

Proposed Mixed-Use Development
**215-235 O’Riordan Street & 1-3 Ewan Street,
Mascot**

TRAFFIC AND PARKING ASSESSMENT REPORT

12 December 2018

Ref 18453

VARGA TRAFFIC PLANNING Pty Ltd
Transport, Traffic and Parking Consultants 

Suite 6, 20 Young Street, Neutral Bay NSW 2089 - PO Box 1868, Neutral Bay NSW 2089
Ph: 9904 3224

TABLE OF CONTENTS

1. INTRODUCTION	1
2. PROPOSED DEVELOPMENT	4
3. TRAFFIC ASSESSMENT	11
4. PARKING ASSESSMENT	34

APPENDIX A: TRAFFIC SURVEY DATA

APPENDIX B: SIDRA NETWORK MOVEMENT SUMMARIES

LIST OF ILLUSTRATIONS

Figure 1	Location
Figure 2	Site
Figure 3	Road Hierarchy
Figure 4	Existing Traffic Controls
Figure 5	Public Transport
Figure 6	Existing Parking Restrictions

1. INTRODUCTION

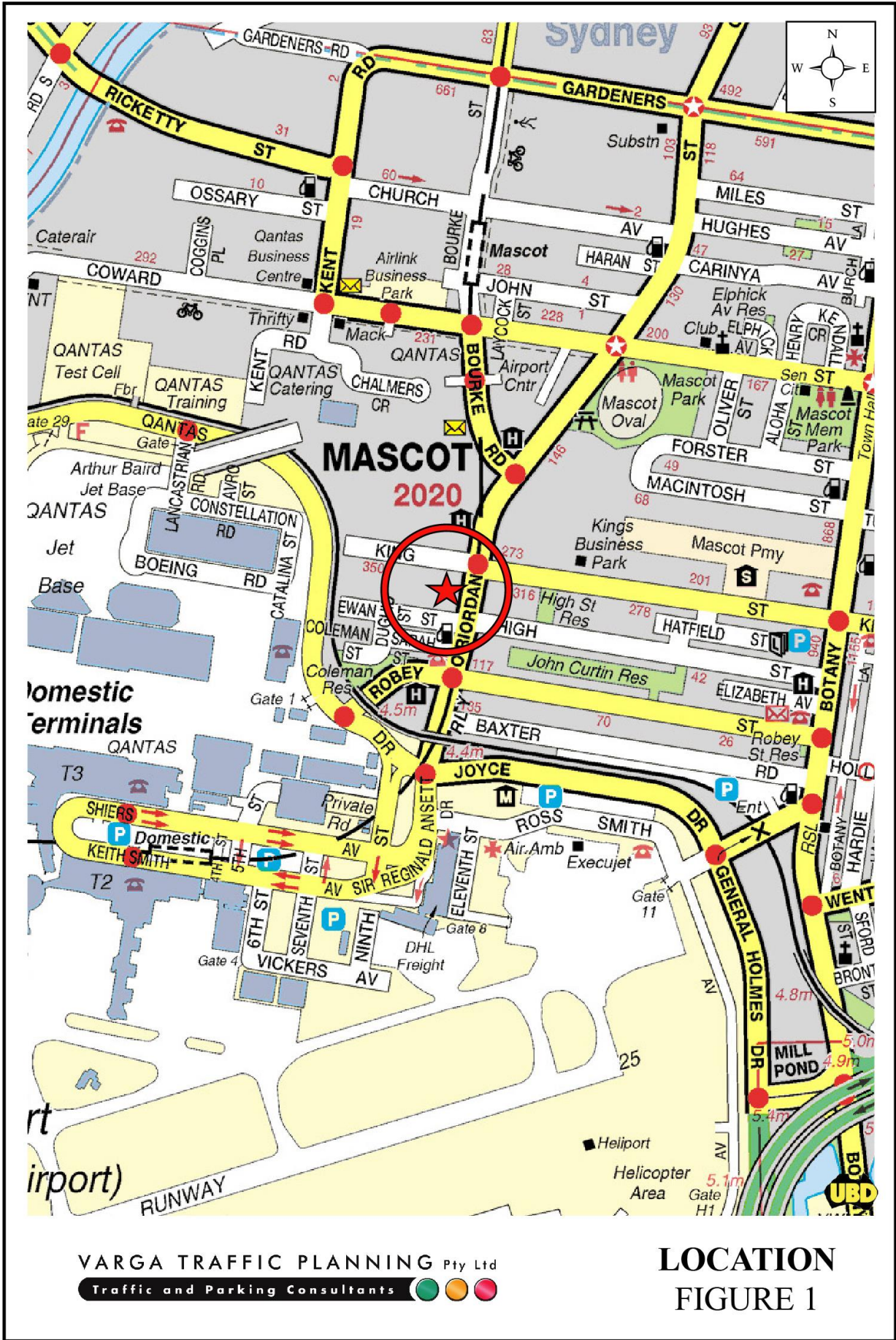
This report has been prepared to accompany a planning proposal to Bayside Council for a mixed-use hotel development proposal to be located at 215-235 O’Riordan Street & 1-3 Ewan Street, Mascot (Figures 1 and 2).

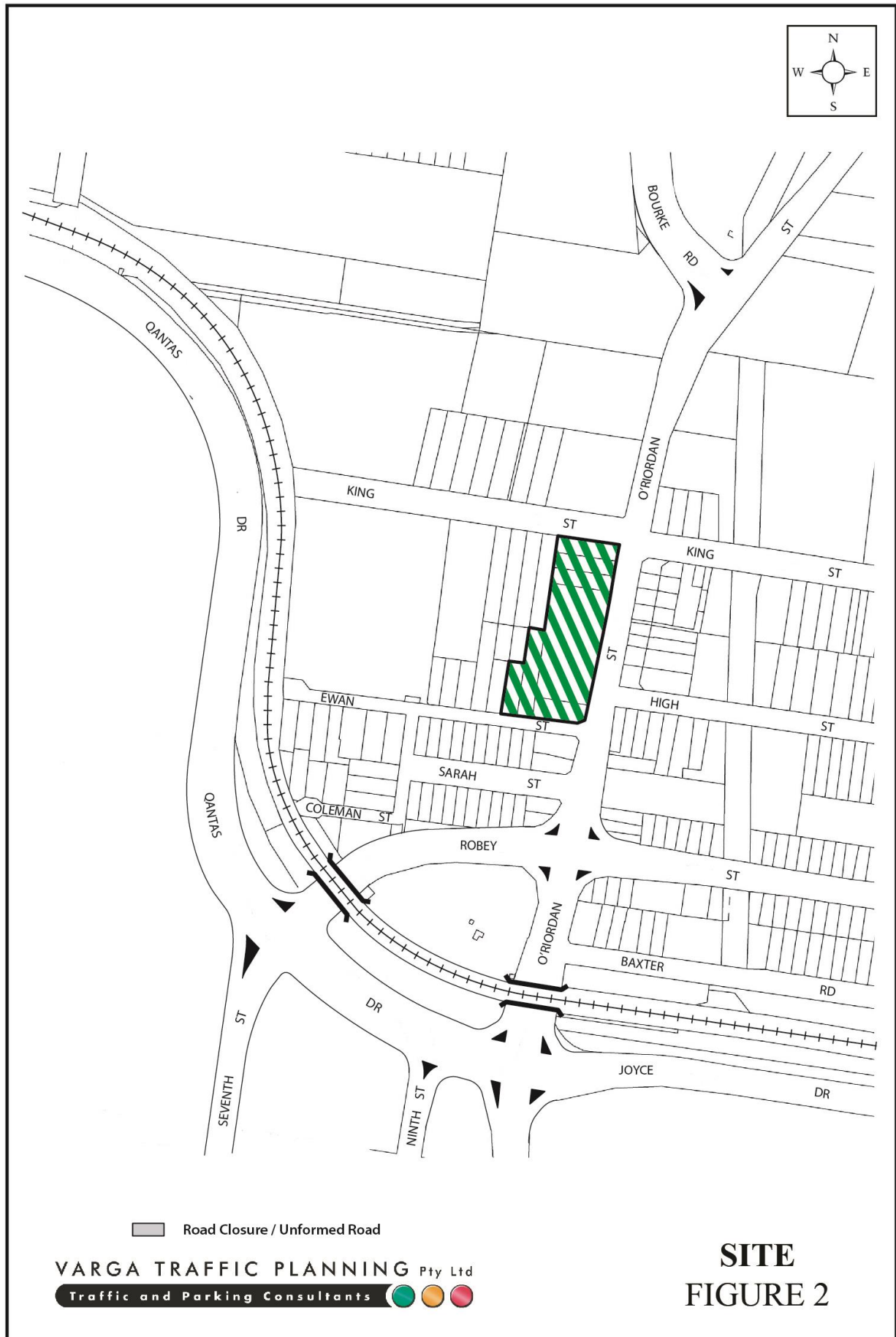
The *concept plans* which have been prepared for the purposes of the planning proposal envisages the construction of two separate mixed-use buildings comprising hotel accommodation rooms, serviced apartments, restaurant / café, retail tenancies, office tenancies, a medical component and commercial car parking.

Off-street car parking is to be provided in a multi-level carparking area comprising a basement and an above ground car parking structure in accordance with Council requirements.

The purpose of this report is to assess the traffic and parking implications of the planning proposal and to that end this report:

- describes the site and provides details of the planning proposal
- reviews the road network within in the vicinity of the site
- reviews the public transport services available in the vicinity of the site
- estimates the traffic generation potential of the planning proposal
- assesses the traffic implications of the planning proposal in terms of road network capacity
- assesses the adequacy and suitability of the quantum of off-street parking and loading provided on the site.





2. PROPOSED DEVELOPMENT

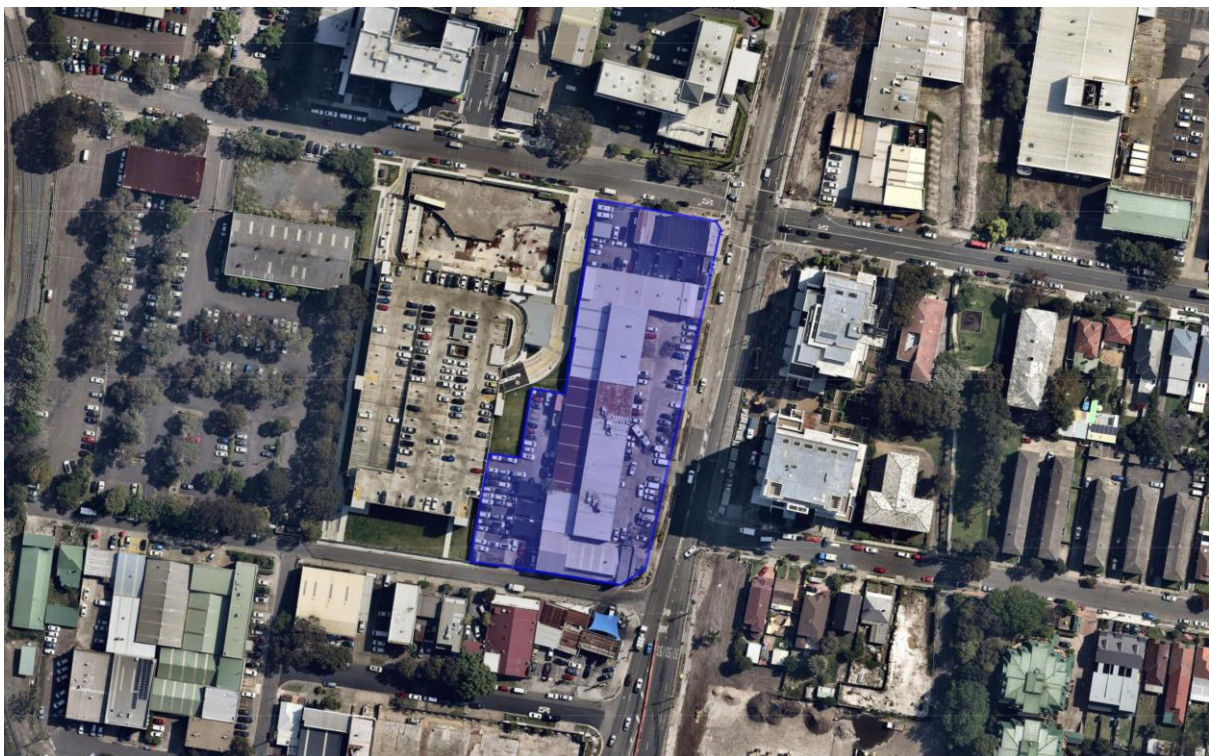
Site

The subject site is located to the south of the *Mascot Station Town Centre Precinct*, on the western side of O’Riordan Street extending from King Street to Ewan Street. The site has street frontages approximately 141 metres in length to O’Riordan Street, approximately 50 metres in length to King Street, approximately 64 metres in length to Ewan Street and occupies an area of approximately 7,629m².

The site is currently occupied by a number of light industrial buildings with a cumulative floor area of approximately 3,800m². The buildings are mostly used for airport related businesses, including long-term parking, vehicle rentals and luggage services.

Vehicular access to the site is currently provided via a vehicular crossover to King Street, five vehicular crossovers to O’Riordan Street and four vehicular crossovers to Ewan Street.

A recent aerial photograph of the site and its surroundings is provided below:



Courtesy of Nearmap Imagery 2018

Proposed Development

The planning proposal envisages the demolition of the existing light industrial buildings on the site to facilitate the construction of a mixed-use commercial development.

The *concept plans* which have been prepared for the purposes for this planning proposal envisages the construction of two separate mixed-use buildings are proposed on site comprising the following components:

- a total of 136 hotel rooms
- a total of 57 serviced apartment rooms
- an ancillary restaurant / café with a floor area of 964m², to be operated by the hotel, for hotel and serviced apartment guests only
- an ancillary banquet hall to be generated by the hotel which may be used by internal or external guests
- a ground floor retail component with a cumulative floor area of 1,263m²
- a medical centre with a floor area of 1,161m² and specialist medical suites with a cumulative floor area of 4,278m²
- a commercial office component comprising a cumulative floor area of 7,627m².

The *concept plans* which have been prepared for the purposes of this planning proposal envisage the provision of car parking for approximately 981 cars in a multi-level car parking area. Car parking will ultimately be provided in accordance with Council's DCP requirements, with the surplus car parking to be used as commercial paid parking for long-term airport parking needs.

Vehicular access to the car parking facilities is to be provided via two separate vehicular entry / exit driveways, one positioned at the western end of the King Street site frontage and another positioned at the western end of the Ewan Street site frontage.

A drive-through porte-cochere is also proposed fronting O’Riordan Street for the hotel and serviced apartments with 3 indented taxi bays. Vehicular access is to be provided via an entry-only driveway located towards the southern end of the O’Riordan Street site frontage and vehicular egress is to be provided via an exit-only driveway located towards the northern end of the O’Riordan Street site frontage.

The proposed driveways in O’Riordan Street will be used to accommodate buses and taxis in accordance with the Council’s DCP requirements for the hotel and serviced apartments component of the development *only*.

It is noted in this regard that O’Riordan Street is a classified RMS Road, and any vehicular access off the classified road network is subject to the following requirements specified in the *State Environmental Planning Policy (Infrastructure) 2007 [NSW]* document:

Clause 101 Development with frontage to classified road

- (1) The objectives of this clause are:
 - (a) to ensure that new development does not compromise the effective and ongoing operation and function of classified roads, and
 - (b) to prevent or reduce the potential impact of traffic noise and vehicle emission on development adjacent to classified roads.
- (2) The consent authority must not grant consent to the development on land that has a frontage to a classified road unless it is satisfied that:
 - (a) where practicable, vehicular access to the land is provided by a road other than the classified road, and
 - (b) the safety, efficiency and ongoing operation of the classified road will not be adversely affected by the development as a result of:
 - (i) the design of the vehicular access to the land, or
 - (ii) the emission of smoke or dust from the development, or
 - (iii) the nature, volume or frequency of vehicles using the classified road to gain access to the land, and
 - (c) the development is of a type that is not sensitive to traffic noise or vehicle emissions, or is appropriately located and designed, or includes measures, to ameliorate potential traffic noise or vehicle emissions within the site of the development arising from the adjacent classified road.

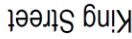
Having considered the above, the consent authority should take into account the following site-specific circumstances to assess the proposed vehicular access arrangement based on its merits:

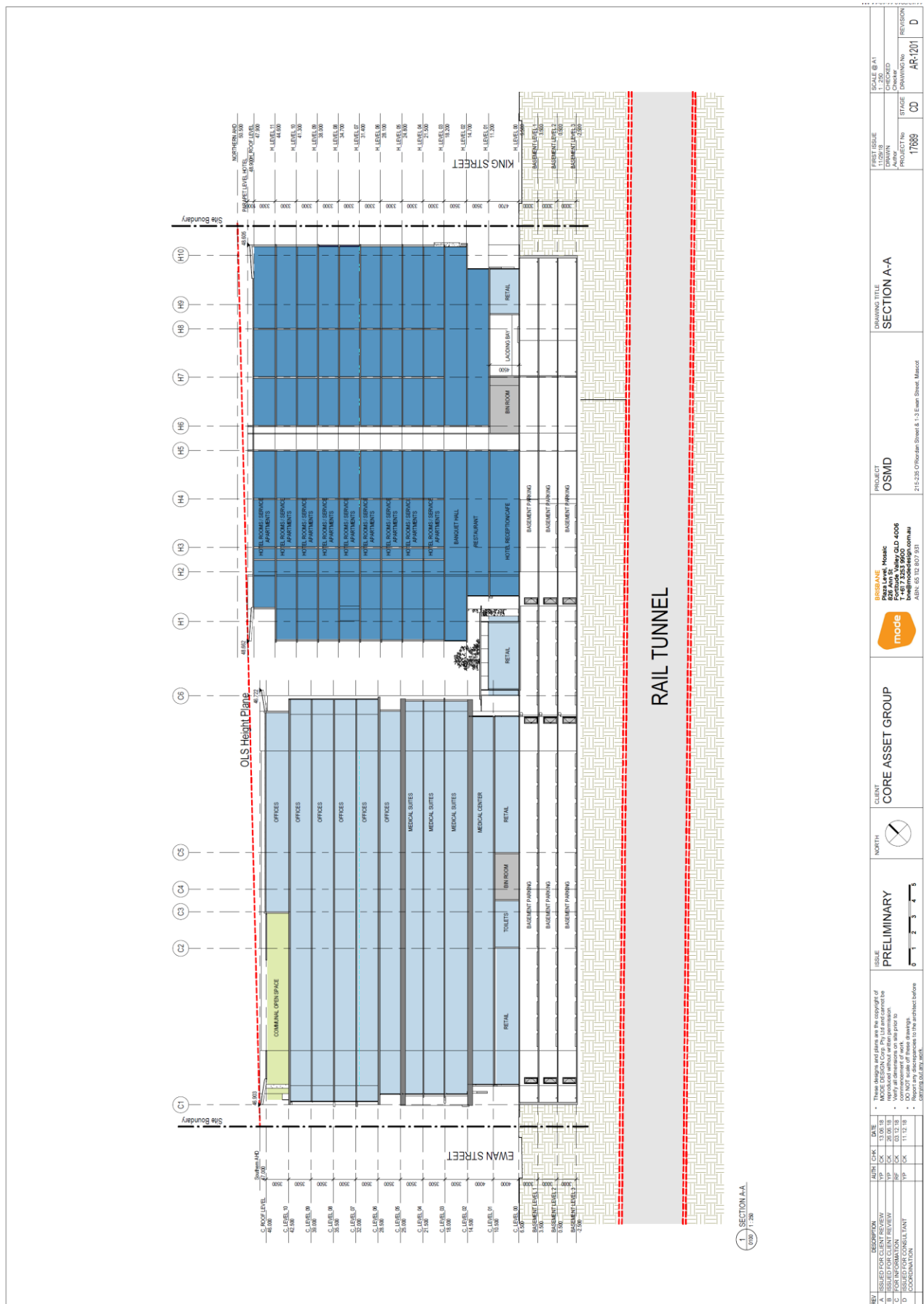
- the subject site is currently configured with five (5) separate vehicular crossovers off O’Riordan Street
- the proposed development consolidates 5 existing entry / exit driveways off a classified road into one single entry driveway, and one single exit driveway, thereby improving the pedestrian safety and amenity (i.e. pedestrians no longer need to cross multiple driveways)
- the proposed central concrete median island in O’Riordan Street will limit vehicular movements to left-in / left-out only
- the single entry and exit driveways are proposed to satisfy Council’s DCP requirements for bus and taxi drop-off/pick-up facilities for the hotel / serviced apartment component *only*, and represent a *less* intensive use than the 5 entry / exit driveways that currently provide access to the site off O’Riordan Street
- the proposed single entry and exit driveways will be designed to accommodate the *swept turning path* requirements of large buses and will be generously proportioned to ensure that these vehicles will be able to enter and exit the site with ease
- there will be no access between the porte-cochere and the proposed off-street car parking facilities.

In summary, the proposed access arrangement with one single entry and one single exit driveway off O’Riordan Street to serve the porte-cochere will service *less* traffic (i.e. taxis and buses only) than the existing site developments, improve pedestrian amenity in the area and is therefore considered to be satisfactory on traffic engineering grounds.

Loading / servicing for the proposed development is expected to be undertaken by a variety of commercial vehicles up to and including 12.5m long Heavy Rigid Vehicles (HRV trucks). Two separate loading areas are proposed on site to service each respective building. Vehicular access to the loading facilities is to be provide via the abovementioned vehicular access driveways in King Street and Ewan Street.

Plans of the proposed development have been prepared *mode* and are reproduced in the following pages.





3. TRAFFIC ASSESSMENT

Road Hierarchy

The road hierarchy allocated to the road network in the vicinity of the site by the Roads and Maritime Services is illustrated on Figure 3.

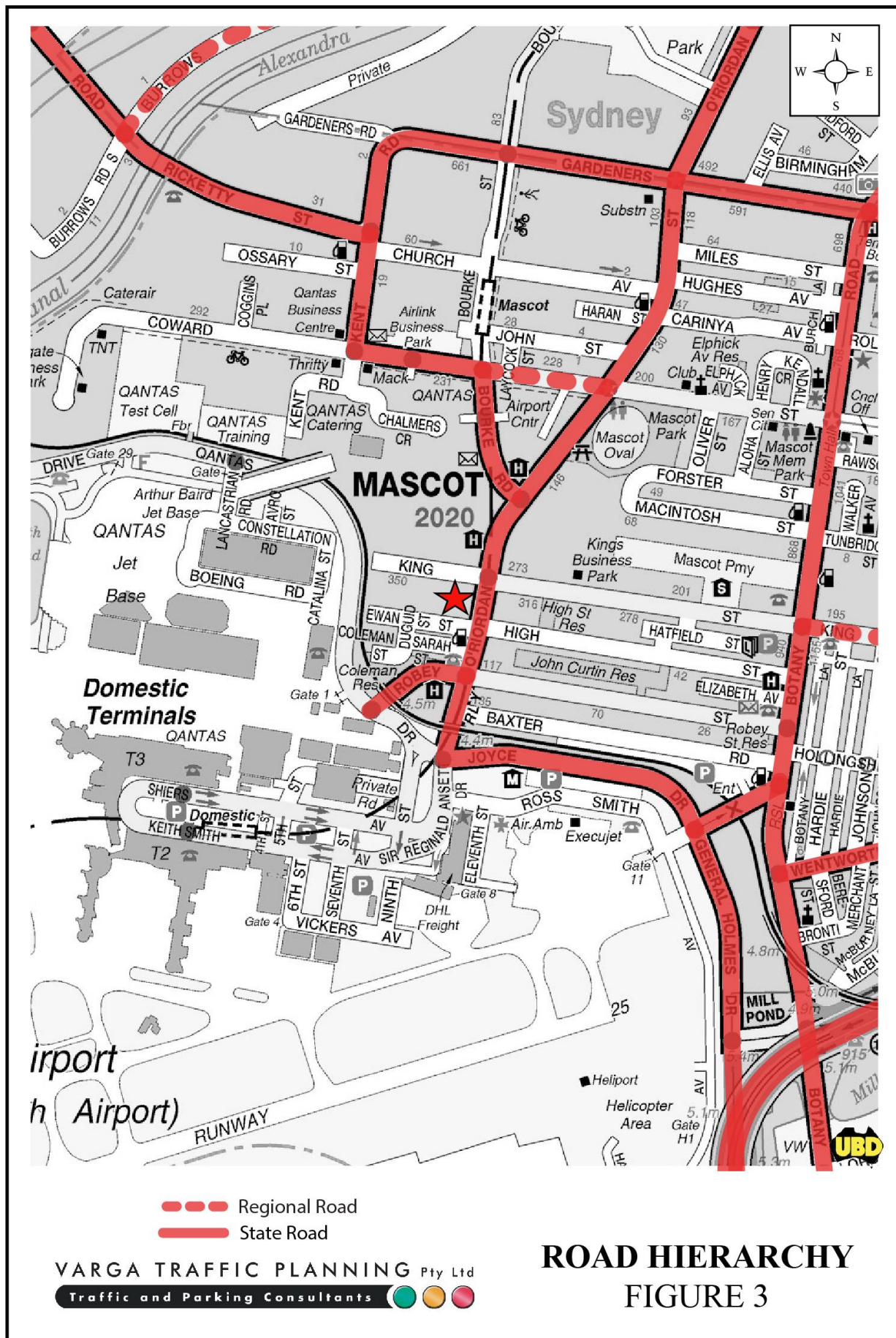
Gardeners Road is classified by the RMS as a *State Road* and provides the key east-west road link in the area, linking Mascot and Kingsford. It typically carries two traffic lanes in each direction in the site's vicinity, with additional lanes provided at key intersections.

Botany Road is classified by the RMS as a *State Road* and provides the key north-south road link in the area, linking Redfern and Botany. It typically carries three traffic lanes in each direction in the vicinity of the site, including northbound and southbound Bus Lanes which operate during the commuter peak periods.

O'Riordan Street is classified by the RMS as a *State Road* and provides another north-south road link in the area, linking Mascot and Green Square. It typically carries two traffic lanes in each direction in the site's vicinity, with additional lanes provided at key intersections.

King Street (east of Botany Street) is classified by the RMS as *Regional Road* which provides a key east-west road link in the local area. It typically carries one to two traffic lanes in each direction in the site's vicinity. Kerbside parking is generally permitted, subject to signposted restrictions.

King Street (west of Botany Street) and Ewan Street are local, unclassified roads that are primarily used to provide vehicular and pedestrian access to frontage properties. Kerbside parking is generally permitted in King Street and also in the western end of Ewan Street, subject to sign posted restrictions.



