

# **Westlake Property Ltd**

47a Lower Mortlake Road, London Borough of Richmond upon Thames

**Transport Statement** 

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Figure 2.2 - Local Controlled Parking Zones;

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Figure 2.6 - Car Club Locations.

## **Appendices**

Appendix A - Architect Plans; Appendix B - Parking Survey; Appendix C - PTAL Report;

Appendix D - TfL Bus Spider Map; and,

Appendix E - TRICS Report.



## 1 INTRODUCTION

- 1.1 TTP Consulting has been appointed by Westlake Property Ltd ("the Applicant") to provide traffic and transport advice in relation to the development proposals at 47a Lower Mortlake Road, within the London Borough of Richmond upon Thames (LBRuT).
- 1.2 The site is located in a highly accessible area in close proximity to Richmond town centre and Richmond Rail and Underground Station, providing access to numerous local amenities and public transport services. Lower Mortlake Road forms part of the Transport for London Road Network (TLRN) connecting the site immediately to the town centre, bus services, and the existing pedestrian and cycle networks. A site location plan is shown at **Figure 1.1**

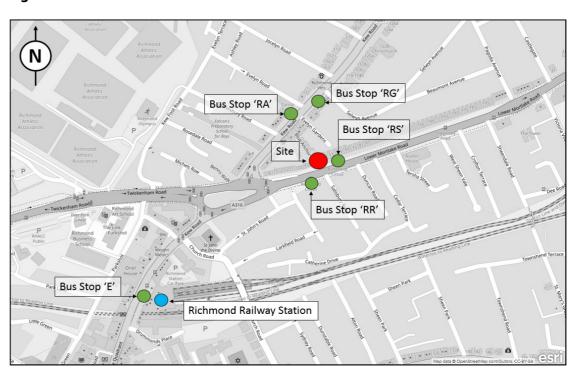


Figure 1.1: Site Location Plan

- 1.3 The existing site comprises an unused yard and is currently considered vacant with no formal land use. Vehicle access to the yard is served by an existing crossover on Lower Mortlake Road.
- The proposals seek to construct a three storey plus basement co-living scheme (Sui Generis) with 16 bedrooms and communal living spaces including a sunken courtyard. The development will be car-free with the existing vehicle crossover made redundant. Cycle parking and bin storage will also be provided. The architect's plans are included at **Appendix A**.



## **Scope of the Report**

- 1.5 This Transport Statement considers the effects of the proposed development in traffic and transport terms including accessibility, trip generation, car and cycle parking, servicing requirements and refuse collection. The remainder of this report will be set out as follows:
  - Section 2 describes the existing situation;
  - Section 3 sets out the relevant national, regional and local policy;
  - Section 4 details the proposals;
  - Section 5 considers the effect of the development and mitigation; and,
  - Section 6 summarises and concludes.



## **2 EXISTING SITUATION**

## **Site and Surrounding Area**

- 2.1 The site is currently unused and comprises of a concrete hardstanding which has previously functioned as a builders merchants. The site is situated between Blue Anchor Alleyway and No.47 Lower Mortlake Road, with vehicle access taken from Lower Mortlake Road via an existing crossover.
- 2.2 The site is located within a well-established residential area in close proximity to Richmond town centre. There are various commercial uses located within the town centre including a variety of restaurants and bars, medical services and convenience stores. Local bus stops are situated on Lower Mortlake Road in close proximity to the site access, whilst Richmond Rail and Underground Station is a 400m walk to the west.

## **Local Highway Network**

2.3 A plan of the local highway network in the vicinity of the site is shown at **Figure 2.1**.

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Figure 2.1: Local Highway Network

2.4 Lower Mortlake Road (A316) is a two-way dual carriageway orientated in an east to west direction between Richmond and North Sheen. It functions as a bus corridor with stops at intervals along its length including stop 'RS' immediately east of the site. Further east on-



street parking is provided along its northern side. Lower Mortlake Road forms part of the TLRN, and, as such, is subject to double red lines for the majority of its length.

2.5 Footways are provided on both sides of the road with trees and streetlighting at intervals along its length. Additionally, there is a loading bay immediately to the west of the site access, which restricts stopping Monday-Saturday between 7am and 7pm, except loading for a maximum of 20 minutes.

#### **On-Street Parking**

The site is within LBRuT Controlled Parking Zone 'N' (CPZ N) which operates restrictions Monday-Saturday from 10am to 4.30pm. CPZ 'A1' is also in close proximity to the site and operates restrictions Monday-Saturday from 8.30am to 6.30pm. However, in part, controls also apply on Sundays and Bank Holidays, and between 8.30am to Midnight everyday. **Figure 2.2** shows a map of local parking restrictions.

Figure 2.2: Local Controlled Parking Zones



- 2.7 On-street parking opportunities are located in close proximity to the site, there are resident parking bays, shared use spaces and single yellow line opportunities which can accommodate Blue Badge holders on most surrounding roads.
- 2.8 Blue Badge holders or drivers with a passenger who hold a valid badge can park in:
  - Any disabled bay (observe time limits on signs in short-stay disabled bays);
  - Permit holder bays, pay and display bays/pay by phone free of charge and no time limit;



- Shared use (permit holders or pay and display) free of charge and no time limit; and,
- Waiting restrictions (single or double yellow lines) up to three hours, provided the clock card is displayed and set to time of arrival.

### **Parking Surveys**

Overnight parking surveys were conducted on Sunday 15<sup>th</sup> September, Tuesday 17<sup>th</sup> September and Wednesday 18<sup>th</sup> September 2019 to ascertain current levels of parking within the local highway network during the typical busiest period. The survey covered a 200m walking distance from the site. A summary of the total number of parked cars and observed spaces is provided at **Table 2.1**. The full parking survey results are included at **Appendix B**.

**Table 2.1: Parking Survey Summary** 

Table 2.1: Parking Survey Summary								
	Sunday 15 <sup>th</sup>		Tuesday 17 <sup>th</sup>		Wednesday 18 <sup>th</sup>			
Area	Septen	nber 2019	Septem	ber 2019	Septen	nber 2019		
Alea	Parked	Observed	Parked	Observed	Parked	Observed		
	Cars	Spaces	Cars	Spaces	Cars	Spaces		
CPZ 'N'	269	64	278	59	280	54		
CPZ 'A1'	79	8	86	4	87	4		

# **Accessibility**

#### **On-Foot**

- 2.10 Generally, a person's willingness to walk is dependent on many factors including; access to a car, safety, road congestion, weather, gradients, parking, health, direction of route, and purpose of journey. It is generally accepted that for journeys of up to 2km walking is an appropriate mode to replace car trips as set out in The Chartered Institution of Highways and Transportation (CIHT) Guidelines (Guidelines for Providing for Journeys on Foot, 2000) which suggests a maximum 'acceptable' walking distance for pedestrians without mobility impairment of 2km. The Transport for London guidance document "Walking Best Practice", April 2012, also refers to car journeys up to 2km in length which could easily be walked in less than 30 minutes.
- 2.11 Richmond town centre is within an acceptable walking distance and accommodates a variety of facilities that serve the local catchment areas including bars, restaurants, a Post Office, an food stores, a gym, coffee shops and public houses.



- 2.12 There is a network of footways in the surrounding area, providing access to public transport facilities and local amenities. There is a step-free route between the site and Richmond High Street which involves the crossing of Lower Mortlake Road. Pedestrian crossings are provided with tactile paving, rotating cones, green-man and push button controls. The crossing is staggered with a barriered refuge island.
- 2.13 Footways are provided on both sides of most local roads with all main road providing at least 2m wide footways. Walking routes utilising Lower Mortlake Road and the Richmond gyratory to local transport opportunities are step-free, including Richmond Station which is step free from entrance to all platforms and from platform to train.
- 2.14 **Figure 2.3** highlights the site's 1km and 2km walking catchments.

