TRAFFIC AND PARKING IMPACT ASSESSMENT

Proposed Boarding House

16 Wyatt Avenue in Belrose

Prepared for: NORTHERN BEACHES ESSENTIAL ACCOMMODATION

N216473 (Version 1a)

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1.INTRODUCTION

Motion Traffic Engineers was commissioned by NORTHERN BEACHES ESSENTIAL ACCOMMODATION to undertake a traffic and parking impact assessment of a proposed boarding house development at 16 Wyatt Avenue in Belrose.

The Boarding House site has frontage to Wyatt Avenue and currently is occupied by a single dwelling house. Access for pedestrians and vehicles are provided via Wyatt Avenue. Parking is provided on two separate basement levels.

This traffic report focuses on the proposed boarding house and changes in car usage and car park utilisation and additional trips from the proposed boarding house.

In the course of preparing this assessment, the subject site and its environs have been inspected, plans of the development are examined, all relevant traffic and parking data have been collected and analysed.



2.BACKGROUND AND EXISTING CONDITIONS OF THE BOARDING HOUSE SITE

2.1.LOCATION AND LANDUSE

The subject site is located at 16 Wyatt Avenue in Belrose.

The proposed Boarding House Development is located on Wyatt Avenue in a predominantly residential area. Wyatt Reserve is located to the south of the subject site on the opposite side of Wyatt Avenue and John Colet School is located to the east.

Figures 1 and 2 show the location of the subject site from aerial and street map perspective respectively. Figure 2 also shows the location of the surveyed intersections in relation of the site.

Figure 3 shows photography of the site frontage from Wyatt Avenue.

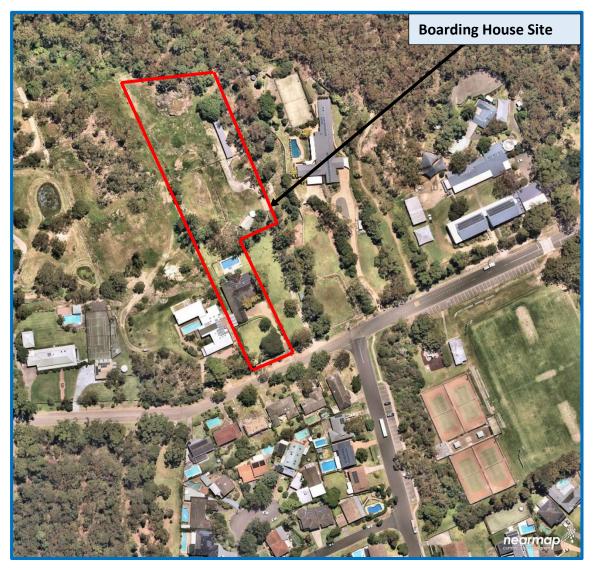


Figure 1: Location of the Subject Site on Aerial

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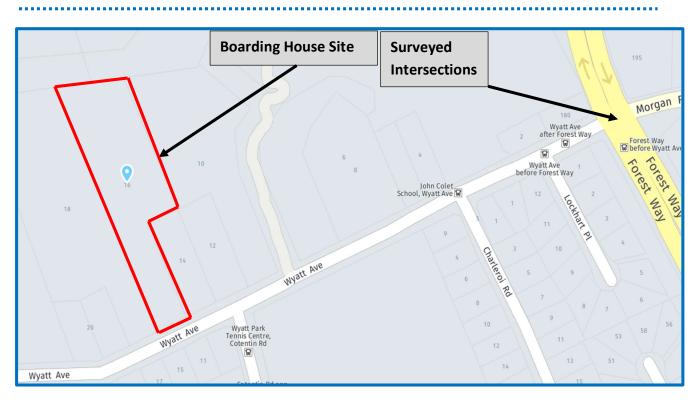


Figure 2: Location of the Subject Site on Aerial



Figure 3: Photograph of the Site from Wyatt Avenue

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2.2.ROAD NETWORK

This section discusses the road network adjacent to the site.

Forest Way is an arterial road with two lanes each way separated by a median strip. Parking is not permitted on both sides of the road. The sign posted speed limit is 80km/hr. A bicycle lane is provided near Wyatt Avenue. Figure 4a shows a photograph of Forest Way.