Airport North Precinct Road Upgrades

Roads and Maritime Services is currently undertaking road upgrades in Robey Street and O’Riordan Street to accommodate upgrades to the Sydney Airport internal road network and help improve traffic flow around the airport.

The key features of the road upgrades include:

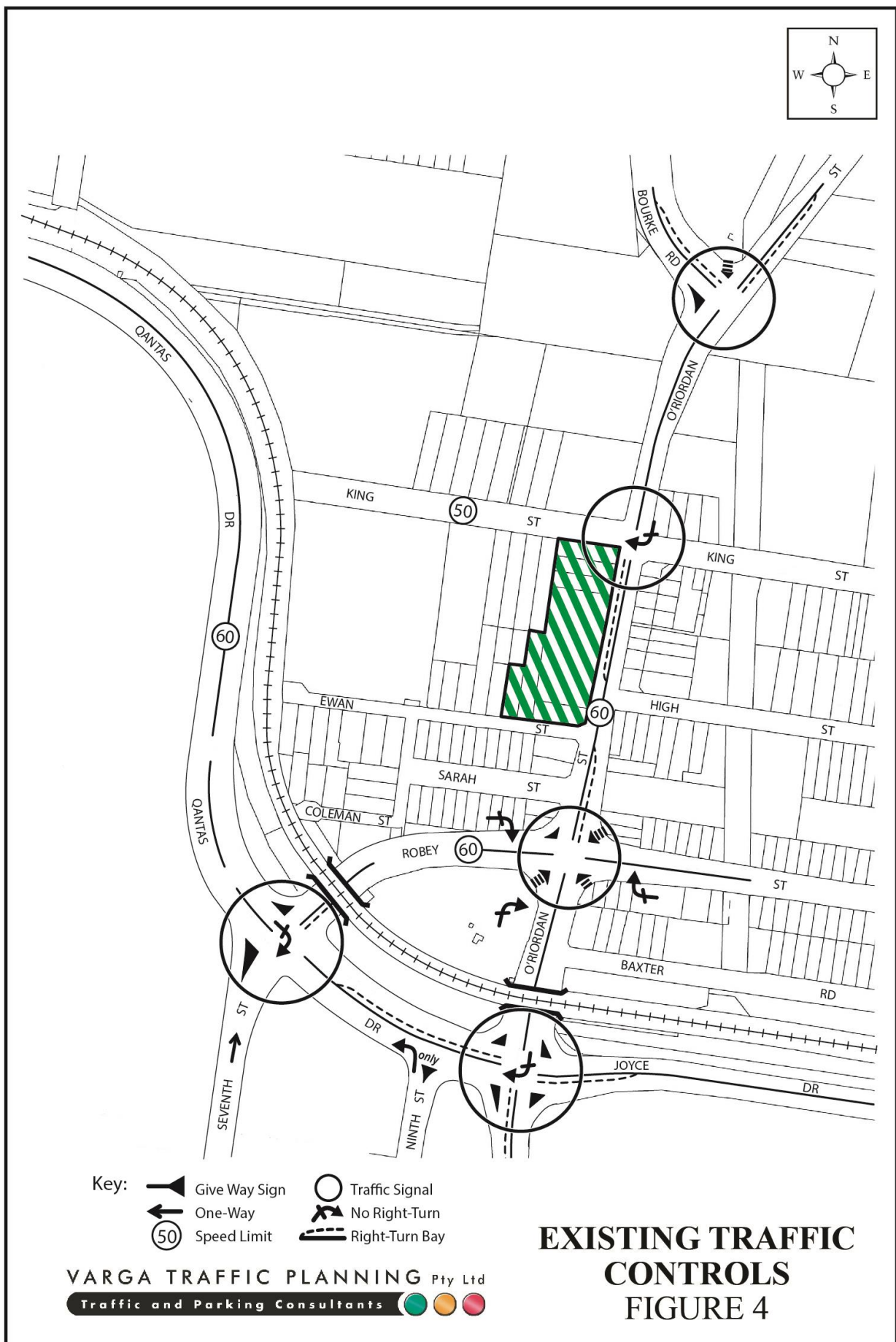
- widening O’Riordan Street to provide six lanes (three lanes in each direction plus turn bays) between Bourke Road and Robey Street
- converting the southern sections of Robey Street and O’Riordan Street into one-way pair
- reconfiguring the existing traffic signals on O’Riordan Street between Qantas Drive and Bourke Road
- upgrading the footpaths on both sides of O’Riordan Street.

The proposed layout of the future road network post road upgrades completion is reproduced in the following pages.

Existing Traffic Controls

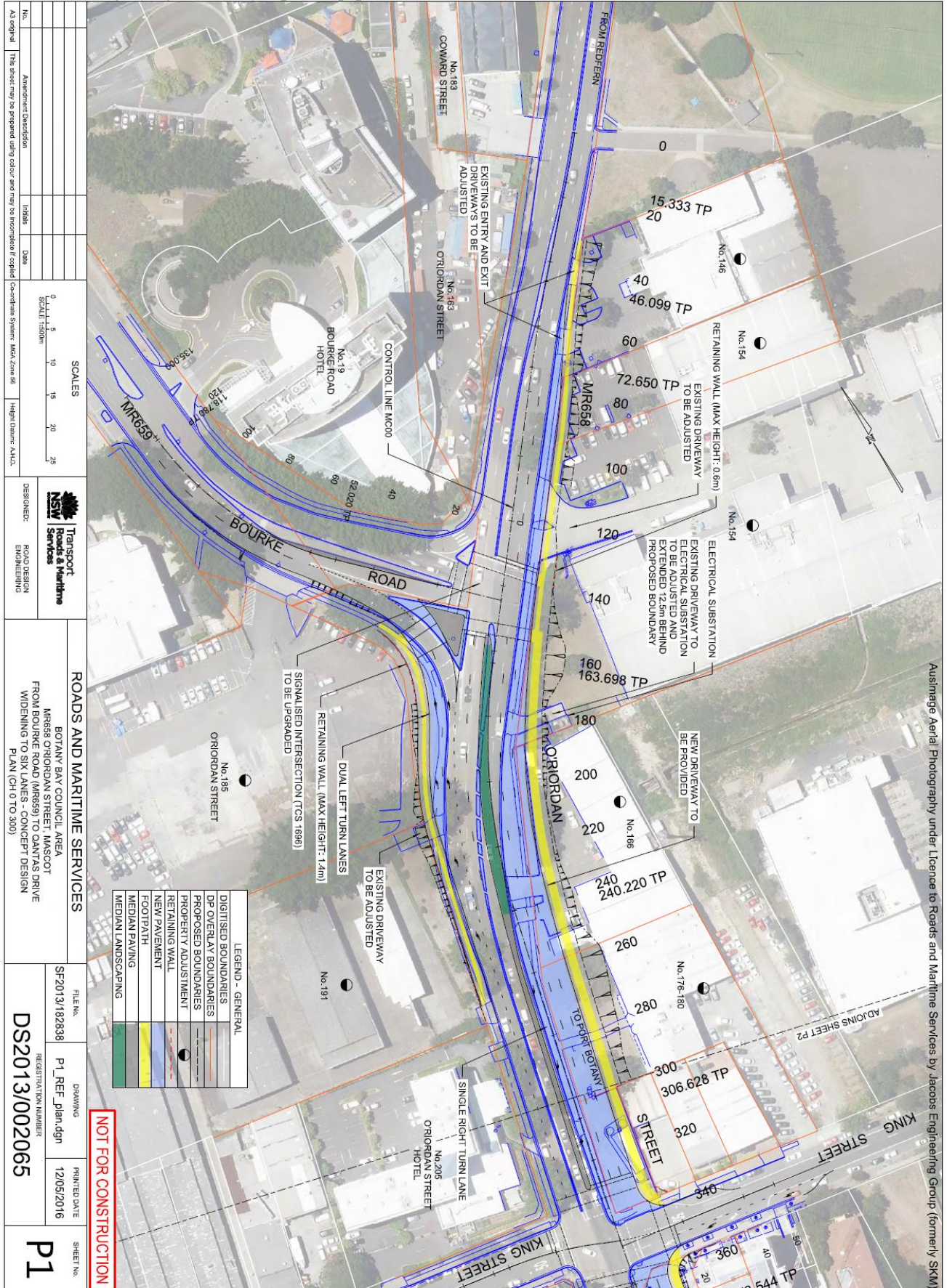
The existing traffic controls which apply to the road network in the vicinity of the site are illustrated on Figure 4. Key features of those traffic controls are:

- a 60 km/h SPEED LIMIT which applies to O’Riordan Street
- a 50 km/h SPEED LIMIT which applies to King Street, Ewan Street and all other local roads in the area
- a NO RIGHT-TURN southbound restriction in O’Riordan Street onto King Street

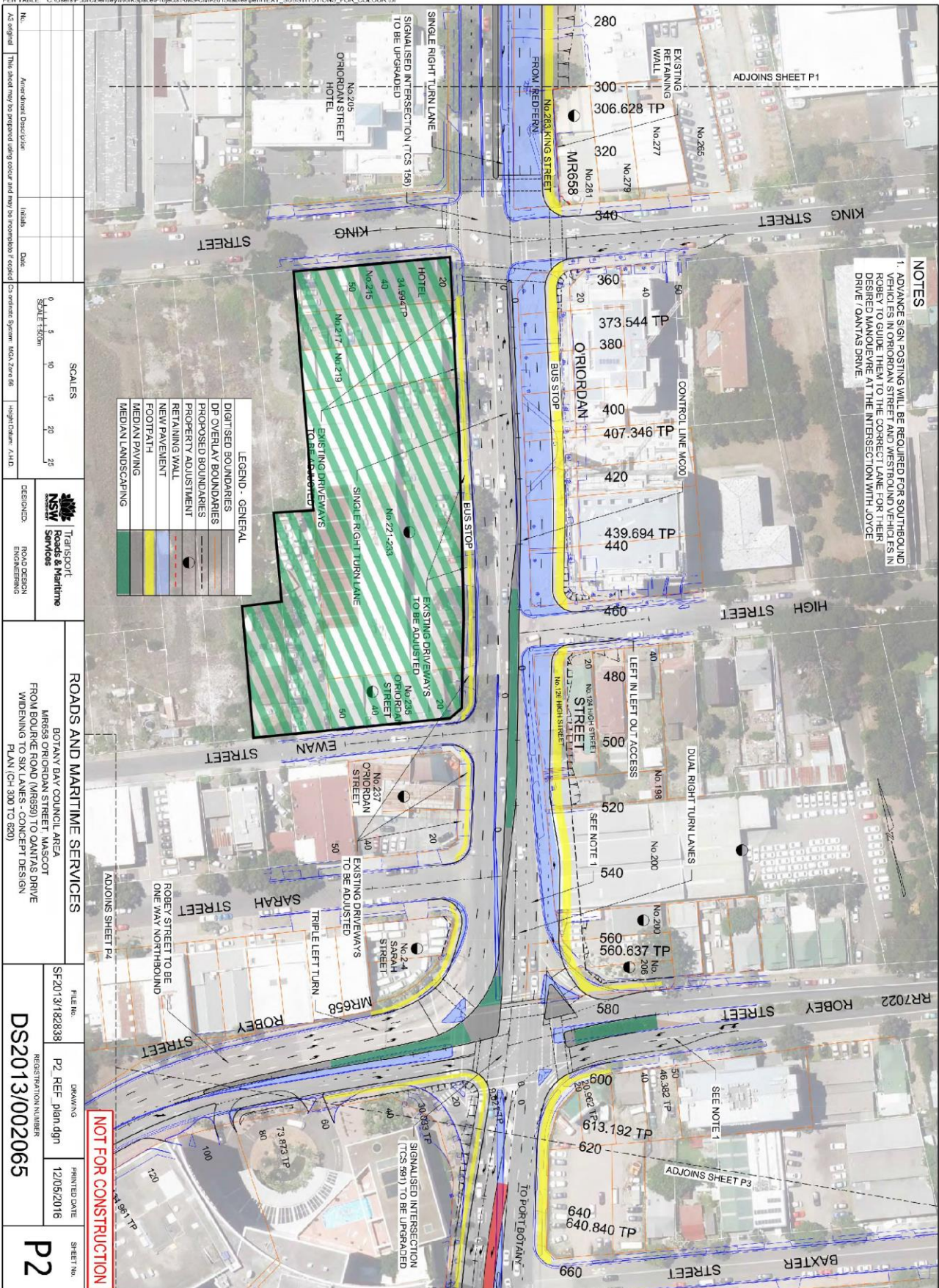


PRODUCED: 12/05/2016 AT 1:14:07 PM USER: wassell
 FILE PATH: K:\Bentley\p1\052013\002065\Drawings\REF_P1_REF_plan.dgn
 PLOT DRIVER: C:\Users\Public\Bentley\Workspace\Projects\RM5-CLM\2015\p1\p1\RM5-CLM\REF_P1_REF_plan.dgn
 PEN TABLE: C:\Users\Public\Bentley\Workspace\Projects\RM5-CLM\2015\p1\p1\REF_P1_REF_plan.dgn

CONCEPT DESIGN FOR REVIEW OF ENVIRONMENTAL FACTORS

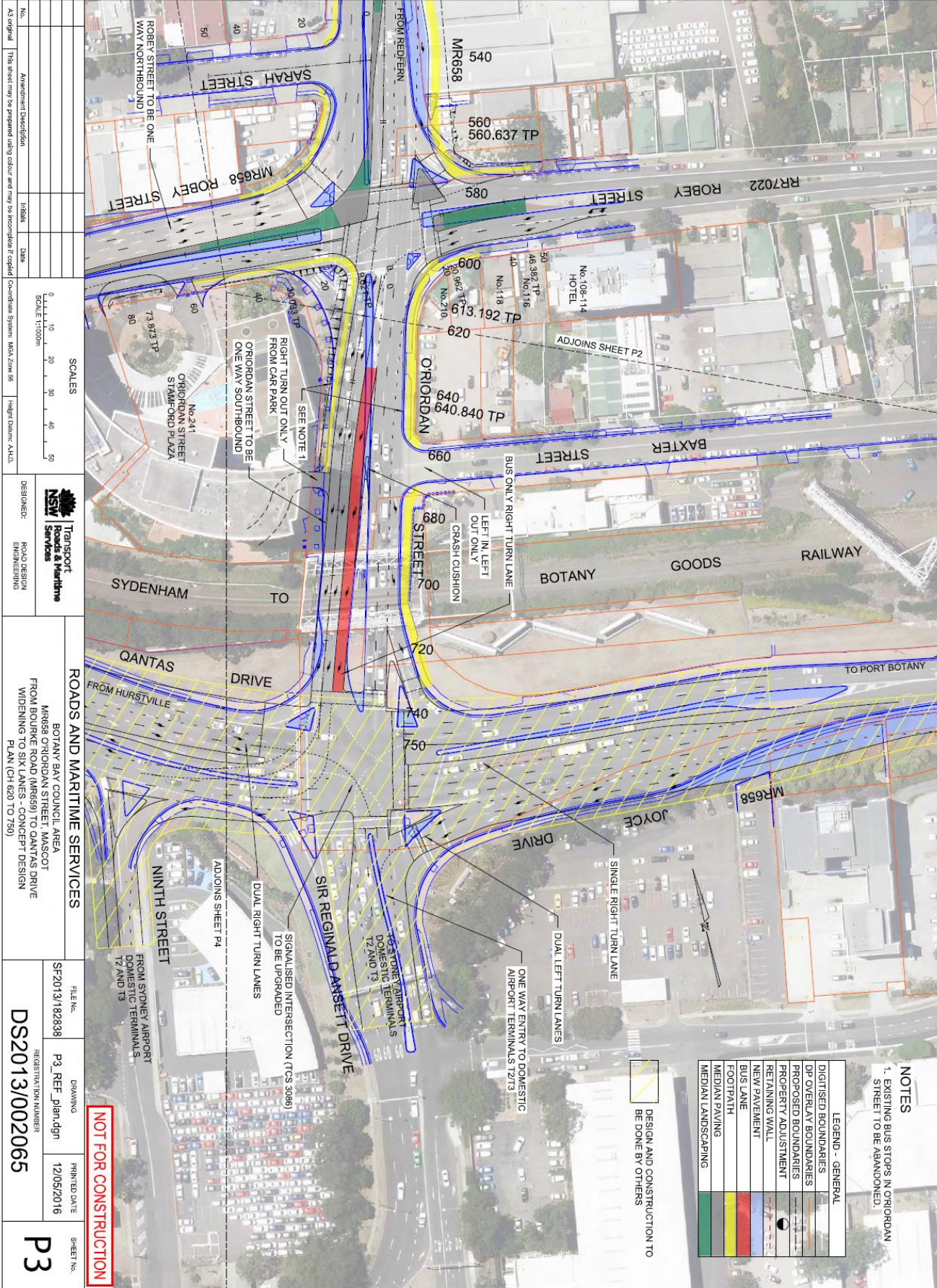


PRODUCED: *2/05/2016 AT 1:14:11 PM USER: waaa01p
FILE PATH: K:\Design\pds\DS2013-032065-ORJordan\Drawings\REF\P2_REF_plan.dgn
PLOT DRIVER: C:\Users\Public\Bentley\WorkSpace\projects\RMS-Civil-2015\pctfg\RMS-PDF.pctfg
PEN TABLE: C:\Users\Public\Bentley\WorkSpace\Projects\RMS-Civil-2015\tables\pen\TEXT_SUBSTITUTIONS_FOR_COLOUR.tbl



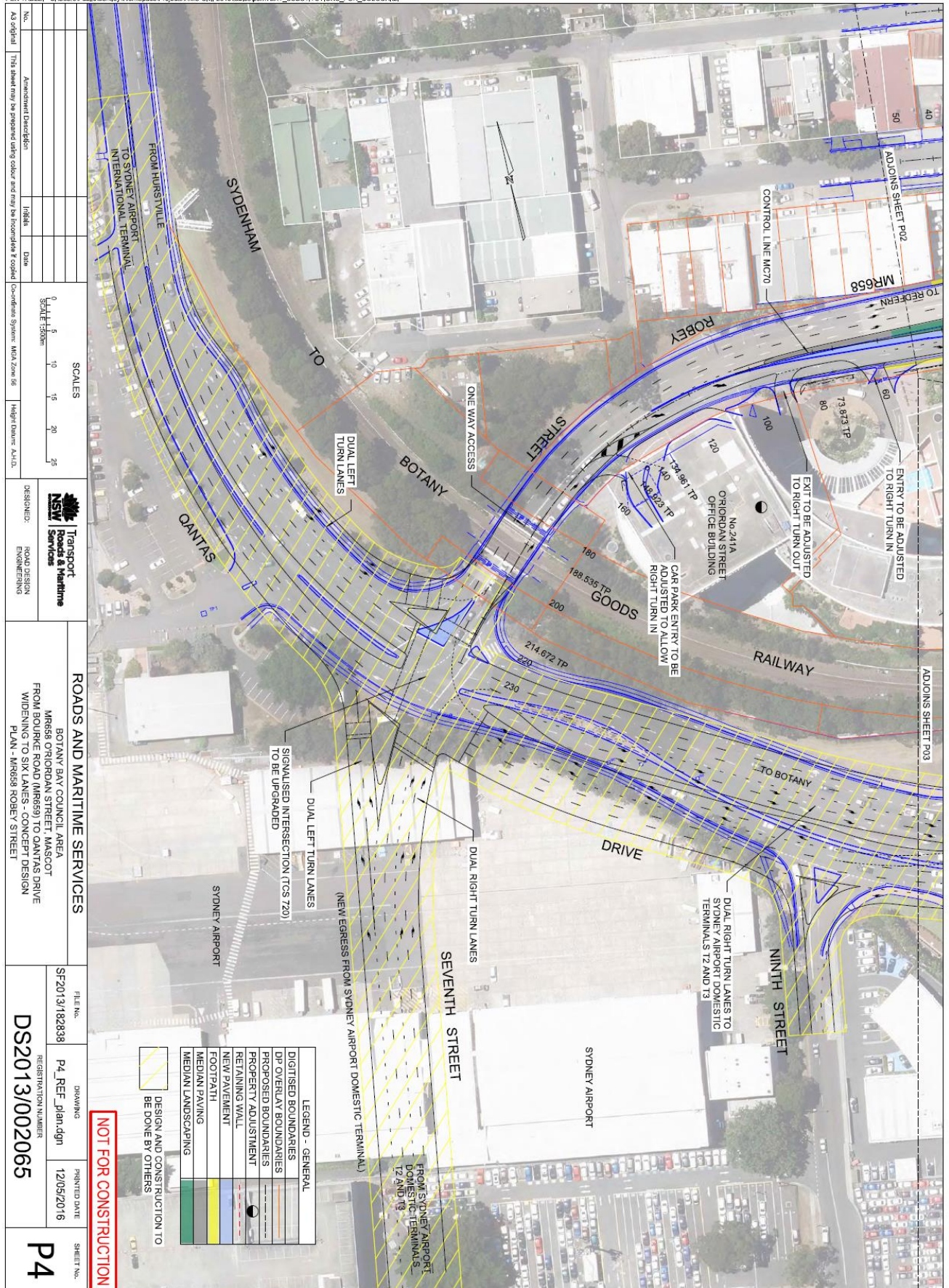
CONCEPT DESIGN FOR REVIEW OF ENVIRONMENTAL FACTORS

PRODUCED: 12/05/2016 AT 1:14:15 PM USER: wassell
FILE PATH: K:\Design\702013\202065\Roads\Drawings\REF_P3_REF_plan.dgn
PLOT DRIVER: C:\Users\Public\Bentley\WorkSpace\projects\RM5-Civil\2015\pltdrv\RM5-Civil\PDF.ctb
PEN TABLE: C:\Users\Public\Bentley\WorkSpace\projects\RM5-Civil\2015\tabletpen\TEXT_SUBSTITUTIONS_FOR_COLOUR.tbl



CONCEPT DESIGN FOR REVIEW OF ENVIRONMENTAL FACTORS

PRODUCED: 12/05/2016 AT 1:14:19 PM USER: wassellp
FILE PATH: K:\Design\pds7\DS2013-002065-OR\Jordan\Drawings\REFP4_REF_plan.dgn
PLOT DRIVER: C:\Users\Public\Bentley\WorkSpace\projects\RMS-Civil-2015\p1tcfg\RMS-PDF.pltcf
PEN TABLE: C:\Users\Public\Bentley\WorkSpace\Projects\RMS-Civil-2015\tables\pen\TEXT_SUBSTITUTIONS_FOR_COLOUR.tbl



- TRAFFIC SIGNALS in O’Riordan Street where it intersects with Bourke Road, King Street, Robey Street and Joyce Drive.

Existing Public Transport Services

The existing public transport services available in the vicinity of the site are illustrated on Figure 5.

The site is conveniently located within approximately 800 metres walking distance to/from the Mascot Station. This suburban railway station services the T8 Airport & South Line. Trains typically arrive/depart the station at less than 10 minute intervals throughout the day and commuters can be expected to simply turn up and go without ever needing to rely on a timetable.

In addition to train services, bus route 305 (Stamford Hotel to Central Railway Square) operates on O’Riordan Street with bus stops accessible in less than 200 metres walking distance. Bus route 400 (Burwood to Bondi Junction via Eastgardens – limited stops) is available slightly further away from the site with bus stops on Coward Street within an approximate 700 metres walking distance.

On the above basis, it is reasonable to conclude that the site has excellent connectivity to frequent, reliable public transport services.

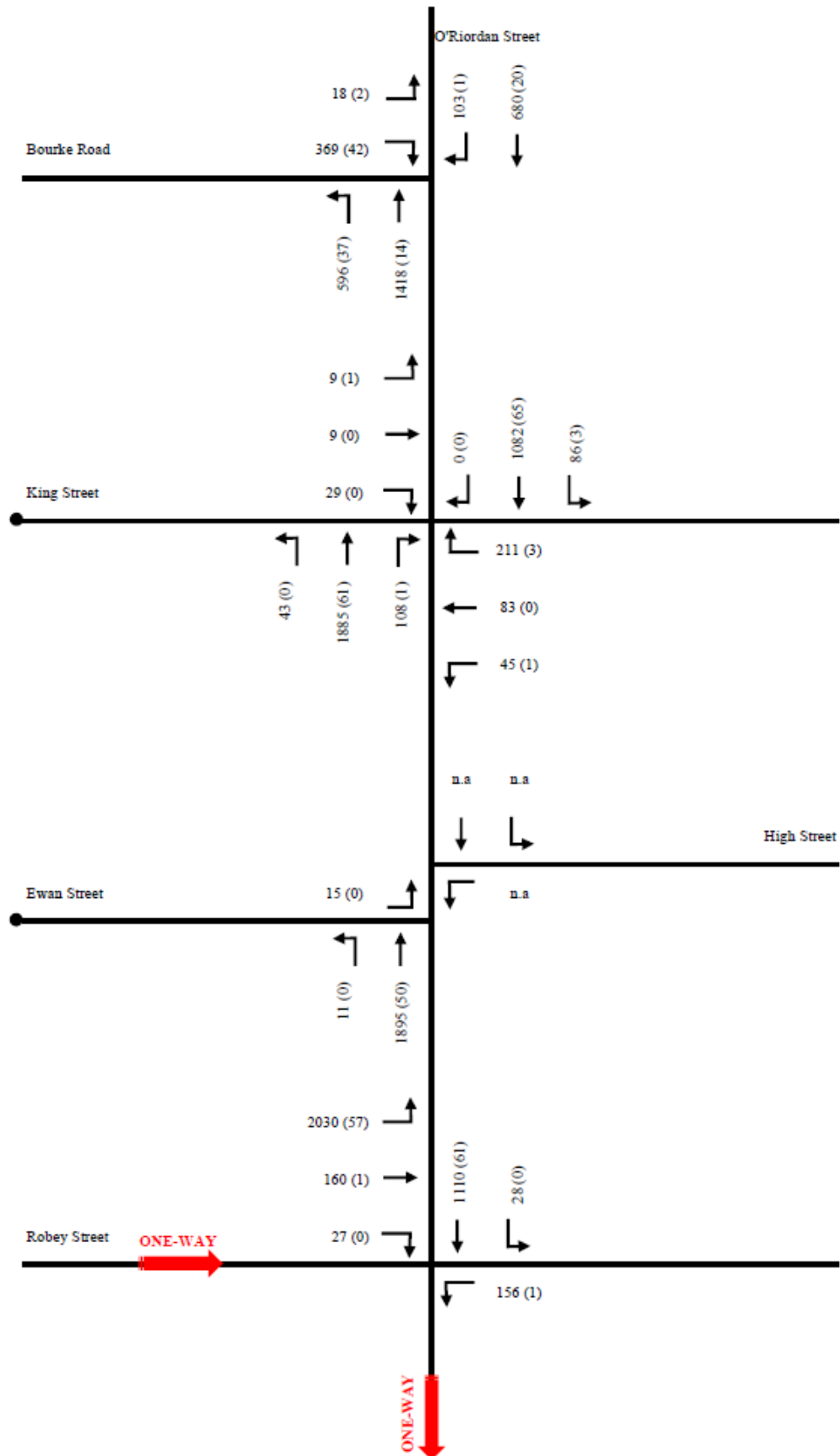
Existing Traffic Conditions

An indication of the existing traffic conditions on the road network in the vicinity of the site is provided by peak period traffic surveys undertaken as part of this traffic study.

