

UPDATED TRAFFIC IMPACT ASSESSMENT

Proposed Redevelopment of Bexley Bowling Club

72 Laycock Street, Bexley North

Prepared for: Order of AHEPA NSW Inc. Reference: 0143r03v01 Date: 6/04/2020

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1. Introduction

1.1. Overview

PDC Consultants has been commissioned by Order of AHEPA NSW Inc. to undertake a traffic impact assessment of a Development Application (DA) relating to the proposed redevelopment of Bexley Bowling Club (the Club) at 72 Laycock Street, Bexley North. Specifically, the DA seeks consent for the redevelopment of the Club with the following characteristics:

• Demolition of the existing building located at the south-western corner of the site and construction of a new two (2) storey building comprising:

<u>Ground Floor</u>

- 300m² community facilities area;
- 177.5m² bar/dining area associated with the bowling club;
- Ancillary areas such as bathrooms; changerooms, reception, kitchen and storage rooms.

Level 1

- 219m² multi-purpose indoor area;
- 56m² multi-purpose outdoor area;
- Ancillary areas such as offices, library / cultural museum, audio visual room, bathrooms and storage.
- Retention of one (1) of three (3) existing bowling greens;
- At-grade and lower ground floor parking accommodating a total of 95 car spaces, including:
 - 72 standard car spaces;
 - 23 car spaces within an overflow section of the car park;
- A single on-site loading bay suitable for trucks up to an 8.8 metre Medium Rigid Vehicle (MRV);
- Relocation of the existing bus stop along the Edward Street frontage. This shall be relocated approximately 40 metres to the west of its current location;
- Two (2) access driveways including a 6.1 metre driveway onto Edward Street serving the car park and a 3.6 metre driveway onto Laycock Street serving the on-site loading bay.

Having regard for the above, it is evident that development is not of a scale that requires referral of the DA to the Roads and Maritime Services (RMS), under the provisions of the State Environmental Planning Policy (Infrastructure) 2007.



The site is located in the newly formed Bayside Council local government area (LGA) however, a consolidated Development Control Plan (DCP) for the Bayside Council LGA is yet to be announced or adopted. The proposed development has therefore been assessed in accordance with the Rockdale Development Control Plan 2011 and Local Environmental Plan 2011.

1.2. Background

A Traffic Impact Assessment report (ref: 0143r02v01) was prepared by PDC Consultants for the redevelopment of the Club and formed part of a DA submission to Council under DA 2019 / 286. Subsequently, Council's Coordinator - Development Assessment issued a letter (Council's Letter) dated 27/09/2019 requesting for additional information for a number of aspects of the development including, traffic and parking. In this regard, this report has been prepared to address the traffic and parking concerns raised in Council's Letter. Table 1 below lists each of the traffic and parking items as outlined in Council's Letter and shows where each of these items have been addressed in this report.

	COUNCIL COMMENTS	RELEVANT SECTION OF THIS REPORT
Des	ign and Use Issues with the Proposed Development	
1.	<u>Design</u> : The design approach for the site does not have due regard for the streetscape or impact upon adjoining properties. The following particular concerns with the design are noted.:	
	• The location of the loading bay and waste storage immediately adjoining the dwelling at 70 Laycock Street and the need to reverse into the space is poor design given the size of the site and will likely detrimentally impact the property by way of noise impacts. The location of the loading bay appears to prevent it being used to service the potential Stage 2 multi-purpose hall.	Section 4.5
	• The accessible parking spaces are located an unreasonable distance from the lift / entrance to the building and bowling club and are not undercover.	Section 4.2
3.	Intensification of Use: The approval of a large registered club (identified as having a 630 person capacity) in an area surrounded by residential properties and with poor connections (particularly late at night) to public transport is inappropriate.	Section 4.6
Ade	equacy of Information	
7.	Staging: The application indicates it is providing car parking for 103 cars whilst the use requires a maximum of 47 parking spaces under the DCP according to the traffic report submitted with the application. The additional parking spaces are claimed to be provided for a potential Stage 2 development on the site of a multi-purpose hall (adjoining 69 Oliver Street). No information is provided of the hall other than the traffic report it would likely be 1,200-1,500m ² , and	Section 4.1 Note: Reference is no longer made to any Stage 2 development. All car parking is solely associated
	there is no guarantee that the second stage would occur.	with the Club, as presented in this DA.
	It is inappropriate to provide parking for a use that may never be constructed. The future use of the entire and a 'master plan' or 'concept DA' created prior to, or with, the assessment of the current application to allow consideration of the likely cumulative impact of the development of the site as a whole in relation to shadowing, noise, traffic, parking and the like.	
13.	The traffic report calculation of parking based on 1 space per 40m ² for a community facility is not appropriate as it does not represent the actual parking demand for such an intense use.	Section 4.1

Table 1: Council Comments and Reference to the Relevant Section of this Report



1.3. Structure of this Report

This report documents the findings of our investigations in relation to the anticipated traffic and parking impacts of the proposed development and should be read in the context of the Statement of Environmental Effects (SEE), prepared separately by Planning Ingenuity. The remainder of this report is structured as follows:

- Section 2: Describes the site and existing traffic and parking conditions in the locality;
- Section 3: Describes the proposed development;
- Section 4: Assesses the parking requirements of the development;
- Section 5: Assesses the traffic impacts of the development;
- Section 6: Discusses the proposed access and internal design arrangements;
- Section 7: Presents the overall study conclusions.

1.4. References

In preparing this report, reference has been made to the following guidelines / standards:

- Rockdale Local Environmental Plan 2011 (Rockdale LEP 2011);
- Rockdale Development Control Plan 2011 (Rockdale DCP 2011);
- State Environmental Planning Policy (Infrastructure) 2007 (SEPP Infrastructure 2007);
- Disability (Access to Premises Buildings) Standards 2010 (Disability Standard 2010);
- Australian Standard AS 2890.1-2004, Part 1: Off-Street Car Parking (AS 2890.1);
- Australian Standard AS 2890.2-2018, Part 2: Off-Street Commercial Vehicle Facilities (AS 2890.2)
- Australian Standard AS 2890.3-2015, Part 3: Bicycle Parking (AS 2890.3)
- Australian Standard AS 2890.6-2009, Part 6: Off-Street Parking for People with Disabilities (AS 2890.6);
- RMS Guide to Traffic Generating Development 2002 (RMS Guide);
- RMS Technical Direction TDT 2013/04a Guide to Traffic Generating Developments, Updated Traffic Surveys (RMS Guide Update).



2. Existing Conditions

2.1. Location and Site

The subject site is located at 72 Laycock Street, Bexley North, being approximately 700 metres south-west of Bexley North Railway Station and 12 kilometres south-west of the Sydney CBD. More specifically, it is bound by Edward Street to the north, Laycock Street to the west and Oliver Street to the east.

The site is irregular in configuration with a total area of approximately 7,300m². It has three (3) street frontages being, Edward Street to the north having a length of 85 metres, Oliver Street to the east having a length of 93 metres and Laycock Street to the west having a length of 78 metres. The southern boundary borders neighbouring residential dwellings, having a length of 101 metres.

As shown by **Figure 1** overleaf, the site currently accommodates the Bexley Bowling Club building on Quadrant 1 and three bowling greens across Quadrants 2-4. Vehicle access is provided via a 5.0 metre wide driveway onto Laycock Street, within Quadrant 1 which serves an internal hardstand area however no on-site car parking is provided for the existing club. Additionally, it is noted the existing Bexley Bowling Club is not currently operating (i.e. the Club is permanently closed).

Figures 1 and 2 overleaf provide an appreciation of the site's location in both a local and broad context respectively.

2.2. Road Network

The road hierarchy in the vicinity of the site is shown by Figure 2, with the following roads considered noteworthy:

- South Western Motorway: a major arterial road, F5 South Western Freeway that is typically identified as the M5 Motorway. The M5 Motorway runs in an east-west direction between Kyeemagh in the east and Prestons in the west, providing a direct connection between the south-western suburbs of Sydney and the Sydney CBD. Near the site, the M5 Motorway is subject to 100km/h speed zoning restrictions and accommodates 3 lanes of traffic in both directions.
- Edward Street: a local road that runs in an east-west direction intersecting New Illawarra Road in the east and Kingsgrove Road in the west. It is generally subject to 50km/h speed zoning restrictions however, 40km/h School Zone restrictions apply between the hours of 8:00-9:30am and 2:30-4:00pm on school days only. Edward Street accommodates a single lane of traffic in each direction within a 12 metre wide carriageway. Unrestricted parallel parking is permitted along both kerbsides.
- Laycock Street: a local road that runs in a north-south direction intersecting Edward Street in the north and Stoney Creek Road in the south. It is subject to 50km/h speed zoning restrictions and carries a single lane of traffic in each direction within a 12 metre wide carriageway. Unrestricted parallel parking is permitted along both kerbsides.
- Oliver Street: a local road that runs in a north-south direction intersecting East Drive and West Drive in the north and Stoney Creek Road in the south. It is subject to 50km/h speed zoning restrictions



and carries a single lane of traffic in each direction within a 12 metre wide carriageway. Unrestricted parallel parking is permitted along both kerbsides.



Figure 1: Site Plan



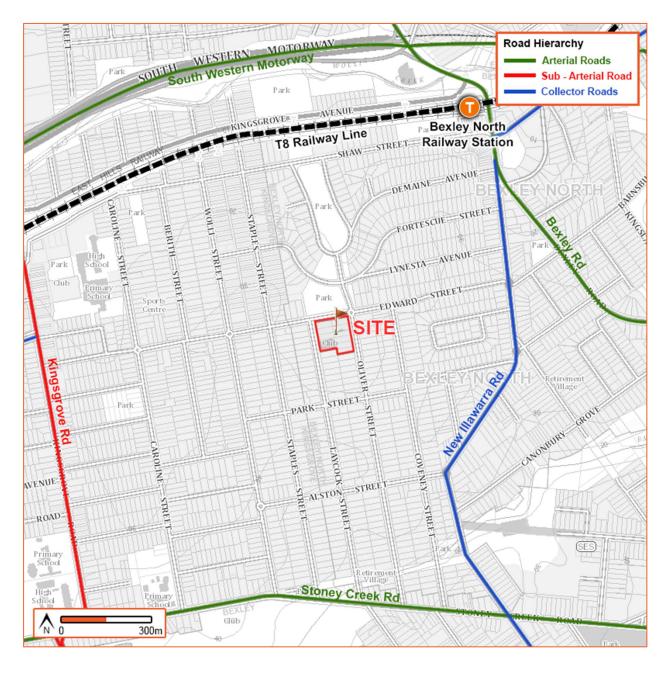


Figure 2: Location & Road Hierarchy Plan



2.3. Public & Active Transport

2.3.1. Bus Services

The Integrated Public Transport Service Planning Guidelines, Sydney Metropolitan Area, states that the walking catchment for metropolitan bus services includes all areas within a 400 metre radius of a bus stop. As can be seen from **Figure 3**, the site is located to the immediate south of bus stops provided on Edward Street and hence, falls well within the walking catchment area. Additional bus routes are also available within 800 metres from the site as shown by **Figure 3**. Accordingly, staff and patrons will have convenient access to public bus services for journeys to / from the site.

Table 2 below shows the notable town centres that are accessible via the abovementioned bus services and the average service headways during peak and off-peak periods.

ROUTE NO.	ROUTE (TO / FROM)	ROUTE DECRIPTION	AVERAGE HEADWAY
410	410 Hurstville to Macquarie Park Via Burwood, Concord, Concord West, Rhodes, Ryde & North Ryde		Weekdays: 10 minutes peak / 15 minutes off peak Weekends: 20 minutes
446	446		Weekdays: 30 minutes Weekends: 1 hour
455	455 Kingsgrove to St George Hospital, Kogarah Via Hurstville, Carlton & Bexley		Weekdays: 30 minutes Weekends: 40 minutes on Saturdays & 1 hour on Sundays
491	Hurstville to Five Dock	Via Bexley, Kingsgrove, Bexley North, Earlwood, Canterbury & Ashfield	Weekdays: 30 minutes Weekends: 30 minutes on Saturdays & 1 hour on Sundays
492	Drummoyne to Rockdale	Via Bexley, Kingsgrove, Belmore, Campsie, Croydon Park & Five Dock	Weekdays: 10-20 minutes peak / 30 minutes off peak Weekends: 30 minutes
493	Roselands to Rockdale	Via Beverly Hills, Kingsgrove & Bexley North	Weekdays: 1 hour between 9:30am- 2:20pm Weekends: No services
N20	Riverwood to City Town Hall	Night-ride service	Weekdays: 1 hour between 1am-5am Weekends: 1 hour between 1am-5am

Table 2: Bus Services

2.3.2. Rail Services

The Integrated Public Transport Service Planning Guidelines, Sydney Metropolitan Area, states that the walking catchment for metropolitan railway stations includes all areas within an 800 metre radius of a station. It can be seen from **Figure 3** that Bexley North Railway Station is located approximately 700 metres north-east of the site and



hence, falls within the typical walking catchment area. Accordingly, staff and patrons of the proposed development would be able to readily access the Sydney rail network, as shown by **Figure 4**.

Bexley North Railway Station is serviced by a single railway line, being the T8 Airport and South Line. The T8 Railway Line generally runs in an east-west direction between Campbelltown / Macarthur and the Sydney CBD. **Table 3** below shows the notable town centres that are accessible along the T8 Railway Line and the average service headways during peak and off-peak periods.

Table 3: Rail Services

RAILWAY LINE	NOTABLE TOWN CENTRES ALONG LINE	AVERAGE HEADWAY
T8 Airport & South Line	Macarthur, Campbelltown, Revesby, Wolli Creek, Domestic Airport, International Airport & Sydney CBD	Weekdays: 3-7 minutes peak / 7-8 minutes off peak Weekends: 4-11 minutes

2.3.3. Cycle Network

Figure 3 shows the site has good access to the local bicycle network with an on-road cycle path provided along Edward Street, which provides a connection to the wider cycle path network. A number of additional on-road and off-road paths are also accessible to the north and south-east of the site as shown by **Figure 3**.

2.4. Existing Traffic Generation

At the time this report was prepared, the existing Club was not in operation and therefore does not generate any traffic.



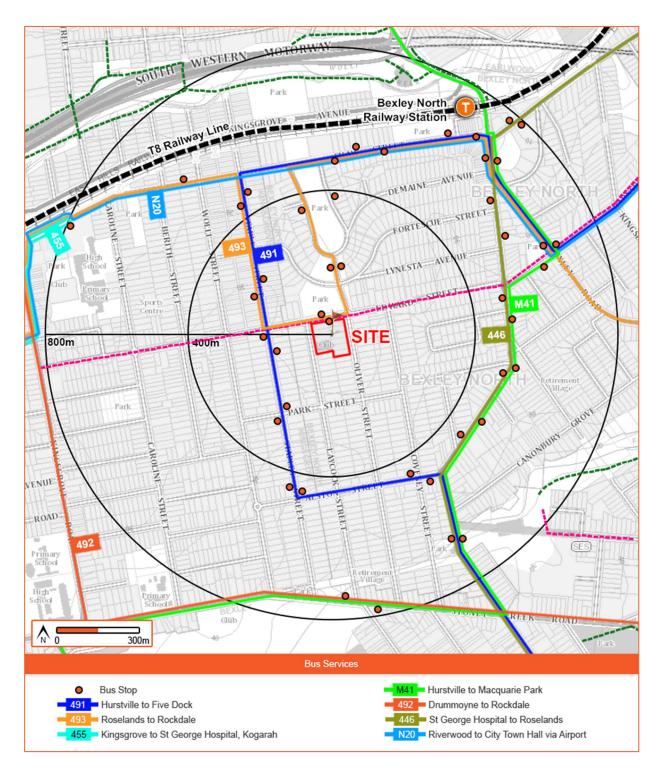


Figure 3: Public & Active Transport Services





Figure 4: Sydney Trains Rail Network – Suburban



2.5. Existing Intersection Performance

Traffic surveys were undertaken of two (2) key intersections within the vicinity of the site. These surveys were undertaken on Friday, 17/05/2019, between the hours of 6-8pm and Saturday, 18/05/2019 between the hours of 2-4pm, with these periods generally coinciding with the expected peak periods of the proposed development, as advised by the client. The raw survey data is included in **Appendix A** for reference, and the intersections surveyed are as follows:

- Edward Street / Laycock Street;
- Edward Street / Oliver Street.

The results of the surveys were used to develop existing (base-case) SIDRA models of the above key intersections for the Friday evening and Saturday afternoon peak periods discussed above. The base models were calibrated and validated against intersection queue lengths, as was observed during separate site inspections undertaken on a Friday evening and Saturday afternoon.