Morgan Road is a collector road with one lane of travel in each direction. Lane marking are not provided on some sections of the road. Parking is permitted on both sides of Morgan Road. The sign posted speed limit is 50 km/hr. Figure 4b shows a photograph of Morgan Road.

Wyatt Avenue is a local road with one lane of travel in each direction. Parking is permitted on both sides of Wyatt Avenue. Wyatt Avenue is subject to school zone and speed limits are enforced on school days. A speed restriction of 40km/hr applies between 8am to 9.30am and 2.30pm to 4pm during school days. Figure 4c shows a photograph of Wyatt Avenue.



Figure 4: Forest Way looking North from Wyatt Avenue





Figure 5a: Wyatt Avenue looking East from Opposite the proposed Boarding House



Figure 5b: Wyatt Avenue looking West from adjacent to the Boarding House Site





Figure 5c: Wyatt Avenue looking East to Forest Way Intersection

2.3. Public Transport

The Boarding House site is within a one-minute walking distance to local bus stop. Figure 5 shows the site in relation to the local bus route. The site is within 40 metres of bus stop on Cotentin Road. The Boarding House site has access to public transport because of the proximity to the bus stops along Forest Way, Cotentin Road and Wyatt Avenue.



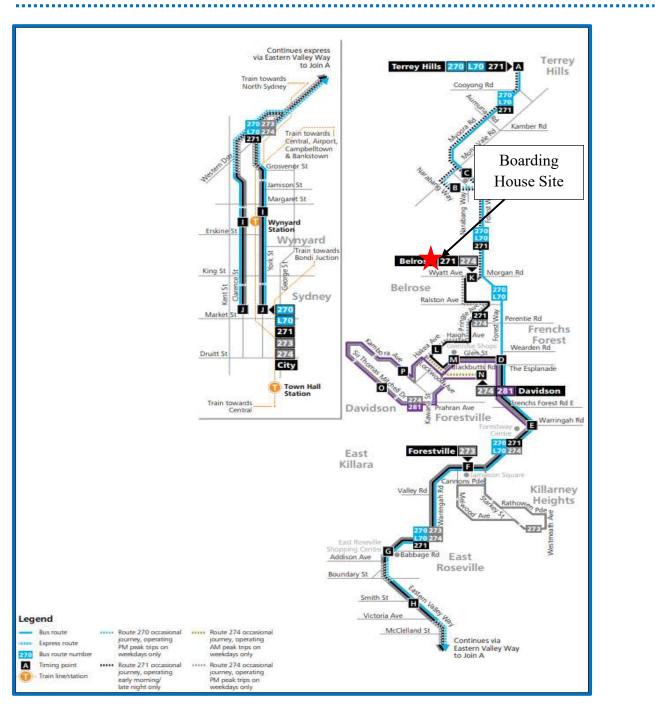


Figure 5: Local Public Transport Facilities



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2.4.INTERSECTION DESCRIPTION

As part of this traffic impact assessment the following intersection is assessed for the traffic generation:

Signalised intersection of Forest Way with Morgan Road and Wyatt Avenue

External traffic to and from the proposed boarding house will need to travel through the above intersections.

The signalised intersection of Forest Way with Morgan Road and Wyatt Avenue is a four-leg intersection with all turn movements permitted. Pedestrian crossings are provided on the northern and eastern approaches. Figure 6a shows the layout of the intersection using SIDRA 9– an industry standard intersection software. The number on the lane represents the length of a short lane in metres. Figure 6a shows the intersection on aerial map.

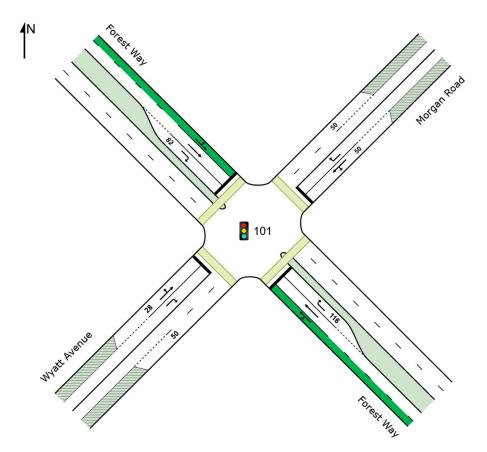


Figure 6a: Signalised intersection of Forest Way with Wyatt Avenue and Morgan Road (SIDRA)





Figure 6b: Aerial View of the Signalised intersection of Forest Way with Wyatt Avenue and Morgan Road

2.5.EXISTING TRAFFIC VOLUMES

As part of the traffic assessment, traffic counts have been undertaken at the two intersections for the weekday AM and PM peak period. The peak hours were 7:45am to 8:45am and 5pm to 6pm for the weekday AM and PM peak hours respectively.