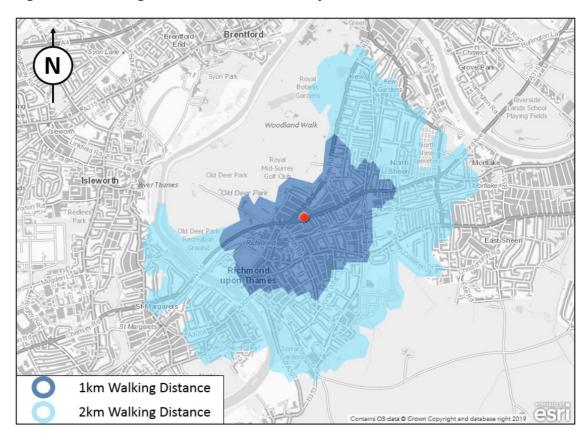


Figure 2.3: Walking Isochrone Catchment Map

- 2.15 There are a number of public transport opportunities located within a 1km walking distance of the site. TfL's recently published Healthy Streets initiatives refers to approximately one third of car trips which could be replaced by 25-minute walk, equivalent to a 2km distance.
- 2.16 **Table 2.2** sets out details of approximate distances to public transport opportunities.

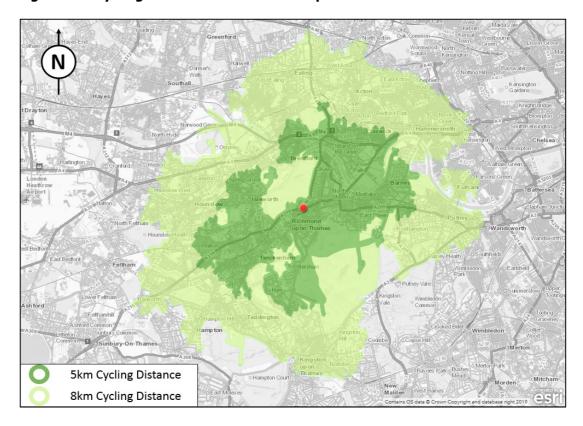


Table 2.2: A	pproximate Distance to Public Transport	Opportunitie	es
Amenity	nity Location		Approximate Walking Time
	Public Transport Opportuni	ty	
	Lower Mortlake Road (Stop 'RS')	<100m	1-minute
Bus Stops	Lower Mortlake Road (Stop 'RR')	<100m	1-minute
bus Stops	Kew Road (Stop 'RA')	150m	2-minutes'
	Kew Road (Stop 'RG')	150m	2-minutes'
Stations	Richmond Railway, Overground and Underground Station	400m	5-minutes'

## By Bicycle

It is generally accepted that cycling is a suitable mode of travel for journeys up to 8km in length although in London, longer journeys are commonplace. A number of town centres are within a 5km ride of the site. All of Richmond as well as Kew, Twickenham, Teddington, Hounslow, Acton, Kingston upon Thames, Putney and Hammersmith & Fulham are within an 8km cycle ride from the site, as shown in **Figure 2.4**.

Figure 2.4: Cycling Isochrone Catchment Map





- 2.18 There is a two-way stepped cycle track located on the southern footway of Lower Mortlake Road, which provides access from Richmond gyratory east towards North Sheen and along Lower Richmond Road towards Hammersmith.
- 2.19 Cycle parking is provided at Richmond Station with a total of 212 spaces located in the car park accessed via Drummonds Place.

#### **Public Transport**

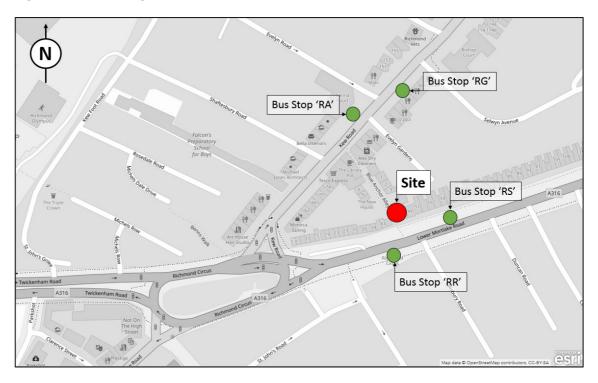
#### Public Transport Accessibility Level (PTAL)

- 2.20 Public Transport Accessibility Levels (PTALs) are a theoretical measure of the accessibility of a given point to the public transport network, taking into account walk access time and service availability. The PTAL is categorised in six levels, where 6 represents a high level of accessibility and 1 a low level of accessibility.
- 2.21 The site has a PTAL level of 6a, demonstrating that it has an excellent level of accessibility to public transport. **Appendix C** includes a summary of the PTAL report.

#### **Bus Services**

2.22 There are regular services from a number of bus stops located within a 100m walk of the site. The bus stops on Lower Mortlake Road and Kew Road are the closest to the site and are shown in **Figure 2.5**.

Figure 2.5: Bus Stop Locations





- 2.23 All bus stops have the following features:
  - Security (including lighting);
  - Bus stop post and flag;
  - Surface markings for buses;
  - Bus passenger shelter and seating;
  - Information (including timetables and maps); and,
  - Connectivity with the footway.
- 2.24 The local area TfL bus spider map is included at **Appendix D** which provides further information regarding the bus routes listed in the table.

Table 2.3	3: Summary of Bus Services			
Service	Route		rice Freque	-
No.	1.00.00	Mon-Fri	Sat	Sun
65	Brook Street – Ealing Broadway Station	4-8	5-9	8-12
190	George Street – Empress State Bldg/ West Brompton Station	12-16	12-16 15	
371	Manor Road/Sainsbury's – Kingston Hall Road	9-	12	11-12
391	George Street – Sands End/Sainsbury's	11-	11-14	
419	George Street – Barnes Pond	11-	11-16	
493	St George's/University of London – Richmond/Manor Road	10-	-14	19-21
H22	The Bell – Manor Road	11-	-14	19-21
H37	Hounslow Blenheim Centre – Manor Road	6-10	5-8	7-10
N22	South/Fulwell – Margaret Street/Oxford Circus	30 from	00.00 until	5.22am
N65	Chessington World of Adventures – Ealing Broadway Station	30 from	30 from 00.00 until	
R68	Kew Retail Park – Hampton Court Station	15	11-15	15
R70	Nurserylands Shopping Centre – Richmond/Manor Road	6-	10	15

#### **Rail Services**

2.25 Richmond Railway Station is located 400m (5-minute walk) to the west of the site and provides access to South Western Railway, London Overground and London Underground services. Richmond Station is step-free from the entrance to all platforms and trains. The station is run and managed by South Western Railway.



- 2.26 Rail services run from Richmond to London Waterloo, Wimbledon and Reading. There are 11 London bound services every hour and 6 outward bound services towards Reading and Windsor.
- 2.27 London Overground services terminate at Richmond and run to Stratford calling at all stations between. Four services leave the station towards Stratford every hour, calling at key stations such as Willesden Junction, Gospel Oak, Highbury & Islington, Hackney Central and Stratford.
- 2.28 A branch of the London Underground District Line serves and terminates at Richmond Station. Services run towards Upminster with opportunities to interchange at stations such as Earl's Court, Victoria, Embankment and Monument. There are 7 services leaving the terminus during the peak hours from Richmond towards Earl's Court.

## **Car Clubs**

2.29 Car clubs provide access to a car without the need to own one or pay for maintenance and running costs. The closest vehicle is located on Selwyn Avenue circa 160m (2-minute walk) from the site and run by Enterprise Car Club. There are further car club vehicles on Old Deer Park Gardens, Richmond Sheen Park and The Green North which are run by Zipcar. Locations and distances of car clubs are shown on **Figure 2.6** and summarised below:

Selwyn Avenue - 160m (2-minute walk) enterprise Carclub;

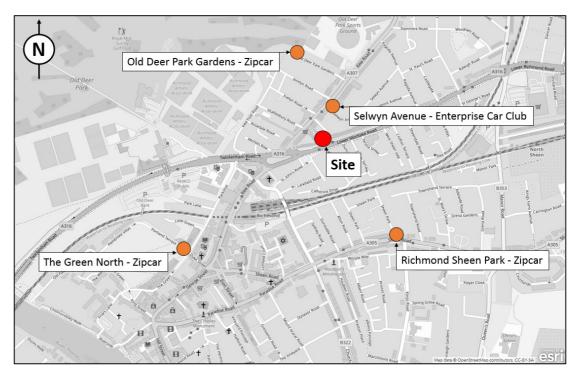
• Old Deer Park Gardens - 500m (6-minute walk) Zipcar;

The Green North - 750m (9-minute walk) Zipcar; and,

• Richmond Sheen Park - 1.1km (14-minute walk) Zipcar.