SIDRA modelling outputs a range of performance measures, in particular:

- Degree of Saturation (DOS) The DOS is used to measure the performance of intersections where a value of 1.0 represents an intersection at theoretical capacity. As the performance of an intersection approaches DOS of 1.0, queue lengths and delays increase rapidly. It is usual to attempt to keep DOS to less than 0.9, with satisfactory intersection operation generally achieved with a DOS below 0.8.
- Average Vehicle Delay (AVD) The AVD (or average delay per vehicle in seconds) for intersections also
 provides a measure of the operational performance of an intersection and is used to determine an
 intersection's Level of Service (see below). For signalised intersections, the AVD reported relates to the
 average of all vehicle movements through the intersection. For Give Way, Stop & Roundabout controlled
 intersections, the AVD reported is that for the movement with the highest AVD.
- Level of Service (LOS) This is a comparative measure that provides an indication of the operating performance, based on AVD.

Table 4 overleaf provides a recommended baseline for assessment of intersection performance as per the RMSGuide.



LEVEL OF SERVICE	AVERAGE DELAY PER VEHICLE (seconds/vehicle)	TRAFFIC SIGNALS AND ROUNDABOUTS	GIVE WAY AND STOP SIGNS	
A	Less than 14	Good operation	Good operation	
В	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity	
С	29 to 42	Satisfactory	Satisfactory, but accident study required	
D	43 to 56	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, requires other control mode	
F	More than 70	Unsatisfactory and requires additional capacity	Unsatisfactory and requires other control mode or major treatment	

Table 4: Intersection Performance Criteria

A summary of the modelling results for the existing (base-case) models is provided in **Table 5** below. Reference should also be made to the detailed SIDRA outputs provided in **Appendix B** which provide additional information regarding intersection performance.

Table 5: Summary of SIDRA	Modelling Results - Existing
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INTERSECTION	SCENARIO	PERIOD	DOS	AVD (seconds)	LOS
Edward Street / Laycock	Evisting	Friday Evening	0.018	5.3	A
Street ¹	Existing	Saturday Afternoon	0.016	5.2	A
Edward Street / Oliver	/ Oliver Existing	Friday Evening	0.035	7.8	A
Street ¹	EXISTILI	Saturday Afternoon	0.032	7.7	A

¹: Results shown are for the movement with the highest delay in accordance with the RMS Guide.

From **Table 5** above, it is evident that both the Edward Street / Laycock Street and Edward Street / Oliver Street intersections operate very well with low DOS, minimal AVD and Level of Service A during both the Friday evening and Saturday afternoon peak periods.

These results represent the existing (base-case) performance of the key intersections during the Friday evening and Saturday afternoon peak periods for the Club. Nevertheless, it is important to note that the most relevant use of these results is to compare the relative change in performance as a result of the proposed development as is discussed in Section 5.



3. Proposed Development

3.1. Overview

A detailed description of the proposed development for which approval is now sought, is outlined in the Statement of Environmental Effects prepared separately by Planning Ingenuity. Specifically, the DA seeks consent for the following:

• Demolition of the existing building located at the south-western corner of the site and construction of a new two (2) storey building comprising:

Ground Floor

- 300m² community facilities area;
- 177.5m² bar/dining area associated with the bowling club;
- Ancillary areas such as bathrooms; changerooms, reception, kitchen and storage rooms.

Level 1

- 219m² multi-purpose indoor area;
- 56m² multi-purpose outdoor area;
- Ancillary areas such as offices, library / cultural museum, audio visual room, bathrooms and storage.
- Retention of one (1) of three (3) existing bowling greens;
- At-grade and lower ground floor parking accommodating a total of 95 car spaces, including:
 - 72 standard car spaces;
 - 23 car spaces within an overflow section of the car park;
- A single on-site loading bay suitable for trucks up to an 8.8 metre Medium Rigid Vehicle (MRV);
- Relocation of the existing bus stop along the Edward Street frontage. This shall be relocated approximately 40 metres to the west of its current location;
- Two (2) access driveways including a 6.1 metre driveway onto Edward Street serving the car park and a 3.6 metre driveway onto Laycock Street serving the on-site loading bay.

The parking and traffic implications arising from the proposed development are discussed in Sections 4 and 5 respectively. A copy of the relevant architectural drawings, prepared by Katris Architects, are also included in **Appendix C**.



Additionally, correspondence with Transport for New South Wales (TfNSW) was undertaken to discuss the potential to relocate the subject bus stop, west of the proposed driveway. The email correspondence included as **Appendix D** details that TfNSW has no issues regarding the relocation based on their initial review. However, a detailed assessment would be required to be undertaken by Council and the bus operator.

3.2. Patronage Numbers

With reference to the Plan of Management, prepared separately by Planning Ingenuity, the proposed total staff / patronage numbers to be on-site at any one time are expected to be as follows:

3.2.1. Regular Operational Capacity

- Monday to Sunday, 9am-6pm: 200 persons;
- Sunday to Thursday, 6pm-11pm: 225 persons; and
- Friday to Saturday, 6pm-1am: 240 persons.

3.2.2. Capacity During Special Events & Functions

Given the nature of the development, it is anticipated that special events and functions will be held by the Club. In this regard, it is acknowledged that up to a total of 445 persons may be on-site at any one time. These events / functions however, will only be held occasionally throughout the year (and predominantly on Friday, Saturday and Sunday) approximately 15% of the time. Under regular operation being approximately 85% of the time, the Club will accommodate persons up to a maximum of 240 persons (Friday to Saturday, 6pm-1am)



4. Parking Requirements

4.1. Car Parking

4.1.1. Parking Requirements of the Existing / Historical Development

Whilst the existing Bexley Bowling Club does not currently operate, it is considered appropriate that the historical parking demands of the development be taken into consideration. This is particularly relevant noting that the existing development does not provide any on-site car parking, requiring all parking demands to be accommodated on-street.

The Rockdale DCP 2011 does not stipulate a car parking rate for bowling clubs and accordingly, the parking requirements of the existing development have been assessed in accordance with the RMS Guide. The RMS Guide recommends application of the following parking rates for bowling greens / clubs:

- 30 spaces for the first green; plus
- 15 spaces for each additional green.

The existing development is comprised of three (3) bowling greens and a club building, requiring a total of 60 car parking spaces under the RMS Guide. As discussed above, the existing development does not provide any on-site parking and accordingly, the demand for all 60 car parking spaces would need to be accommodated on-street.

4.1.2. Parking Requirements Under the Rockdale Development Control Plan 2011

The Rockdale DCP 2011 does not stipulate a parking rate for bowling greens / clubs. It does however stipulate the following:

"Where a parking rate has not been specified in the table, the RMS Guide shall be used to calculate the parking requirements for the proposed development".

In accordance with the above, the RMS bowling green rates have been applied to assess the parking requirements associated with the bowling green and 177.5m² club floor space.

The remaining floor space of the building shall accommodate a combination of restaurant, community / multipurpose uses, and recreational / amusement uses such as billiards tables. With this in mind, it is considered appropriate to adopt a car parking rate of 1.0 space / 40m² GFA in accordance with the Rockdale DCP 2011 for the remaining floor space of the development proposal.

Table 6 overleaf shows the minimum car parking requirements under the applicable parking rates and the proposed provision in response.



Table 6: Car Parking Requirement & Provision

ТҮРЕ	NO.	DCP / RMS PARKING RATE	MINIMUM REQUIREMENT	PROPOSED PROVISION	
Bowling Green	1	30 spaces for 1 st green plus 15 spaces for each additional green	30		
Multi-Purpose / Community Facility ¹	575m ²	1.0 space / 40m ²	15	95	
		TOTAL	45	95	

¹ Note: 575m² comprises 300m² of community floor space on Ground Floor and 275m² of multi-purpose floor space on Level 1.

It is evident from **Table 6** above that the proposal requires a minimum of 45 car parking spaces under application of both the Rockdale DCP 2011 and RMS Guide. In response, the proposal provides 95 car spaces and therefore satisfies the minimum requirements of both policies, and will ensure that all parking demands are wholly accommodated on-site with no reliance on on-street parking.

4.1.3. Parking Requirements Based on Historical Surveys

As an additional check, reference was made to recent travel mode questionnaire surveys undertaken by PDC Consultants of Canada Bay Club (CBC) located at 4 William Street & 13 Bevin Avenue, Five Dock. The surveys were undertaken to gain an understanding of the travel mode characteristics of CBC patrons and were conducted on Friday, 13/10/2017, and Saturday 21/10/2017, between the hours of 6-11pm. In summary, the survey results confirmed the following patron travel mode traits of CBC:

- 88% of CBC patrons utilised private vehicles for journeys to / from the Club (i.e. car driver, car passenger and car passenger who was dropped off);
- The remaining 12% of patrons utilised alternative forms of transport including, public transport, taxis and other;
- An average car occupancy rate of 2.46 persons / car was reported.

It is acknowledged that whilst the Club will comprise of a bowling green and multi-purpose / community facility floor space, it is considered that it would be comparable with CBC and display similar travel mode characteristics for the following reasons:

- The Club will operate as a 'licenced premises' and will serve alcoholic beverages;
- The Club will operate with late hours of operation of up till 1am (Friday and Saturday);
- Similar to CBC, the Club will hold functions / events including, lunches, birthdays etc.
- The CBC has limited public and active transport connections being, 2.0 kilometres from the nearest railway station compared to the Club being approximately 700 metres south-west of Bexley North Railway Station.

Having regard for the above, the expected car parking demand of the Club based on historical surveys can be determined as shown by **Table 7** overleaf.



Table 7: Expected Parking Demand of Bexley Bowling Club Based on Comparable / Historical Survey Data

TYPE	NO. ON-SITE AT ANY ONE TIME	% BY CAR	PARKING RATE	EXPECTED PARKING DEMAND
Patrons	240 ¹	88%	1.0 space / 2.46 persons	86
			TOTAL	95

¹ Note: Based on maximum regular operating capacity of 240 persons.

It is evident from **Table 7** above that the Club is expected to generate a parking demand for 86 car spaces based on the survey results of CBC. As previously mentioned, the development provides 95 car spaces and therefore exceeds the minimum car parking requirement based on this assessment and will ensure that all parking demands are wholly accommodated on-site with no reliance on on-street parking.

It is acknowledged that during special events / functions held by the Club, it is expected that the proposed car parking provision would not be able to accommodate all parking demands on-site and therefore, some reliance on available on-street parking near the vicinity of the site is required. As previously mentioned in Section 3.2.2, special events / functions will only be held approximately 15% of the time during a typical year, with the remaining 85% to operate under regular capacity of up to a maximum of 240 persons. In this regard, the proposed car parking provision of 95 spaces is considered to be acceptable, being consistent with the guidelines recommended in the RMS Guide which stipulate a development should accommodate the 85th percentile of car parking demand on-site. The reliance on on-street car parking is therefore considered to be acceptable noting the infrequent occurrence of these special events / functions.

4.2. Accessible Car Parking

Consultation with the Applicant's access consultant has confirmed that the development is required to provide a minimum of two (2) accessible car parking spaces. In response, the development provides three (3) accessible car parking spaces in accordance with the access consultants requirements, and this is considered an acceptable level of provision.

It is noted the three (3) accessible car spaces are provided undercover and reflected on the architectural drawings provided as **Appendix C.**

4.3. Motorcycle Parking

The Rockdale DCP 2011 stipulates a minimum motorcycle parking rate of 1.0 space / 20 car spaces and accordingly, the proposal is required to provide 5 motorcycle spaces. In response, the development provides 5 motorcycle spaces, thereby satisfying the minimum requirement of the Rockdale DCP 2011. The proposed motorcycle parking provision is therefore considered acceptable.



4.4. Bicycle Parking

The Rockdale DCP 2011 stipulates a minimum bicycle parking rate of 1.0 space / 200m² GFA for 'retail and commercial' uses. Application of this rate to the proposal, results in a requirement for 3 bicycle spaces under the Rockdale DCP 2011. In response, the development provides 9 bicycle spaces, thereby satisfying the minimum requirement of the Rockdale DCP 2011. The proposed bicycle parking provision is therefore considered acceptable.

4.5. Service Vehicle Parking

Neither of the Rockdale DCP 2011 or RMS Guide policies stipulate a service vehicle parking rate for bowling clubs. Nevertheless, the development provides a single loading bay located at the south-western corner of the site, and this has been designed to accommodate service vehicles up to and including an 8.8 metre MRV. This level of provision is considered acceptable noting that the development would generate a minimal demand for service vehicle parking with only 1-2 deliveries expected per day.

Trucks will be required to reverse into the loading bay from Laycock Street, and depart from the loading bay in a forward direction onto Laycock Street. This arrangement is considered acceptable noting service vehicles would have performed similar manoeuvres to service the existing development during its operation, and complies with Clause 3.2.3.2 of AS 2890.2.

Additionally, swept path analysis has been undertaken of the proposed service vehicle parking arrangements, with the use of an 8.8 metre MRV, as defined within AS 2890.2. The results are provided as **Appendix E** and confirm that satisfactory entry and exit manoeuvres will be achieved to the loading bay.

It is also noted the proposed driveway serving the loading bay onto Laycock Street is setback from the southern boundary by approximately 4.0 metres. This is an improvement to the current arrangement of the development considering the existing driveway is provided immediately adjacent to the neighbouring residential dwelling, 70 Laycock Street.

4.6. Managing Transport Demands

To better communicate the available transport connections to / from the Club, a Green Travel Plan (GTP) shall be prepared and submitted to Council for approval prior to the issue of any occupation certificate. The primary purpose of a GTP is to coordinate a site-wide approach to influence the travel behaviour of employees and patrons away from the use of private vehicles towards more efficient modes of transport including active transport such as walking and cycling; public transport such as train and bus, and car-pooling and car sharing.

Having regard for the above, Council is invited to impose a suitable condition of consent required to be submitted and approved by Council, prior to the issue of any occupation certificate.



5. Traffic Impacts

5.1. Trip Generation

Neither the RMS Guide or RMS Guide Update include a traffic generation rate for bowling clubs or community facility / multi-purpose uses. Accordingly, the expected traffic generation of the development has been assessed using a 'first principles' approach, which takes into account the total parking demand of the development, and the expected time periods at which patrons would arrive at and depart from the development.

For the purposes of a conservative assessment, it has been assumed that each car parking space would generate one (1) vehicle trip, resulting in a peak period traffic generation of 45 vehicle trips / hour.

Based on information provided by the client and having regard for the time periods at which background traffic volumes on the external road network would 'peak', the critical periods for the traffic assessment of the proposal are as follows:

- Friday between 6-7pm when patrons arrive at the development for meals and refreshments;
- Saturday between 3-4pm when patrons arrive at / depart from the development for lawn bowls and / or meals and refreshments.

The traffic generation and inbound / outbound splits have therefore been assessed as follows:

- 45 vehicle trips / hour (36 in / 9 out) between 6-7pm on Friday;
- 45 vehicle trips / hour (27 in / 18 out) between 3-4pm on Saturday.

The above assumes an 80% inbound and 20% outbound split during the Friday evening peak noting patrons would typically arrive at the development during this period. A more even distribution would be expected during the Saturday peak period and accordingly, the above assumes a 60% inbound and 40% outbound split.

Additionally, the above generations have been considered as a net increase given that the existing Club does not generate any traffic.



5.2. Traffic Impacts

It is expected that the above traffic generation will be distributed to either the east or west of the site along Edward Street. The expected distribution is as follows:

- To / from the East: 50% of all traffic;
- To / from the West: 50% of all traffic.

The distribution of the traffic generation has been assessed having regard for the results of the traffic turn count surveys of both the Edward Street / Laycock Street and Edward Street / Oliver Street intersections. A Traffic Distribution Diagram is provided in **Appendix F** which shows the expected distribution of the development traffic through the Edward Street / Laycock Street and Edward Street / Oliver Street intersections.

The traffic impacts of the increased volumes through the key intersections, was analysed using SIDRA. A summary of the modelling results is presented in **Table 8** below, with the detailed SIDRA outputs provided in **Appendix B**. **Table 8** also provides a comparison against the existing intersection performances which have been extracted from **Table 5**.

			-		
INTERSECTION	SCENARIO	PERIOD	DOS	AVD (seconds)	LOS
	Evistin -	Friday	0.018	5.3	A
Edward Street / Laycock	Existing	Saturday	0.016	5.2	A
Street ¹	Existing + Development	Friday	0.021	5.6	A
		Saturday	0.019	5.5	A
	Existing	Friday	0.035	7.8	А
Edward Street / Oliver	Existing	Saturday	0.032	7.7	A
Street ¹	Existing	Friday	0.037	7.9	А
	+ Development	Saturday	0.033	7.8	A

Table 8: Summary of SIDRA Modelling Results – Existing plus Development

¹: Results shown are for the movement with the highest delay in accordance with the RMS Guide.