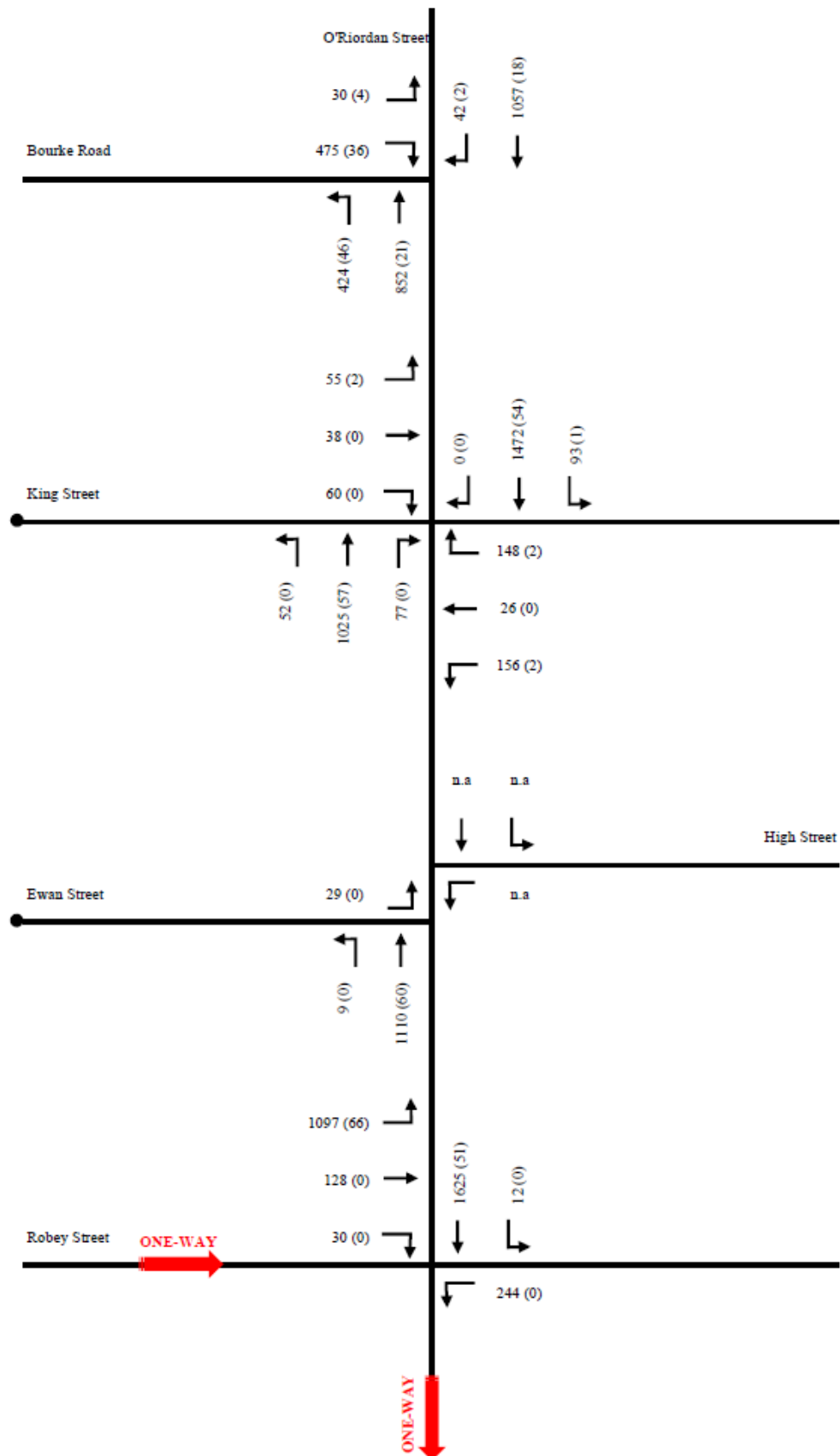
The traffic surveys were undertaken along O’Riordan Street where it intersects with Bourke Road, King Street, Ewan Street and Robey Street on Tuesday 23 October 2018 between 6:30am-9:30am and 3:30pm-6:30pm.

The results of the traffic surveys are summarised in the vehicle turning movement diagrams in the following pages and reproduced in full in Appendix A.

Existing AM Peak Hour Traffic Volumes 7:15am-8:15am



Existing PM Peak Hour Traffic Volumes 3:30pm-4:30pm



Projected Traffic Generation

The traffic implications of development proposals primarily concern the effects of the *additional* traffic flows generated as a result of the development proposal and its impact on the operational performance of the adjacent road network during the weekday morning and afternoon commuter peak periods.

An indication of the traffic generation potential of the planning proposal is provided by reference to the Roads and Maritime Services publication *Guide to Traffic Generating Developments, Section 3 - Landuse Traffic Generation (October 2002)* and the updated traffic generation rates in the recently published RMS *Technical Direction* (TDT 2013/04a) document.

The RMS *Technical Direction* document specifies that it replaces those sections of the RMS *Guidelines* indicated, and must be followed when RMS is undertaken trip generation and/or parking demand assessments.

The RMS *Guidelines* and *Technical Direction* are based on extensive surveys of a wide range of land uses and nominate the following traffic generation rates which are applicable to the residential and commercial component of the development proposal:

Restaurant / Café

AM: *does not generally coincide with the road network AM peak hour

PM: 5.0 peak hour vehicle trips per 100m² GFA

Commercial (Office Blocks)

AM: 1.6 peak hour vehicle trips per 100m² GFA

PM: 1.2 peak hour vehicle trips per 100m² GFA

Medical Centre

AM: 10.4 peak hour vehicle trips per 100m² GFA

PM: 8.8 peak hour vehicle trips per 100m² GFA

Neither the RMS *Guidelines* nor *Technical Direction* nominate a traffic generation rate for small local shops, hotels serviced apartments or specialist medical suites and the following traffic generation assumptions have therefore been made for the purposes of this assessment:

- **Retail:** the abovementioned traffic generation rate for *commercial premises* has been adopted for the purposes of this assessment in respect of the 3 small shops component
- **Hotel / Serviced Apartments:** a traffic generation rate of “0.4 peak hour vehicle trip per accommodation room” nominated in the *RMS Guidelines* for *motels* has been adopted for the purposes of this assessment
- **Restaurant and Café:** this component of the development proposal will be operated by the hotel for the use of hotel and serviced apartment guests only, and will not generate any additional traffic activity
- **Banquet Hall:** this component of the development will be operated by the hotel, and may be used by internal or external guests. Use of the hall is not expected to coincide with AM and PM peak hours, with peak usage expected to occur around lunchtime or later in the evenings, predominantly on weekends
- **Specialist Medical Suites:** these rooms or suites will be occupied by medical specialists. Patients will require a referral from their local GP and all visits will be *strictly by appointment only*. Each specialist room typically comprises approximately 40m² which will likely comprise a consultation room, storage/file room and a small reception area with provision for a support staff member. Medical specialists will typically have a room/suite in 2 or 3 different suburban locations, and may also undertake surgical procedures at a nearby hospital on 1 or 2 days per week. As such, each specialist medical room or suite is expected to be occupied on only 1 or 2 days per week
- **Commercial Car Parking:** this component of the development is primarily intended to cater for long-term parking for those travellers driving to the airport who are departing Sydney for days or weeks, and is therefore reasonable to expect any traffic generation potential associated with this use will be widely distributed and likely to be negligible during commuter AM and PM peak hours.

Application of the above traffic generation rates and assumptions to the various components of the planning proposal yields a traffic generation potential of approximately 446 vehicle trips per hour (vph) during the AM peak hour and 392 vph during the PM peak hour, as set out below:

Projected Future Traffic Generation Potential		
	AM	PM
Hotel (136 rooms):	54.4 vph	54.4 vph
Serviced Apartment (57 rooms):	22.8 vph	22.8 vph
Retail (1,263m ²):	20.2 vph	15.2 vph
Medical Centre (1,161m ²):	120.7 vph	102.2 vph
Medical Suites (4,278m ²):	106.2 vph	106.2 vph
Commercial Office (7,267m ²):	122.0 vph	91.5 vph
TOTAL TRAFFIC GENERATION POTENTIAL:	446.4 vph	392.2 vph

That projected future level of traffic generation potential should however, be offset or *discounted* by the volume of traffic which could reasonably be expected to be generated by the existing airport/car rental related uses of the site, in order to determine the *nett increase* in the traffic generation potential of the site as a consequence of the planning proposal.

However, for the purposes of this assessment, it has been assumed that *all* of the projected future traffic flows of 446 vph in the AM peak hour and 392 vph in PM peak hour, will be new or *additional* to the existing traffic flows currently using the adjacent road network.

Those additional traffic flows have been distributed to the surrounding road network based on the available *Journey to Work* data, existing surveyed traffic distribution as well as the likely travel routes of hotel guests, building occupants and customers. Accordingly, the projected additional traffic flows expected to be generated by the proposed development are illustrated on the traffic assignment diagrams in the following pages.

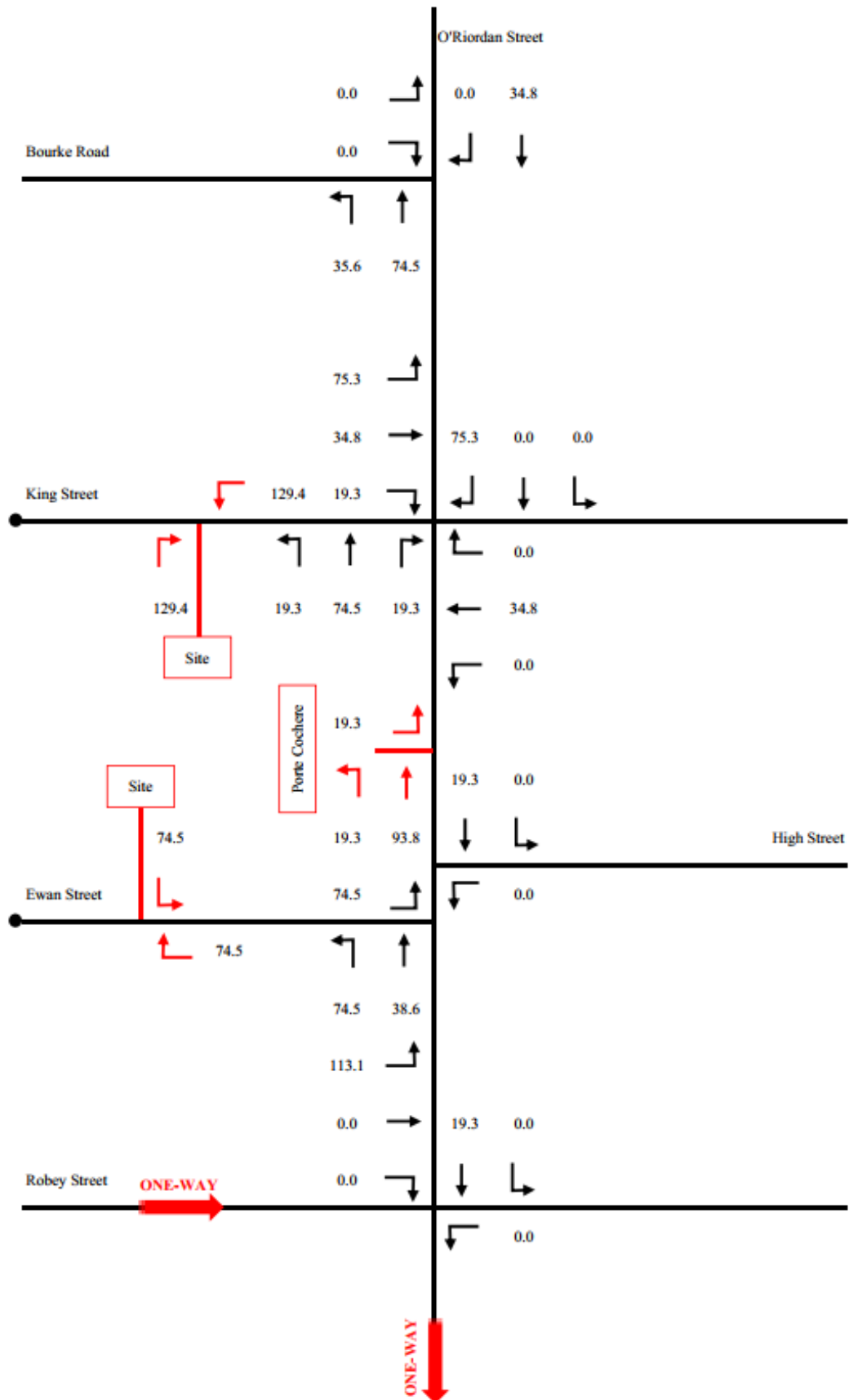
*Journey to Work data extracted from Australian Bureau of Statistics 2016 Census Data**– Where does the working population in Mascot Area (SA3-Botany) travel from:*

	Usual Residence	% Travel to SA3-Botany
1.	Kogarah - Rockdale	10.37%
2.	Botany	9.71%
3.	Eastern Suburbs - South	9.02%
4.	Cronulla - Miranda - Caringbah	6.17%
5.	Sydney Inner City	5.65%
6.	Hurstville	5.33%
7.	Sutherland - Menai - Heathcote	5.04%
8.	Canterbury	4.23%
9.	Bankstown	3.89%
10.	Strathfield - Burwood - Ashfield	3.01%
11.	Eastern Suburbs - North	2.69%
12.	Campbelltown (NSW)	2.57%
13.	Liverpool	2.28%
14.	Marrickville - Sydenham - Petersham	1.72%
15.	Wollongong	1.44%
16.	Parramatta	1.35%
17.	Warringah	1.31%
18.	Ryde - Hunters Hill	1.29%
19.	Canada Bay	1.27%
20.	Other	21.97%

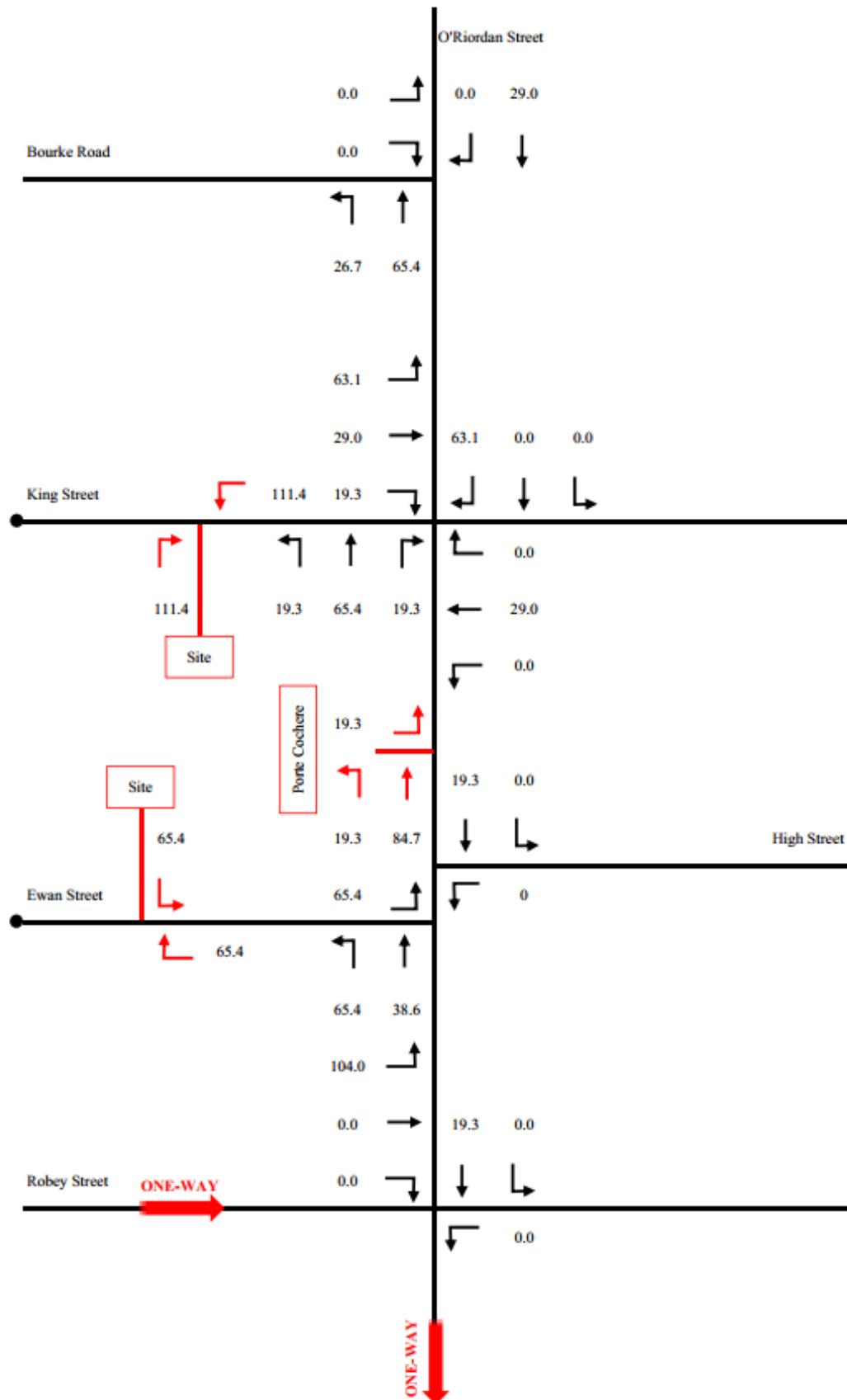
Journey to Work data extracted from Australian Bureau of Statistics 2016 Census Data
– Where does the population work in the Mascot Area (SA3-Botany)

	Usual Place of Work	% Travel out of SA3-Botany
1.	Place of Work (POW) not applicable	50.78%
2.	Sydney Inner City	15.97%
3.	Botany	12.33%
4.	Eastern Suburbs - South	6.22%
5.	Eastern Suburbs - North	2.79%
6.	POW No Fixed Address (NSW)	1.79%
7.	North Sydney - Mosman	1.24%
8.	Chatswood - Lane Cove	0.90%
9.	Marrickville - Sydenham - Petersham	0.79%
10.	Kogarah - Rockdale	0.69%
11.	Ryde - Hunters Hill	0.65%
12.	Strathfield - Burwood - Ashfield	0.57%
13.	Bankstown	0.47%
14.	Auburn	0.46%
15.	Parramatta	0.46%
16.	Liverpool	0.38%
17.	Leichhardt	0.33%
18.	Cronulla - Miranda - Caringbah	0.30%
19.	Canterbury	0.29%
20.	Other	2.50%

Projected Future AM Peak Hour Traffic Generation Potential



Projected Future PM Peak Hour Future Traffic Generation Potential



Traffic Implications – Road Network Capacity

The traffic implications of those *additional* traffic flows on the operational performance of the nearby road network has been assessed using the SIDRA INTERSECTION 8 program which is widely used by the RMS and many LGA's. Criteria for evaluating the results of SIDRA analysis are reproduced in the following pages.

It is pertinent to note all intersections has been modelled based on their final upgraded layout in accordance with the *Botany Bay Council Area, MR658 O'Riordan Street, Mascot, From Bourke Road (MR659) to Qantas Drive widening to six lanes concept design, Road Design (RMS ref no: SF2013/182838, RMS registration no: DS2013/002065)* drawings.

O'Riordan & Bourke Road Intersection

- the upgraded intersection will operate at *Level of Service "A"* under existing traffic demands during both the AM and PM peak hour with total average vehicle delays in the order of 6.7-7.5 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection is expected to continue to operate at *Level of Service "A"* during both the AM and PM peak hour, with increases in total average vehicle delays of *less than* 0.6 seconds/vehicle.

O'Riordan & Ewan Street Intersection

- the upgraded intersection will operate at *Level of Service "A"* under existing traffic demands during both the AM and PM peak hour with total average vehicle delays in the order of 0.1-0.2 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection is expected to continue to operate at *Level of Service "A"* during both the AM and PM peak hour, with increases in total average vehicle delays of *less than* 0.6 seconds/vehicle.

O’Riordan & King Street Intersection

- the upgraded intersection will operate at *Level of Service “B”* or better under existing traffic demands during both the AM and PM peak hour with total average vehicle delays in the order of 13.0-16.7 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection is expected to operate at *Level of Service “B”* during both the AM and PM peak hour with increases in total average vehicle delays of in the order of 3.4-11.2 seconds/vehicle.

O’Riordan & Robey Street Intersection

- the upgraded intersection will operate at *Level of Service “A”* under existing traffic demands during both the AM and PM peak hour with total average vehicle delays in the order of 7.8-8.7 seconds/vehicle
- under the projected future traffic demands expected to be generated by the development proposal, the intersection is expected to continue to operate at *Level of Service “A”* during both the AM and PM peak hour, with increases in total average vehicle delays of *less than* 0.6p seconds/vehicle.

SIDRA Modelling Results

Intersection	Key Indicators	<u>Existing</u>		<u>Projected</u>	
		AM	PM	AM	PM
O’Riordan / Bourke Road	LoS	A	A	A	A
	DoS	0.604	0.462	0.627	0.474
	Avg. Delay	7.5	6.7	7.5	7.3
O’Riordan / Ewan Street	LoS	A	A	A	A
	DoS	0.340	0.208	0.558	0.229
	Avg. Delay	0.1	0.2	0.6	0.8
O’Riordan / King Street	LoS	A	B	B	B
	DoS	0.730	0.723	0.922	0.685
	Avg. Delay	13.0	16.7	24.2	20.1
O’Riordan / Robey Street	LoS	A	A	A	A
	DoS	0.467	0.401	0.485	0.400
	Avg. Delay	7.8	8.7	7.8	9.3

LoS = Levels of Service

DoS = Degree of Saturation

Delay = Total average vehicle delay (seconds per vehicle)

In summary, the SIDRA capacity analysis demonstrates that all key intersects in the vicinity of the site will continue to operate satisfactorily at Levels of Service C or better, and that no road improvements or intersection upgrades are required as a consequence of the development proposal.

The detailed SIDRA *movements summaries* are reproduced in full in Appendix B.

Criteria for Interpreting Results of Sidra Analysis

1. Level of Service (LOS)

LOS	Traffic Signals and Roundabouts	Give Way and Stop Signs
'A'	Good operation.	Good operation.
'B'	Good with acceptable delays and spare capacity.	Acceptable delays and spare capacity.
'C'	Satisfactory.	Satisfactory but accident study required.
'D'	Operating near capacity.	Near capacity and accident study required.
'E'	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode.	At capacity and requires other control mode.
'F'	Unsatisfactory and requires additional capacity.	Unsatisfactory and requires other control mode.

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

Level of Service	Average Delay per Vehicle (secs/veh)	Traffic Signals, Roundabout	Give Way and Stop Signs
A	less than 14	Good operation.	Good operation.
B	15 to 28	Good with acceptable delays and spare capacity.	Acceptable delays and spare capacity.
C	29 to 42	Satisfactory.	Satisfactory but accident study required.
D	43 to 56	Operating near capacity.	Near capacity and accident study required.
E	57 to 70	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode.	At capacity and requires other control mode.

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by traffic signals both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated.

For intersections controlled by a roundabout or GIVE WAY or STOP signs, satisfactory intersection operation is indicated by a DS of 0.8 or less.

4. PARKING IMPLICATIONS

Existing Kerbside Parking Restrictions

The existing kerbside parking restrictions which apply to the road network in the vicinity of the site are illustrated on Figure 6. Key features of those parking restrictions are:

- 4 HOUR PARKING on the southern side of King Street
- Generally UNRESTRICTED PARKING on the northern side of King Street past Travelodge
- 2 HOUR PARKING towards the western end of Ewan Street on the northern side of the road, and generally NO PARKING elsewhere
- BUS ZONES at regular intervals on O’Riordan Street.

