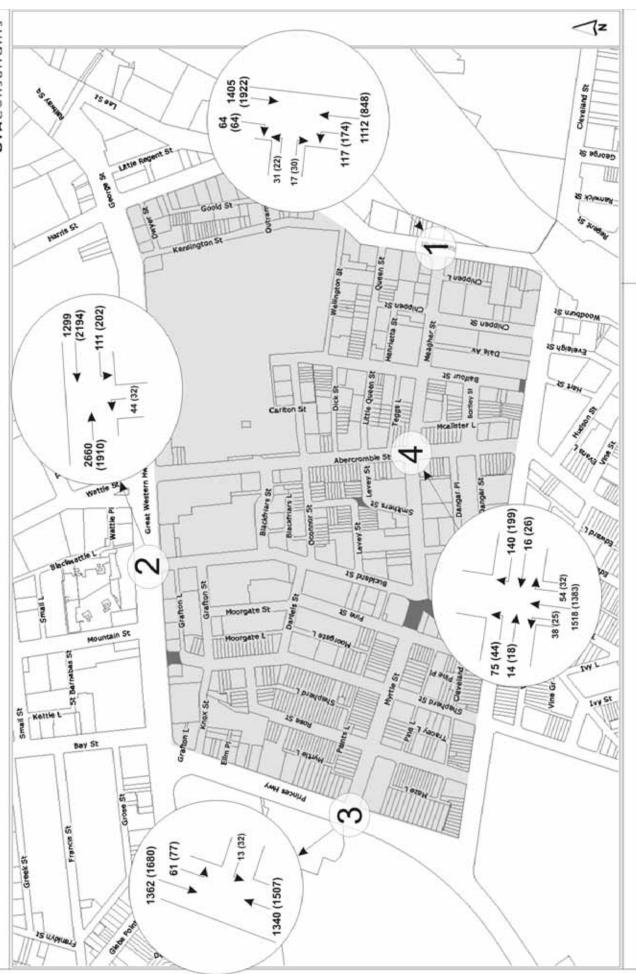


appendix d

Appendix D

LATM Warrant Assessment Site Locations & Associated Pedestrian and Traffic Volumes





75 (44) = AM (PM) Peak Traffic Volumes

Client: City of Sydney
CHIPPENDALE LATM TRAFFIC STUDY
Figure 6.6: RTA Warrants Assessment
Sites





75 (44) = AM (PM) Peak Hour Pedestrian Counts

Client: City of Sydney CHIPPENDALE LATM TRAFFIC STUDY Figure 6.7: Pedestrian Counts



Appendix E

RTA Pedestrian Crossing & Traffic Signal Warrants Criteria

4.17 PEDESTRIANS

1 INTRODUCTION

This section deals with the facilities available to assist and protect pedestrians crossing roads and gives warrants for their use. The facilities described include the following:-

- Warning Signs
- Regulatory Devices
- Marked footcrossings
- Children's crossings
- Traffic Signal Controlled Pedestrian Crossings
- Separating Devices
- Pedestrian Refuge Islands
- Pedestrian Grade Separation

2 WARNING SIGNS

2.1 General

These devices include the signs W6-1 $\underline{\text{Pedestrians}}$ and W6-3 $\underline{\text{Children}}$. The warning sign W6-2 $\underline{\text{Pedestrian}}$ Crossing ahead is dealt with below in section 3.

The signs are used to warn motorists of the likely presence of pedestrians on the road; they are used where marked pedestrian crossings or signals are not provided and where significant, but not expected, pedestrian movements occur. They are also used in the approaches to pedestrian refuge islands (see 6 below).

2.2 Typical Situations

Typical situations for the application of the signs include:-

- . adjacent to a railway station or other pedestrian generator in a small village
- . on a section of road without formed footpaths near a town or recreation area
- in the vicinity of a school or playground if there is no single crossing point warranting a marked footcrossing or children's crossing.