Figure 2.6: Car Club Locations



# **Car Ownership**

2.30 The 2011 Census has been interrogated to ascertain car ownership levels for private rented accommodation (1-3 rooms) in the Lower Super Output Area in which the site is located, Richmond upon Thames 004C. The data suggests that 62% of households do not own a car.

# **Method of Journey to Work**

2.31 The 2011 Census has also been examined to establish the method of journey to work for residents in the area (associated with the longest part of their journey). This is shown at **Table 2.4**.

Modal Split	Baseline
Underground	22%
Train	32%
Bus	6%
Taxi	0%
Motorcycle	1%
Car or Van	24%
Walk and Cycle	15%



## 3 POLICY

## **National Policy**

### **National Planning Policy Framework**

- 3.1 The National Planning Policy Framework (NPPF) was published in March 2018 and revised in February 2019 and sets out the Government's planning policies for England and how these are expected to be applied.
- 3.2 Chapter 9 sets out promoting sustainable transport which states that Planning Policies should:
  - "provide for high quality walking and cycling networks and supporting facilities such as cycle parking drawing on Local Cycling and Walking Infrastructure Plans;
  - give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second so far as possible to facilitating access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;
  - create places that are safe, secure and attractive which minimise the scope for conflicts between pedestrians, cyclists and vehicles, avoid unnecessary street clutter, and respond to local character and design standards; and,
  - allow for the efficient delivery of goods, and access by service and emergency vehicle."
- 3.3 When considering the transport effects of a development, NPPF states that:
  - "all developments that generate significant amounts of movement should be supported by a Transport Statement or Transport Assessment and that development should only be prevented or refused on transport grounds where the residual cumulative impacts of development are severe."
- 3.4 Plans and decisions should take account of whether:
  - "the opportunities for sustainable transport modes have been taken up depending on the nature of the development and location of the site;
  - safe and suitable access to the site can be achieved for all people; and
  - any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree."



#### 3.5 Paragraph 109 advises that:

 "Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe."

## **Regional Policy**

#### **The London Plan**

- 3.6 The London Plan is a Spatial Development Strategy which sets out the framework for the development of London over a period of 20-25 years and was published in March 2016.
- 3.7 Paragraph 1.53 sets outs the Mayor's objectives and vision, with point 6 stating the following with regards to transport.

"Ensuring London is a city where it is easy, safe and convenient for everyone to access jobs, opportunities and facilities with an efficient and effective transport system which actively encourages more walking and cycling, makes better use of the Thames and supports delivery of all the objectives of this Plan."

#### 3.8 Chapter 6 (Transport) states that:

"The Mayor recognises that transport plays a fundamental role in addressing the whole range of his spatial planning, environmental, economic and social policy priorities. It is critical to the efficient functioning and quality of life of London and its inhabitants. It also has major effects – positive and negative – on places, especially around interchanges and in town centres and on the environment, both within the city itself and more widely. Conversely, poor or reduced accessibility can be a major constraint on the success and quality of places, and their neighbourhoods and communities. He is particularly committed to improving the environment by encouraging more sustainable means of transport, through a cycling revolution, improving conditions for walking, and enhancement of public transport."

#### 3.9 Policy 6.1 Strategic Approach states that:

"The Mayor will work with all relevant partners to encourage the closer integration of transport and development encouraging patterns and nodes of development that reduce the need to travel, especially by car."

3.10 There are maximum parking standards for different land uses in the London Plan. Policy 6.13 Parking states that at a strategic level:



"The Mayor wishes to see an appropriate balance being struck between promoting new development and preventing excessive car parking provision that can undermine cycling, walking and public transport use."

- 3.11 Developments in London must:
  - Ensure that 1 in 5 spaces (both active and passive) provide an electrical charging point to encourage the uptake of electric vehicles;
  - Provide parking for disabled people;
  - Meet minimum cycle parking standards; and
  - Provide for the needs of businesses for delivery and servicing.
- 3.12 Paragraph 6A.2 describes parking requirements for Blue Badge holders and states that:

"Non-residential elements of a development should provide at least one accessible on or off street car parking bay designated for Blue Badge holders, even if no general parking is provided. Any development providing off-street parking should provide at least two bays designated for Blue Badge holders."

- 3.13 Table 6.3 of the London Plan summarises the minimum cycle standards for different land uses. The relevant minimum cycle parking standards are set out below:
  - C3: other:
    - Long-stay spaces: 1 space per studio and 1-bedroom; and
    - Short stay spaces 1 space per 40 dwellings.

#### **Draft New London Plan**

- 3.14 The Draft London Plan 'Consolidated Suggested Changes Version', dated July 2019, is the consolidated version of the London Plan which shows all of the Mayor's suggested changes following the Examination in Public (EiP) of the draft Plan. The document strives to promote a healthier and more active London with improving air quality and reducing car parking provision at the forefront of the plan. Chapter 10 focuses on transport.
- 3.15 Policy T1 'Strategic approach to transport' states that development proposals should facilitate the delivery of the Mayor's strategic target of 80% of trips in London to be made by foot, cycle or public transport by 2041.
- 3.16 Policy T2 'Healthy Streets' states that:



"Development proposals and Development Plans should deliver patterns of land use that facilitate residents making shorter, regular trips by walking or cycling."

- 3.17 The policy goes on to state that development proposals should:
  - "1) demonstrate how they will deliver improvements that support the ten Healthy Streets Indicators in line with Transport for London guidance.
  - 2) reduce the dominance of vehicles on London's streets whether stationary or moving.
  - 3) be permeable by foot and cycle and connect to local walking and cycling networks as well as public transport."
- 3.18 Paragraph 10.2.4 describes that Londoners' direct interaction with the Healthy Streets Approach will be through the streets they use every day. The dominance of vehicles should be reduced by using design to ensure slower vehicle speeds and safer driver behaviour in line with the Mayor's Vision Zero ambition.
- 3.19 Policy T4 'Assessing and mitigating transport impacts' states that transport assessments / statements should be submitted with development proposals to ensure that impacts on the capacity of the transport network are fully addressed. Travel Plans, Parking Design and Management Plans, Construction Logistics Plans and Delivery and Servicing Plans will be required in accordance with relevant Transport for London guidance.
- 3.20 Policy T5, 'Cycling', suggests that barriers to cycling can be removed and that a healthy environment in which people choose to cycle can be created through appropriate levels of cycle parking which are fit for purpose, secure and well-located.
- 3.21 For sui generis developments, the Draft New London Plan states that cycle parking should be provided at the most relevant other standard. For shared living schemes, the C3-studio figure should be used.
- 3.22 Policy T6 refers to parking and makes a number of statements to consider. These include:
  - "Car parking should be restricted in line with levels of existing and future public transport accessibility and connectivity;
  - Car free development should be the starting point for all development proposals in places that are (or are planned to be) well-connected by public transport, with developments elsewhere designed to provide the minimum necessary parking ('car-lite'); and
  - Adequate provision should be made for efficient deliveries and servicing."



## **Local Policy**

### The London Borough of Richmond upon Thames Local Plan (2018)

- 3.23 The Local Plan sets out the strategic planning framework for the next 15 years.
- 3.24 Policy LP44 outlines Sustainable Travel Choices and how the borough is to promote them.

"The Council will work in partnership to promote safe, sustainable and accessible transport solutions, which minimise the impacts of development including in relation to congestion, air pollution and carbon dioxide emissions, and maximise opportunities including for health benefits and providing access to services, facilities and employment."

#### 3.25 The Council will:

"Encourage high trip generating development to be located in areas with good public transport with sufficient capacity, or which are capable of supporting improvements to provide good public transport accessibility and capacity, taking account of local character and context.

Ensure that new development is designed to maximise permeability within and to the immediate vicinity of the development site through the provision of safe and convenient walking and cycling routes, and to provide opportunities for walking and cycling, including through the provision of links and enhancements to existing networks.

Ensure that major new developments maximise opportunities to provide safe and convenient access to public transport services.