Off-Street Car Parking Provisions

The off-street parking requirements applicable to the development proposal are specified in the *Botany Bay Development Control Plan 2013 (Amendment 8), Part 3A - Car Parking* document in the following terms:

Hotel Accommodation

1 space for manager; plus

1 space / 2 employees; plus

1 space / 1.5 rooms; plus

1 taxi pick-up and set-down space / 100 rooms; plus

2 coach pick-up and set-down spaces; and

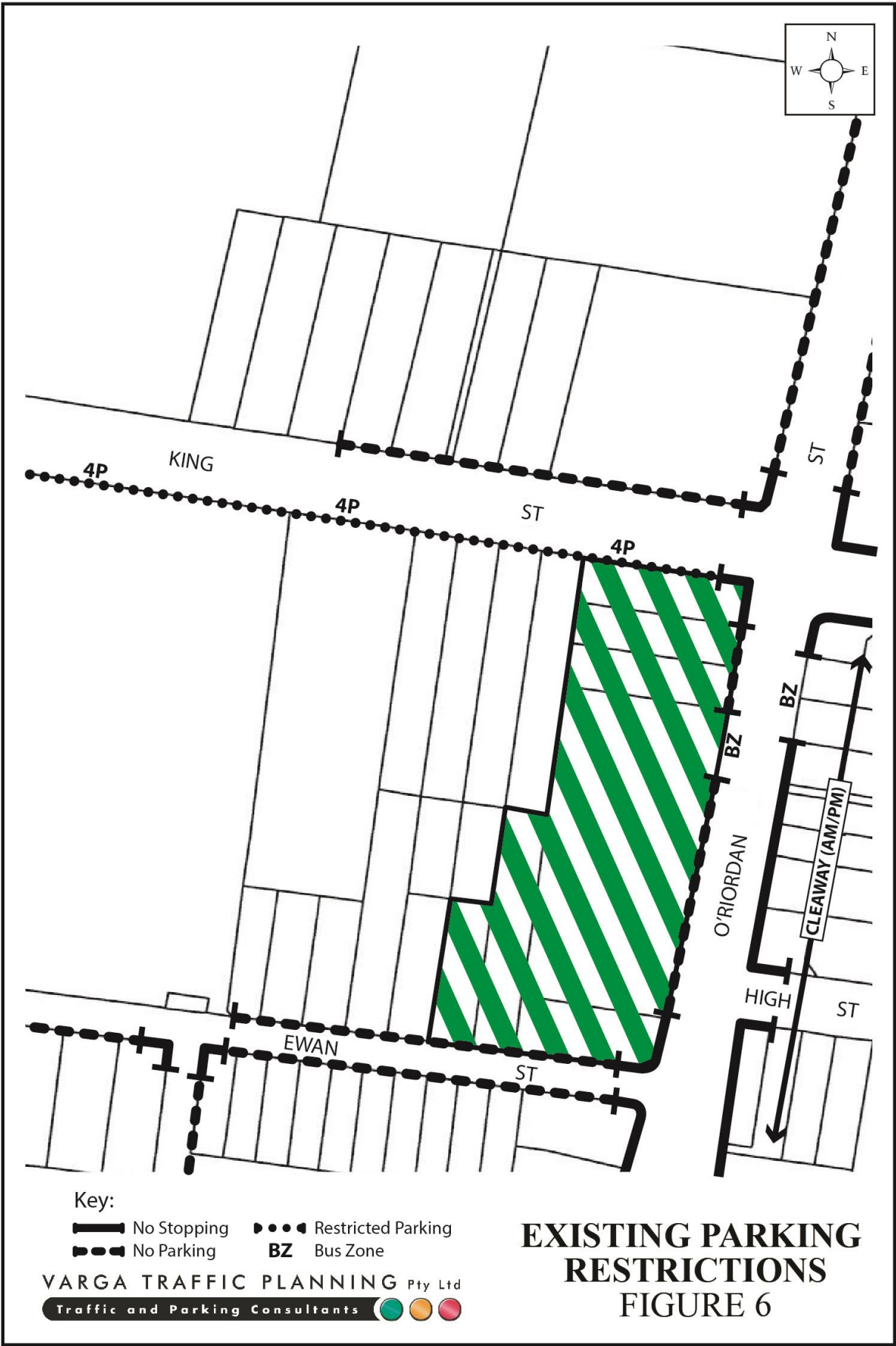
Additional parking must be provided for other licensed parts of the use as stipulated in this section of the DCP

Serviced Apartments

1 space / 1.5 unit; plus

1 space / 2 employees; plus

1 taxi pick-up and set-down space / 300 rooms



(Note: If the development is within 400m from Mascot Train Station or an efficient shuttle bus service is provided between the hotel, Sydney Airport and the City, the parking requirements could be reduced to 1 per 2.5 units)

Function Centres

1 space per 2 employees, plus

1 space per 10 seats

Office Premises

1 space / 40m² GFA

Shops

1 space / 25m² GFA

Health Consulting Rooms / Medical Centres

3 spaces / each surgery, consulting room or treatment room

(Note: minimum 1 accessible parking spaces for people with disabilities shall be provided)

Application of the above parking requirements to the various components of the concept plan which has been prepared for the purposes of this planning proposal yields an off-street car parking requirement of 604 spaces as set out in the table below.

The *concept plans* which have been prepared for the purposes of this planning proposal envisage the provision of car parking for approximately 981 cars in a multi-level car parking area. Car parking will ultimately be provided in accordance with Council's DCP requirements, with the surplus car parking to be used as commercial paid parking for long-term airport parking needs.

A drive-through porte-cochere is also proposed fronting O'Riordan Street for the hotel and serviced apartments with 3 taxi bays to facilitate set-down / pick-up of hotel / serviced apartment guests.

The porte-cochere will be designed to accommodate large buses up to and including 12.5m long single rigid buses. All arrivals / departures will be scheduled with the hotel manager and are not to remain on site for more than 5 minutes.

Projected DCP Off-Street Parking Requirements

Hotel (136 rooms, 10 staff plus manager):	97 spaces
Taxi:	2 spaces
Serviced Apartments (57 rooms, 10 staff):	43 spaces
Taxi:	1 space
Banquet Hall (200 seats, 10 staff):	25 spaces
Office Premises (7,627m ²):	191 spaces
Retail Premises (1,263m ²)	51 spaces
Medical Centres (1,161m ²):	87 spaces
Medical Suites (4,278m ²):	107 spaces
TOTAL:	604 spaces

The *concept plans* which have been prepared for the purposes of the planning proposal envisages the provision of approximately 981 cars on the site. Car parking is to be provided in accordance with Council's *DCP* requirements, with the surplus car parking to be used on a commercial basis as pay parking for long-term airport parking needs.

The *concept plans* also propose a drive-through porte-cochere fronting O'Riordan Street for the use of the hotel and serviced apartments only. A total of 3 taxi bays are proposed in the porte-cochere to facilitate drop-off/pick-up of hotel and serviced apartment guests, in accordance with Council's *DCP* requirements.

The porte-cochere will be designed to accommodate large buses up to and including 12.5m long tourist coaches. As noted in the foregoing, there will *not* be any vehicular link between the porte-cochere and the proposed car parking facilities. The porte-cochere will be operated and supervised by hotel staff who will ensure that the porte-cochere is used strictly for its intended purpose – i.e. drop-offs and pick-ups only.

Loading / Servicing Provisions

The future mixed-use building is envisaged to be serviced by a variety of commercial vehicles up to and including 12.5m long Heavy Rigid Vehicles (HRV trucks).

Two separate loading areas are shown on the *concept plans* to service each respective building. The manoeuvring areas will ultimately be designed to accommodate the swept turning path requirements of these HRV trucks as well as relevant Australian Standards, allowing them to enter and exit the site whilst travelling in forward gear at all times.

Conclusion

In summary, the proposed parking and loading facilities satisfy the relevant requirements specified in both Council's DCP as well as the Australian Standards and it is therefore concluded that the proposed development will not have any unacceptable parking or loading implications.

APPENDIX A

TRAFFIC SURVEY DATA



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PEDS	NORTH	WEST	SOUTH	
Time Per	O'Riordan St	Bourke Rd	O'Riordan St	TOT
0630 - 0645	11	1	0	12
0645 - 0700	21	8	0	29
0700 - 0715	16	4	0	20
0715 - 0730	24	2	0	26
0730 - 0745	29	5	0	34
0745 - 0800	30	5	0	35
0800 - 0815	18	15	0	33
0815 - 0830	28	15	0	43
0830 - 0845	28	16	0	44
0845 - 0900	25	10	0	35
0900 - 0915	19	4	0	23
0915 - 0930	16	10	0	26
Per End	265	95	0	360

PEDS	NORTH	WEST	SOUTH	
Peak Per	O'Riordan St	Bourke Rd	O'Riordan St	TOT
0630 - 0730	72	15	0	87
0645 - 0745	90	19	0	109
0700 - 0800	99	16	0	115
0715 - 0815	101	27	0	128
0730 - 0830	105	40	0	145
0745 - 0845	104	51	0	155
0800 - 0900	99	56	0	155
0815 - 0915	100	45	0	145
0830 - 0930	88	40	0	128

PEAK HR	105	40	0	145
---------	-----	----	---	-----

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	T	R	L	R	L	T	TOT
0630 - 0645	147	8	3	82	121	339	700
0645 - 0700	137	9	2	75	122	354	699
0700 - 0715	153	14	9	117	143	337	773
0715 - 0730	150	13	5	74	146	360	748
0730 - 0745	182	30	2	86	138	375	813
0745 - 0800	167	31	4	95	163	395	855
0800 - 0815	181	29	7	114	149	288	768
0815 - 0830	175	36	3	109	136	291	750
0830 - 0845	183	39	8	88	157	292	767
0845 - 0900	184	21	11	92	114	308	730
0900 - 0915	180	22	7	114	128	343	794
0915 - 0930	204	19	2	98	160	346	829
Per End	2043	271	63	1144	1677	4028	9226

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	T	R	L	R	L	T	TOT
0630 - 0645	4	0	1	14	14	4	37
0645 - 0700	1	0	0	9	10	4	24
0700 - 0715	2	0	1	8	11	8	30
0715 - 0730	3	0	1	10	9	3	26
0730 - 0745	6	1	0	11	9	2	29
0745 - 0800	5	0	1	10	7	5	28
0800 - 0815	6	0	0	11	12	4	33
0815 - 0830	5	0	1	7	14	2	29
0830 - 0845	4	1	0	7	12	2	26
0845 - 0900	5	0	0	13	15	2	35
0900 - 0915	5	0	0	13	15	4	37
0915 - 0930	5	0	2	9	14	4	34
Per End	51	2	7	122	142	44	368

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	T	R	L	R	L	T	TOT
0630 - 0645	151	8	4	96	135	343	737
0645 - 0700	138	9	2	84	132	358	723
0700 - 0715	155	14	10	125	154	345	803
0715 - 0730	153	13	6	84	155	363	774
0730 - 0745	188	31	2	97	147	377	842
0745 - 0800	172	31	5	105	170	400	883
0800 - 0815	187	29	7	125	161	292	801
0815 - 0830	180	36	4	116	150	293	779
0830 - 0845	187	40	8	95	169	294	793
0845 - 0900	189	21	11	105	129	310	765
0900 - 0915	185	22	7	127	143	347	831
0915 - 0930	209	19	4	107	174	350	863
Per End	2094	273	70	1266	1819	4072	9594

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	T	R	L	R	L	T	TOT
0630 - 0730	587	44	19	348	532	1390	2920
0645 - 0745	622	66	18	352	549	1426	3033
0700 - 0800	652	88	20	372	590	1467	3189
0715 - 0815	680	103	18	369	596	1418	3184
0730 - 0830	705	126	16	404	586	1349	3186
0745 - 0845	706	135	22	406	605	1266	3140
0800 - 0900	723	125	29	403	556	1179	3015
0815 - 0915	722	118	29	403	535	1234	3041
0830 - 0930	751	101	28	392	559	1289	3120

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	T	R	L	R	L	T	TOT
0630 - 0730	10	0	3	41	44	19	117
0645 - 0745	12	1	2	38	39	17	109
0700 - 0800	16	1	3	39	36	18	113
0715 - 0815	20	1	2	42	37	14	116
0730 - 0830	22	1	2	39	42	13	119
0745 - 0845	20	1	2	35	45	13	116
0800 - 0900	20	1	1	38	53	10	123
0815 - 0915	19	1	1	40	56	10	127
0830 - 0930	19	1	2	42	56	12	132

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	T	R	L	R	L	T	TOT
0630 - 0730	597	44	22	389	576	1409	3037
0645 - 0745	634	67	20	390	588	1443	3142
0700 - 0800	668	89	23	411	626	1485	3302
0715 - 0815	700	104	20	411	633	1432	3300
0730 - 0830	727	127	18	443	628	1362	3305
0745 - 0845	726	136	24	441	650	1279	3256
0800 - 0900	743	126	30	441	609	1189	3138
0815 - 0915	741	119	30	443	591	1244	3168
0830 - 0930	770	102	30	434	615	1301	3252

PEAK HR	705	126	16	404	586	1349	3186
---------	-----	-----	----	-----	-----	------	------

PEAK HR	22	1	2	39	42	13	119
---------	----	---	---	----	----	----	-----

PEAK HR	727	127	18	443	628	1362	3305
---------	-----	-----	----	-----	-----	------	------



R.O.A.R. DATA

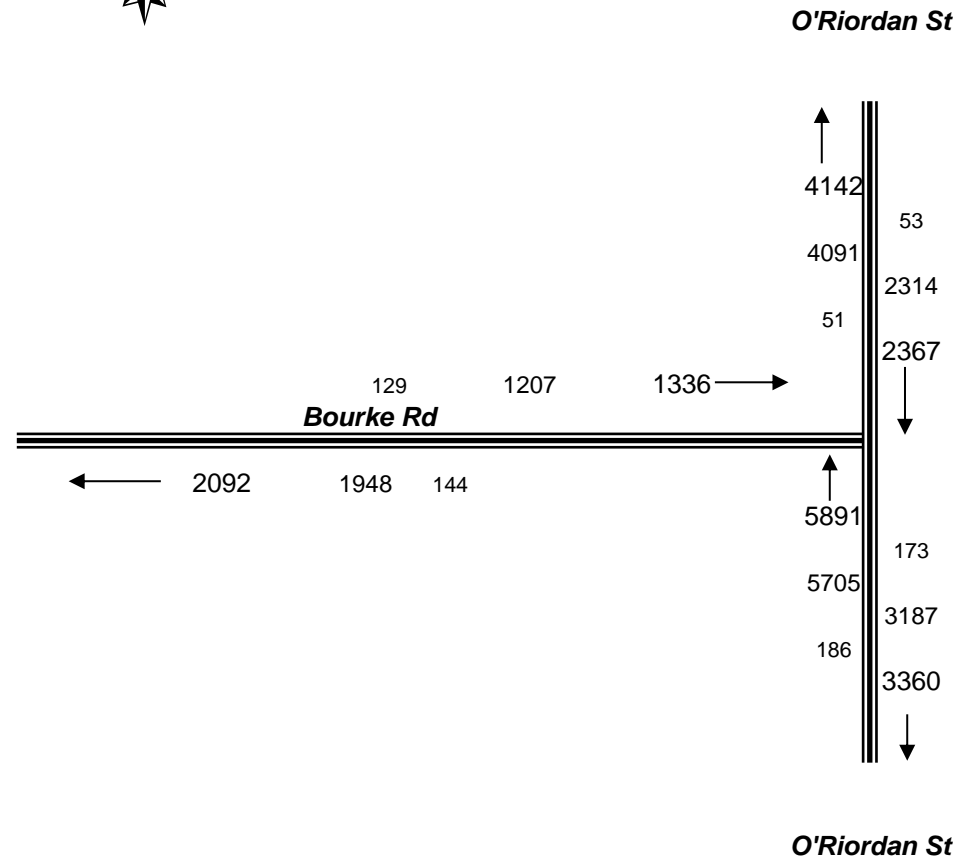
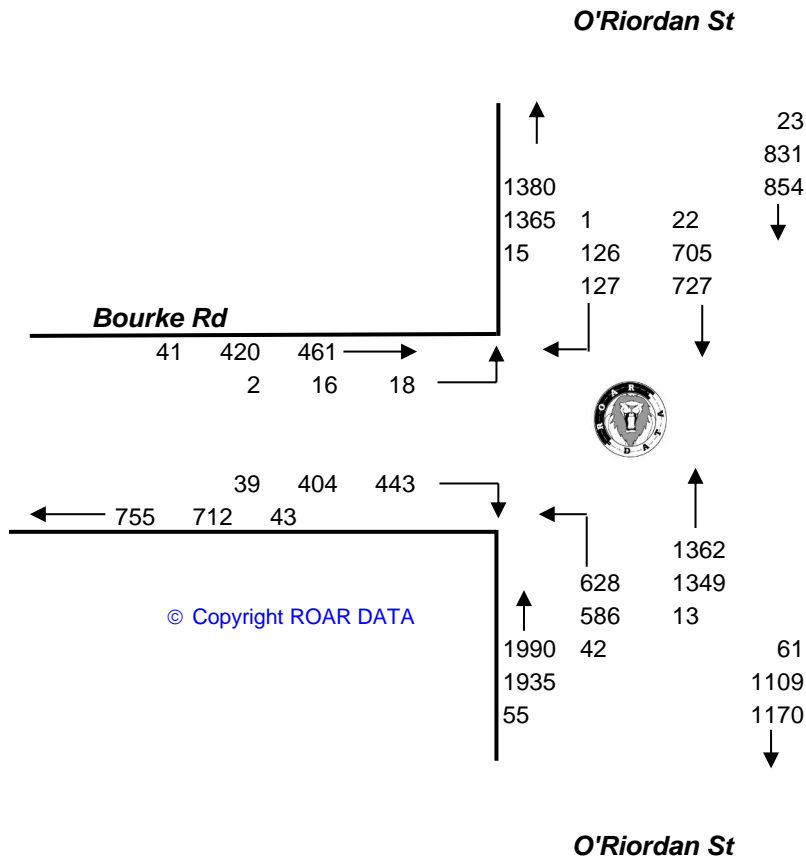
Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

AM PEAK
0730 - 0830

**TOTAL VOLUMES
FOR COUNT
PERIOD**





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PEDS	NORTH	WEST	SOUTH	
Time Per	O'Riordan St	Bourke Rd	O'Riordan St	TOT
1530 - 1545	26	6	0	32
1545 - 1600	23	2	0	25
1600 - 1615	26	7	0	33
1615 - 1630	15	11	0	26
1630 - 1645	23	4	0	27
1645 - 1700	27	3	0	30
1700 - 1715	38	8	0	46
1715 - 1730	20	9	0	29
1730 - 1745	27	5	0	32
1745 - 1800	23	13	0	36
1800 - 1815	29	12	0	41
1815 - 1830	21	13	0	34
Per End	298	93	0	391

PEDS	NORTH	WEST	SOUTH	
Peak Per	O'Riordan St	Bourke Rd	O'Riordan St	TOT
1530 - 1630	90	26	0	116
1545 - 1645	87	24	0	111
1600 - 1700	91	25	0	116
1615 - 1715	103	26	0	129
1630 - 1730	108	24	0	132
1645 - 1745	112	25	0	137
1700 - 1800	108	35	0	143
1715 - 1815	99	39	0	138
1730 - 1830	100	43	0	143

PEAK HR	90	26	0	116
---------	----	----	---	-----

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	L	R	L	R	L	R	TOT
1530 - 1545	281	12	9	112	107	221	742
1545 - 1600	251	14	7	109	108	205	694
1600 - 1615	266	10	9	137	114	201	737
1615 - 1630	259	6	5	117	95	225	707
1630 - 1645	233	5	14	140	88	212	692
1645 - 1700	243	9	11	110	100	221	694
1700 - 1715	237	10	5	145	108	239	744
1715 - 1730	180	12	13	171	95	233	704
1730 - 1745	206	9	6	147	101	236	705
1745 - 1800	268	8	8	149	101	206	740
1800 - 1815	213	8	8	110	81	227	647
1815 - 1830	220	9	8	119	90	195	641
Per End	2857	112	103	1566	1188	2621	8447

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	L	R	L	R	L	R	TOT
1530 - 1545	6	0	1	12	15	4	38
1545 - 1600	2	2	2	10	9	4	29
1600 - 1615	6	0	0	5	9	10	30
1615 - 1630	4	0	1	9	13	3	30
1630 - 1645	7	0	0	11	10	5	33
1645 - 1700	3	0	1	8	13	7	32
1700 - 1715	1	0	0	5	13	5	24
1715 - 1730	2	0	1	7	9	2	21
1730 - 1745	3	0	0	9	9	6	27
1745 - 1800	5	0	0	8	4	2	19
1800 - 1815	2	0	3	9	6	3	23
1815 - 1830	4	0	0	5	9	4	22
Per End	45	2	9	98	119	55	328

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Time Per	L	R	L	R	L	R	TOT
1530 - 1545	287	12	10	124	122	225	780
1545 - 1600	253	16	9	119	117	209	723
1600 - 1615	272	10	9	142	123	211	767
1615 - 1630	263	6	6	126	108	228	737
1630 - 1645	240	5	14	151	98	217	725
1645 - 1700	246	9	12	118	113	228	726
1700 - 1715	238	10	5	150	121	244	768
1715 - 1730	182	12	14	178	104	235	725
1730 - 1745	209	9	6	156	110	242	732
1745 - 1800	273	8	8	157	105	208	759
1800 - 1815	215	8	11	119	87	230	670
1815 - 1830	224	9	8	124	99	199	663
Per End	2902	114	112	1664	1307	2676	8775

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	L	R	L	R	L	R	TOT
1530 - 1630	1057	42	30	475	424	852	2880
1545 - 1645	1009	35	35	503	405	843	2830
1600 - 1700	1001	30	39	504	397	859	2830
1615 - 1715	972	30	35	512	391	897	2837
1630 - 1730	893	36	43	566	391	905	2834
1645 - 1745	866	40	35	573	404	929	2847
1700 - 1800	891	39	32	612	405	914	2893
1715 - 1815	867	37	35	577	378	902	2796
1730 - 1830	907	34	30	525	373	864	2733

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	L	R	L	R	L	R	TOT
1530 - 1630	18	2	4	36	46	21	127
1545 - 1645	19	2	3	35	41	22	122
1600 - 1700	20	0	2	33	45	25	125
1615 - 1715	15	0	2	33	49	20	119
1630 - 1730	13	0	2	31	45	19	110
1645 - 1745	9	0	2	29	44	20	104
1700 - 1800	11	0	1	29	35	15	91
1715 - 1815	12	0	4	33	28	13	90
1730 - 1830	14	0	3	31	28	15	91

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Bourke Rd		O'Riordan St		
Peak Per	L	R	L	R	L	R	TOT
1530 - 1630	1075	44	34	511	470	873	3007
1545 - 1645	1028	37	38	538	446	865	2952
1600 - 1700	1021	30	41	537	442	884	2955
1615 - 1715	987	30	37	545	440	917	2956
1630 - 1730	906	36	45	597	436	924	2944
1645 - 1745	875	40	37	602	448	949	2951
1700 - 1800	902	39	33	641	440	929	2984
1715 - 1815	879	37	39	610	406	915	2886
1730 - 1830	921	34	33	556	401	879	2824

PEAK HR	1057	42	30	475	424	852	2880
---------	------	----	----	-----	-----	-----	------

PEAK HR	18	2	4	36	46	21	127
---------	----	---	---	----	----	----	-----

PEAK HR	1075	44	34	511	470	873	3007
---------	------	----	----	-----	-----	-----	------



R.O.A.R. DATA

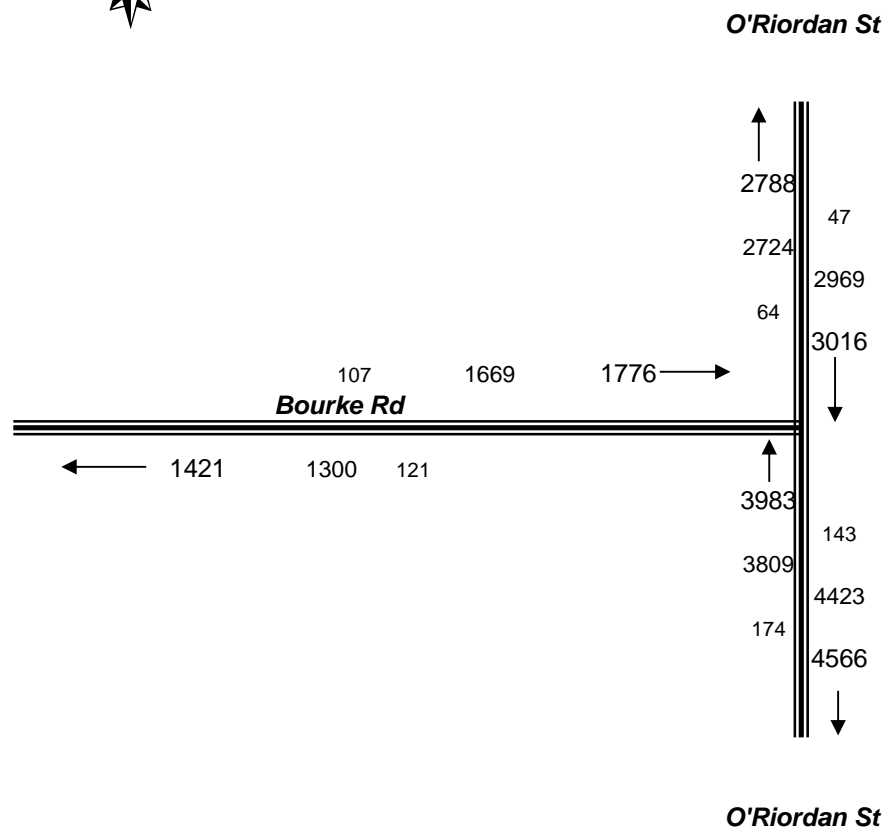
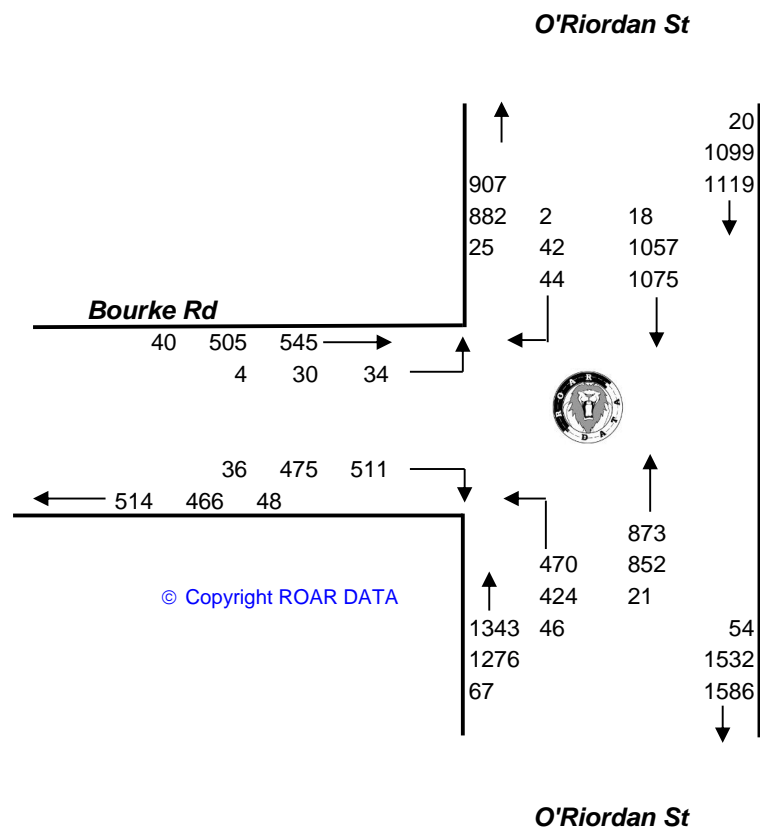
Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PM PEAK
1530 - 1630

**TOTAL VOLUMES
FOR COUNT
PERIOD**





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Intersection Details

Obtained via satellite

May be incorrect

AM PEAK HOUR
0730 - 0830



O'Riordan St

Bourke Rd

R	T	
127	727	AM
44	1075	PM

	L	
18	34	
AM		PM
443	511	R

PM	L	T
470	873	
628	1362	
AM		

PM PEAK HOUR
1530 - 1630

Combined figures only

Weather >>>



O'Riordan St



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PEDS	NORTH	WEST	SOUTH	
Time Per	O'Riordan St	Ewan St	O'Riordan St	TOT
0630 - 0645	0	29	0	29
0645 - 0700	2	45	0	47
0700 - 0715	1	23	1	25
0715 - 0730	0	15	0	15
0730 - 0745	0	50	0	50
0745 - 0800	1	45	0	46
0800 - 0815	1	64	0	65
0815 - 0830	1	53	1	55
0830 - 0845	0	58	0	58
0845 - 0900	0	57	0	57
0900 - 0915	1	39	0	40
0915 - 0930	0	32	0	32
Per End	7	510	2	519