2.3 Supplementary Messages

Where appropriate the sign W6-1 Pedestrians may be supplemented by one of the following plates:-

- W8-18 AGED
- W8-19 BLIND
- W8-20 DISABLED

and the sign W6-3 Children may be supplemented by one of the following plates:-

- W8-10 BLIND CHILDREN
- W8-11 CRIPPLED CHILDREN
- W8-12 SPASTIC CHILDREN
- W8-13 PLAYGROUND
- W8-14 SCHOOL

2.4 Size of Signs

The size of the sign(s) used should be chosen having regard to traffic volume, vehicle approach speed, road conditions and background. Where conditions require greater visual impact, where there are two or more lanes for the direction of travel or where the sign is erected 6 metres or more from the pavement edge the size of sign should be increased.

3 MARKED FOOT CROSSINGS (see also page 4.17-10)

3.1 General

Marked footcrossings comprise zebra markings across the full road width together with R3-1

Pedestrian crossing signs on both sides of the carriageway facing approaching traffic. They are regulatory devices under the Motor Traffic and General Traffic Acts and must be properly authorised (see Section 3). Marked footcrossings impose an obligation on drivers to give way to pedestrians on the crossing.

4	٠	1	7-	-2			
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SIGNS AND MARKINGS

3.2 Site Considerations

Marked footcrossings must not be provided where:-

(i) the 85th percentile speed (V85) of traffic exceeds 75 km/h $\,$

(ii) the sight distance to the pavement at the crossing is less than the figures in Table 1

/85 (km/h)	Sight Distance (m)
40	80
50	120
60	160
70	200

TABLE 1

OR

(iii) $\underline{\text{both ends}}$ of the crossing are not visible from half the appropriate sight distance shown in Table 1

OF

(iv) more than four lanes of moving traffic have to be crossed by pedestrians in one stage

In the event of a site being considered unsuitable for one or more of the above reasons, alternatives may be considered as follows:-

Problem	Alternative
High speed	Signal controlled crossing, pedestrian refuge island or pedestrian grade separation
Limited sight	Relocation of crossing, pedestrian refuge island or pedestrian grade separation
More than four lanes of traffic	Provision of a median island desirably at least 2 metres wide, signal controlled crossing or pedestrian grade separation

TABLE 2

Sites at schools on local and lightly trafficked roads should be considered for Children's crossings if the school is the dominant pedestrian generator (See 4 below).

3.3 Warrant (also see page 4.17-9)

A marked footcrossing is warranted where:-

In each of three separate one hour periods in a typical day

- (i) the pedestrian flow/hour (P) crossing the road is greater than or equal to 30 $\,$ AND
- (ii) the vehicular flow/hour (V) through the site is greater than or equal to 500

AND

(iii) the product PV is greater than or equal to 60,000

In special circumstances, at the discretion of the Divisional Engineer, the minimum PV value may be relaxed to not less than 45,000.

3.3.1 Reduced Warrant for sites used predominantly by children or by aged pedestrians.

If the crossing is used predominantly by school children, is not a suitable site for a Children's Crossing (See Section 4), and in two counts each of one hour duration immediately before and after school hours:-

(i) P > 30

AND

(ii) V > 200

a marked footcrossing may be installed.

If at least 50% of pedestrians using the crossing are aged or have a mobility difficulty and for each of three one hour periods in a typical day

(1) P > 30

AND

(ii) $V \ge 200$

AND

(111) PV > 60,000

a marked footcrossing may be installed.

3.4 Signs and Markings

The signs and pavement markings required at a marked footcrossing are shown on page 4.17-10.

3.5 Advance Warning of Marked Footcrossings

The sign W6-2 <u>Pedestrian Crossing Ahead</u> is used in advance of marked footcrossings where the visibility of the R3-1 <u>Pedestrian crossing</u> sign is obstructed due to vertical or horizontal road curvature or other local conditions.