The following Figures present the traffic volumes in vehicles for the weekday peak hours. The bracketed numbers are trucks or buses and un-bracketed are cars.



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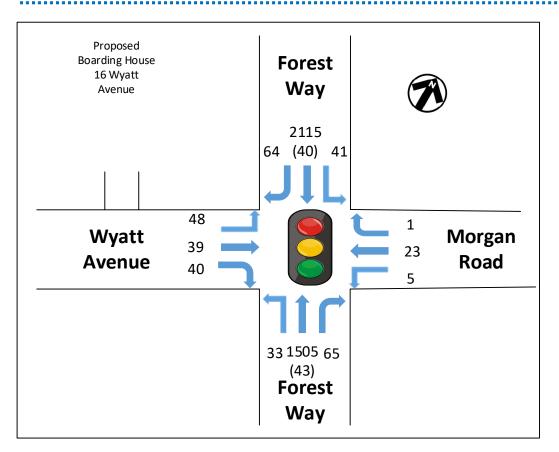


Figure 7a: Existing Weekday Traffic Volumes AM Peak Hour

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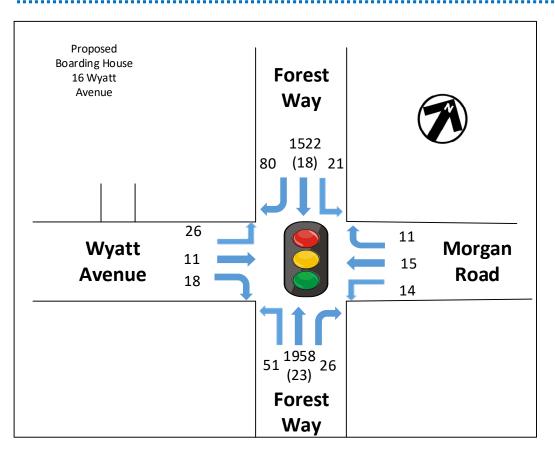


Figure 7b: Existing Weekday Traffic Volumes PM Peak Hour



2.6.INTERSECTION ASSESSMENT WITH EXISTING TRAFFIC

An intersection assessment has been undertaken for the nearby surveyed intersection.

The existing intersection operating performance was assessed using the SIDRA software package (version 9) to determine the Degree of Saturation (DS), Average Delay (AVD in seconds) and Level of Service (LoS) at each intersection. The SIDRA program provides Level of Service Criteria Tables for various intersection types. The key indicator of intersection performance is Level of Service, where results are placed on a continuum from 'A' to 'F', as shown in Table 1.

LoS	Traffic Signal / Roundabout	Give Way / Stop Sign / T-Junction control
А	Good operation	Good operation
В	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
С	Satisfactory	Satisfactory, but accident study required
D	Operating near capacity	Near capacity & accident study required
E	At capacity, at signals incidents will cause excessive delays.	At capacity, requires other control mode
F	Unsatisfactory and requires additional capacity, Roundabouts require other control mode	At capacity, requires other control mode

Table 1: Intersection Level of Service

The Average Vehicle Delay (AVD) provides a measure of the operational performance of an intersection as indicated below, which relates AVD to LOS. The AVD's should be taken as a guide only as longer delays could be tolerated in some locations (i.e. inner city conditions) and on some roads (i.e. minor side street intersecting with a major arterial route). For traffic signals, the average delay over all movements should be taken. For roundabouts and priority control intersections (sign control) the critical movement for level of service assessment should be that movement with the highest average delay.