Ensure that new development does not have a severe impact on the operation, safety or accessibility to the local or strategic highway networks. Any impacts on the local or strategic highway networks, arising from the development itself or the cumulative effects of development, including in relation to on-street parking, should be mitigated through the provision of, or contributions towards, necessary and relevant transport improvements."

3.26 LP45 includes parking standards for the borough – stating:

"The Council will require new development to make provision for the accommodation of vehicles in order to provide for the needs of the development while minimising the impact of car based travel including on the operation of the road network and local environment, and ensuring making the best use of land.

Car free housing development may be appropriate in location with high public transport accessibility, such as areas with a PTAL of 5 or 6, subject to the provision of disabled parking, appropriate servicing arrangements and demonstrating the proper controls can be put in place to ensure that the proposal will not contribute to on-street parking stress in the locality."



## 4 PROPOSED DEVELOPMENT

4.1 The proposals seek to construct a 3 storey, plus basement, co-living building, providing 16 bedrooms and shared communal facilities.

#### Access

- 4.2 The site will front onto Lower Mortlake Road with pedestrian access located towards the western side of the building. The building outline has been designed to open up Blue Anchor Alley at its connection with Lower Mortlake Road.
- 4.3 The development will not provide any vehicle access. As such, the existing vehicle access on Lower Mortlake Road will be made redundant and can be reinstated as footway.

## **Parking**

- 4.4 No vehicle parking is proposed with this site. As such, it will be car-free. Future residents would also be subject to a permit-free agreement. Any demand for disabled parking would be met on-street locally in line with existing restrictions.
- 4.5 Cycle parking will be provided in accordance with standards and positioned at ground floor level within a secure cycle store. The store is located at the front of the site, with cycle parking provided in a two-tier format. There will be 16 spaces provided in total for long stay users and 1 space for visitors.

## **Deliveries and Servicing**

4.6 Deliveries and servicing activity to the proposed development will be accommodated on-street with vehicles stopping within the loading bay on Lower Mortlake Road, immediately west of the site.

# **Refuse Storage and Collection**

- 4.7 A refuse store is provided at ground floor level at the front of the site with provision for 4 bins. The bin store would be maintained by on-site management.
- 4.8 A private collection service would be arranged to collect waste from the site. The refuse vehicle will be able to stop within the loading bay on Lower Mortlake Road with operatives transferring bins to and from the rear of the vehicle before returning the bins to the store.



## 5 EFFECTS OF DEVELOPMENT

## **Trip Generation**

- 5.1 A trip generation assessment for the proposed development by all modes of transport has been undertaken for the typical weekday morning peak period (7am 10am) and evening peak period (4pm 7pm). The trip generation data is provided to determine the impact of the proposed development on the local highway and public transport networks.
- Total person trip rates have been obtained from comparable sites within the TRICS database, based on similar characteristics such as location and size, including sites between 0-25 units with no car parking. All surveys included were undertaken in the last 5 years. The TRICS data is contained in **Appendix E**.
- 5.3 Trip rates per unit and the total number of predicted trips for 16 units are contained in **Table 5.1**.

Period	Trip l	Rates	Total I	Persons
Period	IN	OUT	IN	OUT
7am – 8am	0.034	0.310	1	5
8am – 9am	0.034	0.586	1	9
9am – 10am	0.034	0.345	1	6
7am – 10am	0.102	1.241	3	20
		PM Period		
4pm – 5pm	0.310	0.103	5	2
5pm – 6pm	0.276	0.034	4	1
6pm – 7pm	0.379	0.241	6	4
4pm – 7pm	0.965	0.378	15	7
	Da	ily Total (12 hour	s)	L
7am – 7pm	1.514	2.308	24	37

**Table 5.1** shows that the morning peak period of 7am – 10am is expected to generate 23 two-way person trips in the morning peak period (3 arrivals and 20 departures), whilst the evening peak period of 4pm – 7pm is expected to generate 22 two-way trips (15 arrivals and 7 departures).



5.5 The travel to work Census data, provided in Section 2, has been modified according to the development's characteristics i.e. reducing car driver trips from 24% locally to 0% to reflect the car-free nature of the development. The resultant mode split is shown in **Table 5.2**.

Modal Split	Baseline	Adjusted
Underground	22%	30%
Train	32%	42%
Bus	6%	9%
Taxi	0%	0%
Motorcycle	1%	1%
Car or Van	24%	0%
Walk and Cycle	15%	18%
Total	100%	100%

**Table 5.3** sets out the estimated multi-modal trip generation summary for the development during the morning peak hours (7am - 10am) and afternoon peak (4pm - 7pm).

	AM I	Peak	РМ Г	Peak
Mode	(7am -	- 10am)	(4pm -	- 7pm)
	Arrive	Arrive Depart A		Depart
Underground	1	6	5	2
Train	1	8	6	3
Bus	0 2		1	1
Taxi	0	0	0	0
Motorcycle	0	0	0	0
Car or Van	0	0	0	0
Walk and cycle	1	4	3	1
Total	3	20	15	7

#### **Highway Impact**

5.7 The site has a PTAL rating of 6a, will not be providing on-site parking and is located within a controlled parking zone with future occupants prevented from applying for permits. On this basis, and the adjusted modal split, vehicle activity associated with the proposed development will be limited to deliveries, taxis and servicing and therefore the impact on the local highway network is expected to be negligible.



#### **Public Transport Impact**

- During the 3-hour assessment periods, there are expected to be an additional 7 trips undertaken by underground (1 arrival and 6 departures), and 7 trips in the evening (5 arrivals and 2 departures) as a result of the development. Given that Richmond Station is serviced by the District Line which has 7 services an hour towards the city as it is the terminus, this equates to 21 services within the three hour peak. As a result the development is not expected to cause a noticeable difference to underground services.
- 5.9 By rail, there are expected to be an additional 9 trips (1 arrival and 8 departures) between 7am 10am and 9 trips (6 arrivals and 3 departures) between 4pm 7pm. Given that there are 11 London bound services and 6 outbound services plus 4 Overground services an hour (33 London bound, 18 outbound and 12 Overground), an increase of 9 trips in either peak period is not expected to have a noticeable impact.
- On local bus services there are expected to be an additional 2 trips made in the morning and evening peak periods. There are 10 bus routes providing approximately 40 services in each direction during each peak period, thus an extra 2 trips in either peak period is not going to have a noticeable impact on passenger loadings.

## **Parking**

- 5.11 The site is proposed to be car-free and therefore does not provide any on-site car parking. Future residents of the development will also be unable to apply for a permit and thus not able to park within the CPZ during active hours.
- 5.12 The provision of a car-free development is considered appropriate given the location of the site and its excellent accessibility. The permit-free agreement is also considered to significantly reduce car ownership levels and avoid any potential impact on-street.
- 5.13 It is acknowledged that CPZ N does not restrict parking all day which in theory could allow residents to own a car and park it overnight, however, this would require vehicles to be moved out of the zone between 10am and 4.30pm every day of the year, which is considered highly unlikely. Notwithstanding this, an assessment to understand the impact on parking levels has been undertaken.
- 5.14 The car ownership levels presented in Section 2 suggest that 16 rooms could generate a parking demand for 6 vehicles. As such, if these were to park on-street locally within CPZ N outside of hours, there would still be approximately 48 observed spaces during the weekday overnight period and 58 observed spaces during the weekend overnight period. The level of additional parking demand is therefore unlikely to affect local occupancy levels.



- 5.15 There is no proposed disabled parking, however, any demand could be accommodated onstreet in line with existing restrictions for blue badge holders.
- 5.16 Cycle parking is provided in accordance with the Draft New London Plan, in the form of twotier stands within a secure sheltered cycle store. A total of 16 spaces are proposed with 1 additional Sheffield stand space for visitors.

#### **Access**

5.17 The proposed development will no longer require the use of the existing vehicle crossover on Lower Mortlake Road. As such, this could be reinstated as footway or used for other purposes such as an extension of the existing loading bay which is located west of the site. Any amendments to the crossover would require agreement with Transport for London.