- 3.5 Supplementary Devices for Marked Footcrossings
- 3.5.1 Overhead flashing symbol signs

At several crossings with nighttime pedestrian activity flashing symbol signs have been provided. Details are shown on Page 4.17-11. However, it is now considered that the preferable method of dealing with the nighttime movement of pedestrians is the use of floodlighting or traffic signal controlled pedestrian crossings. No further overhead flashing symbol sign installations will be made. However, the existing installations will continue to be maintained.

3.6.2 Floodlighting

Floodlighting of pedestrian crossings to improve the visibility of pedestrians using the crossing at night is strongly supported.

The floodlighting of pedestrian crossings is the responsibility of the local Council and is carried out by the local electricity supply authority. Subject to the work being in accordance with SAA Standard AS 1158 Part 5 (1974), the work may be eligible for subsidy from the Traffic Route Lighting Subsidy Fund which is administered by the Energy Authority of NSW.

If a crossing is on a main or secondary road, or other arterial or sub-arterial road, there is a need for adequate traffic route lighting throughout. The floodlighting of crossings alone is not an adequate substitute.

There is reason to believe that a floodlit pedestrian crossing on an otherwise poorly lit street could be a source of danger in the not uncommon event that a pedestrian crosses the road in the vicinity of, rather than on, the crossing. In this situation floodlighting could mask the driver's view of a pedestrian. To overcome this situation at least three spans of traffic route lighting should be installed so that the floodlit crossing is located centrally within a well lit section.

Illumination of a crossing from directly overhead is not effective. Lighting should be provided such that the side of a pedestrian which faces oncoming traffic is strongly illuminated.

There is little to be gained from the use of a contrasting lamp colour for pedestrian crossing floodlighting having regard to the range of normal streetlighting lamps currently employed.

3.6.3 Civilian Crossing Supervisors

Civilian crossing attendants appointed by the Police Department supervise a number of selected marked footcrossings near schools during the periods before and after school hours. Where requested by the Police the attendants are provided with hand held Stop Sign R3-202A.

4 CHILDREN'S CROSSINGS (See also page 4.17-12)

4.1 General

Children's Crossings (or footcrossings) are part-time devices which operate only during the periods before and after school hours and at other times that may be considered necessary such as before and after school excursions. They are intended for use at or near primary and infants schools where a pedestrian facility is needed to assist children crossing the road.

Children's crossings are regulatory devices under the Motor Traffic and General Traffic Acts and should be properly authorised (see Section 3).

The crossings have legal significance only when Signs R3-3 <u>Children Crossing</u> are displayed. When in operation they place an obligation on drivers to stop at the stop line for a pedestrian on the crossing and to proceed only after the crossing is clear.

4.2 Site considerations

A children's Crossing may be installed if:-

- (i) the crossing is located on a local or lightly trafficked road AND
- (ii) in each of the one hour periods before and after school hours the vehicular flow/hour (V) is greater than 50.

AND

- (iii) the crossing would be used predominantly by children during daylight hours

 AND
- (iv) an undertaking can be obtained from the School Principal to arrange the display of the R3-3

 Children Crossing flags during and only during the specified hours of operation.

A Children's Crossing must not be installed if:-

- (i) the 85th percentile speed (V85) of traffic exceeds 60 kph $$\operatorname{\textsc{OR}}$$
- (ii) there is insufficient visibility of the crossing or pedestrians using the crossing for approaching drivers.

4.3 Signs and Markings

The signs and pavement markings required at a Children's Crossing are shown on page 4.17-12. Where possible crossings should be located adjacent to the school gates and away from intersections.

4.4 Advance Warning of Children's Crossings

The sign W6-3 <u>Children</u> and supplementary plate W8-22 <u>Crossing Ahead</u> are used in advance of all Children's Crossings.

4.5 Other Requirements

Where a school is located on an unkerbed road without constructed footpaths the installation of a Children's Crossing is subject to the construction of adequate footpaths and kerb and gutter at least for the length of road associated with the crossing or other pedestrian protection subject to the approval of the Divisional Engineer.