PEDS	NORTH	WEST	SOUTH	
Peak Per	O'Riordan St	Ewan St	O'Riordan St	TOT
0630 - 0730	3	112	1	116
0645 - 0745	3	133	1	137
0700 - 0800	2	133	1	136
0715 - 0815	2	174	0	176
0730 - 0830	3	212	1	216
0745 - 0845	3	220	1	224
0800 - 0900	2	232	1	235
0815 - 0915	2	207	1	210
0830 - 0930	1	186	0	187

PEAK HR	2	133	1	136
---------	---	-----	---	-----

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Time Per	I	R	L	R	L	I	TOT
0630 - 0645			4		1	463	468
0645 - 0700			2		3	436	441
0700 - 0715			7		1	529	537
0715 - 0730			4		3	490	497
0730 - 0745			3		4	448	455
0745 - 0800			5		2	475	482
0800 - 0815			3		2	482	487
0815 - 0830			3		1	485	489
0830 - 0845			11		3	435	449
0845 - 0900			3		3	400	406
0900 - 0915			1		3	454	458
0915 - 0930			3		1	450	454
Per End	0	0	49	0	27	5547	5623

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Time Per	I	R	L	R	L	I	TOT
0630 - 0645			0		0	20	20
0645 - 0700			0		0	14	14
0700 - 0715			0		0	17	17
0715 - 0730			0		0	13	13
0730 - 0745			0		0	13	13
0745 - 0800			0		0	8	8
0800 - 0815			0		0	16	16
0815 - 0830			0		0	12	12
0830 - 0845			0		0	15	15
0845 - 0900			0		0	16	16
0900 - 0915			0		0	19	19
0915 - 0930			0		0	15	15
Per End	0	0	0	0	0	178	178

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Time Per	I	R	L	R	L	I	TOT
0630 - 0645	0	0	4	0	1	483	488
0645 - 0700	0	0	2	0	3	450	455
0700 - 0715	0	0	7	0	1	546	554
0715 - 0730	0	0	4	0	3	503	510
0730 - 0745	0	0	3	0	4	461	468
0745 - 0800	0	0	5	0	2	483	490
0800 - 0815	0	0	3	0	2	498	503
0815 - 0830	0	0	3	0	1	497	501
0830 - 0845	0	0	11	0	3	450	464
0845 - 0900	0	0	3	0	3	416	422
0900 - 0915	0	0	1	0	3	473	477
0915 - 0930	0	0	3	0	1	465	469
Per End	0	0	49	0	27	5725	5801

Lights	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Peak Per	I	R	L	R	L	I	TOT
0630 - 0730	0	0	17	0	8	1918	1943
0645 - 0745	0	0	16	0	11	1903	1930
0700 - 0800	0	0	19	0	10	1942	1971
0715 - 0815	0	0	15	0	11	1895	1921
0730 - 0830	0	0	14	0	9	1890	1913
0745 - 0845	0	0	22	0	8	1877	1907
0800 - 0900	0	0	20	0	9	1802	1831
0815 - 0915	0	0	18	0	10	1774	1802
0830 - 0930	0	0	18	0	10	1739	1767

Heavies	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Peak Per	I	R	L	R	L	I	TOT
0630 - 0730	0	0	0	0	0	64	64
0645 - 0745	0	0	0	0	0	57	57
0700 - 0800	0	0	0	0	0	51	51
0715 - 0815	0	0	0	0	0	50	50
0730 - 0830	0	0	0	0	0	49	49
0745 - 0845	0	0	0	0	0	51	51
0800 - 0900	0	0	0	0	0	59	59
0815 - 0915	0	0	0	0	0	62	62
0830 - 0930	0	0	0	0	0	65	65

Combined	NORTH		WEST		SOUTH		
	O'Riordan St		Ewan St		O'Riordan St		
Peak Per	I	R	L	R	L	I	TOT
0630 - 0730	0	0	17	0	8	1982	2007
0645 - 0745	0	0	16	0	11	1960	1987
0700 - 0800	0	0	19	0	10	1993	2022
0715 - 0815	0	0	15	0	11	1945	1971
0730 - 0830	0	0	14	0	9	1939	1962
0745 - 0845	0	0	22	0	8	1928	1958
0800 - 0900	0	0	20	0	9	1861	1890
0815 - 0915	0	0	18	0	10	1836	1864
0830 - 0930	0	0	18	0	10	1804	1832

PEAK HR	0	0	19	0	10	1942	1971
---------	---	---	----	---	----	------	------

PEAK HR	0	0	0	0	0	51	51
---------	---	---	---	---	---	----	----

PEAK HR	0	0	19	0	10	1993	2022
---------	---	---	----	---	----	------	------



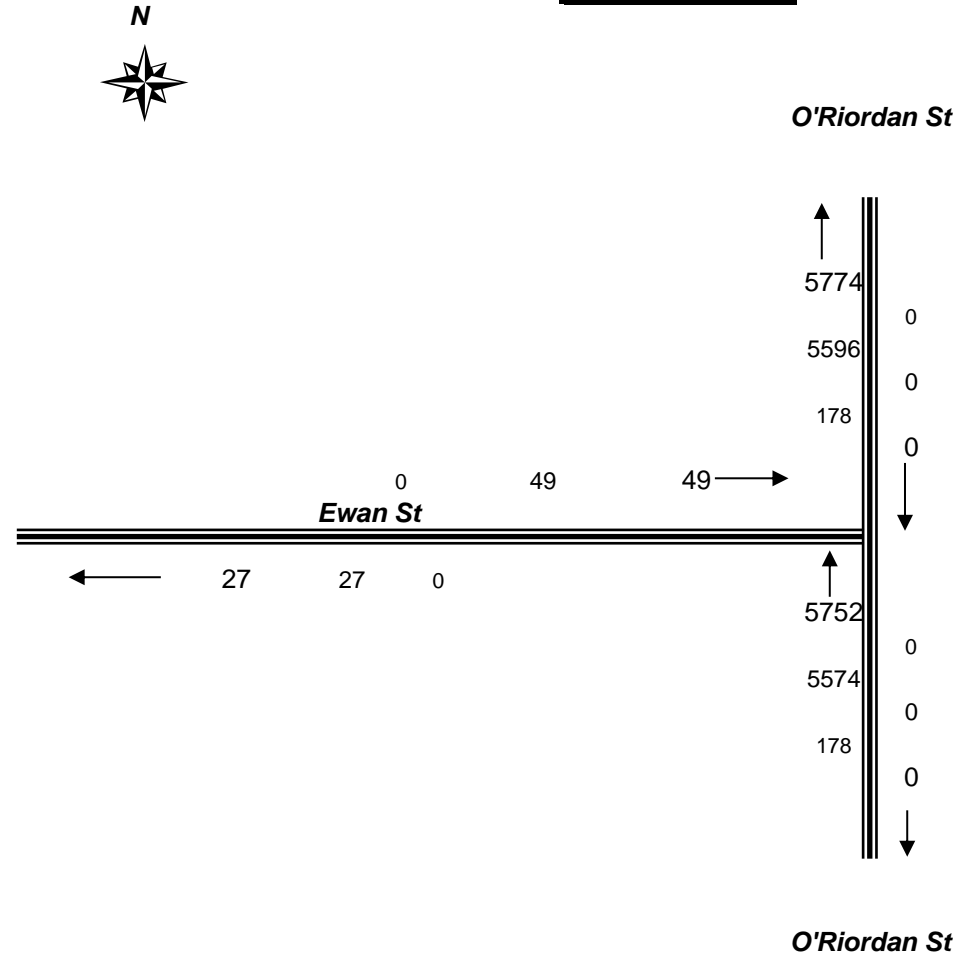
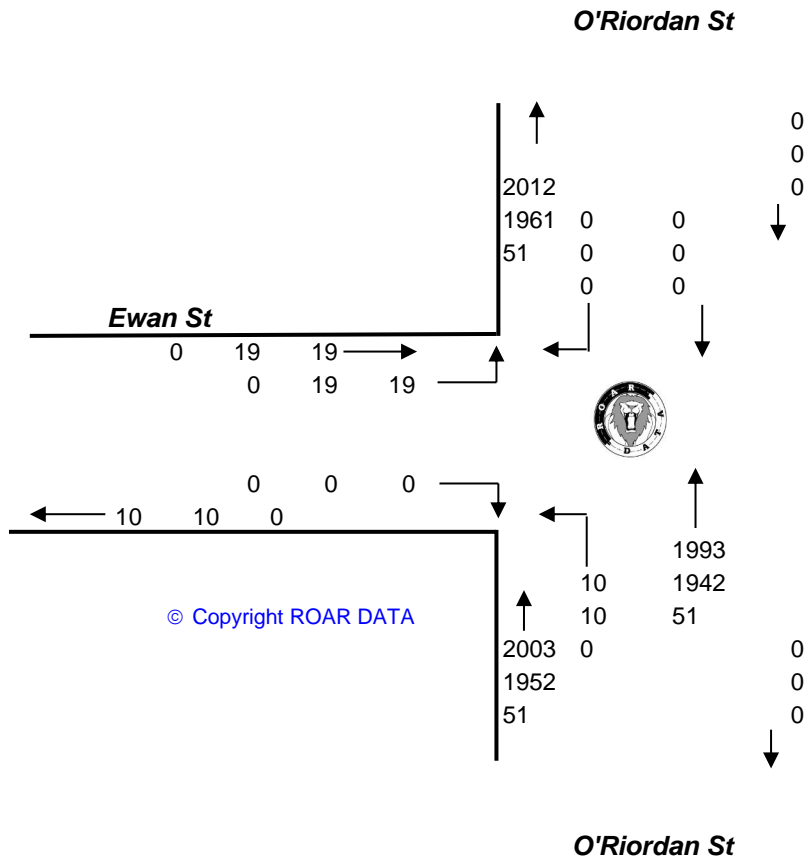
R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

AM PEAK
0700 - 0800





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PEDS	NORTH	WEST	SOUTH	
Time Per	O'Riordan St	Ewan St	O'Riordan St	TOT
1530 - 1545	0	38	0	38
1545 - 1600	2	18	0	20
1600 - 1615	0	46	0	46
1615 - 1630	0	35	0	35
1630 - 1645	0	37	0	37
1645 - 1700	0	36	0	36
1700 - 1715	3	73	1	77
1715 - 1730	0	57	0	57
1730 - 1745	0	54	0	54
1745 - 1800	2	42	0	44
1800 - 1815	0	34	0	34
1815 - 1830	2	41	0	43
Per End	9	511	1	521

PEDS	NORTH	WEST	SOUTH	
Peak Per	O'Riordan St	Ewan St	O'Riordan St	TOT
1530 - 1630	2	137	0	139
1545 - 1645	2	136	0	138
1600 - 1700	0	154	0	154
1615 - 1715	3	181	1	185
1630 - 1730	3	203	1	207
1645 - 1745	3	220	1	224
1700 - 1800	5	226	1	232
1715 - 1815	2	187	0	189
1730 - 1830	4	171	0	175

PEAK HR	2	137	0	139
---------	---	-----	---	-----

Lights	NORTH		WEST		SOUTH		
Time Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1545			5		1	270	276
1545 - 1600			4		3	289	296
1600 - 1615			11		0	280	291
1615 - 1630			9		5	271	285
1630 - 1645			5		1	258	264
1645 - 1700			12		2	260	274
1700 - 1715			9		3	270	282
1715 - 1730			9		0	262	271
1730 - 1745			4		1	237	242
1745 - 1800			6		0	234	240
1800 - 1815			7		1	295	303
1815 - 1830			1		0	255	256
Per End	0	0	82	0	17	3181	3280

Heavies	NORTH		WEST		SOUTH		
Time Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1545			0		0	13	13
1545 - 1600			0		0	16	16
1600 - 1615			0		0	17	17
1615 - 1630			0		0	14	14
1630 - 1645			0		0	13	13
1645 - 1700			0		0	22	22
1700 - 1715			0		0	13	13
1715 - 1730			0		0	9	9
1730 - 1745			0		0	16	16
1745 - 1800			0		0	6	6
1800 - 1815			0		0	17	17
1815 - 1830			0		0	12	12
Per End	0	0	0	0	0	168	168

Combined	NORTH		WEST		SOUTH		
Time Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1545	0	0	5	0	1	283	289
1545 - 1600	0	0	4	0	3	305	312
1600 - 1615	0	0	11	0	0	297	308
1615 - 1630	0	0	9	0	5	285	299
1630 - 1645	0	0	5	0	1	271	277
1645 - 1700	0	0	12	0	2	282	296
1700 - 1715	0	0	9	0	3	283	295
1715 - 1730	0	0	9	0	0	271	280
1730 - 1745	0	0	4	0	1	253	258
1745 - 1800	0	0	6	0	0	240	246
1800 - 1815	0	0	7	0	1	312	320
1815 - 1830	0	0	1	0	0	267	268
Per End	0	0	82	0	17	3349	3448

Lights	NORTH		WEST		SOUTH		
Peak Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1630	0	0	29	0	9	1110	1148
1545 - 1645	0	0	29	0	9	1098	1136
1600 - 1700	0	0	37	0	8	1069	1114
1615 - 1715	0	0	35	0	11	1059	1105
1630 - 1730	0	0	35	0	6	1050	1091
1645 - 1745	0	0	34	0	6	1029	1069
1700 - 1800	0	0	28	0	4	1003	1035
1715 - 1815	0	0	26	0	2	1028	1056
1730 - 1830	0	0	18	0	2	1021	1041

Heavies	NORTH		WEST		SOUTH		
Peak Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1630	0	0	0	0	0	60	60
1545 - 1645	0	0	0	0	0	60	60
1600 - 1700	0	0	0	0	0	66	66
1615 - 1715	0	0	0	0	0	62	62
1630 - 1730	0	0	0	0	0	57	57
1645 - 1745	0	0	0	0	0	60	60
1700 - 1800	0	0	0	0	0	44	44
1715 - 1815	0	0	0	0	0	48	48
1730 - 1830	0	0	0	0	0	51	51

Combined	NORTH		WEST		SOUTH		
Peak Per	O'Riordan St		Ewan St		O'Riordan St		TOT
1530 - 1630	0	0	29	0	9	1170	1208
1545 - 1645	0	0	29	0	9	1158	1196
1600 - 1700	0	0	37	0	8	1135	1180
1615 - 1715	0	0	35	0	11	1121	1167
1630 - 1730	0	0	35	0	6	1107	1148
1645 - 1745	0	0	34	0	6	1089	1129
1700 - 1800	0	0	28	0	4	1047	1079
1715 - 1815	0	0	26	0	2	1076	1104
1730 - 1830	0	0	18	0	2	1072	1092

PEAK HR	0	0	29	0	9	1110	1148
---------	---	---	----	---	---	------	------

PEAK HR	0	0	0	0	0	60	60
---------	---	---	---	---	---	----	----

PEAK HR	0	0	29	0	9	1170	1208
---------	---	---	----	---	---	------	------



R.O.A.R. DATA

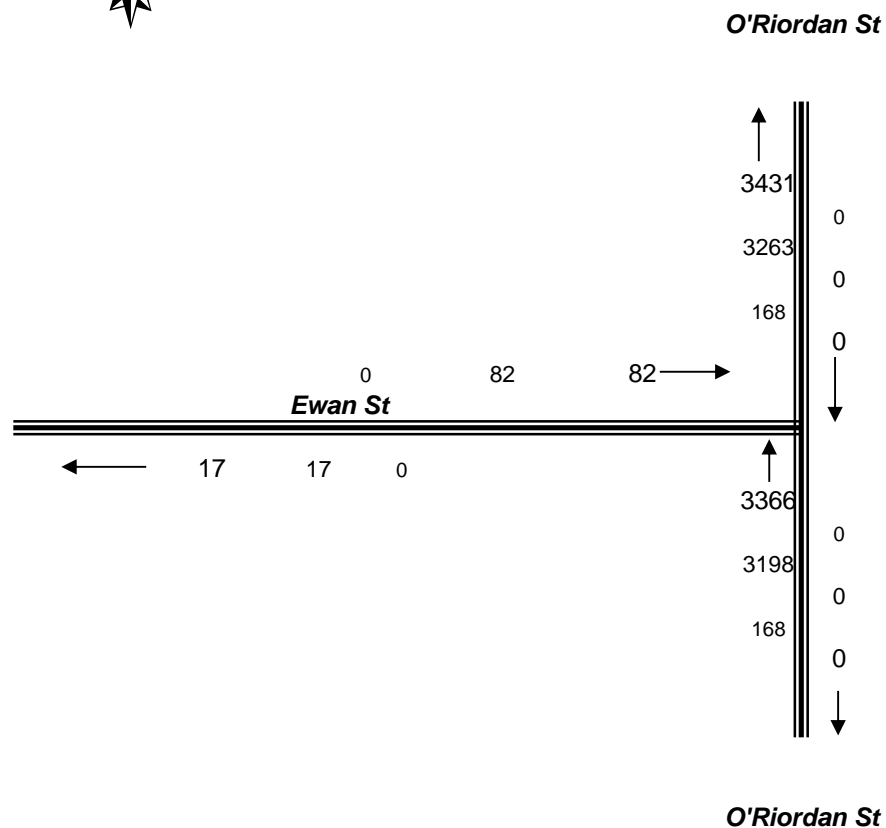
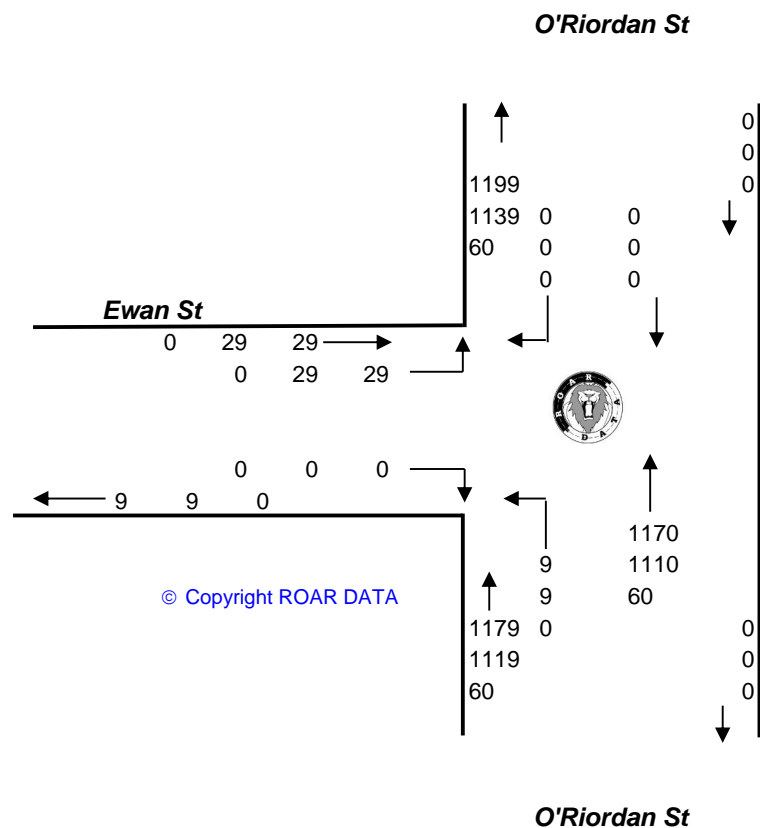
Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

PM PEAK
1530 - 1630

**TOTAL VOLUMES
FOR COUNT
PERIOD**





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Intersection Details

Obtained via satellite

May be incorrect

AM PEAK HOUR
0700 - 0800



O'Riordan St

Ewan St



AM	PM	
19	29	L

PM	9	1170
AM	10	1993
	L	T

PM PEAK HOUR
1530 - 1630

Combined figures only

Weather >>>



O'Riordan St



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Lights

Time Per	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0645	21	216	0	4	2	11	12	396	19	11	16	40	748
0645 - 0700	14	223	0	1	3	9	11	421	27	9	22	37	777
0700 - 0715	20	261	0	6	2	11	15	399	34	12	16	44	820
0715 - 0730	18	266	0	2	0	8	18	453	31	11	16	59	882
0730 - 0745	15	288	0	3	2	13	9	476	31	14	16	49	916
0745 - 0800	32	246	0	2	6	3	9	493	30	9	21	50	901
0800 - 0815	21	282	0	2	1	5	7	463	16	11	30	53	891
0815 - 0830	33	224	0	4	1	10	15	427	13	11	36	58	832
0830 - 0845	38	252	0	2	3	16	22	457	19	10	29	43	891
0845 - 0900	46	236	0	8	3	6	14	462	18	8	43	41	885
0900 - 0915	22	286	0	2	1	12	14	460	19	9	22	50	897
0915 - 0930	31	279	0	1	0	10	9	467	22	10	18	50	897
Period End	311	3059	0	37	24	114	155	5374	279	125	285	574	10337

Heavies

Time Per	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0645	0	14	0	1	0	0	0	13	0	1	0	0	29
0645 - 0700	1	9	0	0	0	0	0	16	0	0	0	0	26
0700 - 0715	0	9	0	0	0	0	0	19	0	0	0	0	28
0715 - 0730	1	15	0	1	0	0	0	9	0	0	0	0	26
0730 - 0745	2	19	0	0	0	0	0	15	1	1	0	2	40
0745 - 0800	0	15	0	0	0	0	0	20	0	0	0	0	35
0800 - 0815	0	16	0	0	0	0	0	17	0	0	0	1	34
0815 - 0830	0	13	0	0	0	1	0	10	0	0	1	1	26
0830 - 0845	1	10	0	0	0	0	0	15	1	1	0	1	29
0845 - 0900	0	19	0	0	0	0	0	7	0	0	0	0	26
0900 - 0915	0	19	0	0	0	0	0	19	0	1	0	1	40
0915 - 0930	1	13	0	0	0	0	0	12	0	0	0	2	28
Period End	6	171	0	2	0	1	0	172	2	4	1	8	367

Combined

Time Per	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0645	21	230	0	5	2	11	12	409	19	12	16	40	777
0645 - 0700	15	232	0	1	3	9	11	437	27	9	22	37	803
0700 - 0715	20	270	0	6	2	11	15	418	34	12	16	44	848
0715 - 0730	19	281	0	3	0	8	18	462	31	11	16	59	908
0730 - 0745	17	307	0	3	2	13	9	491	32	15	16	51	956
0745 - 0800	32	261	0	2	6	3	9	513	30	9	21	50	936
0800 - 0815	21	298	0	2	1	5	7	480	16	11	30	54	925
0815 - 0830	33	237	0	4	1	11	15	437	13	11	37	59	858
0830 - 0845	39	262	0	2	3	16	22	472	20	11	29	44	920
0845 - 0900	46	255	0	8	3	6	14	469	18	8	43	41	911
0900 - 0915	22	305	0	2	1	12	14	479	19	10	22	51	937
0915 - 0930	32	292	0	1	0	10	9	479	22	10	18	52	925
Period End	317	3230	0	39	24	115	155	5546	281	129	286	582	10704

Client : Varga Traffic Planning
 Job No/Name : 6937 MASCOT O'Riordan St
 Day/Date : Tuesday 23rd October 2018

Lights

Peak Time	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0730	73	966	0	13	7	39	56	1669	111	43	70	180	3227
0645 - 0745	67	1038	0	12	7	41	53	1749	123	46	70	189	3395
0700 - 0800	85	1061	0	13	10	35	51	1821	126	46	69	202	3519
0715 - 0815	86	1082	0	9	9	29	43	1885	108	45	83	211	3590
0730 - 0830	101	1040	0	11	10	31	40	1859	90	45	103	210	3540
0745 - 0845	124	1004	0	10	11	34	53	1840	78	41	116	204	3515
0800 - 0900	138	994	0	16	8	37	58	1809	66	40	138	195	3499
0815 - 0915	139	998	0	16	8	44	65	1806	69	38	130	192	3505
0830 - 0930	137	1053	0	13	7	44	59	1846	78	37	112	184	3570

PEAK HOUR	86	1082	0	9	9	29	43	1885	108	45	83	211	3590
-----------	----	------	---	---	---	----	----	------	-----	----	----	-----	------

Heavies

Peak Per	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0730	2	47	0	2	0	0	0	57	0	1	0	0	109
0645 - 0745	4	52	0	1	0	0	0	59	1	1	0	2	120
0700 - 0800	3	58	0	1	0	0	0	63	1	1	0	2	129
0715 - 0815	3	65	0	1	0	0	0	61	1	1	0	3	135
0730 - 0830	2	63	0	0	0	1	0	62	1	1	1	4	135
0745 - 0845	1	54	0	0	0	1	0	62	1	1	1	3	124
0800 - 0900	1	58	0	0	0	1	0	49	1	1	1	3	115
0815 - 0915	1	61	0	0	0	1	0	51	1	2	1	3	121
0830 - 0930	2	61	0	0	0	0	0	53	1	2	0	4	123

PEAK HOUR	3	65	0	1	0	0	0	61	1	1	0	3	135
-----------	---	----	---	---	---	---	---	----	---	---	---	---	-----

Combined

Peak Per	NORTH O'Riordan St			WEST King St			SOUTH O'Riordan St			EAST King St			TOT
	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0730	75	1013	0	15	7	39	56	1726	111	44	70	180	3336
0645 - 0745	71	1090	0	13	7	41	53	1808	124	47	70	191	3515
0700 - 0800	88	1119	0	14	10	35	51	1884	127	47	69	204	3648
0715 - 0815	89	1147	0	10	9	29	43	1946	109	46	83	214	3725
0730 - 0830	103	1103	0	11	10	32	40	1921	91	46	104	214	3675
0745 - 0845	125	1058	0	10	11	35	53	1902	79	42	117	207	3639
0800 - 0900	139	1052	0	16	8	38	58	1858	67	41	139	198	3614
0815 - 0915	140	1059	0	16	8	45	65	1857	70	40	131	195	3626
0830 - 0930	139	1114	0	13	7	44	59	1899	79	39	112	188	3693

PEAK HOUR	89	1147	0	10	9	29	43	1946	109	46	83	214	3725
-----------	----	------	---	----	---	----	----	------	-----	----	----	-----	------