As can be seen from **Table 8**, the increase in traffic volumes as a result of the proposed development, will have negligible impacts on the performance of the Edward Street / Laycock Street and Edward Street / Oliver Street intersections. Indeed, both intersections will experience a very minor increase in DOS and AVD, with no change to the existing Level of Service A.

The increase in traffic generation as a result of the proposed development will therefore be accommodated by the existing road network, with no external improvements required. The traffic impacts of the proposed development are therefore considered acceptable.



6. Design Aspects

6.1. Access

With 95 car parking spaces of User Class 2, the proposed development requires a Category 2 Driveway under Table 3.1 of AS 2890.1, being a combined entry / exit driveway of width 6.0 to 9.0 metres. In response, the development proposes a combined entry / exit driveway of width 6.1 metres onto Edward Street, and therefore satisfies the requirements of AS 2890.1. The proposed arrangements have also been assessed using swept path analysis which confirms compliance with AS 2890.1, and that the proposed access arrangements will operate safely and efficiently. The results of this analysis are included in **Appendix E** for reference.

Vehicle access to the loading bay is provided via a 3.6 metre wide driveway onto Laycock Street, located at the south-western corner of the site. Swept path analysis has been undertaken of the proposed service vehicle parking arrangements, with the use of an 8.8 metre MRV, as defined within AS 2890.2. The results are provided as **Appendix E** and confirm that satisfactory entry and exit manoeuvres will be achieved to the loading bay. Trucks will be required to reverse into the loading bay from Laycock Street, and depart from the loading bay in a forward direction onto Laycock Street. This arrangement is considered acceptable and consistent with the existing / historical use of the Club, and complies with Clause 3.2.3.2 of AS 2890.2.

In summary, the proposed access arrangements are considered acceptable and comply with the relevant requirements of AS 2890.1 and AS 2890.2.

6.2. Internal Design

The proposed internal parking arrangements comply with the relevant requirements of AS 2890.1, AS 2890.2, AS 2890.3 and AS 2890.6, with the following design aspects considered noteworthy:

6.2.1. Driveway

- The driveway has a maximum grade of 12.5% (1 in 8) for the first 8.0 metres into the site and this generally complies with Clause 3.3 of AS 2890.1.
- The vehicular ramp has a minimum width of 6.1 metres between kerbs and will therefore accommodate twolane, two-way traffic flow.

6.2.2. Parking Modules

- All car parking spaces are provided in accordance with the User Class 2 requirements of AS 2890.1, having a minimum space width of 2.5 metres and length of 5.4 metres, with an aisle width of 6.2 metres.
- All accessible car parking spaces are provided with a minimum space width of 2.5 metres and length of 5.4 metres, with an aisle width of 6.2 metres. Additionally, these spaces are located immediately adjacent to a 2.5 metre wide and 5.4 metre long shared area, thereby satisfying the requirements of AS 2890.6.



- The MRV bay has a minimum space length of 8.8 metres and width of 3.5 metres, and therefore complies with AS 2890.2.
- All walls / columns are located outside of the space design envelope, as required under Figure 5.2 of AS 2890.1.

6.2.3. Head Heights

- A clear head height of 2.2 metres is required above all traffic circulation and car parking areas in accordance with Clause 5.3.1 of AS 2890.1.
- There are no head height restrictions above the loading bay, ensuring that a head height clearance in excess of 4.5 metres is provided in accordance with AS 2890.2.

6.2.4. Other Design Aspects

- A 2.5 metre by 2.0 metre visual splay is provided on the egress side of the car park driveway, at the property boundary, in accordance with Figure 3.3 of AS 2890.1. This area is to be kept clear of all vertical obstructions with a height greater than 0.6 metres.
- All bicycle parking spaces are provided as Security Level B facilities, in accordance with AS 2890.3.
- All motorcycle spaces are provided in accordance with Clause 2.4.7 of AS 2890.1.

In summary, the internal parking arrangements have been designed in accordance with AS 2890.1, AS 2890.2, AS 2890.3 and AS 2890.6. Any minor amendments considered necessary (if any) can be dealt with prior to the release of a Construction Certificate.



7. Conclusions

In summary:

- PDC Consultants has been commissioned by Order of AHEPA NSW Inc. to undertake a traffic impact assessment of a Development Application (DA) relating to the proposed redevelopment of Bexley Bowling Club at 72 Laycock Street, Bexley North. In summary, the DA seeks consent for the following:
 - Demolition of the existing building located at the south-western corner of the site and construction of a new two (2) storey building;
 - Retention of one (1) of three (3) existing bowling greens;
 - At-grade and lower ground floor parking accommodating a total of 95 car spaces and an on-site pickup / drop-off bay. 72 standard car spaces and 23 spaces within an overflow section of the car park;
 - A single on-site loading bay suitable for trucks up to an 8.8 metre MRV;
 - Relocation of the existing bus stop along the Edward Street frontage;
 - Two (2) access driveways including a 6.1 metre wide driveway onto Edward Street serving the car park and 3.6 metre wide driveway onto Laycock Street serving the on-site loading bay.
- The traffic generation assessment confirms that the development will generate 45 vehicle trips / hour during both the Friday evening and Saturday afternoon peak periods. The SIDRA modelling results confirm that the proposed increase in traffic generation will have a negligible impact on the performance of the identified key intersections with only minor increases to degree of saturation and average delay, and no change to the existing Level of Services during the Friday and Saturday peak periods. The traffic impacts of the development are therefore considered acceptable.
- The RMS Guide and Rockdale DCP 2011 requires the Club to provide a total of 45 car parking spaces. In response, the development proposes a total of 95 car spaces and therefore satisfies the minimum requirements of both policies. An additional check of the proposed car parking provision was undertaken by applying the travel mode characteristics of Canada Bay Club to Bexley Bowling Club. This assessment confirms the proposed car parking provision is sufficient to accommodate the regular operating capacity of the Club with 240 persons on-site at any one time.
- It is acknowledged during special events / functions held by the Club with a maximum of 445 persons on-site at any one time, some reliance on on-street parking near the vicinity of the site is required. This is considered acceptable noting that these events / functions are held infrequently throughout the year.
- The development provides 6 motorcycle spaces 9 bicycle spaces in accordance with the Rockdale DCP 2011. The proposed motorcycle and bicycle parking provisions are therefore considered acceptable.
- Council is invited to impose a suitable condition of consent requiring a Green Travel Plan (GTP) to be submitted and approved prior to the issue of any occupation certificate. The primary purpose of a GTP is to coordinate a site-wide approach to influence the travel behaviour of employees and patrons away from the use of private vehicles towards more efficient modes of transport including active transport such as walking and cycling; public transport such as train and bus, and car-pooling and car sharing.



• The proposed access and internal parking arrangements comply with the relevant requirements of AS 2890.1, AS 2890.2, AS 2890.3 and AS 2980.6. Any minor amendments considered necessary (if any) can be dealt with prior to the release of a Construction Certificate.

It is therefore concluded that the proposed development is supportable on traffic planning grounds.



Appendix A

0143r03v01 | 6/04/2020 72 Laycock Street, Bexley North | Updated Traffic Impact Assessment

R.O.A.R. DATA

R

WEST

Edward St

т



Lights

Time Per

1400 - 1415

1415 - 1430

1430 - 1445

1445 - 1500

1500 - 1515

1515 - 1530

1530 - 1545

1545 - 1600

Per End

Reliable, Original & Authentic Results

SOUTH

Lavcock St

R

EAST

Edward St

т

TOT

Heavies

Time Per

1400 - 1415

1415 - 1430

1430 - 1445

1445 - 1500

1500 - 1515

1515 - 1530

1530 - 1545

1545 - 1600

Per End

PEAK HR

WEST

Edward St

R

Ph.88196847, Mob. 0418 239019

Client	: po	dc Consultants
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Job No/Name : 7084 BEXLEY NORTH 72 Laycock St

SOUTH EAST Combined

тот

Edward St

Day/Date : Saturday 18th May 2019 WEST SOUTH EAST Laycock St Edward St Edward St Time Per R R TOT т т 1400 - 1415 1415 - 1430 1430 - 1445 1445 - 1500 1500 - 1515 1515 - 1530 1530 - 1545 1545 - 1600 Per End

Lights	WEST		SO	SOUTH		ST	
	Edwa	rd St	Layco	ock St	Edward St		
Peak Per	Ţ	<u>R</u>	L	<u>R</u>	L	I	тот
1400 - 1500	68	8	4	9	4	106	199
1415 - 1515	72	6	4	12	4	99	197
1430 - 1530	82	6	3	14	4	92	201
1445 - 1545	79	3	4	11	2	89	188
1500 - 1600	79	3	3	10	3	82	180
PEAK HR	82	6	3	14	4	92	201

<u>Heavies</u>	WEST		SO	SOUTH		EAST	
	Edwa	rd St	Laycock St		Edward St		
Peak Per	T	<u>R</u>	L	<u>R</u>	Ŀ	Ī	тот
1400 - 1500	0	0	0	0	0	0	0
1415 - 1515	0	0	0	0	0	0	0
1430 - 1530	0	0	0	0	0	0	0
1445 - 1545	0	0	0	0	0	0	0
1500 - 1600	0	0	0	0	0	0	0

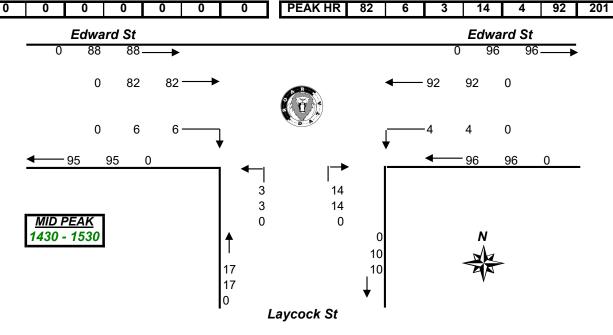
Laycock St

R

<u>Combined</u>	WE	ST	SO	UTH	EA	ST	
	Edwa	nrd St	Layco	ock St	Edwa	rd St	
Peak Per	Ţ	<u>R</u>	Ŀ	<u>R</u>	L	Ī	тот
1400 - 1500	68	8	4	9	4	106	199
1415 - 1515	72	6	4	12	4	99	197
1430 - 1530	82	6	3	14	4	92	201
1445 - 1545	79	3	4	11	2	89	188
1500 - 1600	79	3	3	10	3	82	180

WEST SOUTH EAST Peds Time Per Edward St Laycock St Edward St тот 1400 - 1415 1415 - 1430 1430 - 1445 1445 - 1500 1500 - 1515 1515 - 1530 1530 - 1545 1545 - 1600 Per End

	WEST	SOUTH	EAST	
Peak Per	Edward St	Laycock St	Edward St	тот
1400 - 1500	6	1	3	10
1415 - 1515	5	2	3	10
1430 - 1530	7	2	0	9
1445 - 1545	7	2	0	9
1500 - 1600	6	2	0	8
PEAK HR	7	2	0	9

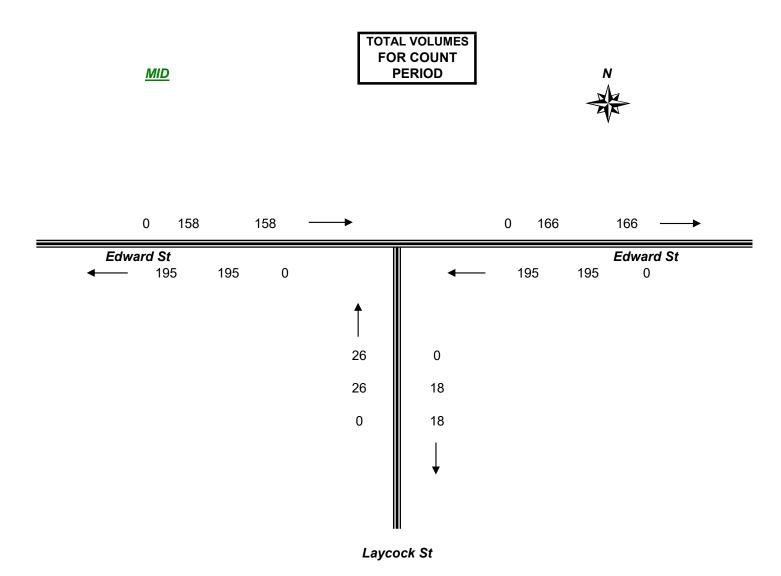


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R.O.A.R DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client : pdc Consultants

Job No/Name : 7084 BEXLEY NORTH 74 Laycock St Day/Date : Saturday 18th May 2019



R.O.A.R. DATA



Reliable, Original & Authentic Results

Ph.88196847, Mob. 0418 239019

Lights	WE	ST	SO	UTH	EA	ST	
	Edwa	rd St	Layco	ock St	Edward St		
Time Per	T	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот
1800 - 1815	20	1	0	2	0	22	45
1815 - 1830	16	0	1	1	1	16	35
1830 - 1845	15	0	3	1	1	16	36
1845 - 1900	17	3	2	2	0	22	46
1900 - 1915	11	0	1	0	1	15	28
1915 - 1930	9	1	1	1	0	13	25
1930 - 1945	4	0	1	0	1	14	20
1945 - 2000	9	0	1	1	1	7	19
Per End	101	5	10	8	5	125	254

Heavies	WEST		SOUTH		EAST		
	Edwa	rd St	Layco	ock St	Edwa	rd St	
Time Per	T	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот
1800 - 1815	0	0	0	0	0	0	0
1815 - 1830	0	0	0	0	0	0	0
1830 - 1845	0	0	0	0	0	0	0
1845 - 1900	0	0	0	0	0	0	0
1900 - 1915	0	0	0	0	0	0	0
1915 - 1930	0	0	0	0	0	0	0
1930 - 1945	0	0	0	0	0	0	0
1945 - 2000	0	0	0	0	0	0	0
Per End	0	0	0	0	0	0	0

Combined WEST SOUTH EAST Laycock St Edward St Edward St Time Per R R Т TOT Т 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Per End

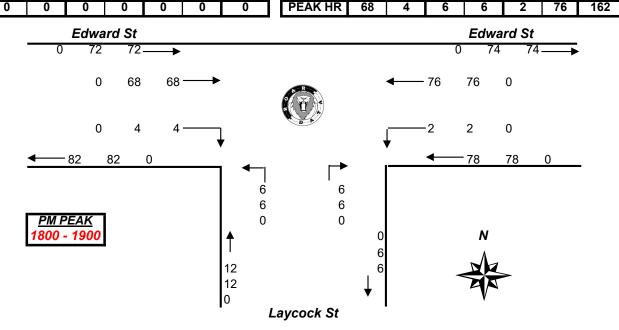
Lights	WE	ST	ST SOUTH		EAST		
	Edwa	rd St	Layco	ock St	Edwa		
Peak Per	Ţ	<u>R</u>	LI	<u>R</u>	L	I	тот
1800 - 1900	68	4	6	6	2	76	162
1815 - 1915	59	3	7	4	3	69	145
1830 - 1930	52	4	7	4	2	66	135
1845 - 1945	41	4	5	3	2	64	119
1900 - 2000	33	1	4	2	3	49	92
				-			
PEAK HR	68	4	6	6	2	76	162

<u>Heavies</u>	WEST		SO	SOUTH		EAST	
	Edwa	rd St	Layco	Laycock St		Edward St	
Peak Per	Ī	<u>R</u>	L	<u>R</u>	L	Ī	тот
1800 - 1900	0	0	0	0	0	0	0
1815 - 1915	0	0	0	0	0	0	0
1830 - 1930	0	0	0	0	0	0	0
1845 - 1945	0	0	0	0	0	0	0
1900 - 2000	0	0	0	0	0	0	0
PEAK HR	0	0	0	0	0	0	0

<u>Combined</u>	WE	ST	SO	JTH	EA	ST	
	Edwa	nrd St	Layco	ock St	Edwa	rd St	
Peak Per	Ţ	<u>R</u>	L	<u>R</u>	Ľ	Ī	тот
1800 - 1900	68	4	6	6	2	76	162
1815 - 1915	59	3	7	4	3	69	145
1830 - 1930	52	4	7	4	2	66	135
1845 - 1945	41	4	5	3	2	64	119
1900 - 2000	33	1	4	2	3	49	92

WEST SOUTH EAST Peds Time Per Edward St Laycock St Edward St TOT 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Per End

	WEST	SOUTH	EAST	
Peak Per	Edward St	Laycock St	Edward St	тот
1800 - 1900	2	1	1	4
1815 - 1915	1	1	1	3
1830 - 1930	0	1	0	1
1845 - 1945	0	0	0	0
1900 - 2000	0	2	0	2
PEAK HR	2	1	1	4