- 5 TRAFFIC SIGNAL CONTROLLED PEDESTRIAN CROSSINGS (also see page 4.17-13)
- 5.1 Warrant for Mid-block Crossings

Traffic Signal Control of mid-block footcrossings is warranted if:-

- (a) for each of four one hour periods of a typical day:
 - (1) the pedestrian flow/hour (P) exceeds 250

(ii) the total vehicular flow/hour (V) in both directions exceeds 600, or where there is a central pedestrian refuge, 1000

- (b) for each of eight one hour periods of a typical day:
 - (i) the pedestrian flow/hour (P) exceeds 175

(ii) the total vehicular flow/hour (V) in both directions exceeds 600, or where there is a central pedestrian refuge, 1000

AND

- (iii) there is no other pedestrian crossing facility within a reasonable distance.
- 5.1.1 Special situations

Traffic signal control of mid-block footcrossings may also be provided in the following situations:-

(1) If the volume warrant for a marked unsignalled pedestrian crossing is realised but the provision of an unsignalled crossing could cause hazard to pedestrians because of the width of carriageway or the speed or volume of vehicles

(ii) Where there are large seasonal variations in traffic flow on roads leading to, say, holiday resorts, if it can be shown to meet the warrant during the busy season, even if during the rest of the year the warrant is not met

- (iii) If a pedestrian crossing has been the site of two or more preventable pedestrian casualty accidents within three years.
- 5.1.2 Reduced warrant for sites used predominantly by children or by aged pedestrians

A traffic signal controlled pedestrian crossing may be installed if:-

- (i) the crossing is used predominantly by school children, and
- (ii) in two counts each of one hour duration immediately before and after school hours P >50 and V > 600

OR

- (1) at least 50% of pedestrians using the crossing are aged or have a mobility difficulty,
- (ii) during three periods each of one hour in any one day P > 50 and V \geq 600
- 5.2 Signs and markings for mid-block crossings

The signs and pavement markings for mid-block traffic signal controlled pedestrian crossings are shown on page 4.17-13.

5.3 Warrant for Intersection Crossings

At intersections controlled by traffic signals a marked footcrossing is warranted for each pedestrian movement which exceeds 60 persons per hour for two separate hours.

ΛR

Where a warranted mid-block crossing cannot be installed because of sight distance restrictions, pedestrian facilities may be incorporated in the nearest adjacent intersection signals if these are within reasonable walking distance.

5.4 Other considerations

- (i) The provision of a signal controlled mid-block crossing should be avoided within 130 m of a signal controlled intersection.
- (ii) When any type of pedestrian crossing, signalled or unsignalled, is warranted within an urban traffic control system, a linked signal controlled pedestrian crossing should be installed.
- (iii) When a signal controlled mid-block crossing is installed but is not linked to a co-ordinated system or to an adjacent intersection, consideration should be given to the installation of vehicle detectors and a vehicle actuated signal controller in order to minimise delay to traffic.
- (iv) At a signal controlled crossing regularly used by a number of partially sighted or blind persons, consideration should be given to the use of audio tactile push-buttons.

6 PEDESTRIAN REFUGE ISLANDS

6.1 General

Pedestrian refuge islands may be installed on wide or heavily trafficked roads where there is a need to provide staged crossing for pedestrians. Their installation would generally be at sites where a pedestrian safety problem exists but a marked footcrossing would not be suitable because of excessive vehicle approach speed, limited driver sight distance or insufficient pedestrian or vehicle volume to warrant a marked footcrossing.

6.2 Application and Island Dimensions

Refuge islands are normally located centrally in the roadway or may be combined with channelising islands. They should only be provided where there is sufficient sealed pavement width to accommodate the island, generally 5.7 metres or greater on each side of the island for a four or more than four lane road.

If refuge islands are needed at a number of closely spaced locations along a road, consideration should be given to constructing a continuous median.

Refuge islands are constructed with barrier or semi barrier kerbing. The desirable minimum width for refuge islands is 2.0 metres and the minimum overall length should be 10 metres.

6.3 Signs and Markings

The signs and pavement markings required at a pedestrian refuge island are shown on page 4.17-14.