LoS	Average Delay per Vehicles (seconds/vehicle)
LUS	
A	Less than 14
В	15 to 28
С	29 to 42
D	43 to 56
Е	57 to 70
F	>70

Table 2: Intersection Average Delay (AVD)

The degree of saturation (DS) is another measure of the operational performance of individual intersections. For intersections controlled by traffic signals both queue length and delay increase rapidly as DS approaches 1. It is usual to attempt to keep DS to less than 0.9. Degrees of Saturation in the order of 0.7 generally represent satisfactory intersection operation. When DS exceed 0.9 queues can be anticipated.

The results of the intersection analysis are as follows:

Forest Way with Morgan Road and Wyatt Avenue

- Solution The overall intersection has a LoS C and B for the AM and Peak hours respectively
- **c** There is spare capacity at this intersection

The full Sidra results are presented in Appendix A.



2.7.ON-STREET PARKING OPPORTUNITIES

On street parking is provided generally on Wyatt Avenue. The road section adjacent to the site has a road shoulder and is not suitable for on street parking (see Figure 5b). On street parking near the nearby school is restricted to drop off and pick up events during the school drop off/pick up period. Ninety-degree parking is located adjacent to Wyatt Reserve.

There are vacant car spaces near and opposite the Boarding House site at all times during the day. Vacant on street car spaces are more limited adjacent to the nearby school during the drop and pick up period.

2.8.CONCLUSIONS ON THE EXISTING CONDITIONS

The proposed boarding house is located in a residential area. The development is fronting local road Wyatt Avenue.

The nearby intersection overall performs well with sufficient spare capacity to accommodate additional traffic.

The site has good access to public transport and is within walking distance of local bus services.

Page L C



3.PROPOSED DEVELOPMENT

The land use for the proposed boarding house is as follows:

• 61 Boarding House rooms plus one care takers residence.

The car parking is provided on basement level with vehicle access and egress via Wyatt Avenue. The proposed car parking includes:

- 32 Car spaces
 - 31 tenant car parking spaces
 - o 1 Care taker car parking space
- 10 Motorcycle spaces
- 16 Bicycle spaces

A full scaled plan of the proposed boarding house is provided as part of the Development Application.

4.BUSH FIRE PRONE LAND

The area in which the development is proposed, is considered to be a bush fire prone area under the Northern Beaches Bush Fire Prone Land Map (7th of August 2020). This means the proposed boarding house needs to comply with The NSW Bush Fire Brigades, "Planning for Bush fire Protection 2019" document. As the Northern end of the site is more than 200m from the nearest public through Road, the proposed driveway and internal road system needs to be designed to cater for a standard fire truck.

A T-shaped bay, as well as extra access driveways have been provided to enable site access and vehicle manoeuvring for fire trucks.



5.PARKING REQUIREMENTS

5.1. Warringah Council's Planning Scheme for Car Parking Assessment

Warringah's Development Control Plan 2000 (WDCP 2000) applies to this site. WDCP 2000 does not contain any carparking requirements.

Warringah's Development Control Plan 2011 does not apply to this site, but details are provided for reference. The car parking requirements for Residential developments contained in Warringah Council's Development Control Plan 2011, Appendix 1 is as follows for Backpackers' accommodation, Boarding house, Group home:

Backpackers' accommodation, Boarding house, Group home

Comparisons must be drawn with developments for a similar purpose.

However, the car parking requirements for boarding houses are presented in *State Environmental Planning Policy (Affordable Rental Housing) 2009 (ARH SEPP*_with the car parking rates as follows as it applies to the proposed boarding house:

• 0.5 parking spaces provided for each bed

Not more than 1 parking space provided for each person employed in connection with the development and who is resident on site

Table 4 summarises the car parking requirements for the boarding house development

The requirements under the SEPP is 32 car spaces are required and 32 car spaces are provided and includes two accessible spaces. The proposed boarding house complies with SEPP (Affordable Rental Housing) 2009.

Land Use	Number of Rooms	Car Parking Rate	Car Spaces Required	Car Spaces Provided
Boarding Room	61	0.5 spaces per boarding room	31	32
Caretaker	1	1 space per employee	1	
	32	32		

Table 3: Summary of Car Parking Requirements and Provision



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There is no visitor requirements for a boarding house. Visitor car parking demand can be met on the site frontage of Wyatt Avenue.