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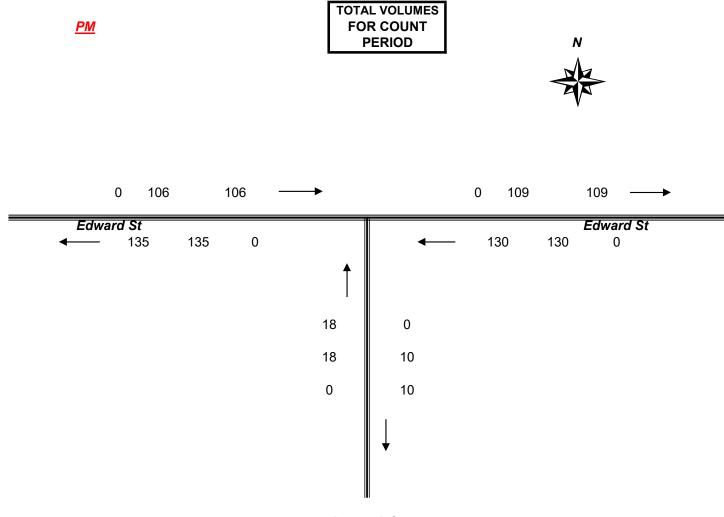
Job No/Name : 7084 BEXLEY NORTH 72 Laycock St

Day/Date : Saturday 18th May 2019



Client : pdc Consultants

Job No/Name : 7084 BEXLEY NORTH 74 Laycock St Day/Date : Saturday 18th May 2019



Laycock St

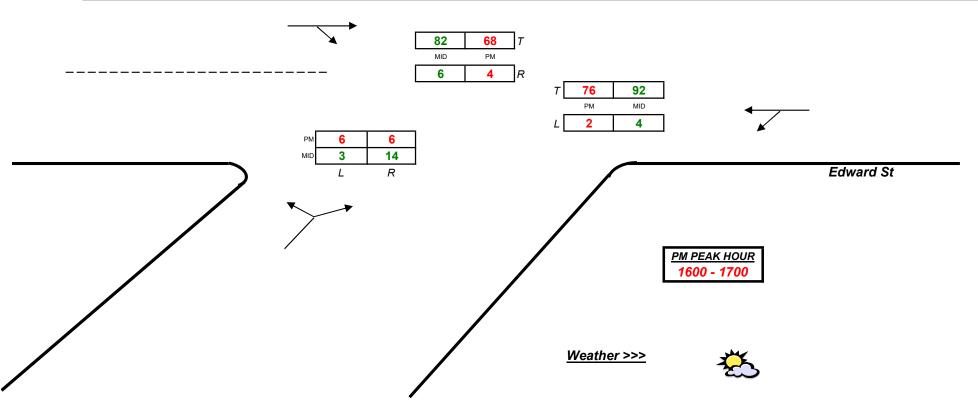


Intersection Details Obtained via satellite May be incorrect N

Combined Figures only

Edward St

<u>MID PEAK HOUR</u> 1430 - 1530



R.O.A.R. DATA



Reliable, Original & Authentic Results

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Lights	WEST		SO	JTH	EA	ST	
	Edward St		Laycock St		Edward St		
Time Per	Ţ	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот
1800 - 1815	29	2	3	4	1	38	77
1815 - 1830	19	4	5	2	1	35	66
1830 - 1845	19	1	3	0	1	33	57
1845 - 1900	15	0	2	3	0	19	39
1900 - 1915	16	3	2	0	1	28	50
1915 - 1930	16	2	0	1	0	23	42
1930 - 1945	18	1	1	2	0	12	34
1945 - 2000	11	0	1	2	2	10	26
Per End	143	13	17	14	6	198	391

	<u>,</u>						
	EAST		JTH	SO	ST	WE	<u>Heavies</u>
	rd St	Edwa	ock St	Layco	rd St	Edwa	
тот	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	Time Per
0	0	0	0	0	0	0	1800 - 1815
0	0	0	0	0	0	0	1815 - 1830
0	0	0	0	0	0	0	1830 - 1845
0	0	0	0	0	0	0	1845 - 1900
0	0	0	0	0	0	0	1900 - 1915
0	0	0	0	0	0	0	1915 - 1930
0	0	0	0	0	0	0	1930 - 1945
0	0	0	0	0	0	0	1945 - 2000
0	0	0	0	0	0	0	Per End

Client : pdc Consultants Job No/Name : 7084 BEXLEY NORTH 72 Laycock St

Day/Date : Friday 17th May 2019

Combined WEST SOUTH EAST Laycock St Edward St Edward St Time Per R R TOT т L 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Per End 143

	EAST		SOUTH		WEST		Lights
	Edward St		Edward St Laycock St		Edward St		
тот	Ī	L	<u>R</u>	Ŀ	<u>R</u>	<u>T</u>	Peak Per
239	125	3	9	13	7	82	1800 - 1900
212	115	3	5	12	8	69	1815 - 1915
188	103	2	4	7	6	66	1830 - 1930
165	82	1	6	5	6	65	1845 - 1945
152	73	3	5	4	6	61	1900 - 2000
220	105	2	0	12		01	

<u>Heavies</u>	WEST		SOUTH		EAST		
	Edward St		Laycock St		Edward St		
Peak Per	Ī	<u>R</u>	L	<u>R</u>	L	<u>T</u>	тот
1800 - 1900	0	0	0	0	0	0	0
1815 - 1915	0	0	0	0	0	0	0
1830 - 1930	0	0	0	0	0	0	0
1845 - 1945	0	0	0	0	0	0	0
1900 - 2000	0	0	0	0	0	0	0
						_	
PEAK HR	0	0	0	0	0	0	0

<u>(</u>	<u>Combined</u>	WE	ST	SO	UTH	EA	ST	
		Edwa	nrd St	Layco	ock St	Edwa	rd St	
	Peak Per	I	<u>R</u>	L	<u>R</u>	Ŀ	I	тот
	1800 - 1900	82	7	13	9	3	125	239
	1815 - 1915	69	8	12	5	3	115	212
	1830 - 1930	66	6	7	4	2	103	188
	1845 - 1945	65	6	5	6	1	82	165
	1900 - 2000	61	6	4	5	3	73	152
	PEAK HR	82	7	13	9	3	125	239

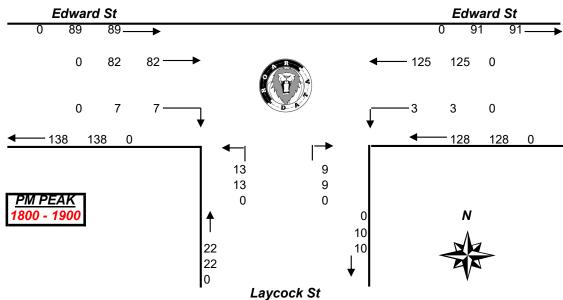
| PEAK HR | 82 | 7 | 13 | 9 | 3 | 125 | 239 |

PEAK HR 0 0 0 0 0

PEAK HR 82

Peds	WEST	SOUTH	EAST	
Time Per	Edward St	Laycock St	Edward St	тот
1800 - 1815	0	0	0	0
1815 - 1830	0	0	0	0
1830 - 1845	0	0	0	0
1845 - 1900	0	0	0	0
1900 - 1915	0	0	0	0
1915 - 1930	0	0	0	0
1930 - 1945	0	0	0	0
1945 - 2000	0	0	0	0
Per End	0	0	0	0

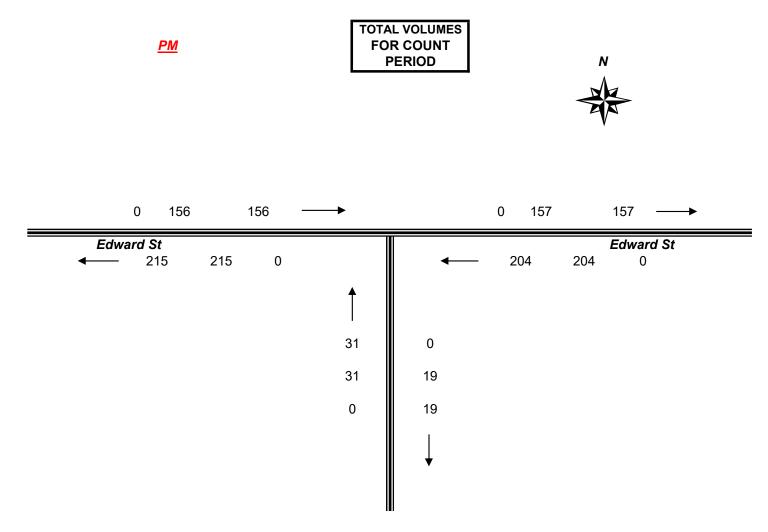
	WEST	SOUTH	EAST	
Peak Per	Edward St	Laycock St	Edward St	тот
1800 - 1900	0	0	0	0
1815 - 1915	0	0	0	0
1830 - 1930	0	0	0	0
1845 - 1945	0	0	0	0
1900 - 2000	0	0	0	0
PEAK HR	0	0	0	0



R.O.A.R DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client : pdc Consultants

Job No/Name : 7084 BEXLEY NORTH 74 Laycock St Day/Date : Friday 17th May 2019





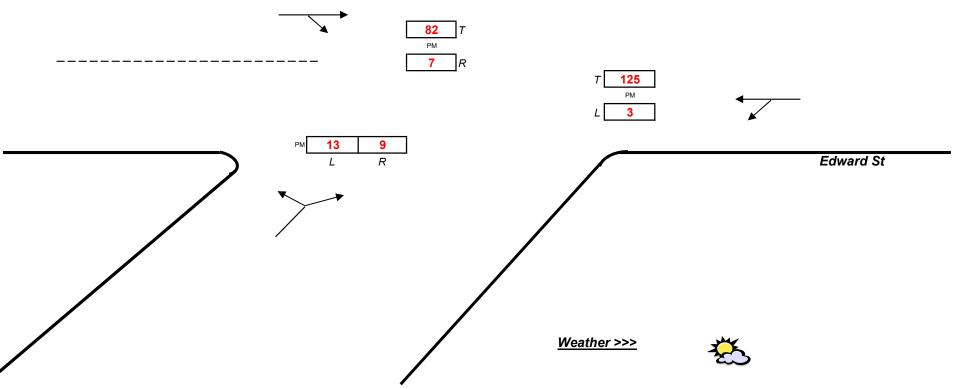


Intersection Details Obtained via satellite May be incorrect N

Combined Figures only

Edward St

<u>PM PEAK HOUR</u> 1800 - 1900



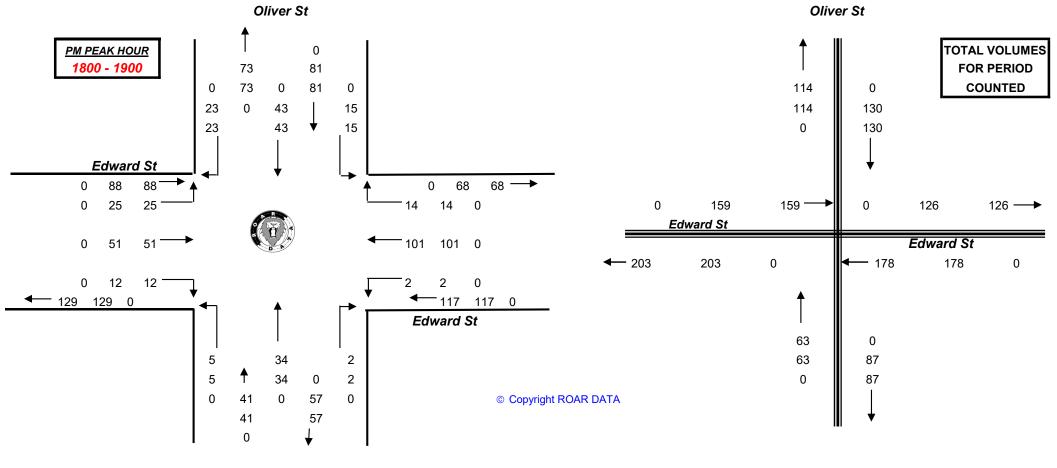
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	Relia).A.F ble, C	rigina	al & A	uthen		esults						_	Client Job No/Na Day/Dat	ame	: pdc : 7084 : Frida	4 BEX		VORT		ayco	ck St					_
<u>Lights</u>		NORTH			WEST			SOUTH			EAST			<u>Heavies</u>		NORTH			WEST			SOUTH			EAST		
		Oliver S	-	E	dward		(Dliver S	-	E	dward					Oliver S		E	dward	-	(Oliver S	-	E	dward S		
Time Per	Ŀ	I	<u>R</u>		<u> </u>	<u>R</u>	Ŀ	Ī	<u>R</u>	Ŀ	<u> </u>	<u>R</u>	тот	Time Per	Ŀ	<u>T</u>	<u>R</u>		I	<u>R</u>		<u> </u>	<u>R</u>	Ŀ	I	<u>R</u>	тот
1800 - 1815	9	11	7	9	20	3	2	8	1	0	30	7	107	1800 - 1815	0	0	0	0	0	0	0	0	0	0	0	0	0
1815 - 1830	2	15	7	6	14	2	2	8	0	0	30	4	90	1815 - 1830	0	0	0	0	0	0	0	0	0	0	0	0	0
1830 - 1845	1	8	5	6	7	5	0	8	0	0	26	2	68	1830 - 1845	0	0	0	0	0	0	0	0	0	0	0	0	0
1845 - 1900	3	9	4	4	10	2	1	10	1	2	15	1	62	1845 - 1900	0	0	0	0	0	0	0	0	0	0	0	0	0
1900 - 1915	3	4	7	2	19	1	2	4	0	0	21	1	64	1900 - 1915	0	0	0	0	0	0	0	0	0	0	0	0	0
1915 - 1930	0	5	2	4	9	1	0	8	0	1	18	1	49	1915 - 1930	0	0	0	0	0	0	0	0	0	0	0	0	0
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1830 - 1930	7	26	18	16	45	9	3	30	1	3	80	5	243	1830 - 1930	0	0	0	0	0	0	0	0	0	0	0	0	0
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R.O.A.R DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

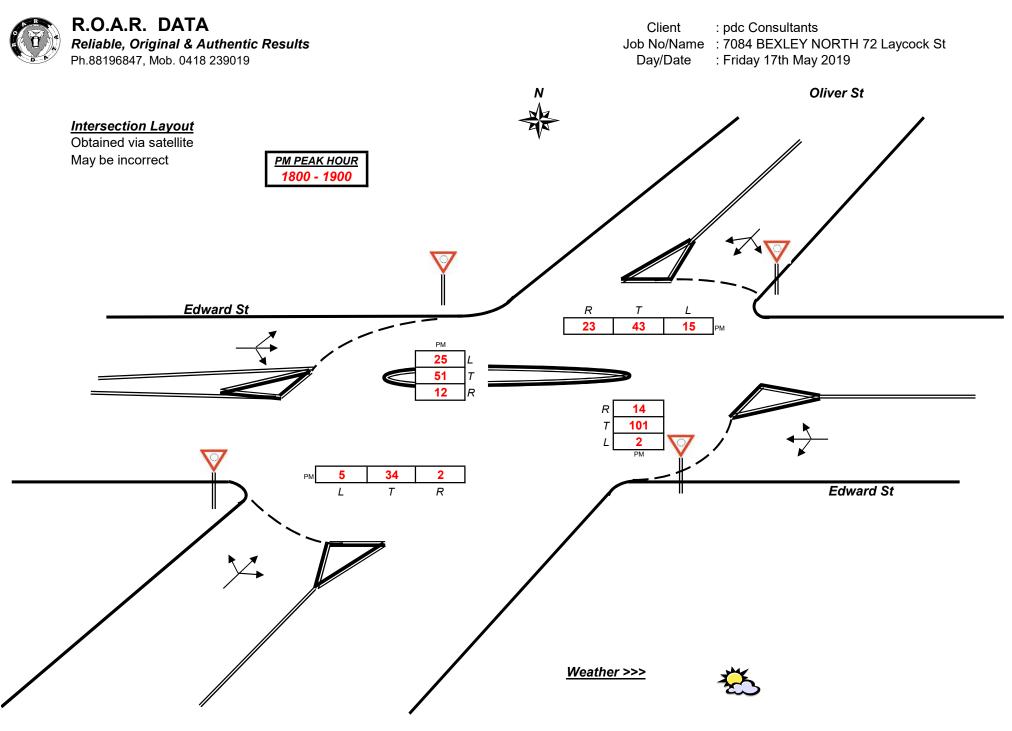
Job No/Name : 7084 BEXLEY NORTH 72 Laycock St Day/Date : Friday 17th May 2019