## **Deliveries and Servicing**

- 5.18 Deliveries associated with the new development will be undertaken on-street within the existing inset loading bay on Lower Mortlake Road, immediately west of the site. The development is likely to generate approximately 1-2 deliveries per day.
- 5.19 Deliveries would include postal deliveries, deliveries of food and or other goods purchased online. In this regard, post and on-line food deliveries are likely to be linked with another delivery elsewhere in the local area, whilst the delivery of purchases such as household / white goods is likely to be dedicated deliveries.
- 5.20 Based on the above, and given dwell times associated with most deliveries would be typically under 15-minutes, delivery activity associated with the development would not result in a material impact on the highway.
- 5.21 Private collection crews will collect bins from the site by transferring bins to and from the loading bay on Lower Mortlake Road. The number of collections will be formalised upon appointment of a private collector.

# **Healthy Streets**

- 5.22 The development makes a positive contribution to the Healthy Street Approach as follows:
  - Reduced car dependence by locating development in an area benefitting from excellent access to public transport opportunities and amenities which are convenient for travel by walking or cycling;
  - Reduced car dependence by limiting car parking provision and preventing residents from participation in the local permit controlled parking zone;
  - Improving pedestrian links in the vicinity and an improved public realm; and,



 Providing cycle parking facilities and direct access onto the cycle network on Lower Mortlake Road.

## **Mitigation**

## **Construction Management Statement**

- 5.23 A draft Construction Management Statement (CMS) has been prepared to detail how the site will function during construction, however, a full CMS would be secured via condition and prepared upon appointment of a contractor. The document details how the site would be set up including details of access arrangements, vehicle loading and storage facilities, information on vehicle numbers and vehicle routes, and reference to working hours and any remedial measures.
- 5.24 The purpose of the CMS will be to mitigate the potential impacts of construction activity associated with the development.

#### **Travel Plan Statement**

- 5.25 This Travel Plan Statement has been prepared for the future occupants of the development.
- 5.26 The main objectives of the Travel Plan Statement are to ensure residents are aware of the opportunities to travel by sustainable modes. A series of measures are set out to ensure trips can be undertaken by non-car modes.

#### Measures

- 5.27 The following measures will help to encourage sustainable travel:
  - Provision of a car-free development;
  - Provision of a Welcome Pack to residents;
  - Provision of Travel information;
  - Secure and undercover cycle parking facilities;
  - Promotion of the health benefits associated with sustainable travel;
  - Information on pedestrian and cycle routes as well as public transport timetables; and,
  - Participation in walk-to-work week and cycle-to-work events will be encouraged.



## **6 SUMMARY AND CONCLUSION**

## **Summary**

6.1 TTP Consulting has been appointed by Westlake Property Limited to provide traffic and transport advice in relation to the proposed development at 47a Lower Mortlake Road, in the London Borough of Richmond upon Thames.

#### 6.2 In summary:

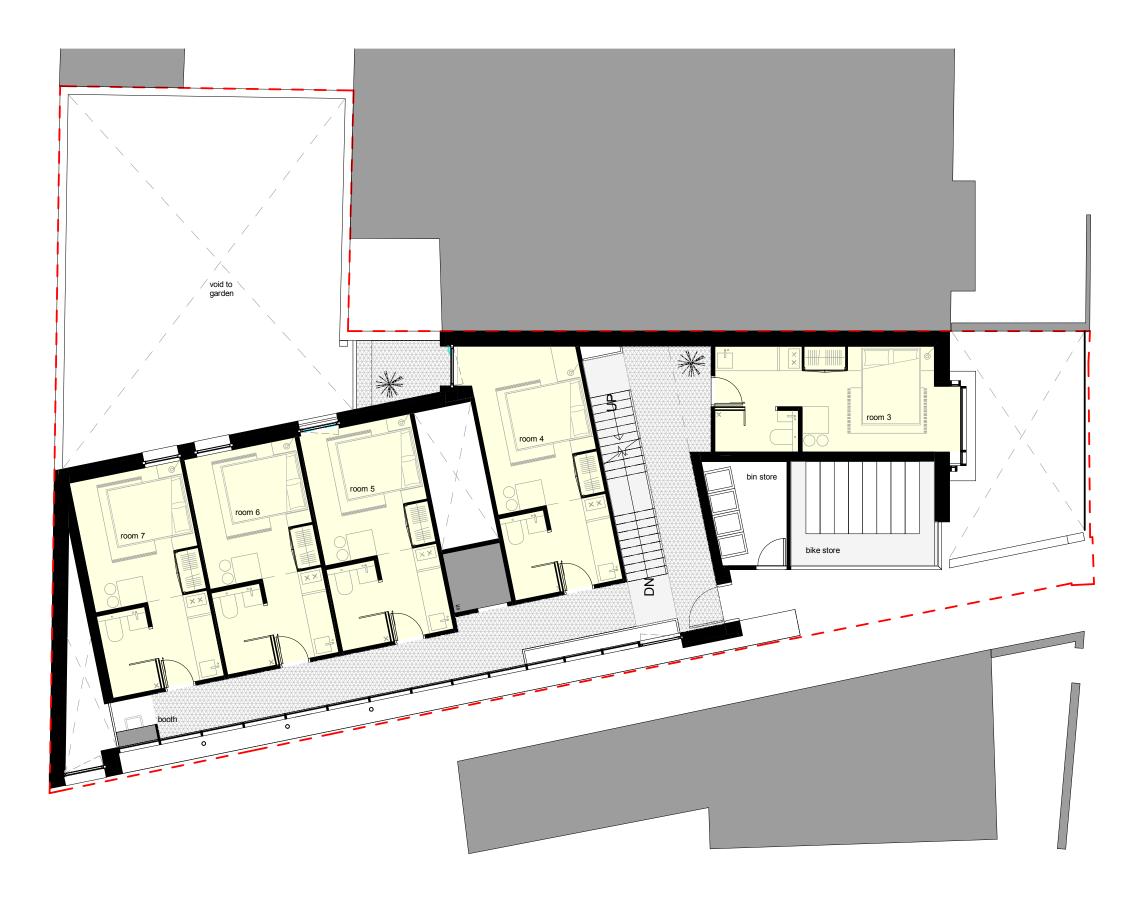
- The site achieves a PTAL rating of 6a and is very accessible by all modes. As such, it is
  anticipated that the majority of trips associated with the site would be undertaken using
  sustainable modes of travel. Given the number of public transport services available within
  walking distance, the proposals are not expected to have material impact on public
  transport networks;
- The development will be car-free with future residents subject to a permit-free agreement. This is in accordance with policy and considered appropriate given the site's location, proximity to public transport opportunities and given there are existing CPZ restrictions operating within the local area;
- Notwithstanding the car-free nature of the scheme, and the proposed permit-free
  agreement, an assessment of car ownership levels and parking surveys suggest that there
  is still capacity on local streets to accommodate parking demand in the event a resident
  still chose to own a car;
- Cycle parking will be provided in accordance with policy requirements. A total of 16 spaces are proposed to the front of the site within a secure cycle store; and,
- Servicing and delivery activity will be undertaken on-street utilising the existing loading bay on Lower Mortlake Road. There is expected to be approximately 1-2 deliveries per day which is not expected to affect the local highway network. Refuse collections will be undertaken via a private agreement.

## **Conclusion**

In light of the above, we conclude that the development proposals will not result in a material impact in highways and transportation terms. Furthermore, in accordance with NPPF paragraph 109, the residual cumulative impacts of the development are not considered to be severe, and, as such, the development should not be prevented or refused on highways grounds.