ROAR DATA

Reliable, Original & Authentic Results

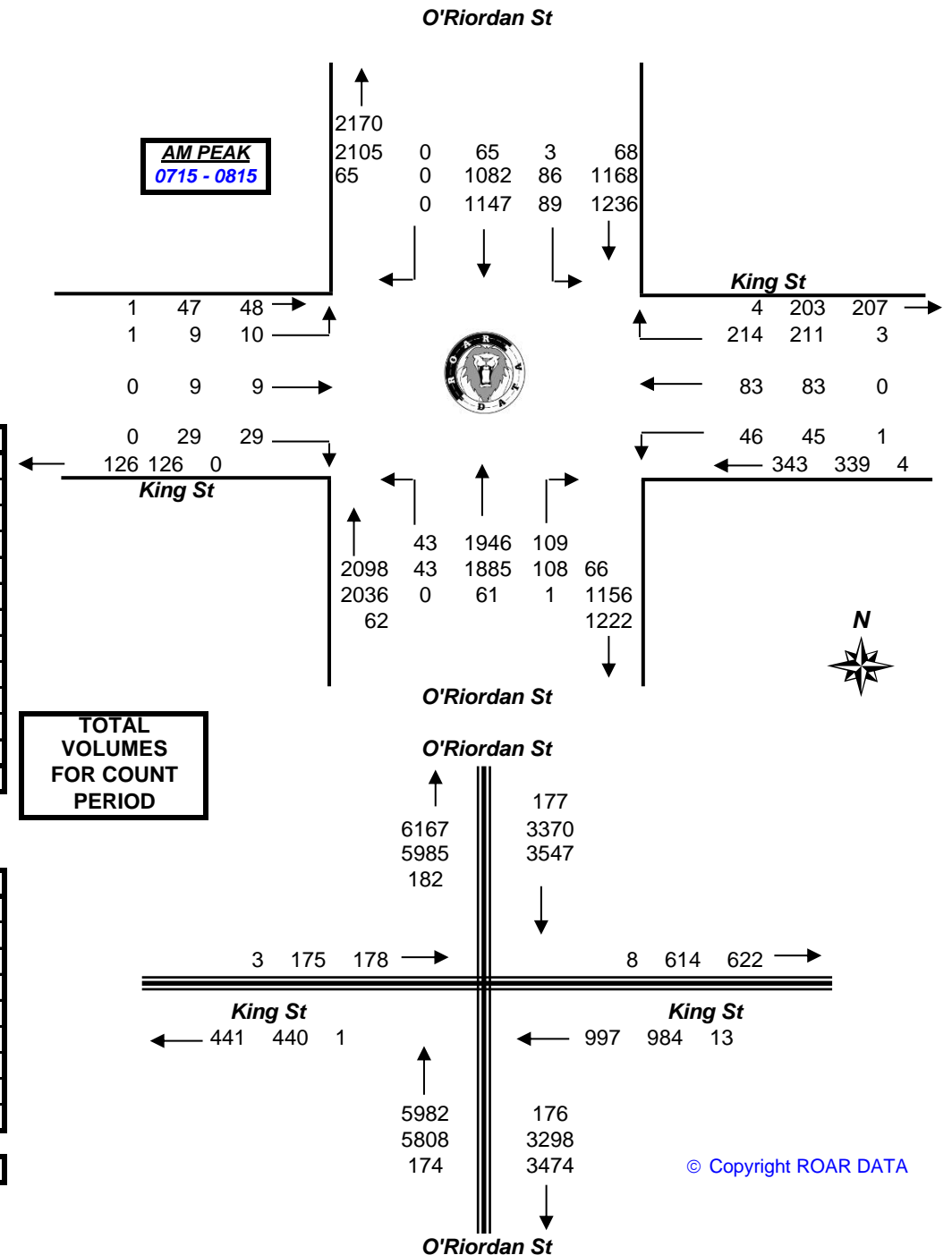
Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Peds	NORTH O'Riordan St	WEST King St	SOUTH O'Riordan St	EAST King St	
Time Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT
0630 - 0645	0	26	10	7	43
0645 - 0700	0	35	10	3	48
0700 - 0715	1	22	10	9	42
0715 - 0730	1	30	19	9	59
0730 - 0745	0	27	10	12	49
0745 - 0800	1	47	18	10	76
0800 - 0815	0	51	20	7	78
0815 - 0830	0	48	17	15	80
0830 - 0845	0	71	19	9	99
0845 - 0900	0	56	23	12	91
0900 - 0915	0	41	13	2	56
0915 - 0930	0	20	13	5	38
Period End	3	474	182	100	759

Peds	NORTH O'Riordan St	WEST King St	SOUTH O'Riordan St	EAST King St	
Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT
0630 - 0730	2	113	49	28	192
0645 - 0745	2	114	49	33	198
0700 - 0800	3	126	57	40	226
0715 - 0815	2	155	67	38	262
0730 - 0830	1	173	65	44	283
0745 - 0845	1	217	74	41	333
0800 - 0900	0	226	79	43	348
0815 - 0915	0	216	72	38	326
0830 - 0930	0	188	68	28	284

PEAK HR	2	155	67	38	262
---------	---	-----	----	----	-----





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Lights

Lights	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			King St			O'Riordan St			King St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	TOT
1530 - 1545	22	377	0	10	3	18	14	251	22	37	9	36	799
1545 - 1600	23	379	0	13	13	12	8	279	22	32	9	44	834
1600 - 1615	24	356	0	19	6	20	11	258	24	38	3	23	782
1615 - 1630	24	360	0	13	16	10	19	237	9	49	5	45	787
1630 - 1645	24	384	0	12	7	21	9	241	19	42	3	37	799
1645 - 1700	19	341	0	14	15	19	6	242	15	44	11	35	761
1700 - 1715	18	372	0	22	16	25	9	272	19	68	7	37	865
1715 - 1730	26	284	0	19	31	26	19	227	20	47	8	36	743
1730 - 1745	23	362	0	23	17	17	3	217	18	37	6	40	763
1745 - 1800	30	252	0	16	18	11	8	233	19	33	4	28	652
1800 - 1815	29	349	0	11	12	11	4	252	20	33	7	26	754
1815 - 1830	27	312	0	15	9	14	7	218	19	34	3	37	695
Period End	289	4128	0	187	163	204	117	2927	226	494	75	424	9234

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			King St			O'Riordan St			King St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	
1530 - 1545	0	18	0	1	0	0	0	13	0	1	0	1	34
1545 - 1600	0	12	0	0	0	0	0	16	0	1	0	0	29
1600 - 1615	0	12	0	0	0	0	0	19	0	0	0	0	31
1615 - 1630	1	12	0	1	0	0	0	9	0	0	0	1	24
1630 - 1645	0	15	0	0	0	0	0	15	1	1	0	1	33
1645 - 1700	0	10	0	0	0	0	0	20	0	0	0	1	31
1700 - 1715	0	7	0	0	0	0	0	17	0	1	0	1	26
1715 - 1730	0	9	0	0	0	1	0	10	0	0	0	1	21
1730 - 1745	0	13	0	0	0	0	0	15	1	0	0	1	30
1745 - 1800	0	12	0	0	0	0	0	7	0	0	0	0	19
1800 - 1815	0	10	0	0	0	0	0	19	0	0	0	1	30
1815 - 1830	0	12	0	0	0	0	0	12	0	0	0	0	24
Period End	1	142	0	2	0	1	0	172	2	4	0	8	332

Combined

Combined	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			King St			O'Riordan St			King St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	TOT
1530 - 1545	22	395	0	11	3	18	14	264	22	38	9	37	833
1545 - 1600	23	391	0	13	13	12	8	295	22	33	9	44	863
1600 - 1615	24	368	0	19	6	20	11	277	24	38	3	23	813
1615 - 1630	25	372	0	14	16	10	19	246	9	49	5	46	811
1630 - 1645	24	399	0	12	7	21	9	256	20	43	3	38	832
1645 - 1700	19	351	0	14	15	19	6	262	15	44	11	36	792
1700 - 1715	18	379	0	22	16	25	9	289	19	69	7	38	891
1715 - 1730	26	293	0	19	31	27	19	237	20	47	8	37	764
1730 - 1745	23	375	0	23	17	17	3	232	19	37	6	41	793
1745 - 1800	30	264	0	16	18	11	8	240	19	33	4	28	671
1800 - 1815	29	359	0	11	12	11	4	271	20	33	7	27	784
1815 - 1830	27	324	0	15	9	14	7	230	19	34	3	37	719
Period End	290	4270	0	189	163	205	117	3099	228	498	75	432	9566

Client : Varga Traffic Planning
 Job No/Name : 6937 MASCOT O'Riordan St
 Day/Date : Tuesday 23rd October 2018

Lights

Lights	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			King St			O'Riordan St			King St			
Peak Time	L	T	R	L	T	R	L	T	R	L	T	R	TOT
1530 - 1630	93	1472	0	55	38	60	52	1025	77	156	26	148	3202
1545 - 1645	95	1479	0	57	42	63	47	1015	74	161	20	149	3202
1600 - 1700	91	1441	0	58	44	70	45	978	67	173	22	140	3129
1615 - 1715	85	1457	0	61	54	75	43	992	62	203	26	154	3212
1630 - 1730	87	1381	0	67	69	91	43	982	73	201	29	145	3168
1645 - 1745	86	1359	0	78	79	87	37	958	72	196	32	148	3132
1700 - 1800	97	1270	0	80	82	79	39	949	76	185	25	141	3023
1715 - 1815	108	1247	0	69	78	65	34	929	77	150	25	130	2912
1730 - 1830	109	1275	0	65	56	53	22	920	76	137	20	131	2864

PEAK HOUR	93	1472	0	55	38	60	52	1025	77	156	26	148	3202
-----------	----	------	---	----	----	----	----	------	----	-----	----	-----	------

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			King St			O'Riordan St			King St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	
1530 - 1630	1	54	0	2	0	0	0	57	0	2	0	2	118
1545 - 1645	1	51	0	1	0	0	0	59	1	2	0	2	117
1600 - 1700	1	49	0	1	0	0	0	63	1	1	0	3	119
1615 - 1715	1	44	0	1	0	0	0	61	1	2	0	4	114
1630 - 1730	0	41	0	0	0	1	0	62	1	2	0	4	111
1645 - 1745	0	39	0	0	0	1	0	62	1	1	0	4	108
1700 - 1800	0	41	0	0	0	1	0	49	1	1	0	3	96
1715 - 1815	0	44	0	0	0	1	0	51	1	0	0	3	100
1730 - 1830	0	47	0	0	0	0	0	53	1	0	0	2	103

PEAK HOUR	1	54	0	2	0	0	0	57	0	2	0	2	118
-----------	---	----	---	---	---	---	---	----	---	---	---	---	-----

Combined

Combined	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			King St			O'Riordan St			King St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	
1530 - 1630	94	1526	0	57	38	60	52	1082	77	158	26	150	3320
1545 - 1645	96	1530	0	58	42	63	47	1074	75	163	20	151	3319
1600 - 1700	92	1490	0	59	44	70	45	1041	68	174	22	143	3248
1615 - 1715	86	1501	0	62	54	75	43	1053	63	205	26	158	3326
1630 - 1730	87	1422	0	67	69	92	43	1044	74	203	29	149	3279
1645 - 1745	86	1398	0	78	79	88	37	1020	73	197	32	152	3240
1700 - 1800	97	1311	0	80	82	80	39	998	77	186	25	144	3119
1715 - 1815	108	1291	0	69	78	66	34	980	78	150	25	133	3012
1730 - 1830	109	1322	0	65	56	53	22	973	77	137	20	133	2967

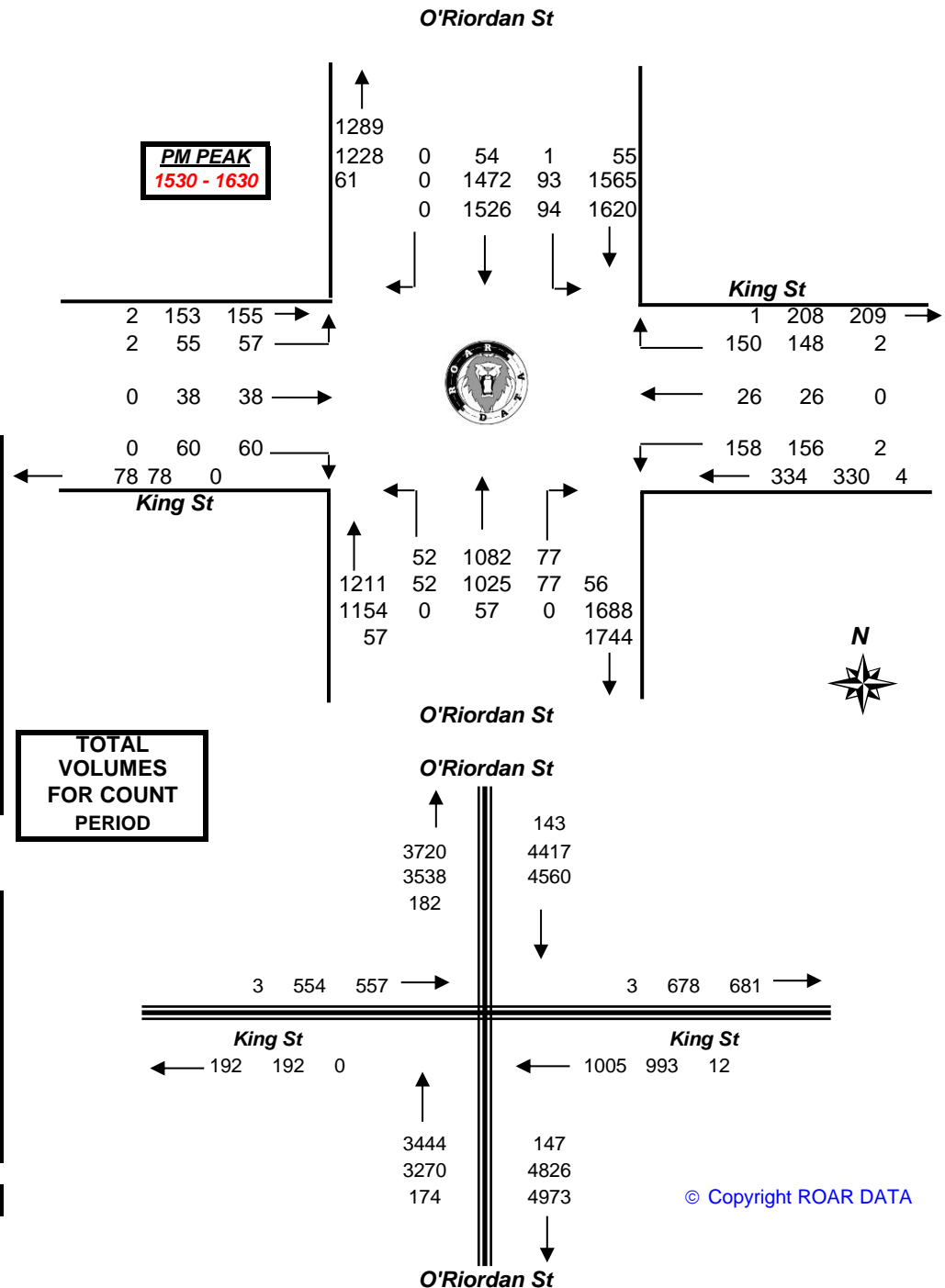
PEAK HOUR	94	1526	0	57	38	60	52	1082	77	158	26	150	3320
-----------	----	------	---	----	----	----	----	------	----	-----	----	-----	------



Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Peds	NORTH	WEST	SOUTH	EAST	TOT
	O'Riordan St	King St	O'Riordan St	King St	
Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	
1530 - 1630	0	139	53	31	223
1545 - 1645	0	131	54	38	223
1600 - 1700	0	133	54	45	232
1615 - 1715	0	175	57	55	287
1630 - 1730	0	190	73	63	326
1645 - 1745	0	204	76	56	336
1700 - 1800	0	207	77	51	335
1715 - 1815	0	163	67	47	277
1730 - 1830	0	161	53	39	253
PEAK HR	0	139	53	31	223



© Copyright ROAR DATA



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Intersection Details

Obtained via satellite

May be incorrect

AM PEAK HOUR
0715 - 0815

Combined figures only

King St

AM	PM	
10	57	L
9	38	T
29	60	R

PM	52	1082	77
AM	43	1946	109
	L	T	R

R	T	L	
0	1147	89	AM
0	1526	94	PM

R	150	214
T	26	83
L	158	46
	PM	AM

King St

PM PEAK HOUR
1530 - 1630

Weather >>>



O'Riordan St



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Lights

Lights	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0645	10	241	0	505	37	12	0	0	0	26	0	0	831
0645 - 0700	8	253	0	464	32	5	0	0	0	30	0	0	792
0700 - 0715	8	258	0	558	55	7	0	0	0	32	0	0	918
0715 - 0730	3	264	0	515	47	6	0	0	0	32	0	0	867
0730 - 0745	10	300	0	469	38	7	0	0	0	38	0	0	862
0745 - 0800	6	235	0	514	45	6	0	0	0	45	0	0	851
0800 - 0815	9	311	0	532	30	8	0	0	0	41	0	0	931
0815 - 0830	9	207	0	373	23	6	0	0	0	34	0	0	652
0830 - 0845	17	243	0	457	23	1	0	0	0	45	0	0	786
0845 - 0900	15	258	0	426	41	8	0	0	0	44	0	0	792
0900 - 0915	17	275	0	538	46	87	0	0	0	37	0	0	1000
0915 - 0930	15	301	0	471	36	5	0	0	0	39	0	0	867
Period End	127	3146	0	5822	453	158	0	0	0	443	0	0	10149

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0645	0	14	0	17	1	0	0	0	0	0	0	0	32
0645 - 0700	0	8	0	13	0	0	0	0	0	0	0	0	21
0700 - 0715	0	10	0	19	0	0	0	0	0	0	0	0	29
0715 - 0730	0	11	0	12	0	0	0	0	0	1	0	0	24
0730 - 0745	0	21	0	17	0	0	0	0	0	0	0	0	38
0745 - 0800	0	14	0	10	0	0	0	0	0	0	0	0	24
0800 - 0815	0	15	0	18	1	0	0	0	0	0	0	0	34
0815 - 0830	1	12	0	8	0	0	0	0	0	0	0	0	21
0830 - 0845	0	8	0	14	0	0	0	0	0	0	0	0	22
0845 - 0900	1	20	0	18	0	0	0	0	0	0	0	0	39
0900 - 0915	0	17	0	21	0	0	0	0	0	0	0	0	38
0915 - 0930	0	20	0	18	3	0	0	0	0	0	0	0	41
Period End	2	170	0	185	5	0	0	0	0	1	0	0	363

Combined

Combined	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	L	T	R	L	T	R	L	T	R	L	T	R	TOT
0630 - 0645	10	255	0	522	38	12	0	0	0	26	0	0	863
0645 - 0700	8	261	0	477	32	5	0	0	0	30	0	0	813
0700 - 0715	8	268	0	577	55	7	0	0	0	32	0	0	947
0715 - 0730	3	275	0	527	47	6	0	0	0	33	0	0	891
0730 - 0745	10	321	0	486	38	7	0	0	0	38	0	0	900
0745 - 0800	6	249	0	524	45	6	0	0	0	45	0	0	875
0800 - 0815	9	326	0	550	31	8	0	0	0	41	0	0	965
0815 - 0830	10	219	0	381	23	6	0	0	0	34	0	0	673
0830 - 0845	17	251	0	471	23	1	0	0	0	45	0	0	808
0845 - 0900	16	278	0	444	41	8	0	0	0	44	0	0	831
0900 - 0915	17	292	0	559	46	87	0	0	0	37	0	0	1038
0915 - 0930	15	321	0	489	39	5	0	0	0	39	0	0	908
Period End	129	3316	0	6007	458	158	0	0	0	444	0	0	10512

Client : Varga Traffic Planning
 Job No/Name : 6937 MASCOT O'Riordan St
 Day/Date : Tuesday 23rd October 2018

Lights

Lights	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Time	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0730	29	1016	0	2042	171	30	0	0	0	120	0	0	3408
0645 - 0745	29	1075	0	2006	172	25	0	0	0	132	0	0	3439
0700 - 0800	27	1057	0	2056	185	26	0	0	0	147	0	0	3498
0715 - 0815	28	1110	0	2030	160	27	0	0	0	156	0	0	3511
0730 - 0830	34	1053	0	1888	136	27	0	0	0	158	0	0	3296
0745 - 0845	41	996	0	1876	121	21	0	0	0	165	0	0	3220
0800 - 0900	50	1019	0	1788	117	23	0	0	0	164	0	0	3161
0815 - 0915	58	983	0	1794	133	102	0	0	0	160	0	0	3230
0830 - 0930	64	1077	0	1892	146	101	0	0	0	165	0	0	3445

PEAK HOUR	28	1110	0	2030	160	27	0	0	0	156	0	0	3511
-----------	----	------	---	------	-----	----	---	---	---	-----	---	---	------

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	
0630 - 0730	0	43	0	61	1	0	0	0	0	1	0	0	106
0645 - 0745	0	50	0	61	0	0	0	0	0	1	0	0	112
0700 - 0800	0	56	0	58	0	0	0	0	0	1	0	0	115
0715 - 0815	0	61	0	57	1	0	0	0	0	1	0	0	120
0730 - 0830	1	62	0	53	1	0	0	0	0	0	0	0	117
0745 - 0845	1	49	0	50	1	0	0	0	0	0	0	0	101
0800 - 0900	2	55	0	58	1	0	0	0	0	0	0	0	116
0815 - 0915	2	57	0	61	0	0	0	0	0	0	0	0	120
0830 - 0930	1	65	0	71	3	0	0	0	0	0	0	0	140

PEAK HOUR	0	61	0	57	1	0	0	0	0	1	0	0	120
-----------	---	----	---	----	---	---	---	---	---	---	---	---	-----

Combined

Combined	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	TOT
0630 - 0730	29	1059	0	2103	172	30	0	0	0	121	0	0	3514
0645 - 0745	29	1125	0	2067	172	25	0	0	0	133	0	0	3551
0700 - 0800	27	1113	0	2114	185	26	0	0	0	148	0	0	3613
0715 - 0815	28	1171	0	2087	161	27	0	0	0	157	0	0	3631
0730 - 0830	35	1115	0	1941	137	27	0	0	0	158	0	0	3413
0745 - 0845	42	1045	0	1926	122	21	0	0	0	165	0	0	3321
0800 - 0900	52	1074	0	1846	118	23	0	0	0	164	0	0	3277
0815 - 0915	60	1040	0	1855	133	102	0	0	0	160	0	0	3350
0830 - 0930	65	1142	0	1963	149	101	0	0	0	165	0	0	3585

PEAK HOUR	28	1171	0	2087	161	27	0	0	0	157	0	0	3631
-----------	----	------	---	------	-----	----	---	---	---	-----	---	---	------



R.O.A.R DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

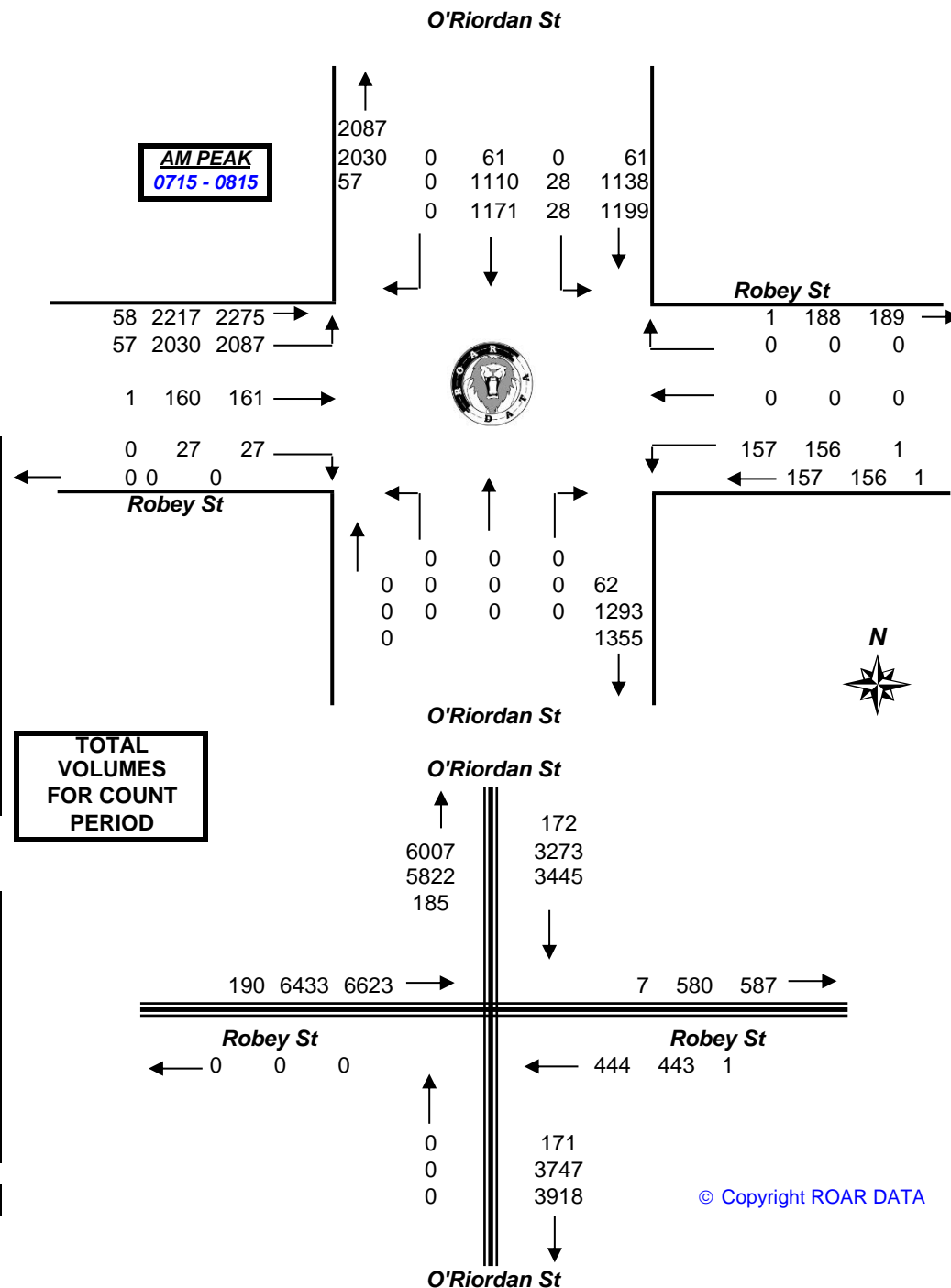
Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Peds

	NORTH O'Riordan St	WEST Robey St	SOUTH O'Riordan St	EAST Robey St	
Time Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT
0630 - 0645	4	15	7	11	37
0645 - 0700	4	34	5	1	44
0700 - 0715	14	23	5	7	49
0715 - 0730	1	23	4	0	28
0730 - 0745	14	43	19	3	79
0745 - 0800	6	35	11	4	56
0800 - 0815	17	41	18	2	78
0815 - 0830	2	39	17	2	60
0830 - 0845	2	45	15	0	62
0845 - 0900	13	57	29	2	101
0900 - 0915	13	41	20	1	75
0915 - 0930	4	27	5	4	40
Period End	94	423	155	37	709