Oliver St

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R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client	: pdc Consultants
Job No/Name	: 7084 BEXLEY NORTH 72 Laycock St
Day/Date	: Saturday 18th May 2019

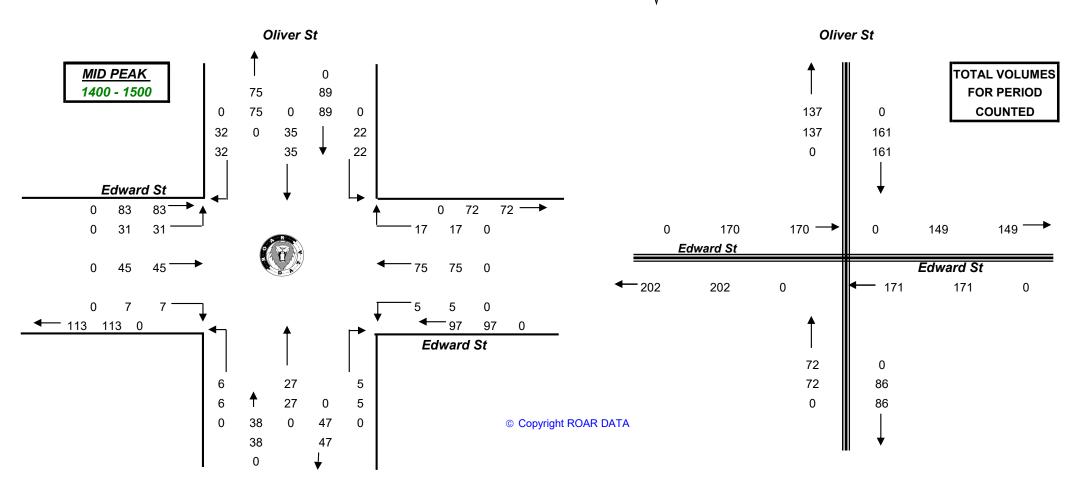
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1400 - 1415	6	13	10	5	8	1	1	10	1	1	21	8	85	1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	5	9	7	11	14	0	2	8	1	2	14	4	77	1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	5	7	8	9	10	3	1	2	0	0	21	1	67	1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	6	6	7	6	13	3	2	7	3	2	19	4	78	1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1500 - 1515	4	5	8	9	12	0	2	6	3	0	15	4	68	1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	1	8	4	6	19	4	0	6	3	0	15	3	69	1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	6	4	10	8	11	0	1	7	1	0	12	1	61	1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	5	14	3	5	10	3	1	2	2	1	18	5	69	1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Period End	38	66	57	59	97	14	10	48	14	6	135	30	574	Period End	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights		NORTI	Η		WEST	•		SOUTH	1		EAST		1	Heavies		NORTH	4		WEST			SOUTH	4		EAST		
		Oliver S			dward			Oliver S		E	dward S	St		<u></u>		Dliver St			dward S	St		Diver S		E	dward	St	
Peak Time	L	Т	R	L	I	<u>R</u>	Ŀ	Т	R	L	Т	<u>R</u>	тот	Peak Time	L	Т	R	L	T	R	Ŀ	Т	R	L	Т	R	тот
1400 - 1500	22	35	32	31	45	7	6	27	5	5	75	17	307	1400 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1515	20	27	30	35	49	6	7	23	7	4	69	13	290	1415 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1530	16	26	27	30	54	10	5	21	9	2	70	12	282	1430 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1545	17	23	29	29	55	7	5	26	10	2	61	12	276	1445 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1500 - 1600	16	31	25	28	52	7	4	21	9	1	60	13	267	1500 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HOUR	22	35	32	31	45	7	6	27	5	5	75	17	307	PEAK HOUR	0	0	0	0	0	0	0	0	0	0	0	0	0
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<u>Combined</u>		NORTI			WEST			SOUTH			EAST		l	<u>Peds</u>		NORTH			WEST			SOUTH			EAST		1
		Oliver S	St		dward	St		Oliver S	t	-	EAST				(Dliver St	t	E	dward S		0	liver S	t		dward \$	St	
Time Per	(<u>L</u>	Oliver S	St <u>R</u>	Е <u>L</u>	dward : <u>T</u>		(<u> </u>	Dliver S		L	dward S	<u>R</u>	тот	Time Per	(Dliver St CLASSIF	t	E	dward S		0		t			St	тот
Time Per 1400 - 1415	(<u>L</u> 6	Dliver S <u>T</u> 13	St <u>R</u> 10	E <u>L</u> 5	dward S <u>T</u> 8	St <u>R</u> 1	(<u>L</u> 1	Dliver S <u>T</u> 10	t	<u>L</u> 1	dward S <u>T</u> 21	<u>R</u> 8	85	Time Per 1400 - 1415	(Dliver St CLASSIF	t	E	dward S LASSIE 0		0	Dliver S LASSII	t		dward \$	St	2
Time Per 1400 - 1415 1415 - 1430	6 5	Dliver S <u>T</u> 13 9	R 10 7	E 5 11	dward 3 <u>T</u> 8 14	St <u>R</u> 1 0	(<u> </u> 1 2	Dliver S <u>T</u> 10 8	t <u>R</u> 1 1	<u>L</u> 1 2	dward S <u>T</u> 21 14	<u>R</u>	85 77	Time Per 1400 - 1415 1415 - 1430	(Dliver St CLASSIF 0 0	t	E	dward S CLASSIE 0 3		0	Diver S LASSII 1 0	t		dward S SLASSI 1 1	St	2 4
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R.O.A.R DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client : pdc Consultants

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Job No/Name : 7084 BEXLEY NORTH 72 Laycock St Day/Date : Saturday 18th May 2019





Oliver St

R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client	: pdc Consultants
Job No/Name	: 7084 BEXLEY NORTH 72 Laycock St

: Saturday 18th May 2019 Dav/Date

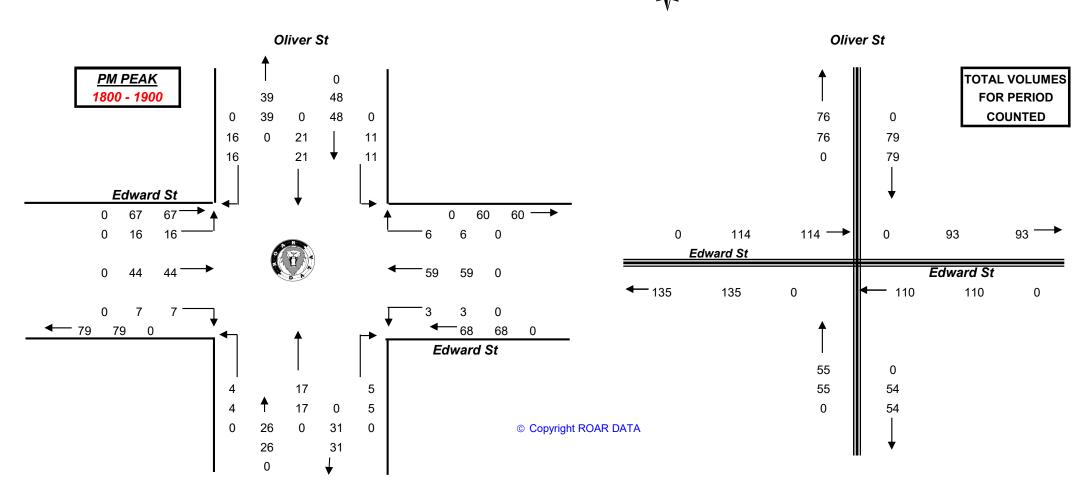
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1815 - 1830	2	4	1	3	11	1	1	6	0	0	15	2	46	1815 - 1830	0	0	0	0	0	0	0	0	0	0	0	0	0
1830 - 1845	1	9	4	4	10	0	0	4	2	2	12	1	49	1830 - 1845	0	0	0	0	0	0	0	0	0	0	0	0	0
1845 - 1900	3	2	5	4	8	4	2	3	0	1	15	1	48	1845 - 1900	0	0	0	0	0	0	0	0	0	0	0	0	0
1900 - 1915	4	7	4	2	7	2	2	6	0	0	11	0	45	1900 - 1915	0	0	0	0	0	0	0	0	0	0	0	0	0
1915 - 1930	0	2	2	5	3	1	2	3	1	1	9	0	29	1915 - 1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1930 - 1945	0	4	3	7	5	1	4	5	1	1	12	0	43	1930 - 1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1945 - 2000	0	4	1	3	11	0	0	4	1	0	6	2	32	1945 - 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Period End	15	38	26	33	70	11	12	35	8	5	97	8	358	Period End	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>Lights</u>		NORT	Η		WEST	•		SOUTH	1		EAST			Heavies		NORTH	4		WEST		ę	SOUTH	1		EAST		1
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1815 - 1915	10	22	14	13	36	7	5	19	2	3	53	4	188	1815 - 1915	0	0	0	0	0	0	0	0	0	0	0	0	0
1830 - 1930	8	20	15	15	28	7	6	16	3	4	47	2	171	1830 - 1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1845 - 1945	7	15	14	18	23	8	10	17	2	3	47	1	165	1845 - 1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1900 - 2000	4	17	10	17	26	4	8	18	3	2	38	2	149	1900 - 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HOUR	11	21	16	16	44	7	4	17	5	3	59	6	209	PEAK HOUR	0	0	0	0	0	0	0	0	0	0	0	0	0
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Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945	L 5 2 1 3 4 0 0	Diver S I 6 4 9 2 7 2 4	R 6 1 4 5 4	E 5 3 4 4 2 5 7	dward 3 15 11 10 8 7 3 5	R 2 1 0 4 2 1 1	L 1 1 0 2 2 2 4	Dliver S 1 4 6 4 3 6 3 5	t <u>R</u> 3 0 2 0	L 0 2 1 0 1 1	dward S <u>I</u> 17 15 12 15 11 9 12	R 2 1 0 0 0	66 46 49 48 45 29 43	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945	(Dliver S CLASSII 0 0 0 0 0 0 0 0	t	E	dward S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	St	0	Diver S 0	t		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0	St	1 0 0 0 0 0 0
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000	L 5 2 1 3 4 0 0 0	Diver S Image: Image of the second	R 6 1 4 5 4 2 3 1	E 5 3 4 4 2 5 7 3	dward 3 15 11 10 8 7 3 5 11	R 2 1 0 4 2 1 0	L 1 1 2 2 2 2 4 0	Dliver S <u>1</u> 4 6 4 3 6 3 5 4	t R 3 0 2 0 0 1 1 1	L 0 2 1 0 1 1 0	dward S <u>I</u> 17 15 12 15 11 9 12 6	R 2 1 0 0 0 2	66 46 49 48 45 29 43 32	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000	(Oliver S CLASSII 0	t	E	dward S SLASSII 0	St	0	Oliver S CLASSII 0	t		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	St	1 0 0 0 0 0 2
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End	L 5 2 1 3 4 0 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38	R 6 1 4 5 4 2 3 1 26	E 5 3 4 4 2 5 7 3 33	dward 3 15 11 10 8 7 3 5 11 70	R 2 1 0 4 2 1 0 4 2 1 0 1 0 1 1 0 11	L 1 1 2 2 2 4 0 12	Dliver S <u>I</u> 4 6 4 3 6 3 5 4 35	t R 3 0 2 0 0 1 1 8	L 0 2 1 0 1 1	I I 17 15 12 15 11 9 12 6 97 97	R 2 1 0 0 0	66 46 49 48 45 29 43	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S <u>LASSII</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Dliver S CLASSII 0 0 0 0 0 0 0 0 0 0 2 2 2	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 1	St FIED	1 0 0 0 0 0 0
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000	L 5 2 1 3 4 0 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38	R 6 1 4 5 4 2 3 1 26	E 5 3 4 2 5 7 3 33	dward 3 15 11 10 8 7 3 5 11 70 WEST	R 2 1 0 4 2 1 0 4 1 0 11	L 1 1 0 2 2 4 0 12	Diver S 1 4 6 4 3 6 3 5 4 35 SOUTH	t R 3 0 2 0 0 1 1 8 1 1 1 1 1 1 1	L 0 2 1 0 1 1 0 5	J J 17 17 15 12 15 11 9 12 6 97 EAST	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S SLASSII 0	St FIED		Diver S CLASSII 0 0 0 0 0 0 0 0 0 2 2 SOUTH	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 1 EAST	St FIED	1 0 0 0 0 0 2
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End	L 5 2 1 3 4 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38	R 6 1 4 5 4 2 3 1 26	E 5 3 4 4 2 5 7 3 33	dward 3 15 11 10 8 7 3 5 11 70	R 2 1 0 4 2 1 0 4 2 1 0 11 St	L 1 1 2 2 2 4 0 12 3 4 0 12	Dliver S <u>I</u> 4 6 4 3 6 3 5 4 35	t R 3 0 2 0 0 1 1 1 8 t	L 0 2 1 0 1 1 0 5	I I 17 15 12 15 11 9 12 6 97 97	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward \$ <u>LASSII</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Diver S CLASSII 0 0 0 0 0 0 0 0 0 2 2 SOUTH Diver S	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 1 EAST dward 3	St FIED	1 0 0 0 0 0 2
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined	L 5 2 1 3 4 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38 NORTH Diver S	R 6 1 4 5 4 2 3 1 26	E 5 3 4 4 2 5 7 3 33	dward I 15 11 10 8 7 3 5 11 70 WEST dward	R 2 1 0 4 2 1 0 1 0 11	L 1 1 2 2 2 4 0 12 3 4 0 12	Diver S I 4 6 4 3 6 3 5 4 35 SOUTH Diver S	t R 3 0 2 0 0 1 1 1 8 t	L 0 2 1 0 1 1 0 5	dward S <u>I</u> 17 15 12 15 11 9 12 6 97 EAST dward S	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32 358	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End <u>Peds</u>		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S <u>LASSII</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Diver S CLASSII 0 0 0 0 0 0 0 0 0 2 2 SOUTH	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 1 EAST	St FIED	1 0 0 0 0 0 2 3
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined Peak Time	L 5 2 1 3 4 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38 NORTI Dliver S I	R 6 1 4 5 4 2 3 1 26 H St	E 5 3 4 4 2 5 7 3 3 3 3 3 5 5 7 5 5 5 7 3 3 5 5 5 5	dward I 15 11 10 8 7 3 5 11 70 WEST dward I	St <u>R</u> 2 1 0 4 2 1 1 0 11 St <u>R</u>	L 1 1 0 2 2 4 0 12 C L	Diver S I 4 6 4 3 6 3 5 4 35 SOUTH Diver S I	t R 3 0 2 0 1 1 1 8 t R	L 0 2 1 0 1 1 0 5 5 E	dward S I 17 15 12 15 11 9 12 6 97 EAST dward S I	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32 358 TOT	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Peds Peak Per		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S 0 </td <td>St FIED</td> <td></td> <td>Diver S Classifier 0 2 SOUTH Diver S CLASSII</td> <td>t FIED</td> <td></td> <td>dward 3 CLASSI 1 0 0 0 0 0 0 0 0 0 1 EAST dward 3 CLASSI</td> <td>St FIED</td> <td>1 0 0 0 0 2 3 TOT</td>	St FIED		Diver S Classifier 0 2 SOUTH Diver S CLASSII	t FIED		dward 3 CLASSI 1 0 0 0 0 0 0 0 0 0 1 EAST dward 3 CLASSI	St FIED	1 0 0 0 0 2 3 TOT
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined 1800 - 1900	L 5 2 1 3 4 0 0 0 15	Diver S I 6 4 9 2 7 2 4 38 NORTI Diver S 1 21	R 6 1 4 5 4 2 3 1 26 H St 16	E 5 3 4 4 2 5 7 3 3 3 3 3 5 7 3 3 3 5 5 7 3 3 3 5 5 7 1 6 1 6	dward I 15 11 10 8 7 3 5 11 70 WEST dward 44	R 2 1 0 4 2 1 0 11 St R 7	L 1 1 1 2 2 2 4 0 12 5 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Diver S 1 4 6 4 3 6 3 5 4 35 SOUTH Diver S 17 17	t R 3 0 2 0 0 1 1 1 1 t t R 5 	L 0 2 1 0 1 1 0 5 5 E L 3	dward S I 17 15 12 15 11 9 12 6 97 EAST dward S 59	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32 358 TOT 209	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Peak Per 1800 - 1900		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S 0	St FIED		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward 3 CLASSI 1 0 0 0 0 0 0 0 0 0 0 1 EAST dward 3 CLASSI 1 1	St FIED	1 0 0 0 0 2 3 TOT 1
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined 1800 - 1915 1845 - 1915	L 5 2 1 3 4 0 0 0 0 15 (L 11 10	I I 6 4 9 2 7 2 4 38 NORTI Diver S 21 21 22 21	R 6 1 4 5 4 2 3 1 26 H 5t 16 14	E 5 3 4 4 2 5 7 3 33 33 6 E 16 13	Image: symbol with the symbol withe symbol with the symbol with the symbol with the sym	R 2 1 0 4 2 1 0 11 St R 7 7	L 1 1 1 2 2 2 4 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 12 12 12 12 12 12 12 12 12	Diver S I 4 6 4 3 5 4 35 SOUTH Driver S 17 19	t R 3 0 2 0 0 1 1 1 8 t E 2 2 2 2 2 2 2 1 1 1	L 0 2 1 0 1 1 0 5 5 5 5 5 2 8 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	dward S I 17 15 12 15 11 9 12 6 97 EAST dward S 59 53	R 2 1 0 0 0 2 8	66 46 49 48 45 29 43 32 358 TOT 209 188	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Peds Peak Per 1800 - 1900 1815 - 1915		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward S <u>LASSII</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 2 2 SOUTH Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED	1 0 0 0 0 2 3 7 0 7 0 2 3
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined 1800 - 1900 1815 - 1915 1800 - 1900 1815 - 1915 1830 - 1930	L 5 2 1 3 4 0 0 0 0 15 15 11 10 8	I I 6 4 9 2 7 2 4 38 NORTI Oliver S 1 21 22 20	R 6 1 4 5 4 2 3 1 26 H 5t 16 14 15	E 5 3 4 4 2 5 7 3 33 33 6 1 16 13 15	dward I 15 11 10 8 7 3 5 11 70 WEST dward 44 36 28	R 2 1 0 4 2 1 0 4 2 1 0 4 2 1 0 4 2 1 0 11 St R 7 7 7	L 1 1 2 2 2 4 0 12 2 4 0 12 5 6	Diver S I 4 6 4 3 6 3 5 4 35 SOUTH Diver S I 17 19 16	t R 3 0 2 0 0 1 1 1 t t R 5 2 3 3	L 0 2 1 0 1 1 0 5 5 5 5 5 2 4	I I 17 15 12 15 11 9 12 6 97 EAST dward S 1 59 53 47 59	R 2 1 0 0 2 8	66 46 49 48 45 29 43 32 358 TOT 209 188 171	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Peds Peak Per 1800 - 1900 1815 - 1915 1830 - 1930		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward 3 2LASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Diver S LASSII 0 0 0 0 0 0 0 0 0 0 2 2 SOUTH Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED	1 0 0 0 0 2 3 3 TOT 1 0 0
Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Combined 1815 - 1915 1800 - 1900 1815 - 1915 1830 - 1930 1845 - 1945	L 5 2 1 3 4 0 0 0 15 11 10 8 7 4	Diver S I 6 4 9 2 7 2 4 38 NORTI Diver S 1 21 22 20 15	R 6 1 4 5 4 2 3 1 26 H St R 16 14 15 14	E 5 3 4 4 2 5 7 3 33 33 6 6 16 13 15 18	dward I 15 11 10 8 7 3 5 11 70 WEST dward 44 36 28 23	R 2 1 0 4 2 1 0 4 2 1 0 4 2 1 0 4 2 1 0 11 0 11 0 11 0 17 7 8	L 1 1 2 2 2 4 0 12 C C L 4 5 6 10	Diver S I 4 6 4 3 6 3 5 4 35 SOUTH Diver S I 17 19 16 17	t R 3 0 2 0 0 1 1 1 8 t C 2 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3	L 0 0 1 1 0 5 5 E L 3 3 4 3	I I 17 15 12 15 11 9 12 6 97 EAST dward S 1 59 53 47 47	R 2 1 0 0 2 8 R 6 4 2 1	66 46 49 48 45 29 43 32 358 TOT 209 188 171 165	Time Per 1800 - 1815 1815 - 1830 1830 - 1845 1845 - 1900 1900 - 1915 1915 - 1930 1930 - 1945 1945 - 2000 Period End Peds Peak Per 1800 - 1900 1815 - 1915 1830 - 1930 1845 - 1945		Diver S CLASSII 0 0 0 0 0 0 0 0 0 0 0 0 0	t FIED		dward 3 <u>LASSII</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED		Diver S Diver S CLASSII 0	t FIED		dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 0 0 1 CLASSI dward 3 <u>CLASSI</u> 1 0 0 0 0 0 0 0 0 0 0 0 0 0	St FIED	1 0 0 0 0 2 3 3 TOT 1 0 0 0