6.VEHICLE TRAFFIC IMPACTS

6.1.Traffic Generation

The RTA "Guide to Traffic Generating Developments Updated Traffic Surveys August 2013" does not publish trip generation rates for a boarding house but it does for motel rooms as follows:

- 0.4 trips per unit for the weekday evening peak hour
 - The trip rate is comparable to the car parking rate

For the purposes of the traffic assessment only, the above trip rate is used for the boarding house traffic assessment.

Table 4 summarises the trips generated by the proposed boarding house.

Table 5 summarises the new trip distribution for the proposed boarding house. The proposed boarding house is a low trip generator.

Peak Hour	Use	Number of Rooms	Trip Generation Rate	Trips Generated
AM	Boarding	61	0.4 trips per room	25
PM	Room	01	0.4 trips per room	25

Table 4: Trip generation for the Proposed Boarding House

Net Trips										
Weekday Rates	Origin	Destination	Total							
AM Peak Hour	19	6	25							
PM Peak Hour	6	19	25							

Table 5: Trip Distribution of the Proposed Boarding House

The proposed boarding house will generate a small number of additional trips in the peak hour periods.

The proposed boarding house is a moderate trip generator.

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6.2.Forecast Traffic Volumes

The following Figures present the existing with the development traffic.

The additional development traffic is in red for origin trips and blue for destination trips. The additional development traffic represents a small proportion of the existing traffic.

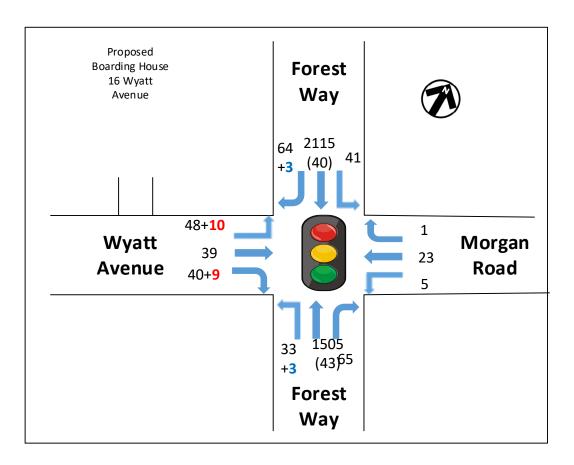


Figure 13: Existing Weekday AM Peak Hour Traffic Volumes with Development Traffic





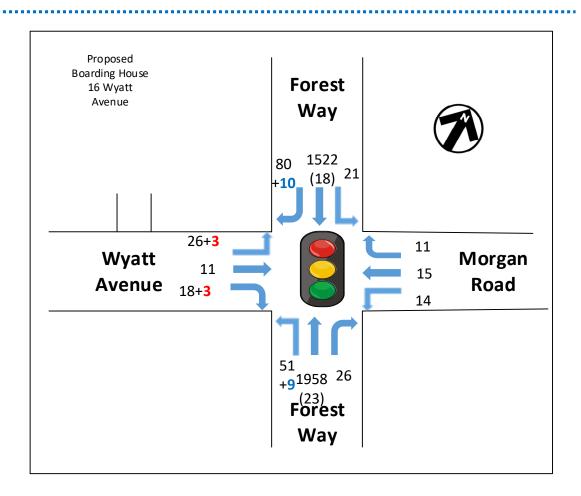


Figure 14: Existing Weekday PM Peak Hour Traffic Volumes with Development Traffic

6.3.Intersection Assessment

This section assesses the following intersections for the existing traffic with the school traffic. The results of the intersection assessment are as follows:

Forest Way with Morgan Road and Wyatt Avenue

- The overall intersection has a LoS C and B for the AM and Peak hours respectively
- **There is spare capacity at this intersection**

There is spare capacity at this intersection

The additional trips do not change the LoS for the overall intersection or for any turn movement



The full SIDRA results are presented in Appendix B for the existing conditions with the school traffic. The full SIDRA results are presented in Appendix A for the existing conditions.

7.CONCLUSIONS

This traffic impact assessment reports relates to a proposed residential development at 16 Wyatt Ave, Belrose. Based on the analysis and discussions presented in this report, the following conclusions are made:

- The subject site is located in a low-density residential zone with good access to public transport services
- **The surrounding intersection currently operates at good level of services**
- The proposed boarding house complies with the car parking requirements with ARH SEPP (2009). All tenant car parking demands will be met on site
- The proposed boarding house is expected to generate modest number of additional trips in both AM and PM peak hours.
- The additional trips can be accommodated in the nearby intersections without significantly affecting the performance of any turn movement, approach arm or the overall intersection.