6.4 Advance warning of Pedestrian Refuge Islands

The Sign W6-1 <u>Pedestrians</u> or W6-3 <u>Children</u> and the supplementary plate W8-211 <u>Refuge Island</u> are used in advance of all pedestrian refuge islands.

6.5 Floodlighting

Floodlighting of pedestrian refuge islands to improve the visibility of pedestrians crossing at the refuge at night is strongly recommended.

For information on floodlighting refer to 3.6.2 above.

7 PEDESTRIAN GRADE SEPARATION

7.1 General

Warrants for the provision of grade separated pedestrian crossings (bridges or underpasses) are contained in the Traffic Authority's 1982 document "Guidelines for Evaluation of Grade Separated Pedestrian Facilities". As each installation has to be approved by the Traffic Authority and such facilities will cost significantly more than other pedestrian protection devices, each proposal should be the subject of a cost benefit study.

7.2 Criteria

Briefly stated, the Traffic Authority guidelines require a pedestrian grade separation proposal to meet the following criteria:-

(i) Numerical Criteria

The numbers of pedestrians and vehicles must meet the following numerical requirements for at least three hours of a normal weekday.

V is the volume of vehicular traffic (total two way) in vehicles/hr.

P is the volume of pedestrians traffic in pedestrians/hr

(a) Where the proportion of pedestrians under 12 years of age and over 60 years of age is 50% or less.

```
Undivided Road: V > 850; P > 250 and PV > 250,000
Divided Road: V > 1500: P > 250 and PV > 400,000
```

(b) Where the proportion of pedestrians under 12 years of age or over 60 years of age is greater than 50%.

```
Undivided Road: V > 750; P > 200 and PV > 180,000
Divided Road: V > 1100; P > 200 and PV > 280,000
```

(ii) Feasibility Criteria

The criteria to be evaluated include the following:

- (a) Physical suitability of the site.
- (b) Compliance with future road hierarchy arrangements.
- (c) Consideration of all traffic management solutions.
- (d) Likely utilisation of the facility.
- (e) Engineering feasibility.
- (f) Cost.

7.3 Cost Benefit Analysis

When a proposal has satisfied the above criteria, it may then be subjected to detailed evaluation. A cost benefit analysis of each proposed project should be undertaken along the Lines given in the Department's publication, "Cost Benefit Analysis Technique and Case Study". Until a more refined procedure is developed, the ranking of pedestrian grade separated projects may be made according to the PV values (the product of pedestrian and vehicle numbers).

7.4 Signs

Signs for grade separated pedestrian crossings are shown on pages 4.17-15 and 4.17-16.

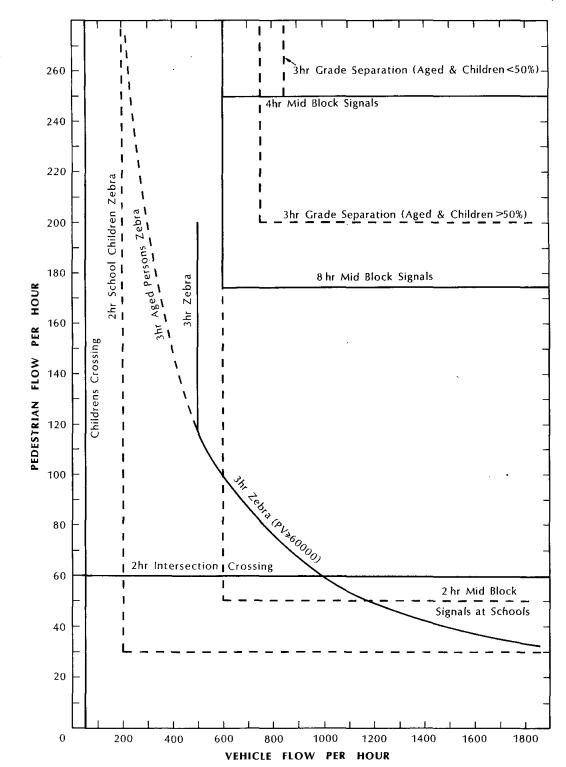
8 PROBEBLITION OF PEDESTRIAN TRAFFIC

On freeways and other controlled access roads pedestrian traffic is not allowed. Signs to be exected

at freeway ramps advising pedestrians of this prohibition are shown on Page 4.17-16.