R.O.A.R DATA Reliable, Original & Authentic Results Ph.88196847, Mob. 0418 239019

Client : pdc Consultants

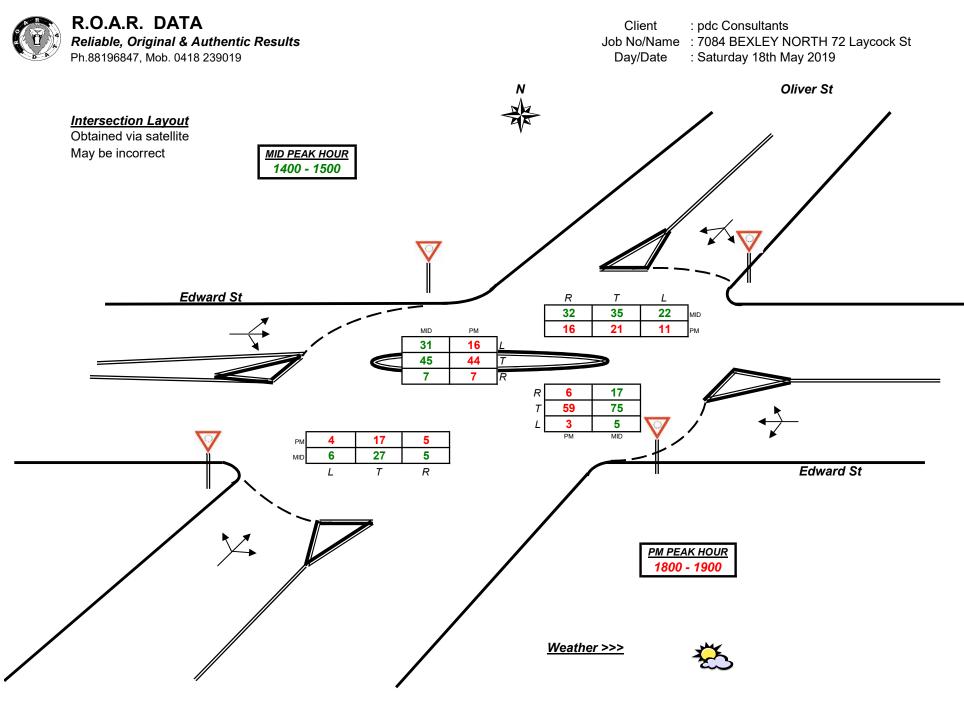
Ν

Job No/Name : 7084 BEXLEY NORTH 72 Laycock St Day/Date : Saturday 18th May 2019





Oliver St







Appendix B

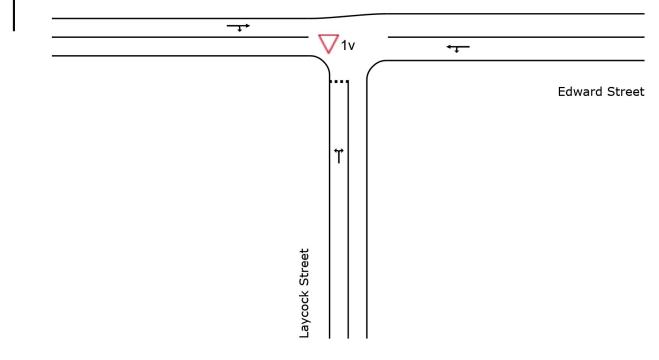
0143r03v01 | 6/04/2020 72 Laycock Street, Bexley North | Updated Traffic Impact Assessment

SITE LAYOUT

∇ Site: 1v [Edward St x Laycock St - FRI EX]

Intersection: Edward Street & Laycock Street Period: Friday Scenario: Existing Site Category: (None) Giveway / Yield (Two-Way)

N Edward Street



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abla Site: 1v [Edward St x Laycock St - FRI EX]

Intersection: Edward Street & Laycock Street Period: Friday Scenario: Existing Site Category: (None) Giveway / Yield (Two-Way)

Move	ment F	Performanc	e - Ve	hicles								
Mov ID	Turn	Demand F Total veh/h	lows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South	: Laycoo	ck Street										
1	L2	14	0.0	0.018	4.9	LOS A	0.1	0.5	0.23	0.52	0.23	47.2
3	R2	9	0.0	0.018	5.3	LOS A	0.1	0.5	0.23	0.52	0.23	46.7
Appro	ach	23	0.0	0.018	5.1	LOS A	0.1	0.5	0.23	0.52	0.23	47.0
East: I	Edward	Street										
4	L2	3	0.0	0.064	4.6	LOS A	0.0	0.0	0.00	0.01	0.00	49.5
5	T1	132	0.0	0.064	0.0	LOS A	0.0	0.0	0.00	0.01	0.00	49.9
Appro	ach	135	0.0	0.064	0.1	NA	0.0	0.0	0.00	0.01	0.00	49.9
West:	Edward	l Street										
11	T1	86	0.0	0.047	0.0	LOS A	0.0	0.3	0.04	0.04	0.04	49.7
12	R2	7	0.0	0.047	5.0	LOS A	0.0	0.3	0.04	0.04	0.04	49.2
Appro	ach	94	0.0	0.047	0.4	NA	0.0	0.3	0.04	0.04	0.04	49.6
All Vel	hicles	252	0.0	0.064	0.7	NA	0.1	0.5	0.04	0.07	0.04	49.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

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✓ Site: 1v [Edward St x Laycock St - SAT EX]

Intersection: Edward Street & Laycock Street Period: Saturday Scenario: Existing Site Category: (None) Giveway / Yield (Two-Way)

Move	ment F	Performanc	e - Ve	hicles								
Mov ID	Turn	Demand F Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued		Aver. No. Cycles	
South	: Laycoo	ck Street										
1	L2	3	0.0	0.016	4.8	LOS A	0.1	0.4	0.22	0.52	0.22	47.2
3	R2	15	0.0	0.016	5.2	LOS A	0.1	0.4	0.22	0.52	0.22	46.7
Appro	ach	18	0.0	0.016	5.1	LOS A	0.1	0.4	0.22	0.52	0.22	46.8
East: I	Edward	Street										
4	L2	4	0.0	0.048	4.6	LOS A	0.0	0.0	0.00	0.02	0.00	49.5
5	T1	97	0.0	0.048	0.0	LOS A	0.0	0.0	0.00	0.02	0.00	49.9
Appro	ach	101	0.0	0.048	0.2	NA	0.0	0.0	0.00	0.02	0.00	49.9
West:	Edward	l Street										
11	T1	86	0.0	0.047	0.0	LOS A	0.0	0.3	0.03	0.04	0.03	49.7
12	R2	6	0.0	0.047	4.9	LOS A	0.0	0.3	0.03	0.04	0.03	49.2
Appro	ach	93	0.0	0.047	0.4	NA	0.0	0.3	0.03	0.04	0.03	49.7
All Vel	hicles	212	0.0	0.048	0.7	NA	0.1	0.4	0.03	0.07	0.03	49.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

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✓ Site: 1v [Edward St x Laycock St - FRI EX + DEV]

Intersection: Edward Street & Laycock Street Period: Friday Scenario: Existing + Development Site Category: (None) Giveway / Yield (Two-Way)

Move	ment F	Performanc	e - Ve	hicles								
Mov ID	Turn	Demand F Total veh/h	lows= HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South	: Laycoo	ck Street										
1	L2	14	0.0	0.021	4.9	LOS A	0.1	0.5	0.24	0.52	0.24	47.5
3	R2	12	0.0	0.021	5.6	LOS A	0.1	0.5	0.24	0.52	0.24	47.6
Appro	ach	25	0.0	0.021	5.2	LOS A	0.1	0.5	0.24	0.52	0.24	47.5
East:	Edward	Street										
4	L2	4	0.0	0.066	4.6	LOS A	0.0	0.0	0.00	0.02	0.00	49.9
5	T1	136	0.0	0.066	0.0	LOS A	0.0	0.0	0.00	0.02	0.00	50.3
Appro	ach	140	0.0	0.066	0.1	NA	0.0	0.0	0.00	0.02	0.00	50.3
West:	Edward	l Street										
11	T1	104	0.0	0.056	0.0	LOS A	0.1	0.4	0.04	0.04	0.04	51.4
12	R2	7	0.0	0.056	5.0	LOS A	0.1	0.4	0.04	0.04	0.04	50.0
Appro	ach	112	0.0	0.056	0.4	NA	0.1	0.4	0.04	0.04	0.04	51.3
All Vel	hicles	277	0.0	0.066	0.7	NA	0.1	0.5	0.04	0.07	0.04	50.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

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✓ Site: 1v [Edward St x Laycock St - SAT EX + DEV]

Intersection: Edward Street & Laycock Street Period: Saturday Scenario: Existing + Development Site Category: (None) Giveway / Yield (Two-Way)

Move	ment F	Performanc	e - Ve	hicles								
Mov ID	Turn	Demand F Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South	: Laycoo	ck Street										
1	L2	3	0.0	0.019	4.9	LOS A	0.1	0.4	0.24	0.53	0.24	47.8
3	R2	18	0.0	0.019	5.5	LOS A	0.1	0.4	0.24	0.53	0.24	47.9
Appro	ach	21	0.0	0.019	5.4	LOS A	0.1	0.4	0.24	0.53	0.24	47.8
East: I	Edward	Street										
4	L2	5	0.0	0.053	4.7	LOS A	0.0	0.0	0.00	0.03	0.00	50.3
5	T1	106	0.0	0.053	0.0	LOS A	0.0	0.0	0.00	0.03	0.00	50.8
Appro	ach	112	0.0	0.053	0.2	NA	0.0	0.0	0.00	0.03	0.00	50.8
West:	Edward	Street										
11	T1	98	0.0	0.052	0.0	LOS A	0.0	0.3	0.03	0.03	0.03	50.9
12	R2	6	0.0	0.052	4.9	LOS A	0.0	0.3	0.03	0.03	0.03	49.8
Appro	ach	104	0.0	0.052	0.3	NA	0.0	0.3	0.03	0.03	0.03	50.8
All Vel	hicles	237	0.0	0.053	0.7	NA	0.1	0.4	0.04	0.08	0.04	50.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

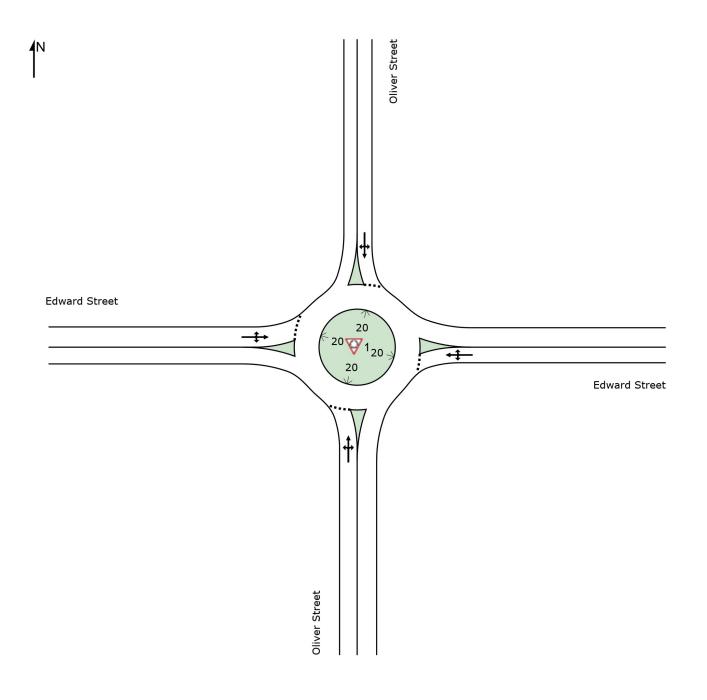
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SITE LAYOUT

Site: 1 [Edward St x Oliver St - FRI EX]

Intersection: Oliver Street & Edward Street Period: Friday Scenario: Existing Site Category: (None) Roundabout



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Site: 1 [Edward St x Oliver St - FRI EX]

Intersection: Oliver Street & Edward Street Period: Friday Scenario: Existing Site Category: (None) Roundabout

Move	ement F	Performanc	ce - Vel	nicles								
Mov	Turn	Demand I		Deg.	Average	Level of	95% Back		Prop.		Aver. No.	
ID		Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Cycles	Speed
South	: Oliver	veh/h Street	%	v/c	sec		veh	m				km/h
1	L2	5	0.0	0.035	3.4	LOS A	0.2	1.1	0.27	0.39	0.27	48.1
2	T1	36	0.0	0.035	3.4	LOSA	0.2	1.1	0.27	0.39	0.27	48.0
2	R2	2	0.0		3.2 7.8	LOSA	0.2	1.1	0.27	0.39	0.27	48.6
-				0.035								
Appro	bach	43	0.0	0.035	3.5	LOS A	0.2	1.1	0.27	0.39	0.27	48.0
East:	Edward	Street										
4	L2	2	0.0	0.095	3.2	LOS A	0.5	3.4	0.23	0.38	0.23	47.4
5	T1	106	0.0	0.095	3.1	LOS A	0.5	3.4	0.23	0.38	0.23	48.4
6	R2	15	0.0	0.095	7.6	LOS A	0.5	3.4	0.23	0.38	0.23	47.1
Appro	ach	123	0.0	0.095	3.6	LOS A	0.5	3.4	0.23	0.38	0.23	48.3
••		N4										
	: Oliver S			0.000	0.0	100.4	0.0		0.04	0.44	0.04	
7	L2	16	0.0	0.066	3.2	LOS A	0.3	2.3	0.21	0.44	0.21	44.5
8	T1	45	0.0	0.066	3.0	LOS A	0.3	2.3	0.21	0.44	0.21	47.6
9	R2	24	0.0	0.066	7.6	LOS A	0.3	2.3	0.21	0.44	0.21	47.9
Appro	bach	85	0.0	0.066	4.3	LOS A	0.3	2.3	0.21	0.44	0.21	47.3
West:	Edward	Street										
10	L2	26	0.0	0.068	3.1	LOS A	0.3	1.8	0.13	0.40	0.13	47.1
11	T1	54	0.0	0.068	2.9	LOS A	0.3	1.8	0.13	0.40	0.13	48.6
12	R2	13	0.0	0.068	7.4	LOS A	0.3	1.8	0.13	0.40	0.13	49.1
Appro	bach	93	0.0	0.068	3.5	LOS A	0.3	1.8	0.13	0.40	0.13	48.4
All Ve	hicles	344	0.0	0.095	3.8	LOS A	0.5	3.4	0.20	0.40	0.20	48.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

Roundabout Capacity Model: SIDRA Standard.