There are no traffic engineering reasons why a development consent for the proposed Boarding House development at 16 Wyatt Avenue Belrose, should not be granted.



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APPENDIX A

INTERSECTION ASSESSMENT FOR EXISTING TRAFFIC

Vehi	icle Mo	ovement	Perform	nance										
Mov ID	′ Turn	INP VOLU [Total		DEMA FLO\ [Total		Deg. Satn	Aver. Delay	Level of Service	95% BA QUE [Veh.		Prop. Que	Effective Stop Rate	Aver. No. _S Cycles	Aver. Speed
		veh/h	veh/h	veh/h	%	v/c	sec	0011100	veh	m		, late	e yelee	km/h
Sout	hEast:	Forest Wa	ау											
1	L2	34	0	36	0.0	0.690	18.3	LOS B	31.0	221.9	0.68	0.63	0.68	47.9
2	T1	1545	40	1626	2.6	0.690	13.8	LOS A	31.0	221.9	0.68	0.63	0.68	61.0
3	R2	65	0	68	0.0	* 0.745	71.8	LOS F	4.4	30.5	1.00	0.86	1.23	25.1
Appro	oach	1644	40	1731	2.4	0.745	16.2	LOS B	31.0	221.9	0.69	0.64	0.70	57.4
North	nEast: I	Morgan R	oad											
4	L2	5	0	5	0.0	0.101	51.4	LOS D	1.5	10.4	0.89	0.66	0.89	30.2
5	T1	23	0	24	0.0	0.101	47.0	LOS D	1.5	10.4	0.89	0.66	0.89	30.3
6	R2	1	0	1	0.0	0.005	53.0	LOS D	0.1	0.4	0.88	0.59	0.88	28.9
Appr	oach	29	0	31	0.0	0.101	48.0	LOS D	1.5	10.4	0.89	0.66	0.89	30.3
North	nWest:	Forest W	ay											
7	L2	42	0	44	0.0	0.955	49.4	LOS D	83.8	596.0	0.98	1.07	1.19	33.9
8	T1	2158	43	2272	2.0	* 0.955	45.8	LOS D	83.8	596.0	0.97	1.07	1.18	39.8
9	R2	64	0	67	0.0	0.733	71.6	LOS F	4.3	30.0	1.00	0.85	1.22	25.2
Appro	oach	2264	43	2383	1.9	0.955	46.6	LOS D	83.8	596.0	0.97	1.07	1.19	39.0
Sout	hWest:	Wyatt Av	renue											
10	L2	48	0	51	0.0	0.286	51.4	LOS D	4.7	33.0	0.91	0.74	0.91	29.7
11	T1	39	0	41	0.0	* 0.286	47.1	LOS D	4.7	33.0	0.91	0.74	0.91	29.9
12	R2	40	0	42	0.0	0.185	53.7	LOS D	2.2	15.4	0.91	0.73	0.91	28.8
Appro	oach	127	0	134	0.0	0.286	50.8	LOS D	4.7	33.0	0.91	0.74	0.91	29.5
All Vehio	cles	4064	83	4278	2.0	0.955	34.4	LOS C	83.8	596.0	0.86	0.88	0.98	44.2

Table A1: Existing signalised intersection of Forest Way with Wyatt Avenue and Morgan Road for the weekday AM peak hour