# Appendix A

(Architect Plans)



Issued to Consultants 01.08.19

2016 Original drawing is A3. Do not scale from this drawing.

Braths: FINAL Brateld: CK KS

\_15-100 - P1



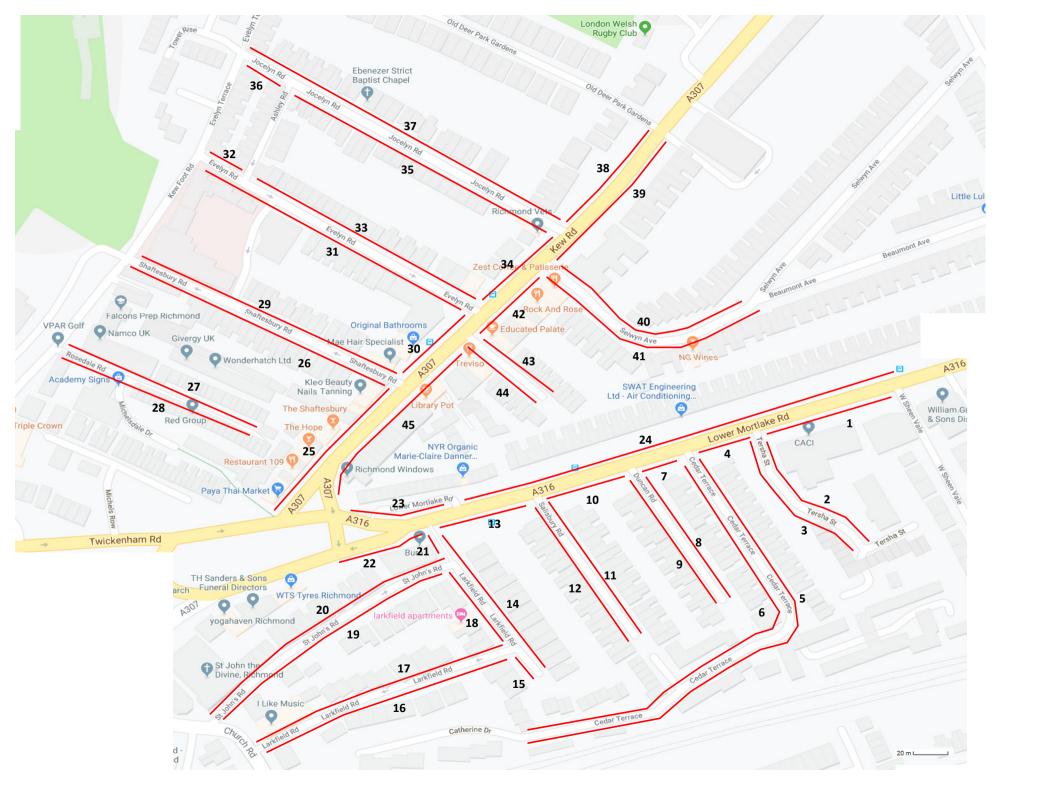
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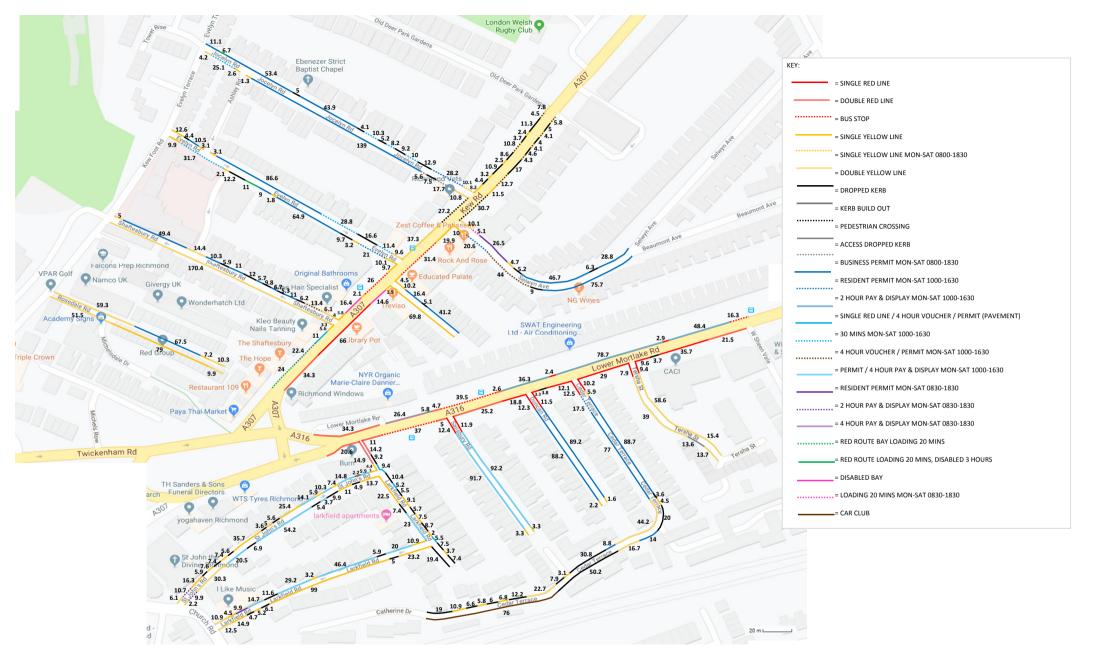
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Ground Floor Plan<a>1 : 100 @A3</a>

# **Appendix B**

(Parking Survey)