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.

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Site: 1 [Edward St x Oliver St - SAT EX]

Intersection: Oliver Street & Edward Street Period: Saturday Scenario: Existing Site Category: (None) Roundabout

Move	ement F	Performanc	:e - Vel	hicles								
Mov ID	Turn	Demand F Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South	: Oliver a	Street										
1	L2	6	0.0	0.032	3.4	LOS A	0.1	1.0	0.25	0.41	0.25	48.0
2	T1	28	0.0	0.032	3.2	LOS A	0.1	1.0	0.25	0.41	0.25	47.8
3	R2	5	0.0	0.032	7.7	LOS A	0.1	1.0	0.25	0.41	0.25	48.4
Appro	ach	40	0.0	0.032	3.8	LOS A	0.1	1.0	0.25	0.41	0.25	48.0
East:	Edward	Street										
4	L2	5	0.0	0.079	3.2	LOS A	0.4	2.8	0.22	0.40	0.22	47.4
5	T1	79	0.0	0.079	3.1	LOS A	0.4	2.8	0.22	0.40	0.22	48.3
6	R2	18	0.0	0.079	7.6	LOS A	0.4	2.8	0.22	0.40	0.22	46.9
Appro	ach	102	0.0	0.079	3.9	LOS A	0.4	2.8	0.22	0.40	0.22	48.1
North	Oliver S	Street										
7	L2	23	0.0	0.071	3.1	LOS A	0.4	2.5	0.19	0.46	0.19	44.3
8	T1	37	0.0	0.071	3.0	LOS A	0.4	2.5	0.19	0.46	0.19	47.4
9	R2	34	0.0	0.071	7.5	LOS A	0.4	2.5	0.19	0.46	0.19	47.7
Appro	ach	94	0.0	0.071	4.7	LOS A	0.4	2.5	0.19	0.46	0.19	47.0
West:	Edward	Street										
10	L2	33	0.0	0.065	3.1	LOS A	0.2	1.6	0.13	0.39	0.13	47.3
11	T1	47	0.0	0.065	2.8	LOS A	0.2	1.6	0.13	0.39	0.13	48.8
12	R2	7	0.0	0.065	7.4	LOS A	0.2	1.6	0.13	0.39	0.13	49.2
Appro	ach	87	0.0	0.065	3.3	LOS A	0.2	1.6	0.13	0.39	0.13	48.3
All Ve	hicles	323	0.0	0.079	3.9	LOS A	0.4	2.8	0.19	0.41	0.19	47.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

Roundabout Capacity Model: SIDRA Standard.

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.

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Site: 1 [Edward St x Oliver St - FRI EX + DEV]

Intersection: Oliver Street & Edward Street Period: Friday Scenario: Existing + Development Site Category: (None) Roundabout

Move	ement F	Performanc	ce - Vel	hicles								
Mov	Turn	Demand I		Deg.	Average	Level of	95% Back		Prop.		Aver. No.	
ID		Total	HV %	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Cycles	Speed
South	: Oliver	veh/h Street	%	v/c	sec	_	veh	m	_	_	_	km/h
1	L2	6	0.0	0.037	3.7	LOS A	0.2	1.1	0.28	0.40	0.28	48.8
2	 T1	36	0.0	0.037	3.3	LOSA	0.2	1.1	0.28	0.40	0.28	48.1
3	R2	2	0.0	0.037	7.8	LOSA	0.2	1.1	0.28	0.40	0.28	48.6
Appro		44	0.0	0.037	3.6	LOSA	0.2	1.1	0.28	0.40	0.28	48.3
			0.0	0.007	5.0	LOOA	0.2	1.1	0.20	0.40	0.20	40.5
East:	Edward	Street										
4	L2	2	0.0	0.106	3.2	LOS A	0.5	3.8	0.24	0.39	0.24	47.7
5	T1	120	0.0	0.106	3.3	LOS A	0.5	3.8	0.24	0.39	0.24	49.3
6	R2	15	0.0	0.106	7.7	LOS A	0.5	3.8	0.24	0.39	0.24	47.5
Appro	bach	137	0.0	0.106	3.7	LOS A	0.5	3.8	0.24	0.39	0.24	49.2
North	: Oliver S	Street										
7	L2	16	0.0	0.070	3.2	LOS A	0.4	2.5	0.21	0.45	0.21	44.4
8	T1	45	0.0	0.070	3.1	LOS A	0.4	2.5	0.21	0.45	0.21	47.5
9	R2	28	0.0	0.070	7.8	LOS A	0.4	2.5	0.21	0.45	0.21	48.7
Appro	bach	89	0.0	0.070	4.6	LOS A	0.4	2.5	0.21	0.45	0.21	47.5
West:	Edward	Street										
10	L2	27	0.0	0.071	3.1	LOS A	0.3	1.9	0.13	0.40	0.13	47.4
11	T1	56	0.0	0.071	2.9	LOS A	0.3	1.9	0.13	0.40	0.13	49.0
12	R2	14	0.0	0.071	7.5	LOS A	0.3	1.9	0.13	0.40	0.13	49.5
Appro	bach	97	0.0	0.071	3.6	LOS A	0.3	1.9	0.13	0.40	0.13	48.7
All Ve	hicles	367	0.0	0.106	3.9	LOS A	0.5	3.8	0.21	0.41	0.21	48.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

Roundabout Capacity Model: SIDRA Standard.

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.

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Site: 1 [Edward St x Oliver St - SAT EX + DEV]

Intersection: Oliver Street & Edward Street Period: Saturday Scenario: Existing + Development Site Category: (None) Roundabout

Movement Performance - Vehicles												
Mov			emand Flows		Average	Level of	95% Back of Queue		Prop.		Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay	Service	Vehicles veh	Distance	Queued	Stop Rate	Cycles	Speed km/h
South: Oliver Street		70	V/C	sec	_	ven	m	_	_	_	KIII/I	
1	L2	7	0.0	0.033	3.6	LOS A	0.1	1.0	0.26	0.41	0.26	48.7
2	T1	28	0.0	0.033	3.2	LOS A	0.1	1.0	0.26	0.41	0.26	48.0
3	R2	5	0.0	0.033	7.8	LOS A	0.1	1.0	0.26	0.41	0.26	48.5
Appro	ach	41	0.0	0.033	3.9	LOS A	0.1	1.0	0.26	0.41	0.26	48.2
East: Edward Street												
4	L2	5	0.0	0.087	3.2	LOS A	0.4	3.0	0.23	0.41	0.23	47.0
5	T1	88	0.0	0.087	3.2	LOS A	0.4	3.0	0.23	0.41	0.23	49.
6	R2	18	0.0	0.087	7.6	LOS A	0.4	3.0	0.23	0.41	0.23	47.3
Appro	ach	112	0.0	0.087	3.9	LOS A	0.4	3.0	0.23	0.41	0.23	48.
North	: Oliver S	Street										
7	L2	23	0.0	0.074	3.1	LOS A	0.4	2.6	0.20	0.47	0.20	44.2
8	T1	37	0.0	0.074	3.0	LOS A	0.4	2.6	0.20	0.47	0.20	47.4
9	R2	37	0.0	0.074	7.7	LOS A	0.4	2.6	0.20	0.47	0.20	48.2
Approach		97	0.0	0.074	4.8	LOS A	0.4	2.6	0.20	0.47	0.20	47.2
West:	Edward	Street										
10	L2	37	0.0	0.071	3.2	LOS A	0.3	1.8	0.13	0.40	0.13	48.0
11	T1	52	0.0	0.071	3.0	LOS A	0.3	1.8	0.13	0.40	0.13	49.
12	R2	8	0.0	0.071	7.6	LOS A	0.3	1.8	0.13	0.40	0.13	50.1
Approach		97	0.0	0.071	3.4	LOS A	0.3	1.8	0.13	0.40	0.13	49.1
All Ve	hicles	346	0.0	0.087	4.0	LOS A	0.4	3.0	0.20	0.42	0.20	48.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site 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.

Roundabout Capacity Model: SIDRA Standard.

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.

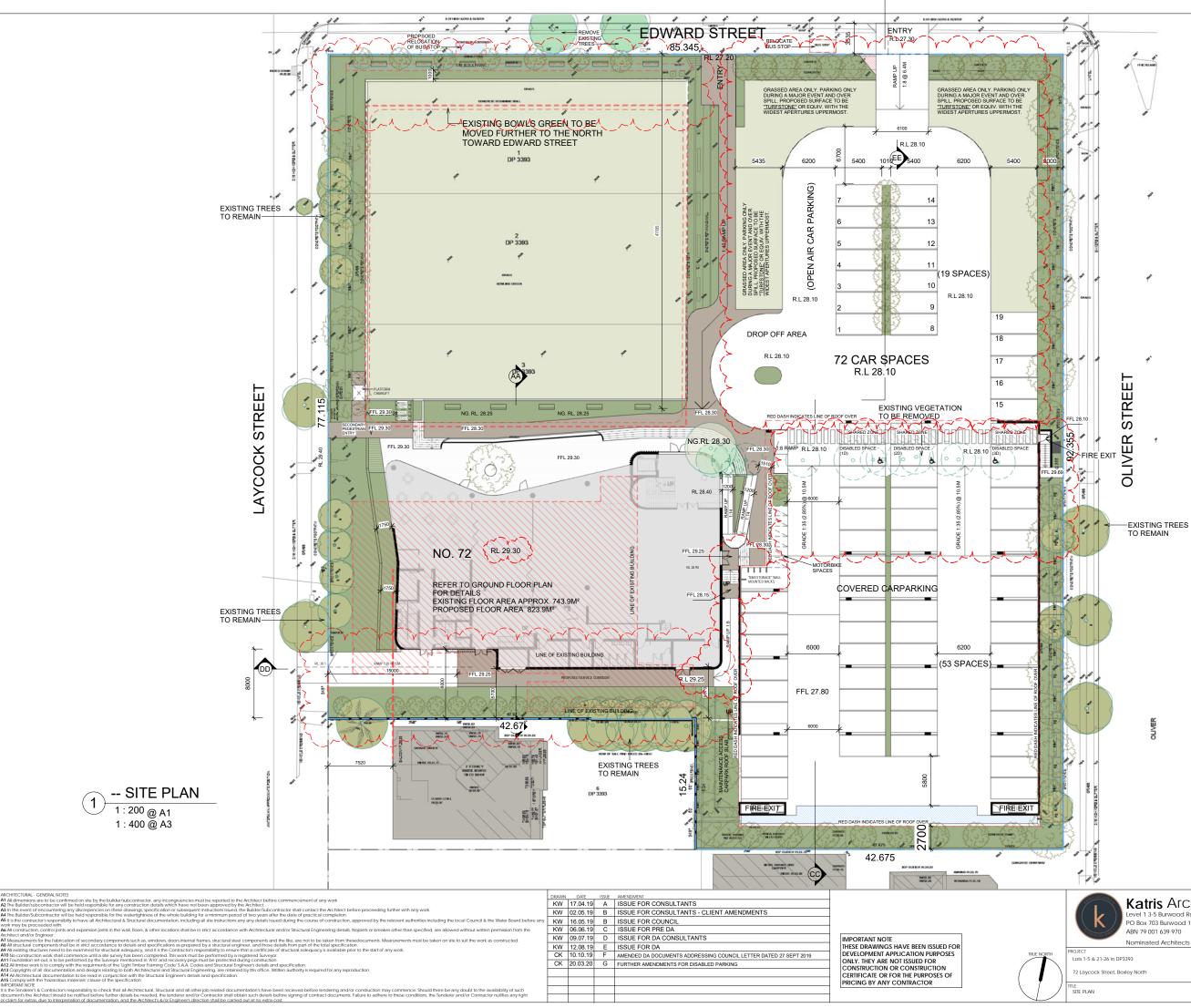
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Appendix C

0143r03v01 | 6/04/2020 72 Laycock Street, Bexley North | Updated Traffic Impact Assessment



CLOUDS INDICATE MODIFICATIONS

Katris Architects Pty Ltd Level 1 3-5 Burwood Road, Concord NSW 2137 PO Box 703 Burwood 1805 NSW Australia

p 02 9744 5421 f 02 9747 5046 www.katris.com.au



Nominated Architects Nick Katris (Reg 3878), Peter Katris (Reg 4569), Chris Katris (Reg 9724)

Lots 1-5 & 21-26 in DP3393	AHEPA NS	SW			
72 Laycock Street, Bexley North	DRAWN		ARCHITECT'S APPROVAL		JOB No.
	KW		NK		1375-17
TITLE SITE PLAN		SCALE @ A3		DRAWING No	ISSUE
	20.03.2020	1:200	1:200	A006	G



Appendix D

0143r03v01 | 6/04/2020 72 Laycock Street, Bexley North | Updated Traffic Impact Assessment

Julius Boncato

From: Sent: To: Subject:	Edward Osiowy <edward.osiowy@transport.nsw.gov.au> Monday, 5 August 2019 4:45 PM Julius Boncato RE: Enquiry to Relocate a Bus Stop - 72 Laycock Street, Bexley North (Bexley Bowling Club)</edward.osiowy@transport.nsw.gov.au>
Follow Up Flag:	Follow up
Flag Status:	Completed

Hi Julius,

Initial high-level review shows no particular issues with the proposed relocation of the westbound bus stop on Edward St (TSN 2207188). The two existing street trees however might be a factor in more detailed investigations. The actual, final bus stop location and layout will be subject to more detailed assessment by Council and the local bus operator in relation to traffic and pedestrian safety, the two street trees, ELPs and the proposed new driveway.

Please let me know if you need more info.

Regards,

Edward Osiowy Planner Services Greater Sydney Division Transport for NSW

Level 2, 18 Lee Street, CHIPPENDALE NSW 2008, (PO Box K659 Haymarket NSW 1240)



From: Julius Boncato [mailto:jboncato@pdcconsultants.com.au]
Sent: Monday, 5 August 2019 3:37 PM
To: Edward Osiowy
Subject: FW: Enquiry to Relocate a Bus Stop - 72 Laycock Street, Bexley North (Bexley Bowling Club)

FYI

Kind Regards,

Julius Boncato Traffic Engineer



PDC Consultants m: +61 435 957 061

e: jboncato@pdcconsultants.com.au

w: www.pdcconsultants.com.au

a: Suite 202 / 27-39 Abercrombie Street, Chippendale NSW 2008

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We have moved! Please note our new address is Suite 202 / 27-39 Abercrombie St, Chippendale.