9 SITUATION DIAGRAMS

4.17-9	Warrant Graph for Pedestrian Crossing
4.17-10	Marked Pedestrian Crossing
4.17-11	Location of Overhead Flashing Symbol
4.17-12	Children's Crossing
4.17-13	Traffic Signal Controlled Pedestrian Crossing at mid-block location
4.17-14	Pedestrian Refuge Island
4.17-15	Pedestrian Control at Subway or Overbridge
4.17-16	Pedestrian Control on Freeway

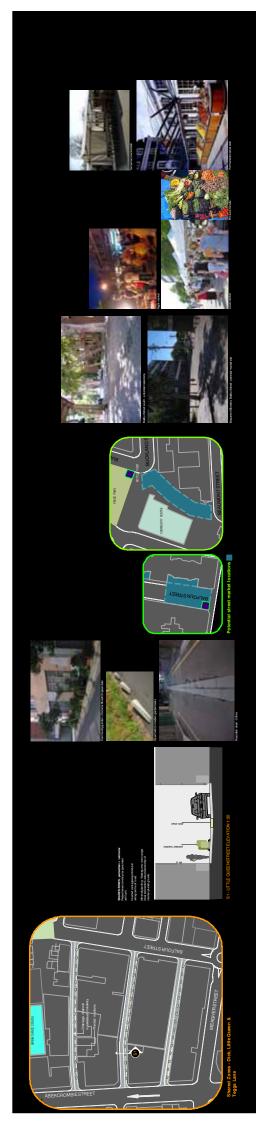


WARRANT GRAPH FOR PEDESTRIAN CROSSING

Appendix F

EDAW Urban Design Concept Plan

appendix f









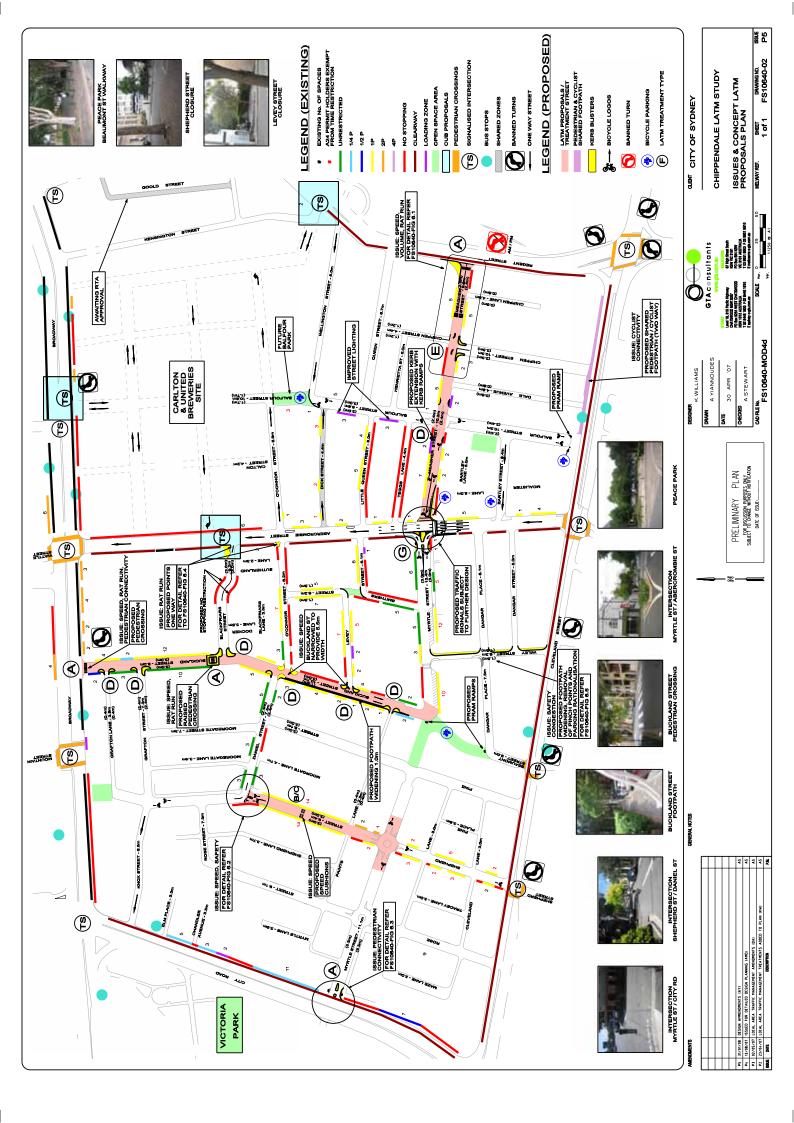




Appendix G



Overall LATM Proposal Community Workshop Plan



appendix h

Appendix H

Cost Rates & LATM Indicative Cost Estimates





STACONSULTANTA	Cost Estimate [1]	\$52,000	\$450	\$7,500	\$25,000	\$18,000	\$4,500	\$19,500 \$250,000	\$56,250	\$433,200	\$32,500	\$76,500	\$22,500	\$281,250	\$1,000	\$413,750	\$19,500	\$7,500	\$27,000	\$35,000	636 000
Manage Comment	Measure Priority	1	ო	ന	ო	ю	4	4 2	2	Sub total	-	4	2	က	2	Sub total	-	2	Sub total	2	Sub total
Others t Duly like	Street Priority							-						7			ю			ю	
WEV - Freeze C	Proposed LAIM Measures	1.1 Pedestrian Crossing (and Improved Lighting)	1.2 AM & PM Peak, Left turn ban from Regent Street into Maanhar Streat	1.3 Speed Cushions	1.4 Modified T-Intersection Treatment	1.5 Kerb Blisters/Road Narrowing	1.6 Kerb Blisters/Road Narrowing	1.7 Kerb Extentiions with kerb ramps 1.8 Traffic Signals with controlled pedestrian crossings and	prioniy bioyole facilities. 