			Deuferm											
venic		cle Movement Perform			ND	_		Level	05% B/	ACK OF		Effective	Avor	
Mov	Turn			FLOWS			Aver.	of		EUE	Prop.	Stop		Aver.
ID		[Total	HV]	[Total	HV]	Sath	Delay	Service	[Veh.	Dist]	Que	Rate	Cycles ²	Speed
		veh/h	veh/h	veh/h	%	v/c	sec		veh	m				km/h
South	East: I	Forest Wa	ау											
1	L2	52	0	55	0.0	0.894	31.2	LOS C	55.9	394.0	0.91	0.91	1.00	41.1
2	T1	1976	18	2080	0.9	* 0.894	27.0	LOS B	55.9	394.0	0.92	0.92	1.01	50.0
3	R2	26	0	27	0.0	0.273	62.0	LOS E	1.5	10.5	0.99	0.71	0.99	26.9
Appro	ach	2054	18	2162	0.9	0.894	27.6	LOS B	55.9	394.0	0.92	0.92	1.00	49.2
North	East: N	/lorgan R	oad											
4	L2	11	0	12	0.0	0.087	46.0	LOS D	1.2	8.7	0.87	0.67	0.87	31.2
5	T1	15	0	16	0.0	0.087	41.7	LOS C	1.2	8.7	0.87	0.67	0.87	31.4
6	R2	14	0	15	0.0	0.061	47.9	LOS D	0.7	4.8	0.88	0.69	0.88	30.2
Appro	ach	40	0	42	0.0	0.087	45.0	LOS D	1.2	8.7	0.88	0.67	0.88	30.9
North	West:	Forest W	ay											
7	L2	22	0	23	0.0	0.712	18.7	LOS B	30.4	215.4	0.72	0.66	0.72	47.2
8	T1	1545	23	1626	1.5	0.712	14.3	LOS A	30.4	215.4	0.71	0.66	0.71	60.7
9	R2	80	0	84	0.0	* 0.840	69.1	LOS E	5.1	35.6	1.00	0.94	1.41	25.6
Appro	ach	1647	23	1734	1.4	0.840	17.0	LOS B	30.4	215.4	0.73	0.67	0.75	56.7
South	West:	Wyatt Av	enue											
10	L2	26	0	27	0.0	0.108	43.5	LOS D	1.7	12.0	0.85	0.69	0.85	31.6
11	T1	11	0	12	0.0	* 0.108	39.0	LOS C	1.7	12.0	0.85	0.69	0.85	31.7
12	R2	18	0	19	0.0	0.078	48.1	LOS D	0.9	6.2	0.89	0.70	0.89	30.1
Appro	ach	55	0	58	0.0	0.108	44.1	LOS D	1.7	12.0	0.86	0.69	0.86	31.1
All Vehic	les	3796	41	3996	1.1	0.894	23.4	LOS B	55.9	394.0	0.83	0.81	0.89	51.4

Table A2: Existing signalised intersection of Forest Way with Wyatt Avenue and Morgan Road for the weekday PM peak hour

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APPENDIX B

INTERSECTION ASSESSMENT FOR FUTURE CONDITION WITH BOARDING HOUSE TRAFFIC

Vehi	cle Mo	ovement	Perform	nance										
Mov		INP		DEMA		Deg.	Aver	Level	95% BA		Prop.	Effective	Aver.	Aver.
ID	Turn	VOLU		FLO\		Satn	Delay	of Service	QUE		Que	Stop	No. e	Speed
		[Total veh/h	HV] veh/h	[Total veh/h	HV] %	v/c	sec	Service	[Veh. veh	Dist] m		Rate	Cycles	km/h
South	Fact: I	Forest Wa		VEII/II	70	V/C	360	_	Ven		_	_	_	KIII/II
1		37	ау О	39	0.0	0.691	10/	LOS B	31.2	222.7	0.68	0.63	0.68	48.0
2	T1	37 1545	40	1626	2.6	0.691		LOS B	31.2	222.7	0.68	0.63	0.68	40.0 61.0
3	R2	65	40 0	68	0.0	0.745		LOS F	4.4	30.5	1.00	0.86	1.23	25.1
Appro		1647	40	1734	2.4	0.745		LOS B	31.2	222.7	0.69	0.64	0.70	57.3
North	East: N	Morgan R	oad											
4	L2	5	0	5	0.0	0.101	51.4	LOS D	1.5	10.4	0.89	0.66	0.89	30.2
5	T1	23	0	24	0.0	0.101	47.0	LOS D	1.5	10.4	0.89	0.66	0.89	30.3
6	R2	1	0	1	0.0	0.005		LOS D	0.1	0.4	0.88	0.59	0.88	28.9
Appro	bach	29	0	31	0.0	0.101	48.0	LOS D	1.5	10.4	0.89	0.66	0.89	30.3
North	West:	Forest W	ay											
7	L2	42	0	44	0.0	0.956	49.8	LOS D	84.2	599.1	0.98	1.07	1.19	33.8
8	T1	2158	43	2272	2.0	* 0.956	46.2	LOS D	84.2	599.1	0.97	1.08	1.19	39.6
9	R2	67	0	71	0.0	* 0.767	72.3	LOS F	4.5	31.7	1.00	0.87	1.27	25.0
Appro	bach	2267	43	2386	1.9	0.956	47.1	LOS D	84.2	599.1	0.97	1.07	1.19	38.8
South	West:	Wyatt Av	enue											
10	L2	58	0	61	0.0	0.312	51.7	LOS D	5.3	37.0	0.92	0.75	0.92	29.6
11	T1	39	0	41	0.0	* 0.312	47.3	LOS D	5.3	37.0	0.92	0.75	0.92	29.8
12	R2	49	0	52	0.0	0.227	54.1	LOS D	2.7	19.1	0.92	0.74	0.92	28.7
Appro	bach	146	0	154	0.0	0.312	51.3	LOS D	5.3	37.0	0.92	0.75	0.92	29.3
All Vehic	les	4089	83	4304	2.0	0.956	34.8	LOS C	84.2	599.1	0.86	0.88	0.98	43.9