From: Julius Boncato
Sent: Tuesday, 23 July 2019 9:59 AM
To: information@transport.nsw.gov.au
Cc: Paul Corbett <pcorbett@pdcconsultants.com.au>
Subject: Enquiry to Relocate a Bus Stop - 72 Laycock Street, Bexley North (Bexley Bowling Club)

Hi TfNSW,

I am a traffic engineer, acting on behalf of our client. We are currently working on the proposed redevelopment of Bexley Bowling Club at 72, Laycock Street, Bexley North and we would like to enquire about a potential relocation of a bus stop fronting our site, along Edward Street (see attached screenshot). As per the Proposed Site Plan (see attached), the new access driveway onto Edward Street is located immediately east of the subject bus stop. Accordingly, we would like to understand the process and requirements to undertake a bus stop relocation.

It would be greatly appreciated if you could assist us with this enquiry.

Please do not hesitate to contact me if you require further information or wish to discuss.

Kind Regards,

Julius Boncato Traffic Engineer



PDC Consultants m: +61 435 957 061

- e: jboncato@pdcconsultants.com.au
- w: www.pdcconsultants.com.au

a: Suite 202 / 27-39 Abercrombie Street, Chippendale NSW 2008

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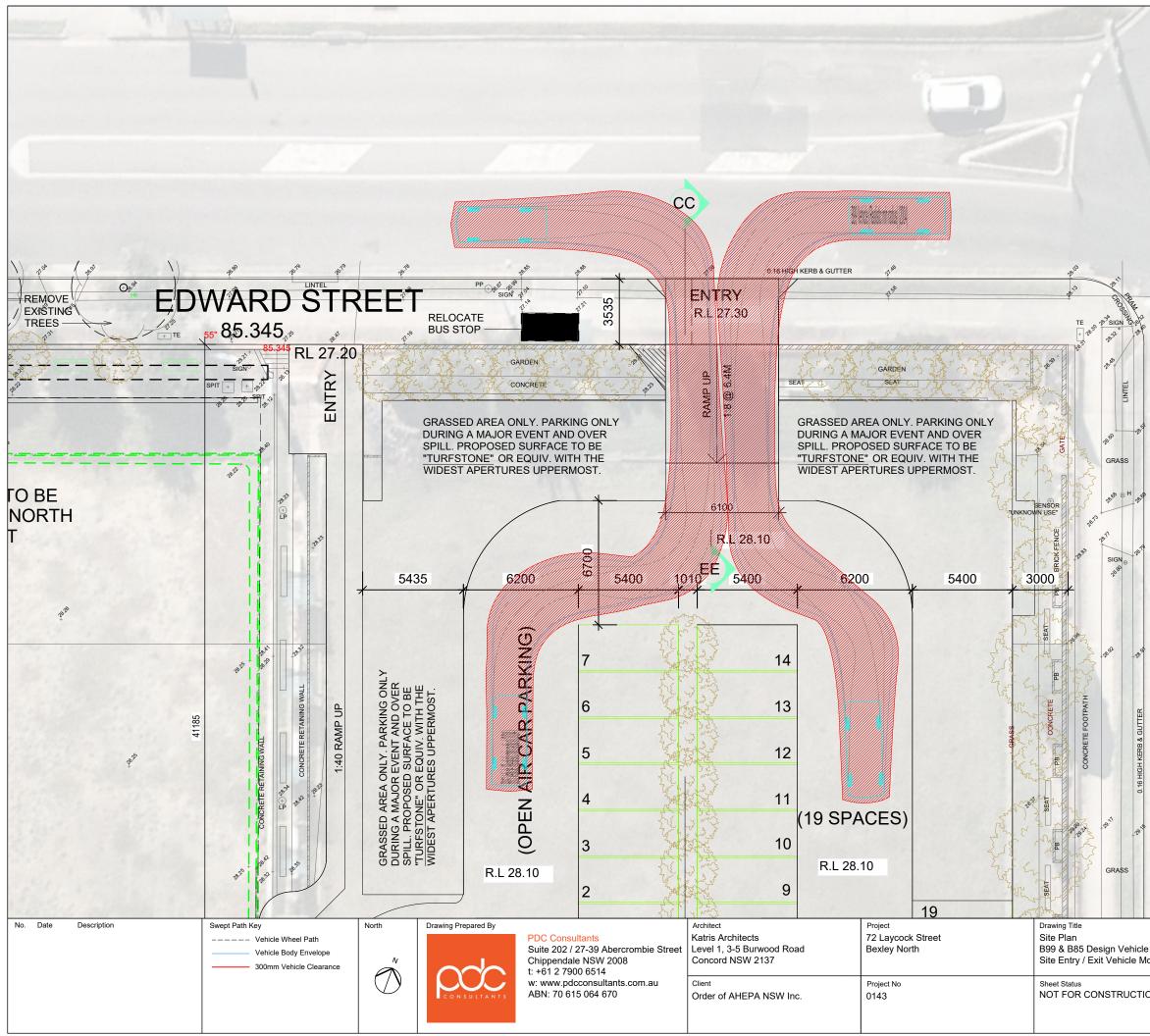
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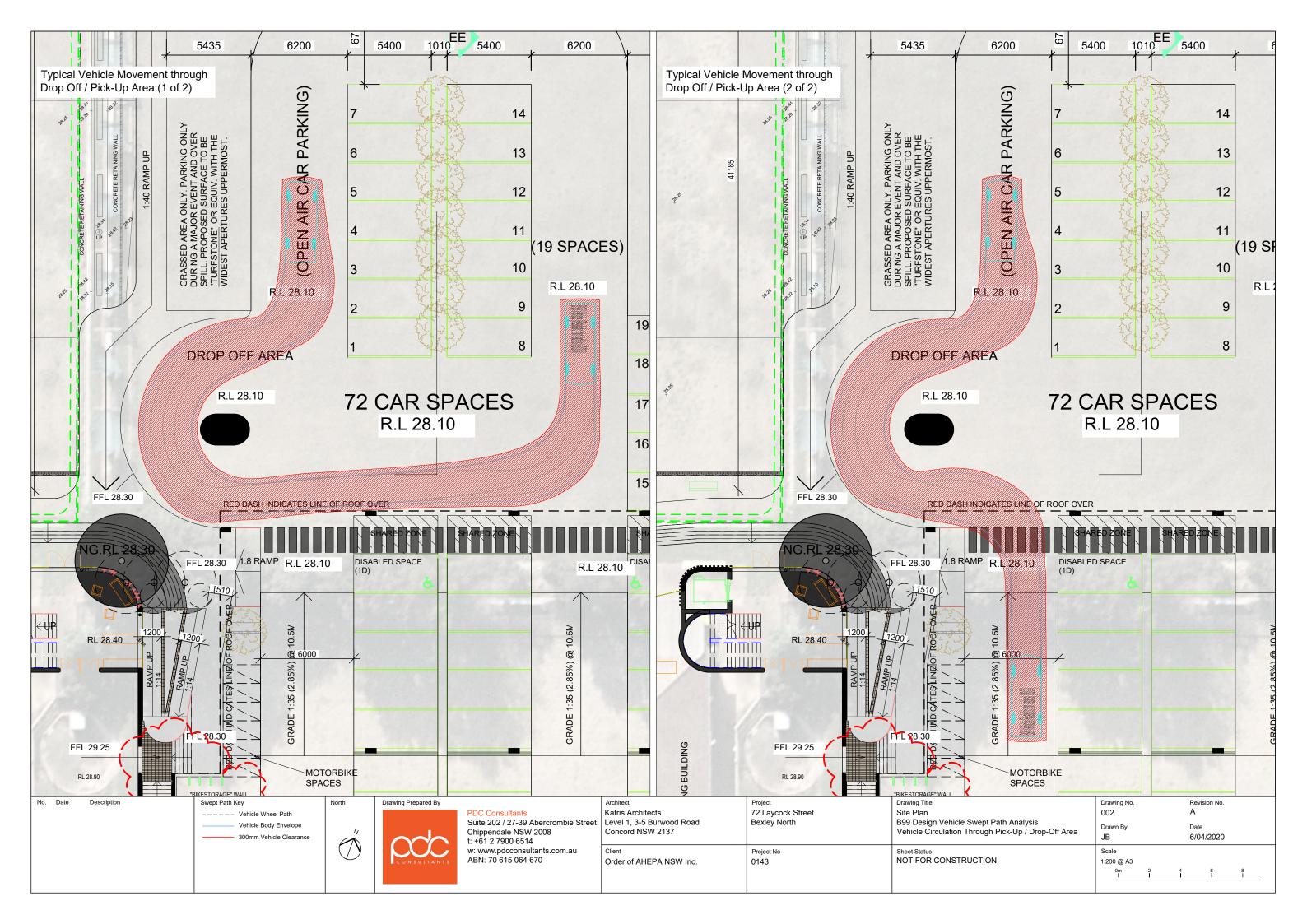


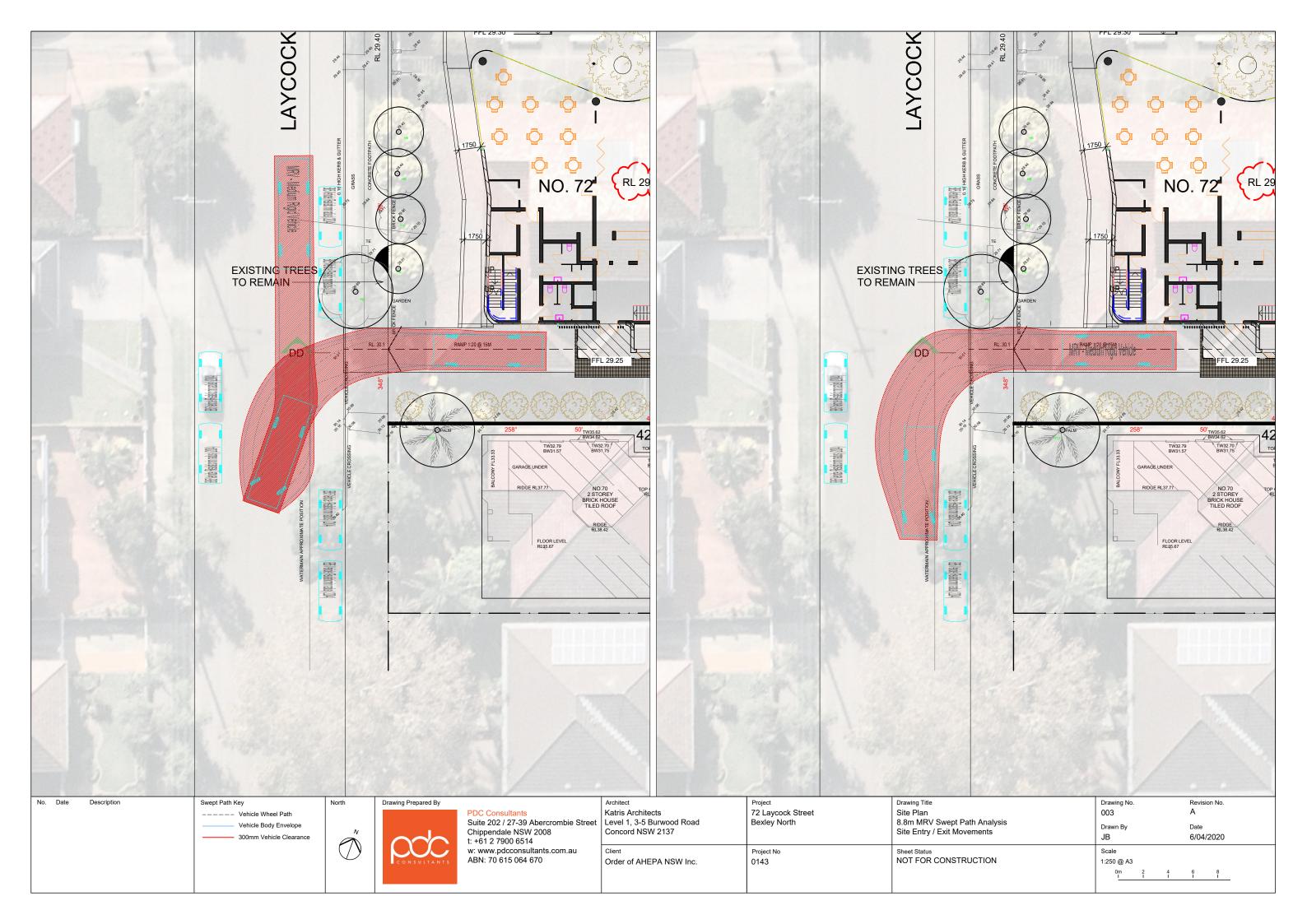
Appendix E

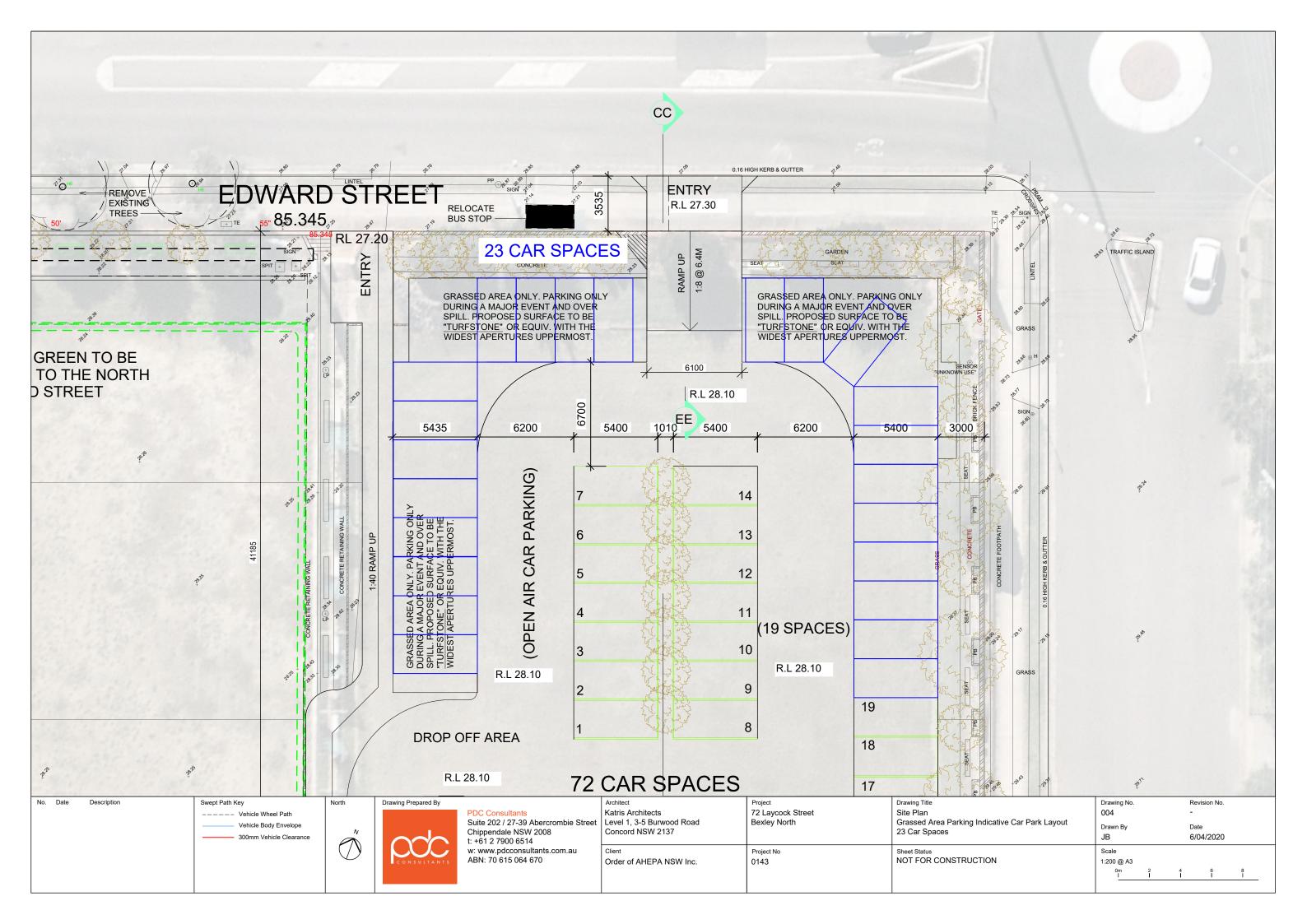
0143r03v01 | 6/04/2020 72 Laycock Street, Bexley North | Updated Traffic Impact Assessment



RBS TRAFFIC ISLAND	0		
198 (TRAFFIC ISLAND	9		No. Contraction
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e ^{هه} Swept Path Analysis	Drawing No. 001 Drawn By	Revision No. A Date	
DN	JB Scale 1:200 @ A3	6/04/2020	8









Appendix F