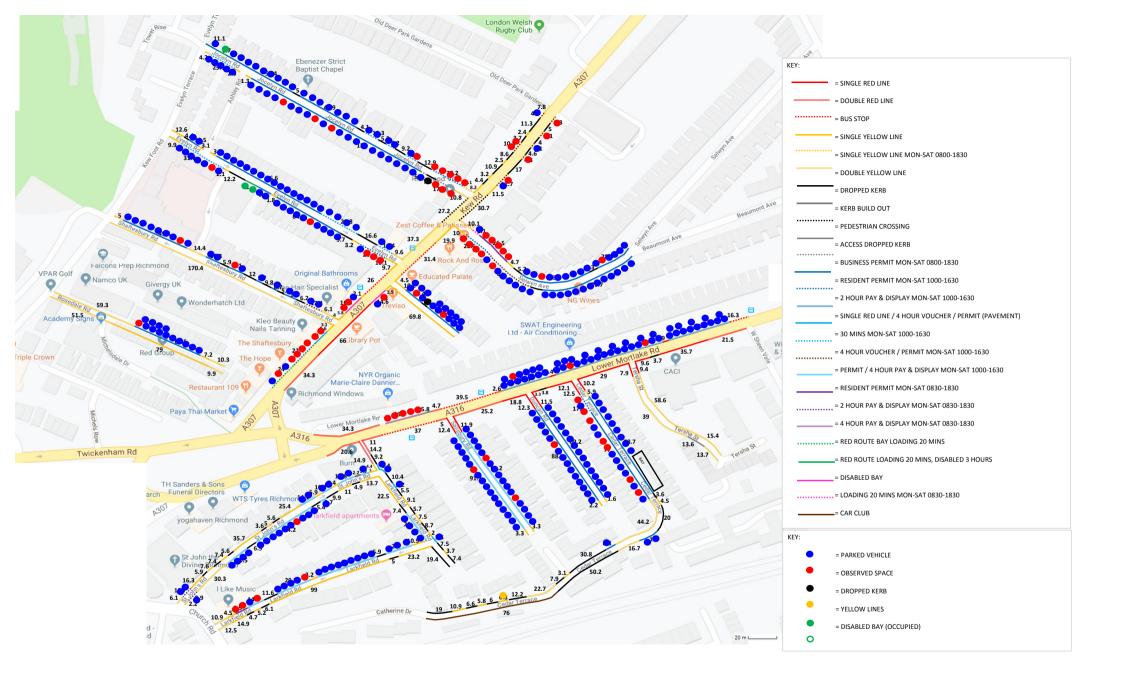


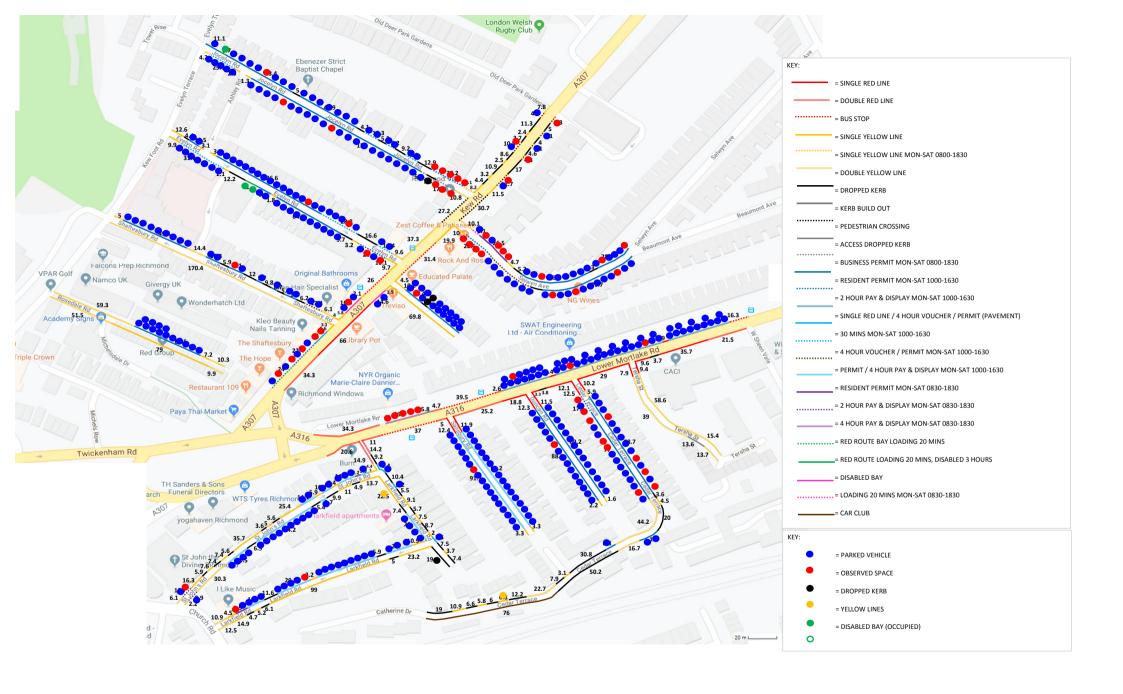


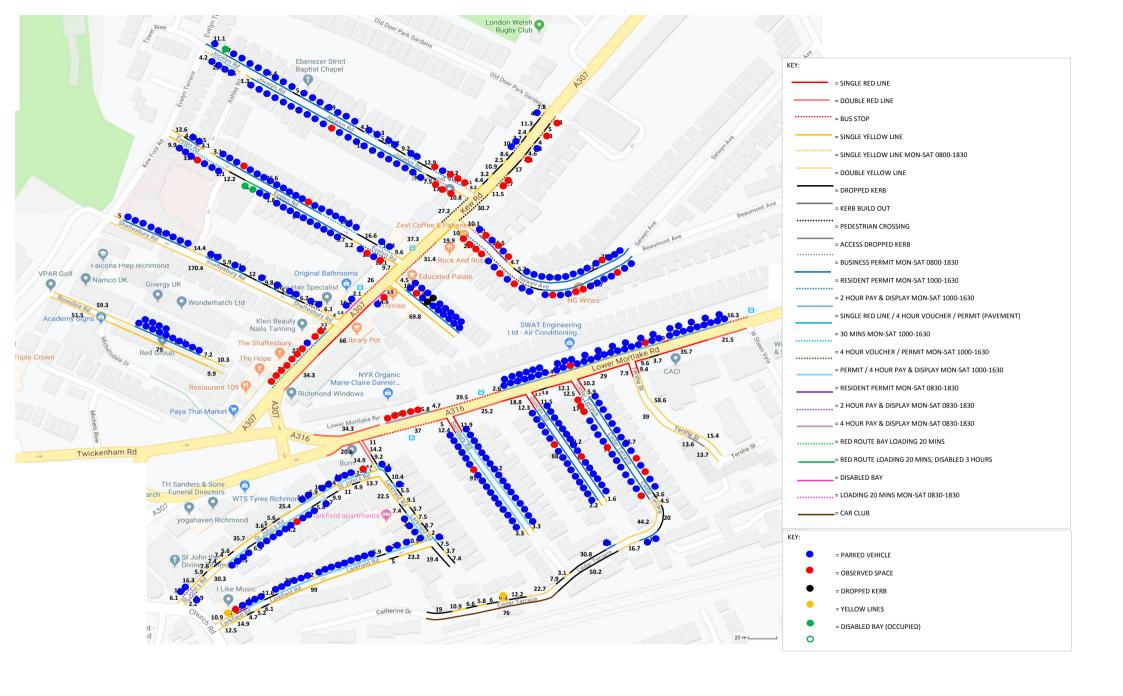
DAY: SUNDAY, TUESDAY,	AND WEDN						
	LAKE RD, R				SUNDAY 1	.5th SEPTE	MBER 201
ROAD NAME	ZONE	RESTRICTION	METRES	5 METRES = 1 SPACE	PARKED	OBSERVED SPACES	%STREET STRESS
LOWER MORTLAKE RD	1	RED DOUBLE LINES SINGLE RED LINES	21.5 45.3			0	
LOWER MONTONE NO	2	DROP KERB SINGLE RED LINES	3.7 9.4				
TERSHA ST	3	DOUBLE YELLOW LINES DOUBLE YELLOW LINES ACCESS DROP KERB	74 52.7 13.6				
LOWER MORTLAKE RD	4	SINGLE RED LINES SINGLE RED LINES	7.9 29				
		SINGLE RED LINES DOUBLE YELLOW LINES	10.2 22.6 102.7	19	11	0	400.00
	5	RESIDENT PERMIT HOLDER MON-SAT 1000-430PM  DROP KERB  ROADWORKS	73.8 76	19	-11	U	100.0%
CEDAR TELL		YELLOW SINGLE LINES DROP KERB YELLOW SINGLE LINES	4.5 82.5 26.6		1		
	6	RESIDENT PERMIT HOLDER MON-SAT 1000-430PM 2HOUR PAY AND DISPAY MON-FRI 1000-430PM	85.8 17.5	16 3	9	5	64.3%
		SINGLE RED LINES DOUBLE YELLOW LINES	12.5 66.9				
LOWER MORTLAKE RD	7	SINGLE RED LINES  DROP KERB  SINGLE RED LINES	15.4 3.8 11.5				
DUNCAN RD	8	RESIDENT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES	89.2 1.6	17	15	0	100.09
	9	YELLOW SINGLE LINES RESIDENT PERMIT HOLDER MON-SAT 1000-430PM SINGLE RED LINES	2.2 88.2 12.3	17	14	1	93.3%
LOWER MORTLAKE RD	10	SINGLE RED LINES RED DOUBLE LINES	18.8 25.2				
	11	SINGLE RED LINES  MON-SAT 830-630PM RESIDENT PERMIT HOLDER  YELLOW SINGLE LINES	11.9 92.2 3.3	18	15	2	88.2%
SALISBURY RD	12	YELLOW SINGLE LINES  YELLOW SINGLE LINES  MON-SAT 830-630PM RESIDENT PERMIT HOLDER	3.3 91.7	18	15	1	93.8%
LOWER MORTLAKE RD	13	SINGLE RED LINES RED DOUBLE LINES	12.4 16				
		BUS STOP DOUBLE RED LINES  RED DOUBLE LINES  DROP KERB	37 14.2 54.4				
	14	MON-SAT 830-630PM RESIDENT PERMIT HOLDER YELLOW SINGLE LINES	20.1	3	4	0	100.09
	15	DROP KERB  YELLOW SINGLE LINES  DROP KERB	19.4 142.3 15.8				
LARKFIELD RD  ST JOHNS RD		DOUBLE YELLOW LINES DOUBLE YELLOW LINES	12.5 10.9				
	17	YELLOW SINGLE LINES PAY AND DISPLAY 2HR MON-SAT 830-630PM DROP KERB	18.6 9.9 17.5	2	0	2	0.0%
		MON-SAT 830-630PM RESIDENT PERMIT HOLDER MON-SAT 830-630PM RESIDENT PERMIT HOLDER	110.3 23	20 4	17 4	2	89.5% 100.09
	18	DROP KERB YELLOW SINGLE LINES	7.4 22.5				
	19	YELLOW SINGLE LINES  DROP KERB  MON-SAT 830-630PM RESIDENT PERMIT HOLDER	24.7 27.1 78.4	14	14	1	93.3%
		4HOUR PAY AND DISPLAY MON-SAT 830-630PM DOUBLE YELLOW LINES	9.9 32.5	1	1	0	100.09
ST JOHNS RD		DOUBLE YELLOW LINES  4HOUR PAY AND DISPLAY MON-SAT 830-630PM  YELLOW SINGLE LINES	6.1 10.7 115.7	2	2	0	100.09
	20	DROP KERB MON-SAT 830-630PM RESIDENT PERMIT HOLDER	28.1 45.1	7	7	0	100.09
LARKFIELD RD	21	KERB BUILD OUT  YELLOW SINGLE LINES  RED DOUBLE LINES	2.2 4.4 14.9				
	22	RED DOUBLE LINES RED DOUBLE LINES RED DOUBLE LINES	20.6				
LOWER MORTLAKE RD		7-7 MON-SAT RED ROUTE BAY LOADING 20MINS ACCESS DROP KERB RED DOUBLE LINES	26.4 5.8 7.3	5	0	5	0.0%
	24	RED DOUBLE LINES 1000-430PM MON-SAT SINGLE RED LINES/4HR VOUCHER/PERMIT PAV - nose in parking	163.4	app 50 spaces	49	3	94.2%
		BUS STOP DOUBLE RED LINES	55.8				
		SINGLE RED LINES DISABLED BAY 3 HOUR RED BOUTE LOADING 20MINS MON-SAT 7-7	5.3	4	2	1	66.7%
KEW RD	25	DISABLED BAY 3 HOUR RED ROUTE LOADING 20MINS MON-SAT 7-7 2HOUR PAY AND DISPAY MON-FRI 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM		4 4 2	2 0	1 4 2	66.7% 0.0% 0.0%
	25 26	DISABLED BAY 3 HOUR RED ROUTE LOADING 20MINS MON-SAT 7-7 2HOUR PAY AND DISAPAY MON-FIR 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES YELLOW SINGLE LINES	5.3 24 22.4 11 5.6 3.3	4			0.0%
KEW RD		DISABLED BAY 3 HOUR RED ROUTE (CADINGS GOMINS MON-SAT 7-2 2-DUR DAY AND DESPA MON-FEI 1000-330PM 30MINS RESIDENT FERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES	5.3 24 22.4 11	4			0.0%
	26 27	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-7 270UR DAY AND DESPA' MON-FEE 1004-39PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMPS YELLOW SINGLE LIMPS DOUBLE YELLOW LIMPS DOUBLE YELLOW LIMPS DOUBLE YELLOW LIMPS RESIDENT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LIMPS ODUBLE YELLOW LIMPS DOUBLE YELLOW LIMPS ODUBLE YELLOW LIMPS ODUBLE YELLOW LIMPS ODUBLE YELLOW LIMPS	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2 61.4	2	0		0.0%
SHAFTESBURY RD	26	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-7 270UR DAY AND DESPA' MON-FEE 1004-39PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES PUBLIC WISS DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES PESIENT FROMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES POURLE YELLOW LIMES DOUBLE YELLOW LIMES POURLE YELLOW LIMES DOUBLE YELLOW LIMES	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2	13	0		0.0% 0.0% 92.9%