1.9 Road Narrowing (approx 25m)		2.1 Pedestrian Crossing (Improved Lighting)	2.2 Kerb Blisters/Road Narrowing (Various x 7intersection, approx	ogni) 2.3 Raised Pedestrian (Existing Zebra Crossing)	2.4 Footpath widening (approx 125m)	2.5 Kerb Ramps x 2		3.1 Traffic Island/Linemarking	3.2 Speed Cushions		4.1 Pedestrian Refuge Island (and Improved Lighting)	
: - ip	Location	Intersection Regent Street/Meagher Street	Intersection Regent Street/Meagher Street	Meagher Street between Regent Street and	Oripper Street Intersection Chippen Street (North and South)/Meagher Street	Intersection Chippen Street /Meagher Street 1 (South)	Meagher Street East and West of Balfour Street	Meagher Street West of Balfour Street Intersection Meagher Street/Abercrombie	Street/Myrtle Street Meagher Street (south side) East of Abercrombie Street		Intersection Broadway/Buckland Street		Buckland Street north of Blackfriars Street	Buckland Street between Daniel Street and	Street and Beaumont Street		Intersection Daniel Street/Shepherd Street 3	Shepherd Street Mid Block		City Road / Myrtle Street West Intersection City Road/Myrtle Street	
	Street Name	Meagher Street					-				Buckland Street						Shepherd Street			City Road / Myrtle Street West	
Marie Marie	Item No.	~									2						က			4	

[1] All cost estimates prepared by GTA Consultants are for broad level or initial feasibility planning only and must not be relied upon for quoting, budgeting or construction purposes. You should seek a detailed cost estimate from a suitably