Table B1: Existing signalised intersection of Forest Way with Wyatt Avenue and Morgan Road forthe weekday AM peak hour with Boarding House Traffic



Vohi		womont	Dorform	22222										
Mov ID	Turn	ovement Perform INPUT VOLUMES		DEMAND FLOWS			Aver. Delay	Level of Service	QU	ACK OF EUE	Prop. Que	Effective Stop Rate	op No. _{Sn}	
		[Total veh/h	HV] veh/h	[Total veh/h	HV] %	v/c	sec	Service	[Veh. veh	Dist] m		Nale	Cycles_	km/h
South	East:	Forest Wa	ay											
1	L2	61	0	64	0.0	0.879	27.4	LOS B	55.2	389.5	0.89	0.86	0.93	43.0
2	T1	1976	18	2080	0.9	* 0.879	23.1	LOS B	55.2	389.5	0.89	0.86	0.93	52.8
3	R2	26	0	27	0.0	0.255		LOS E	1.6	11.3	0.99	0.72	0.99	26.1
Appro	ach	2063	18	2172	0.9	0.879	23.8	LOS B	55.2	389.5	0.89	0.86	0.93	51.7
North	East: N	Morgan R	oad											
4 5	L2 T1	11 15	0 0	12 16	0.0 0.0	0.090 0.090		LOS D LOS D	1.4 1.4	9.5 9.5	0.88 0.88	0.67 0.67	0.88 0.88	30.1 30.3
6	R2	14	0	15	0.0	0.063	52.3	LOS D	0.7	5.2	0.89	0.69	0.89	29.1
Appro	ach	40	0	42	0.0	0.090	49.4	LOS D	1.4	9.5	0.88	0.68	0.88	29.8
North	West:	Forest W	ay											
7 8	L2 T1	22 1545	0 23	23 1626	0.0 1.5	0.700 0.700		LOS B LOS A	32.1 32.1	227.7 227.7	0.69 0.69	0.64 0.63	0.69 0.69	47.1 60.6
9	R2	90	0	95	0.0	* 0.884	76.8	LOS F	6.3	44.4	1.00	0.99	1.48	24.3
Appro	ach	1657	23	1744	1.4	0.884	17.8	LOS B	32.1	227.7	0.70	0.65	0.73	55.8
South	West:	Wyatt Av	venue											
10	L2	29	0	31	0.0	0.120	47.9	LOS D	2.0	14.3	0.86	0.70	0.86	30.4
11	T1	11	0	12	0.0	* 0.120	43.4	LOS D	2.0	14.3	0.86	0.70	0.86	30.6
12	R2	21	0	22	0.0	0.094	52.6	LOS D	1.1	7.9	0.89	0.70	0.89	29.1
Appro	ach	61	0	64	0.0	0.120	48.7	LOS D	2.0	14.3	0.87	0.70	0.87	29.9
All Vehic	les	3821	41	4022	1.1	0.884	21.8	LOS B	55.2	389.5	0.81	0.77	0.84	52.4

Table B2: Existing signalised intersection of Forest Way with Wyatt Avenue and Morgan Road forthe weekday PM peak hour with Boarding House Traffic

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