Peds

	NORTH O'Riordan St	WEST Robey St	SOUTH O'Riordan St	EAST Robey St	
Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	TOT
0630 - 0730	23	95	21	19	158
0645 - 0745	33	123	33	11	200
0700 - 0800	35	124	39	14	212
0715 - 0815	38	142	52	9	241
0730 - 0830	39	158	65	11	273
0745 - 0845	27	160	61	8	256
0800 - 0900	34	182	79	6	301
0815 - 0915	30	182	81	5	298
0830 - 0930	32	170	69	7	278
PEAK HR	38	142	52	9	241





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

Lights

Lights	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	
1530 - 1545	2	486	0	300	45	6	0	0	0	72	0	0	911
1545 - 1600	2	366	0	275	26	11	0	0	0	40	0	0	720
1600 - 1615	4	415	0	285	28	5	0	0	0	78	0	0	815
1615 - 1630	4	358	0	237	29	8	0	0	0	54	0	0	690
1630 - 1645	5	411	0	221	32	6	0	0	0	58	0	0	733
1645 - 1700	7	377	0	226	42	10	0	0	0	51	0	0	713
1700 - 1715	5	478	0	257	26	9	0	0	0	68	0	0	843
1715 - 1730	4	363	0	259	32	91	0	0	0	42	0	0	791
1730 - 1745	5	365	0	215	21	10	0	0	0	42	0	0	658
1745 - 1800	21	452	0	283	27	7	0	0	0	62	0	0	852
1800 - 1815	13	430	0	276	27	7	0	0	0	74	0	0	827
1815 - 1830	21	347	0	241	25	9	0	0	0	61	0	0	704
Period End	93	4848	0	3075	360	179	0	0	0	702	0	0	9257

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	
1530 - 1545	0	19	0	16	0	0	0	0	0	0	0	0	35
1545 - 1600	0	11	0	16	0	0	0	0	0	0	0	0	27
1600 - 1615	0	10	0	19	0	0	0	0	0	0	0	0	29
1615 - 1630	0	11	0	15	0	0	0	0	0	0	0	0	26
1630 - 1645	0	14	0	13	0	0	0	0	0	0	0	0	27
1645 - 1700	0	11	0	21	0	0	0	0	0	0	0	0	32
1700 - 1715	1	8	0	13	0	0	0	0	0	0	0	0	22
1715 - 1730	1	10	0	10	0	0	0	0	0	0	0	0	21
1730 - 1745	0	10	0	15	0	0	0	0	0	0	0	0	25
1745 - 1800	0	14	0	7	0	0	0	0	0	0	0	0	21
1800 - 1815	0	10	0	11	0	0	0	0	0	1	0	0	22
1815 - 1830	0	12	0	21	0	1	0	0	0	0	0	0	34
Period End	2	140	0	177	0	1	0	0	0	1	0	0	321

Combined

Combined	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Time Per	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	<u>L</u>	<u>T</u>	<u>R</u>	TOT
1530 - 1545	2	505	0	316	45	6	0	0	0	72	0	0	946
1545 - 1600	2	377	0	291	26	11	0	0	0	40	0	0	747
1600 - 1615	4	425	0	304	28	5	0	0	0	78	0	0	844
1615 - 1630	4	369	0	252	29	8	0	0	0	54	0	0	716
1630 - 1645	5	425	0	234	32	6	0	0	0	58	0	0	760
1645 - 1700	7	388	0	247	42	10	0	0	0	51	0	0	745
1700 - 1715	6	486	0	270	26	9	0	0	0	68	0	0	865
1715 - 1730	5	373	0	269	32	91	0	0	0	42	0	0	812
1730 - 1745	5	375	0	230	21	10	0	0	0	42	0	0	683
1745 - 1800	21	466	0	290	27	7	0	0	0	62	0	0	873
1800 - 1815	13	440	0	287	27	7	0	0	0	75	0	0	849
1815 - 1830	21	359	0	262	25	10	0	0	0	61	0	0	738
Period End	95	4988	0	3252	360	180	0	0	0	703	0	0	9578

Client : Varga Traffic Planning
 Job No/Name : 6937 MASCOT O'Riordan St
 Day/Date : Tuesday 23rd October 2018

Lights

Lights	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Time	L	T	R	L	T	R	L	T	R	L	T	R	
1530 - 1630	12	1625	0	1097	128	30	0	0	0	244	0	0	3136
1545 - 1645	15	1550	0	1018	115	30	0	0	0	230	0	0	2958
1600 - 1700	20	1561	0	969	131	29	0	0	0	241	0	0	2951
1615 - 1715	21	1624	0	941	129	33	0	0	0	231	0	0	2979
1630 - 1730	21	1629	0	963	132	116	0	0	0	219	0	0	3080
1645 - 1745	21	1583	0	957	121	120	0	0	0	203	0	0	3005
1700 - 1800	35	1658	0	1014	106	117	0	0	0	214	0	0	3144
1715 - 1815	43	1610	0	1033	107	115	0	0	0	220	0	0	3128
1730 - 1830	60	1594	0	1015	100	33	0	0	0	239	0	0	3041

PEAK HOUR	12	1625	0	1097	128	30	0	0	0	244	0	0	3136
-----------	----	------	---	------	-----	----	---	---	---	-----	---	---	------

Heavies

Heavies	NORTH			WEST			SOUTH			EAST			TOT
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	
1530 - 1630	0	51	0	66	0	0	0	0	0	0	0	0	117
1545 - 1645	0	46	0	63	0	0	0	0	0	0	0	0	109
1600 - 1700	0	46	0	68	0	0	0	0	0	0	0	0	114
1615 - 1715	1	44	0	62	0	0	0	0	0	0	0	0	107
1630 - 1730	2	43	0	57	0	0	0	0	0	0	0	0	102
1645 - 1745	2	39	0	59	0	0	0	0	0	0	0	0	100
1700 - 1800	2	42	0	45	0	0	0	0	0	0	0	0	89
1715 - 1815	1	44	0	43	0	0	0	0	0	1	0	0	89
1730 - 1830	0	46	0	54	0	1	0	0	0	1	0	0	102

PEAK HOUR	0	51	0	66	0	0	0	0	0	0	0	0	117
-----------	---	----	---	----	---	---	---	---	---	---	---	---	-----

Combined

Combined	NORTH			WEST			SOUTH			EAST			
	O'Riordan St			Robey St			O'Riordan St			Robey St			
Peak Per	L	T	R	L	T	R	L	T	R	L	T	R	TOT
1530 - 1630	12	1676	0	1163	128	30	0	0	0	244	0	0	3253
1545 - 1645	15	1596	0	1081	115	30	0	0	0	230	0	0	3067
1600 - 1700	20	1607	0	1037	131	29	0	0	0	241	0	0	3065
1615 - 1715	22	1668	0	1003	129	33	0	0	0	231	0	0	3086
1630 - 1730	23	1672	0	1020	132	116	0	0	0	219	0	0	3182
1645 - 1745	23	1622	0	1016	121	120	0	0	0	203	0	0	3105
1700 - 1800	37	1700	0	1059	106	117	0	0	0	214	0	0	3233
1715 - 1815	44	1654	0	1076	107	115	0	0	0	221	0	0	3217
1730 - 1830	60	1640	0	1069	100	34	0	0	0	240	0	0	3143

PEAK HOUR	12	1676	0	1163	128	30	0	0	0	244	0	0	3253
-----------	----	------	---	------	-----	----	---	---	---	-----	---	---	------



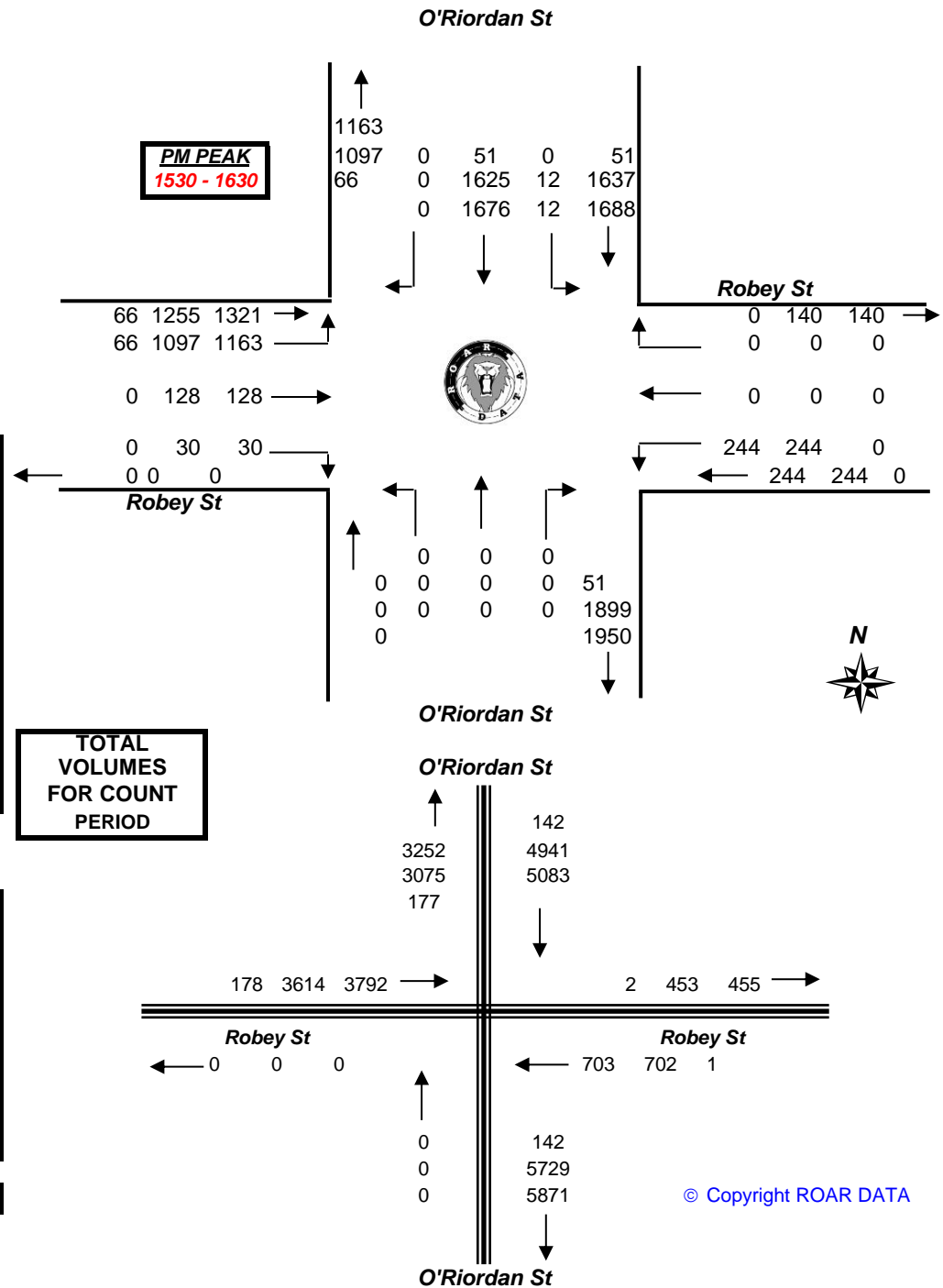
Ph.88196847, Mob.0418-239019

Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Peds	NORTH	WEST	SOUTH	EAST	TOT
	<i>O'Riordan St</i>	<i>Robey St</i>	<i>O'Riordan St</i>	<i>Robey St</i>	
Time Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	
1530 - 1545	5	21	9	2	37
1545 - 1600	1	12	5	0	18
1600 - 1615	1	39	15	2	57
1615 - 1630	0	26	7	3	36
1630 - 1645	4	21	9	2	36
1645 - 1700	2	32	16	7	57
1700 - 1715	10	47	29	24	110
1715 - 1730	7	32	17	6	62
1730 - 1745	12	34	14	5	65
1745 - 1800	21	27	10	3	61
1800 - 1815	7	23	9	1	40
1815 - 1830	12	25	7	4	48
Period End	82	339	147	59	627

Peds	NORTH	WEST	SOUTH	EAST	TOT
	<i>O'Riordan St</i>	<i>Robey St</i>	<i>O'Riordan St</i>	<i>Robey St</i>	
Peak Per	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	
1530 - 1630	7	98	36	7	148
1545 - 1645	6	98	36	7	147
1600 - 1700	7	118	47	14	186
1615 - 1715	16	126	61	36	239
1630 - 1730	23	132	71	39	265
1645 - 1745	31	145	76	42	294
1700 - 1800	50	140	70	38	298
1715 - 1815	47	116	50	15	228
1730 - 1830	52	109	40	13	214

PEAK HR	7	98	36	7	148
---------	---	----	----	---	-----





R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Mob.0418-239019

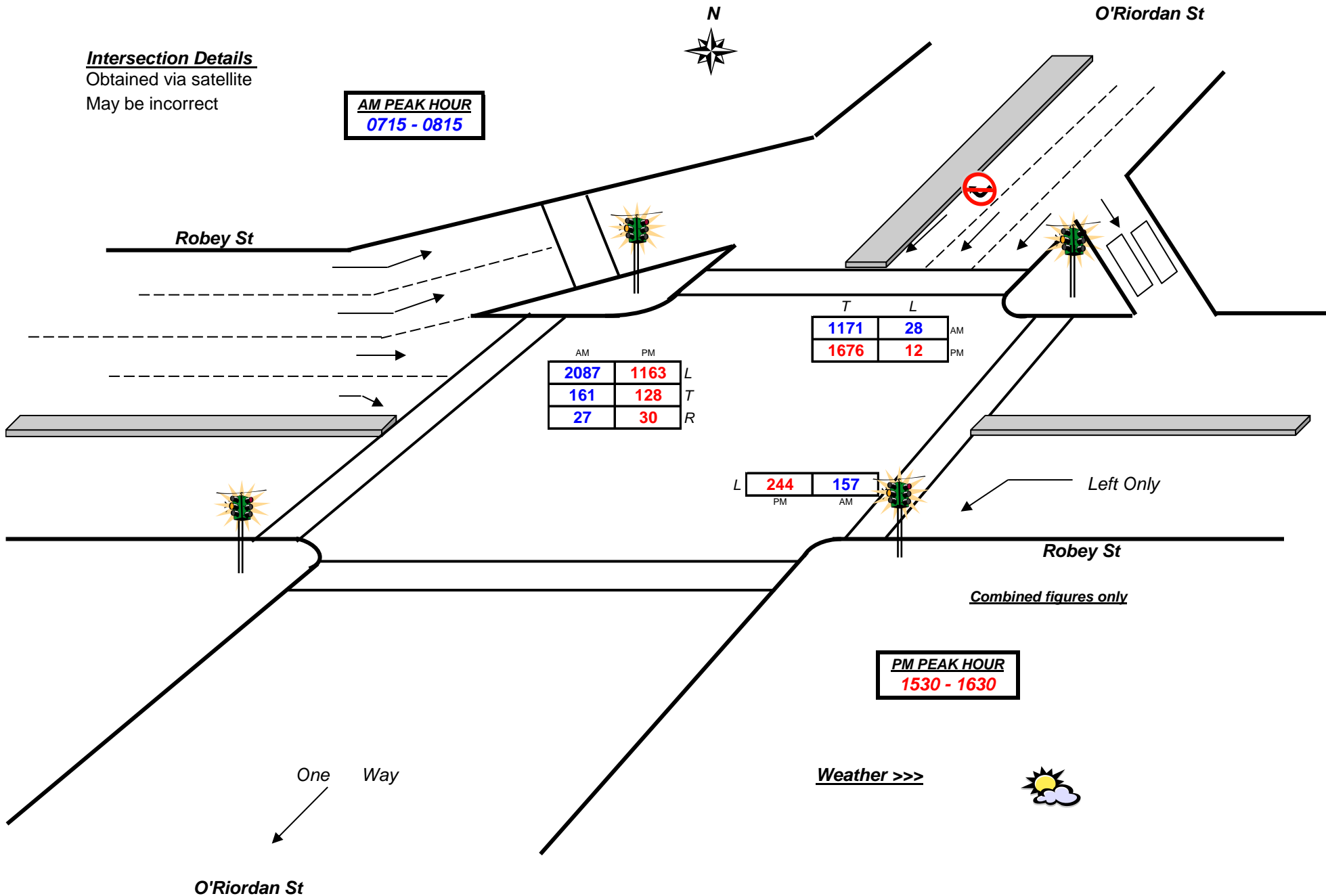
Client : Varga Traffic Planning
Job No/Name : 6937 MASCOT O'Riordan St
Day/Date : Tuesday 23rd October 2018

Intersection Details

Obtained via satellite

May be incorrect

AM PEAK HOUR
0715 - 0815



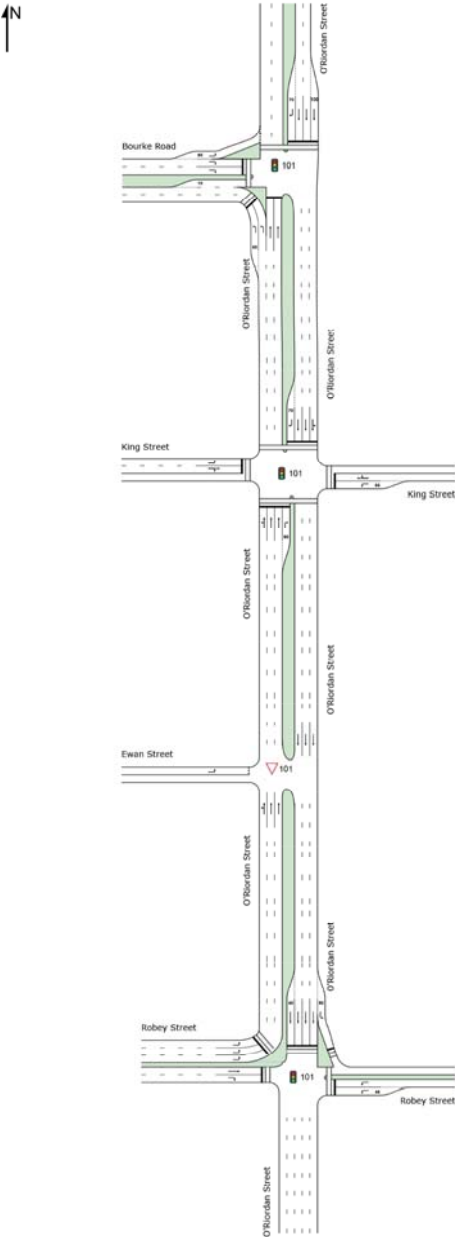
APPENDIX B

SIDRA NETWORK MOVEMENT SUMMARIES

NETWORK LAYOUT

Network: N101 [Network - Ex. AM]

New Network
Network Category: (None)



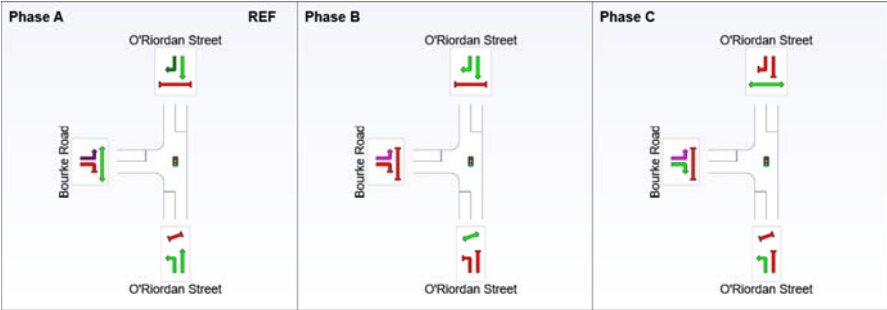
SITES IN NETWORK		
Site ID	CCG ID	Site Name
101	NA	O'Riordan St & Bourke Rd - Ex. AM
101	NA	O'Riordan St & King St - Ex. AM
101	NA	O'Riordan St & Ewan St - Ex. AM
101	NA	O'Riordan St & Robey St - Ex. AM

INPUT PHASE SEQUENCE

 **Site: 101 [O’Riordan St & Bourke Rd - Prop. AM]**

O’Riordan Street & Bourke Road Intersection
Site Category: (None)
Signals - Fixed Time Coordinated

Phase Sequence: TCS
Reference Phase: Phase A
Input Phase Sequence: A, B, C
Movement Class: All Movement Classes



REF: Reference Phase
VAR: Variable Phase

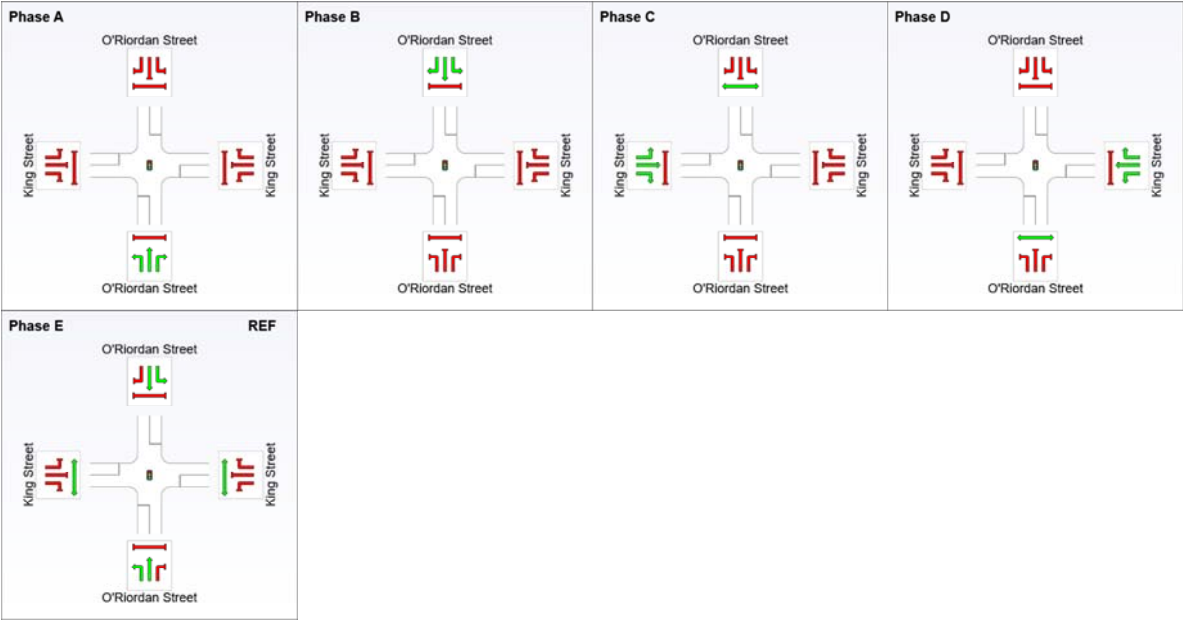


INPUT PHASE SEQUENCE

Site: 101 [O’Riordan St & King St - Prop. AM]

O’Riordan Street & King Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated

Phase Sequence: Custom
Reference Phase: Phase E
Input Phase Sequence: A, B, C, D, E
Movement Class: All Movement Classes



REF: Reference Phase
VAR: Variable Phase

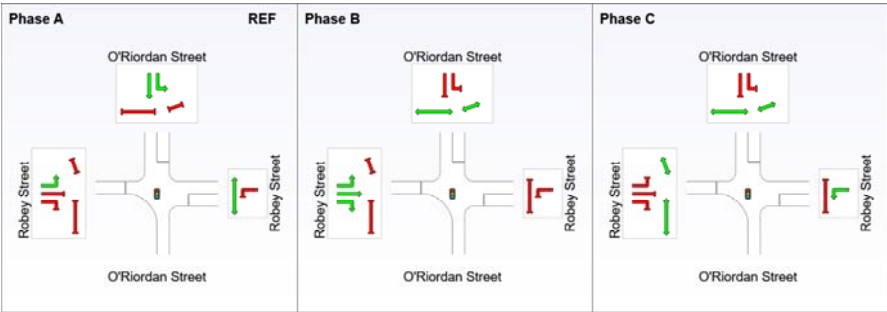


INPUT PHASE SEQUENCE

Site: 101 [O’Riordan St & Robey St - Prop. AM]

O’Riordan Street & Robey Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated

Phase Sequence: Custom
Reference Phase: Phase A
Input Phase Sequence: A, B, C
Movement Class: All Movement Classes



REF: Reference Phase
VAR: Variable Phase



MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Bourke Rd - Ex. AM]

Network: N101 [Network - Ex. AM]

O'Riordan Street & Bourke Road Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 121 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	633	5.8	633	5.8	0.209	5.9	LOS A	0.3	2.1	0.03	0.54	0.03	52.6
2	T1	1432	1.0	1432	1.0	0.604	0.8	LOS A	1.2	8.8	0.05	0.05	0.05	58.9
Approach		2065	2.5	2065	2.5	0.604	2.4	LOS A	1.2	8.8	0.05	0.20	0.05	56.8
North: O'Riordan Street														
8	T1	700	2.9	700	2.9	0.170	0.4	LOS A	0.2	1.4	0.03	0.02	0.03	59.2
9	R2	104	1.0	104	1.0	0.347	6.2	LOS A	0.1	0.9	0.04	0.57	0.04	53.7
Approach		804	2.6	804	2.6	0.347	1.2	LOS A	0.2	1.4	0.03	0.09	0.03	57.9
West: Bourke Road														
10	L2	20	10.0	20	10.0	0.029	5.8	LOS A	0.0	0.1	0.02	0.55	0.02	53.8
12	R2	411	10.2	411	10.2	0.599	46.1	LOS D	6.3	48.1	0.88	0.80	0.88	24.4
Approach		431	10.2	431	10.2	0.599	44.2	LOS D	6.3	48.1	0.84	0.79	0.84	25.6
All Vehicles		3300	3.5	3300	3.5	0.604	7.5	LOS A	6.3	48.1	0.14	0.25	0.14	50.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate
P1B	South Slip/Bypass Lane Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		150	54.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Bourke Rd - Ex. PM]

Network: N101 [Network - Ex. PM]