	[1]																	s part of ment Plan .000
STATE OF THE PARTY	Cost Estimate [1] \$17,150		\$240 \$900	\$17,150	\$35,440	\$12,000	\$236,250	\$900	\$249,150	\$15,850	\$500 \$4.400		\$50,000	\$45,000	\$50,000	\$170,750		Funding Provided as part of Chippendale Improvement Plan Allocation - \$500,000
:	Measure Priority 2		m m	5 2	Sub total	2	ო	ო	Sub total	2	- 6		Nπ	ю	က	Sub total		N/A
	Street Priority											Ó	າ					N/A
	5.1 Left Out Only Restriction (Islands and 3 signs) x 2		5.2 Centre Line Marking along the bend 5.3 No Stopping Signs x 4	5.4Left Out Only Restriction (Islands and 3 signs) x 2		6.1 Remove Kerb Extension	6.2 Install Kerb Extension	6.3 No Stopping Sign and Posts $ imes$ 4		7	Signage (x8) 7.2 Kerb Ramp x 1 7.3 Shared Pedestrian/Bicvcle Wav (logos. signage and	linemarking)	7.4 bicycle Parking (x5) 7.5 Shared Zone (approx 500m2)	7.6 Shared Zone (approx 450m2)	7.7 Lighting Improvement			8.1 Road closure/future park
	Location Intersection Abercrombie Street with	Blackfriars Street	Along the bend Along the bend	ercrombie Street with	Blackfrars Street		Eastern Side Between Myrtle Street and Cleveland Street	Between Myrtle Street and Cleveland Street Eastern Side		Myrtle Street/Shepherd Street Balfour Street	Southern End Northern foot path between Balfour Street	and Regent Street	various Between Abercrombie Street/Balfour Street	Between Abercrombie Street/Balfour Street	Between Meagher Street and Wellington Street			Between Wellington Street & O'Connor Street
	Street Name Blackfriars Street & O'Connor	Street				Willey Street				Route	Balfour Street Cleveland Street		Little Queen Street	Teggs Lane	Balfour Street		atments	Street
:	Item No. 5					9				Other Treatments 7 Bicycle							Other Treatments	8

[1] All cost estimates prepared by GTA Consultants are for broad level or initial feasibility planning only and must not be relied upon for quoting, budgeting or construction purposes. You should seek a detailed cost estimate from a suitably qualified civil engineer or quantity surveyor.



CHIPPENDALE LATM STUDY - CONCEPT PROPOSALS SUMMARY - 2007 ESTIMATED COST RATES

Item	ESTIMA [*]	TED COST RA	ATES [1]
	Rate	Low	High
Road Hump	\$5,500	\$1,000	\$10,000
Road Cushion	\$7,500	\$5,000	\$10,000
Modified T	\$25,000	\$5,000	\$45,000
Median (\$/m)	\$3,250	\$500	\$6,000
Pedestrian Crossing	\$22,500	\$5,000	\$40,000
Threshhold	\$23,750	\$7,500	\$40,000
Lane Narrowing/Kerb Extension (\$/m)	\$2,250	\$500	\$4,000
Shared Zone (\$/m2)	\$100	\$100	\$100
Signage	\$225	\$150	\$300
Bicycle Logos	\$200	\$200	\$200
Kerb Ramps	\$500	\$500	\$500
Traffic Signals	\$250,000	\$250,000	\$250,000
Bicycle Parking	\$1,000	\$1,000	\$1,000
Excavation (\$/m)	\$500	\$500	\$500
Lighting	\$10,000	\$10,000	\$10,000
Line Marking (\$/m)	\$8	\$8	\$8

^[1] Most rates were sourced from Austroads Part 10 - Guide To Traffic Engineering Practice, Local Area Traffic Management. All cost estimates prepared by GTA Consultants are for broad level or initial feasibility planning only and must not be relied upon for quoting, budgeting or construction purposes. You should seek a detailed cost estimate from a suitably qualified civil engineer or quantity surveyor.