O'Riordan Street & Bourke Road Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 122 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	470	9.8	470	9.8	0.159	5.9	LOS A	0.2	1.5	0.03	0.53	0.03	52.4
2	T1	873	2.4	873	2.4	0.462	0.9	LOS A	0.6	4.1	0.04	0.03	0.04	58.8
Approach		1343	5.0	1343	5.0	0.462	2.6	LOS A	0.6	4.1	0.03	0.21	0.03	56.4
North: O'Riordan Street														
8	T1	1075	1.7	1075	1.7	0.310	0.6	LOS A	0.4	2.6	0.03	0.03	0.03	58.8
9	R2	44	4.5	44	4.5	0.109	6.2	LOS A	0.0	0.2	0.02	0.56	0.02	53.6
Approach		1119	1.8	1119	1.8	0.310	0.9	LOS A	0.4	2.6	0.03	0.05	0.03	58.4
West: Bourke Road														
10	L2	34	11.8	34	11.8	0.033	5.8	LOS A	0.0	0.1	0.02	0.55	0.02	53.8
12	R2	511	7.0	511	7.0	0.452	30.0	LOS C	5.7	42.5	0.65	0.75	0.65	30.7
Approach		545	7.3	545	7.3	0.452	28.5	LOS C	5.7	42.5	0.62	0.73	0.62	32.3
All Vehicles		3007	4.2	3007	4.2	0.462	6.7	LOS A	5.7	42.5	0.14	0.24	0.14	50.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate
P1B	South Slip/Bypass Lane Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		150	55.3	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Bourke Rd - Prop. AM]

Network: N101 [Network - Prop. AM]

O'Riordan Street & Bourke Road Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 124 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	674	5.5	674	5.5	0.220	5.9	LOS A	0.3	2.3	0.03	0.54	0.03	52.6
2	T1	1509	0.9	1509	0.9	0.627	0.8	LOS A	1.4	10.0	0.06	0.05	0.06	58.9
Approach		2183	2.3	2183	2.3	0.627	2.4	LOS A	1.4	10.0	0.05	0.20	0.05	56.8
North: O'Riordan Street														
8	T1	737	2.7	737	2.7	0.177	0.4	LOS A	0.2	1.5	0.03	0.02	0.03	59.2
9	R2	104	1.0	104	1.0	0.371	6.2	LOS A	0.1	1.0	0.04	0.57	0.04	53.7
Approach		841	2.5	841	2.5	0.371	1.1	LOS A	0.2	1.5	0.03	0.09	0.03	57.9
West: Bourke Road														
10	L2	20	10.0	20	10.0	0.030	5.8	LOS A	0.0	0.1	0.02	0.55	0.02	53.8
12	R2	411	10.2	411	10.2	0.613	47.8	LOS D	6.5	49.8	0.89	0.80	0.89	23.8
Approach		431	10.2	431	10.2	0.613	45.9	LOS D	6.5	49.8	0.85	0.79	0.85	25.0
All Vehicles		3455	3.4	3455	3.4	0.627	7.5	LOS A	6.5	49.8	0.14	0.25	0.14	50.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate
P1B	South Slip/Bypass Lane Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		150	56.3	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Bourke Rd - Prop. PM]

Network: N101 [Network - Prop. PM]

O'Riordan Street & Bourke Road Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 140 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	510	9.0	510	9.0	0.169	5.9	LOS A	0.2	1.9	0.03	0.53	0.03	52.4
2	T1	950	2.2	950	2.2	0.474	0.9	LOS A	0.7	5.2	0.04	0.04	0.04	58.7
Approach		1459	4.6	1459	4.6	0.474	2.7	LOS A	0.7	5.2	0.04	0.21	0.04	56.4
North: O'Riordan Street														
8	T1	1111	1.6	1111	1.6	0.309	0.7	LOS A	0.4	3.1	0.03	0.03	0.03	58.7
9	R2	44	4.5	44	4.5	0.115	6.2	LOS A	0.0	0.3	0.02	0.56	0.02	53.5
Approach		1155	1.7	1155	1.7	0.309	0.9	LOS A	0.4	3.1	0.03	0.05	0.03	58.3
West: Bourke Road														
10	L2	34	11.8	34	11.8	0.035	5.8	LOS A	0.0	0.1	0.02	0.55	0.02	53.8
12	R2	511	7.0	511	7.0	0.470	35.3	LOS C	6.8	50.8	0.68	0.76	0.68	28.3
Approach		545	7.3	545	7.3	0.470	33.5	LOS C	6.8	50.8	0.64	0.74	0.64	29.9
All Vehicles		3159	4.0	3159	4.0	0.474	7.3	LOS A	6.8	50.8	0.14	0.24	0.14	50.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate
P1B	South Slip/Bypass Lane Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P3	North Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
All Pedestrians		150	64.3	LOS F			0.96	0.96

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Ewan St - Ex. AM]

Network: N101 [Network - Ex. AM]

O'Riordan Street & Ewan Street Intersection
Site Category: (None)
Giveway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles veh	m				km/h
South: O'Riordan Street														
1	L2	11	0.0	11	0.0	0.340	5.5	LOS A	0.0	0.0	0.00	0.01	0.00	57.1
2	T1	1945	2.6	1945	2.6	0.340	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.6
Approach		1956	2.6	1956	2.6	0.340	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.6
North: O'Riordan Street														
8	T1	1	0.0	1	0.0	0.000	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		1	0.0	1	0.0	0.000	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Ewan Street														
10	L2	15	0.0	15	0.0	0.024	8.2	LOS A	0.0	0.2	0.54	0.70	0.54	40.9
Approach		15	0.0	15	0.0	0.024	8.2	LOS A	0.0	0.2	0.54	0.70	0.54	40.9
All Vehicles		1972	2.5	1972	2.5	0.340	0.1	NA	0.0	0.2	0.00	0.01	0.00	58.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Ewan St - Ex. PM]

Network: N101 [Network - Ex. PM]

O'Riordan Street & Ewan Street Intersection
Site Category: (None)
Giveway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	9	0.0	9	0.0	0.208	5.5	LOS A	0.0	0.0	0.00	0.01	0.00	57.1
2	T1	1170	5.1	1170	5.1	0.208	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.6
Approach		1179	5.1	1179	5.1	0.208	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.5
North: O'Riordan Street														
8	T1	1	0.0	1	0.0	0.000	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		1	0.0	1	0.0	0.000	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Ewan Street														
10	L2	29	0.0	29	0.0	0.033	6.3	LOS A	0.0	0.3	0.42	0.61	0.42	42.7
Approach		29	0.0	29	0.0	0.033	6.3	LOS A	0.0	0.3	0.42	0.61	0.42	42.7
All Vehicles		1209	5.0	1209	5.0	0.208	0.2	NA	0.0	0.3	0.01	0.02	0.01	57.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Ewan St - Prop. AM]

Network: N101 [Network - Prop. AM]

O'Riordan Street & Ewan Street Intersection
Site Category: (None)
Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	88	0.0	88	0.0	0.558	5.5	LOS A	0.0	0.0	0.00	0.08	0.00	55.9
2	T1	1985	2.5	1985	2.5	0.558	0.0	LOS A	0.0	0.0	0.00	0.02	0.00	57.8
Approach		2073	2.4	2073	2.4	0.558	0.3	NA	0.0	0.0	0.00	0.03	0.00	57.4
North: O'Riordan Street														
8	T1	21	0.0	21	0.0	0.004	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		21	0.0	21	0.0	0.004	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Ewan Street														
10	L2	92	0.0	92	0.0	0.227	7.7	LOS A	0.2	1.3	0.52	0.77	0.52	41.4
Approach		92	0.0	92	0.0	0.227	7.7	LOS A	0.2	1.3	0.52	0.77	0.52	41.4
All Vehicles		2187	2.3	2187	2.3	0.558	0.6	NA	0.2	1.3	0.02	0.06	0.02	54.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Ewan St - Prop. PM]

Network: N101 [Network - Prop. PM]

O'Riordan Street & Ewan Street Intersection
Site Category: (None)
Giveway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles veh	Distance m				km/h
South: O'Riordan Street														
1	L2	88	0.0	88	0.0	0.229	5.5	LOS A	0.0	0.0	0.00	0.12	0.00	55.6
2	T1	1210	5.0	1210	5.0	0.229	0.0	LOS A	0.0	0.0	0.00	0.03	0.00	57.1
Approach		1298	4.6	1298	4.6	0.229	0.4	NA	0.0	0.0	0.00	0.04	0.00	56.6
North: O'Riordan Street														
8	T1	1	0.0	1	0.0	0.000	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		1	0.0	1	0.0	0.000	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Ewan Street														
10	L2	96	0.0	96	0.0	0.103	6.2	LOS A	0.2	1.1	0.41	0.63	0.41	42.8
Approach		96	0.0	96	0.0	0.103	6.2	LOS A	0.2	1.1	0.41	0.63	0.41	42.8
All Vehicles		1396	4.3	1396	4.3	0.229	0.8	NA	0.2	1.1	0.03	0.08	0.03	53.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & King St - Ex. AM]

Network: N101 [Network - Ex. AM]

O'Riordan Street & King Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 121 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	43	0.0	43	0.0	0.724	7.7	LOS A	3.2	23.0	0.15	0.17	0.15	48.7
2	T1	1946	3.1	1946	3.1	0.724	2.1	LOS A	3.2	23.1	0.15	0.14	0.15	48.8
3	R2	109	0.9	109	0.9	0.715	61.7	LOS E	3.9	27.9	0.99	0.80	1.03	22.2
Approach		2098	3.0	2098	3.0	0.724	5.3	LOS A	3.9	27.9	0.19	0.18	0.19	40.4
East: King Street														
4	L2	46	2.2	46	2.2	0.113	44.8	LOS D	1.3	9.4	0.83	0.72	0.83	22.7
5	T1	83	0.0	83	0.0	0.730	48.4	LOS D	10.2	72.2	0.98	0.86	1.02	29.4
6	R2	214	1.4	214	1.4	0.730	53.0	LOS D	10.2	72.2	0.98	0.86	1.02	21.0
Approach		343	1.2	343	1.2	0.730	50.8	LOS D	10.2	72.2	0.96	0.85	1.00	23.8
North: O'Riordan Street														
7	L2	89	3.4	89	3.4	0.699	19.3	LOS B	7.5	55.2	0.71	0.65	0.71	39.8
8	T1	1147	5.7	1147	5.7	0.699	13.7	LOS A	7.6	55.8	0.71	0.62	0.71	28.6
9	R2	1	0.0	1	0.0	0.014	59.6	LOS E	0.0	0.2	0.87	0.60	0.87	23.7
Approach		1237	5.5	1237	5.5	0.699	14.2	LOS A	7.6	55.8	0.71	0.62	0.71	30.3
West: King Street														
10	L2	10	10.0	10	10.0	0.033	49.3	LOS D	0.3	2.3	0.86	0.67	0.86	21.5
11	T1	9	0.0	9	0.0	0.117	45.6	LOS D	1.2	8.2	0.88	0.70	0.88	30.0
12	R2	29	0.0	29	0.0	0.117	50.2	LOS D	1.2	8.2	0.88	0.70	0.88	21.7
Approach		48	2.1	48	2.1	0.117	49.1	LOS D	1.2	8.2	0.87	0.70	0.87	23.7
All Vehicles		3726	3.6	3726	3.6	0.730	13.0	LOS A	10.2	72.2	0.44	0.39	0.45	31.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate	
P1	South Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95	
P2	East Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95	
P3	North Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95	
P4	West Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95	
All Pedestrians		200	54.8	LOS E			0.95	0.95	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & King St - Ex. PM]

Network: N101 [Network - Ex. PM]

O'Riordan Street & King Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 122 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	52	0.0	52	0.0	0.500	15.1	LOS B	4.5	32.6	0.35	0.36	0.35	42.0
2	T1	1082	5.3	1082	5.3	0.500	9.6	LOS A	4.5	32.9	0.35	0.32	0.35	30.0
3	R2	77	0.0	77	0.0	0.723	67.2	LOS E	2.9	20.4	1.00	0.78	1.05	21.2
Approach		1211	4.7	1211	4.7	0.723	13.5	LOS A	4.5	32.9	0.39	0.35	0.40	28.7
East: King Street														
4	L2	158	1.3	158	1.3	0.499	54.7	LOS D	5.3	37.6	0.95	0.80	0.95	20.2
5	T1	26	0.0	26	0.0	0.551	50.6	LOS D	6.0	42.3	0.97	0.81	0.97	28.7
6	R2	150	1.3	150	1.3	0.551	55.2	LOS D	6.0	42.3	0.97	0.81	0.97	20.4
Approach		334	1.2	334	1.2	0.551	54.6	LOS D	6.0	42.3	0.96	0.80	0.96	21.2
North: O'Riordan Street														
7	L2	94	1.1	94	1.1	0.721	13.3	LOS A	7.5	53.7	0.53	0.51	0.53	44.1
8	T1	1526	3.5	1526	3.5	0.721	7.7	LOS A	7.5	54.2	0.53	0.48	0.53	36.9
9	R2	1	0.0	1	0.0	0.004	43.0	LOS D	0.0	0.2	0.72	0.59	0.72	27.9
Approach		1621	3.4	1621	3.4	0.721	8.1	LOS A	7.5	54.2	0.53	0.48	0.53	37.9
West: King Street														
10	L2	57	3.5	57	3.5	0.183	51.5	LOS D	1.8	12.9	0.89	0.74	0.89	21.0
11	T1	38	0.0	38	0.0	0.301	48.0	LOS D	3.2	22.1	0.92	0.75	0.92	29.6
12	R2	60	0.0	60	0.0	0.301	52.6	LOS D	3.2	22.1	0.92	0.75	0.92	21.3
Approach		155	1.3	155	1.3	0.301	51.1	LOS D	3.2	22.1	0.91	0.75	0.91	23.8
All Vehicles		3321	3.6	3321	3.6	0.723	16.7	LOS B	7.5	54.2	0.54	0.48	0.54	29.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped		Distance m	Prop. Queued	Effective Stop Rate
P1	South Full Crossing	50	55.3	LOS E	0.2		0.2	0.95	0.95
P2	East Full Crossing	50	55.3	LOS E	0.2		0.2	0.95	0.95
P3	North Full Crossing	50	55.3	LOS E	0.2		0.2	0.95	0.95
P4	West Full Crossing	50	55.3	LOS E	0.2		0.2	0.95	0.95
All Pedestrians		200	55.3	LOS E				0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & King St - Prop. AM]

Network: N101 [Network - Prop. AM]

O'Riordan Street & King Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 124 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
South: O'Riordan Street														
1	L2	63	0.0	63	0.0	0.906	20.4	LOS B	19.6	140.4	0.75	0.73	0.80	38.6
2	T1	2023	3.0	2023	3.0	0.906	14.8	LOS B	19.6	141.0	0.71	0.69	0.76	23.7
3	R2	129	0.8	129	0.8	0.542	53.3	LOS D	4.2	29.9	0.91	0.78	0.91	24.1
Approach		2215	2.8	2215	2.8	0.906	17.2	LOS B	19.6	141.0	0.72	0.69	0.77	24.7
East: King Street														
4	L2	46	2.2	46	2.2	0.125	48.3	LOS D	1.4	10.0	0.85	0.73	0.85	21.7
5	T1	120	0.0	120	0.0	0.922	70.5	LOS E	14.7	103.6	1.00	1.07	1.36	25.0
6	R2	214	1.4	214	1.4	0.922	75.0	LOS F	14.7	103.6	1.00	1.07	1.36	16.9
Approach		380	1.1	380	1.1	0.922	70.3	LOS E	14.7	103.6	0.98	1.03	1.30	20.5
North: O'Riordan Street														
7	L2	89	3.4	89	3.4	0.736	20.5	LOS B	7.9	57.8	0.77	0.70	0.78	39.1
8	T1	1147	5.7	1147	5.7	0.736	14.9	LOS B	8.0	58.5	0.77	0.67	0.78	27.4
9	R2	81	0.0	81	0.0	0.776	68.8	LOS E	3.2	22.2	1.00	0.79	1.07	21.9
Approach		1317	5.2	1317	5.2	0.776	18.6	LOS B	8.0	58.5	0.78	0.68	0.80	27.7
West: King Street														
10	L2	90	1.1	90	1.1	0.290	53.6	LOS D	3.0	21.0	0.92	0.77	0.92	20.5
11	T1	46	0.0	46	0.0	0.297	49.1	LOS D	3.1	21.9	0.92	0.75	0.92	29.5
12	R2	49	0.0	49	0.0	0.297	53.6	LOS D	3.1	21.9	0.92	0.75	0.92	21.1
Approach		186	0.5	186	0.5	0.297	52.5	LOS D	3.1	21.9	0.92	0.76	0.92	23.5
All Vehicles		4099	3.3	4099	3.3	0.922	24.2	LOS B	19.6	141.0	0.77	0.72	0.83	24.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped		Queue Distance m	Prop. Queued	Effective Stop Rate
P1	South Full Crossing	50	56.3	LOS E	0.2		0.2	0.95	0.95
P2	East Full Crossing	50	56.3	LOS E	0.2		0.2	0.95	0.95
P3	North Full Crossing	50	56.3	LOS E	0.2		0.2	0.95	0.95
P4	West Full Crossing	50	56.3	LOS E	0.2		0.2	0.95	0.95
All Pedestrians		200	56.3	LOS E				0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & King St - Prop. PM]

Network: N101 [Network - Prop. PM]

O'Riordan Street & King Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 140 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles veh	m				km/h
South: O'Riordan Street														
1	L2	72	0.0	72	0.0	0.512	14.2	LOS A	4.6	33.6	0.30	0.34	0.30	42.5
2	T1	1149	5.0	1149	5.0	0.512	8.6	LOS A	4.7	33.9	0.30	0.28	0.30	31.4
3	R2	97	0.0	97	0.0	0.665	70.3	LOS E	4.0	28.1	0.98	0.79	1.00	20.6
Approach		1319	4.3	1319	4.3	0.665	13.5	LOS A	4.7	33.9	0.35	0.32	0.35	29.3
East: King Street														
4	L2	158	1.3	158	1.3	0.523	62.9	LOS E	6.1	43.4	0.96	0.81	0.96	18.6
5	T1	59	0.0	59	0.0	0.681	60.5	LOS E	8.4	59.4	1.00	0.84	1.01	26.8
6	R2	150	1.3	150	1.3	0.681	65.1	LOS E	8.4	59.4	1.00	0.84	1.01	18.5
Approach		367	1.1	367	1.1	0.681	63.4	LOS E	8.4	59.4	0.98	0.82	0.99	20.3
North: O'Riordan Street														
7	L2	94	1.1	94	1.1	0.685	12.1	LOS A	6.6	47.6	0.43	0.44	0.43	45.0
8	T1	1526	3.5	1526	3.5	0.685	6.6	LOS A	6.7	48.1	0.43	0.39	0.43	39.1
9	R2	77	0.0	77	0.0	0.283	47.9	LOS D	2.5	17.3	0.76	0.74	0.76	26.5
Approach		1697	3.2	1697	3.2	0.685	8.7	LOS A	6.7	48.1	0.44	0.41	0.44	37.6
West: King Street														
10	L2	142	1.4	142	1.4	0.471	62.4	LOS E	5.5	38.7	0.95	0.80	0.95	18.7
11	T1	74	0.0	74	0.0	0.492	57.9	LOS E	5.9	41.4	0.96	0.79	0.96	27.5
12	R2	80	0.0	80	0.0	0.492	62.5	LOS E	5.9	41.4	0.96	0.79	0.96	19.2
Approach		296	0.7	296	0.7	0.492	61.3	LOS E	5.9	41.4	0.96	0.79	0.96	21.5
All Vehicles		3679	3.2	3679	3.2	0.685	20.1	LOS B	8.4	59.4	0.50	0.45	0.50	27.7

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Distance	Prop. Queued	Effective Stop Rate	
		ped/h	sec		Pedestrian ped	m			
P1	South Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96	
P2	East Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96	
P3	North Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96	
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96	
All Pedestrians		200	64.3	LOS F			0.96	0.96	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Robey St - Ex. AM]

Network: N101 [Network - Ex. AM]

O'Riordan Street & Robey Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 121 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
East: Robey Street														
4	L2	157	0.6	157	0.6	0.467	63.2	LOS E	2.8	19.8	0.99	0.77	0.99	27.7
Approach		157	0.6	157	0.6	0.467	63.2	LOS E	2.8	19.8	0.99	0.77	0.99	27.7
North: O'Riordan Street														
7	L2	28	0.0	28	0.0	0.029	6.2	LOS A	0.0	0.1	0.02	0.55	0.02	45.4
8	T1	1171	5.2	1171	5.2	0.303	0.7	LOS A	0.3	2.2	0.03	0.03	0.03	58.8
Approach		1199	5.1	1199	5.1	0.303	0.9	LOS A	0.3	2.2	0.03	0.04	0.03	58.4
West: Robey Street														
10	L2	2087	2.7	2087	2.7	0.462	6.0	LOS A	0.9	6.4	0.04	0.54	0.04	50.5
11	T1	161	0.6	161	0.6	0.304	24.7	LOS B	3.2	22.3	0.58	0.56	0.58	40.1
12	R2	27	0.0	27	0.0	0.053	27.3	LOS B	0.5	3.2	0.49	0.69	0.49	40.2
Approach		2275	2.5	2275	2.5	0.462	7.6	LOS A	3.2	22.3	0.08	0.55	0.08	48.7
All Vehicles		3631	3.3	3631	3.3	0.467	7.8	LOS A	3.2	22.3	0.10	0.39	0.10	48.7

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian Distance m		Prop. Queued	Effective Stop Rate
P2	East Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P3B	North Slip/Bypass Lane Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
P4B	West Slip/Bypass Lane Crossing	50	54.8	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		250	54.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Robey St - Ex. PM]

Network: N101 [Network - Ex. PM]

O'Riordan Street & Robey Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 122 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
East: Robey Street														
4	L2	244	0.0	244	0.0	0.401	54.5	LOS D	4.1	28.4	0.94	0.78	0.94	29.6
Approach		244	0.0	244	0.0	0.401	54.5	LOS D	4.1	28.4	0.94	0.78	0.94	29.6
North: O'Riordan Street														
7	L2	73	83.6	73	83.6	0.114	6.4	LOS A	0.1	0.7	0.02	0.52	0.02	43.9
8	T1	1676	3.0	1676	3.0	0.399	0.7	LOS A	0.5	3.5	0.04	0.03	0.04	58.8
Approach		1749	6.4	1749	6.4	0.399	1.0	LOS A	0.5	3.5	0.03	0.05	0.03	58.0
West: Robey Street														
10	L2	1163	5.7	1163	5.7	0.288	6.1	LOS A	0.4	2.8	0.03	0.54	0.03	50.5
11	T1	128	0.0	128	0.0	0.400	41.4	LOS C	3.7	25.7	0.81	0.69	0.81	34.0
12	R2	30	0.0	30	0.0	0.099	43.4	LOS D	0.8	5.4	0.72	0.71	0.72	34.1
Approach		1321	5.0	1321	5.0	0.400	10.3	LOS A	3.7	25.7	0.12	0.56	0.12	45.9
All Vehicles		3314	5.4	3314	5.4	0.401	8.7	LOS A	4.1	28.4	0.14	0.31	0.14	47.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue		Prop. Queued	Effective Stop Rate
					Pedestrian ped	Distance m		
P2	East Full Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P3B	North Slip/Bypass Lane Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
P4B	West Slip/Bypass Lane Crossing	50	55.3	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		250	55.3	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Robey St - Prop. AM]

Network: N101 [Network - Prop. AM]

O'Riordan Street & Robey Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 124 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
East: Robey Street														
4	L2	157	0.6	157	0.6	0.479	64.9	LOS E	2.9	20.3	0.99	0.77	0.99	27.3
Approach		157	0.6	157	0.6	0.479	64.9	LOS E	2.9	20.3	0.99	0.77	0.99	27.3
North: O'Riordan Street														
7	L2	28	0.0	28	0.0	0.029	6.2	LOS A	0.0	0.1	0.02	0.55	0.02	45.4
8	T1	1191	5.1	1191	5.1	0.306	0.8	LOS A	0.3	2.3	0.03	0.03	0.03	58.8
Approach		1219	5.0	1219	5.0	0.306	0.9	LOS A	0.3	2.3	0.03	0.04	0.03	58.4
West: Robey Street														
10	L2	2204	2.6	2204	2.6	0.485	6.0	LOS A	1.0	7.3	0.04	0.54	0.04	50.5
11	T1	161	0.6	161	0.6	0.302	25.1	LOS B	3.2	22.7	0.57	0.55	0.57	39.9
12	R2	27	0.0	27	0.0	0.053	27.6	LOS B	0.5	3.2	0.48	0.69	0.48	40.0
Approach		2392	2.4	2392	2.4	0.485	7.5	LOS A	3.2	22.7	0.08	0.55	0.08	48.7
All Vehicles		3768	3.2	3768	3.2	0.485	7.8	LOS A	3.2	22.7	0.10	0.39	0.10	48.7

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate
P2	East Full Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P3B	North Slip/Bypass Lane Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
P4B	West Slip/Bypass Lane Crossing	50	56.3	LOS E	0.2	0.2	0.95	0.95
All Pedestrians		250	56.3	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 101 [O'Riordan St & Robey St - Prop. PM]

Network: N101 [Network - Prop. PM]

O'Riordan Street & Robey Street Intersection
Site Category: (None)
Signals - Fixed Time Coordinated Cycle Time = 140 seconds (Network Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
East: Robey Street														
4	L2	244	0.0	244	0.0	0.400	61.5	LOS E	4.6	32.3	0.94	0.79	0.94	28.1
Approach		244	0.0	244	0.0	0.400	61.5	LOS E	4.6	32.3	0.94	0.79	0.94	28.1
North: O'Riordan Street														
7	L2	73	83.6	73	83.6	0.111	6.5	LOS A	0.1	0.8	0.02	0.52	0.02	43.8
8	T1	1696	3.0	1696	3.0	0.393	0.8	LOS A	0.6	4.1	0.03	0.03	0.03	58.7
Approach		1769	6.3	1769	6.3	0.393	1.1	LOS A	0.6	4.1	0.03	0.05	0.03	57.9
West: Robey Street														
10	L2	1271	5.2	1271	5.2	0.309	6.1	LOS A	0.5	3.6	0.03	0.54	0.03	50.4
11	T1	128	0.0	128	0.0	0.400	47.0	LOS D	4.2	29.3	0.81	0.69	0.81	32.3
12	R2	30	0.0	30	0.0	0.098	48.7	LOS D	0.9	6.1	0.72	0.71	0.72	32.5
Approach		1429	4.6	1429	4.6	0.400	10.7	LOS A	4.2	29.3	0.12	0.55	0.12	45.5
All Vehicles		3442	5.2	3442	5.2	0.400	9.3	LOS A	4.6	32.3	0.13	0.31	0.13	47.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians								
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian Distance m		Prop. Queued	Effective Stop Rate
P2	East Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P3	North Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P3B	North Slip/Bypass Lane Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P4B	West Slip/Bypass Lane Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
All Pedestrians		250	64.3	LOS F			0.96	0.96

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.