SHAFTESBURY RD	26 27	DISABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 7-2 2HOUR DAY AND DESPAY MON PER JODG-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES VELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES RESIDENT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PELLOW SINGLE LINES DOUBLE YELLOW LINES PELLOW SINGLE LINES DOUBLE YELLOW LINES RESIDENT PERMIT HOLDER MON-SAT 1000-430PM DOOR KERS RESIDENT PERMIT HOLDER MON-SAT 1000-430PM DEOR KERS PERMIT/JAHOUR PAY AND DEPLAY MON-SAT 1000-430PM	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2 61.4 79 25.5 94.1 39.2 13.4	2	13		92.9% 88.2%
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD	26 27 28 29	DESABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MORS SAT 7.7 2POUR DAY AND DEPAY MON PER JOOK 3-90PM 30MING RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIM'S YELLOW SINGLE LIM'S DOUBLE YELLOW LIM'S DOUBLE YELLOW LIM'S DOUBLE YELLOW LIM'S MESDERT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIM'S DOUBLE YELLOW LIM'S PESDERT PERMIT HOLDER MONS-SAT 1000-430PM DOUBLE YELLOW LIM'S PESDERT PERMIT HOLDER MONS-SAT 1000-430PM DOUBLE YELLOW LIM'S PERMIT/HOLDER DAY AND DEPLAY MONS-SAT 1000-430PM YELLOW SINGLE LIM'S YELLOW SINGLE LIM'S YELLOW SINGLE LIM'S	5.3 24 22.4 11 5.6 3.3 170.4 67.5 7.2 61.4 79 94.1 39.2 13.4 4	13	13	1 2 2 0	92.9% 88.2%
SHAFTESBURY RD ROSEDALE RD	26 27 28	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-7 270UR DAY AND DEPAR MON-FEI 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES YELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PRISONET PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES DOUBLE YELLOW LINES YELLOW SINGLE LINES DOUBLE YELLOW LINES YELLOW SINGLE LINES DOUBLE YELLOW LINES PRISONET PERMIT HOLDER MON-SAT 1000-430PM DEFOR YELLOW SINGLE LINES PERMIT/AHOUR PAY AND DEPLAY MON-SAT 1000-430PM YELLOW SINGLE LINES YELLOW SINGLE LINES YELLOW SINGLE LINES LOADING ZOMINS MON-SAT 830-630 BUS STOP YELLOW SINGLE LINES	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2 61.4 79 25.5 94.1 39.2 13.4	13	13	1 2	92.9% 88.2%
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD	26 27 28 29	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-2 2000 RD YA AND DEDAY MON-FEI 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES PERMIT HOLDER MON-SAT 1000-430PM DEDOR YEAR AND DEPLAY MON-SAT 1000-430PM YELLOW SINGLE LIMES YELLOW SINGLE LIMES LOADING ZOMINS MON-SAT 300-630 LOADING ZOMINS MON-SAT 300-630 LOADING ZOMINS MON-SAT 300-630 YELLOW SINGLE LIMES LOADING ZOMINS MON-SAT 300-630 YELLOW SINGLE LIMES LOADING ZOMINS MON-SET 300-630PM YELLOW SINGLE LIMES LOADING ZOMINS MON-SET 300-630PM YELLOW SINGLE LIMES LOADING ZOMINS MON-SET 300-630PM YELLOW SINGLE LIMES 2HOUR PAY AND DEPAY MON-SET 1000-430PM DOUBLE YELLOW SINGLE LIMES 2HOUR PAY AND DEPAY MON-FET 1000-430PM DOUBLE RESERVED.	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2 61.4 79 94.1 39.2 13.4 4 17.6 16.4 25.5 94.1 25.5 94.1 25.5 94.1 25.5 94.1 25.5 94.1 25.6 94.6 95.6 96.6 97.6 97.6 97.6 97.6 97.6 97.6 97	13 13 17 2	13 15 2 1	2 2 0 2 2 3	0.0% 0.0% 92.9% 88.2% 100.09
COWER MORTLAKE RD  KEW RD  SHAFTESBURY RD  SHAFTESBURY RD	26 27 28 29	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-2 2000 RD VAN AND DEPAR MON-FIE 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES PRISON TERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES PERMIT/APOLDER AND DEPAR MON-SAT 1000-430PM THE STORY TERMIT HOLDER MON-SAT 1000-430PM THE STORY TERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LIMES LOADING ZOMINS MON-FIE 1000-430PM YELLOW SINGLE LIMES 200-018 PAY AND DEPAR MON-FIE 1000-430PM YELLOW SINGLE LIMES 2100-018 PAY AND DEPAR MON-FIE 1000-430PM DEPAR KERB 800-610 MON-FIE 100-643PPM DEPAR KERB 800-610 MON-FIE 100-643PPM DOUBLE-STEER BESON-610 MON-FIE 1000-430PM DOUBLE-STEER STEER BESON-610 MON-FIE 1000-430PM DOUBLE-STEER STEER ST	5.3 24 22.4 11 5.6 3.3 170.4 69.6 67.5 7.2 61.4 79 25.5 94.1 39.2 13.4 4 17.6 16.4 26 27.1	13 13 2 2 3	13 15 2	1 2 2 0 2	0.0% 0.0% 92.9% 88.2% 100.09 33.3% 25.0%
	26 27 28 29	DESABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 7-2 270 LOW DAY AND DESPAY MON PER JOOK 3-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM 41LOW SINGLE LIMES 41LOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES PESCENT PERMIT HOLDER MON-SAT 100-0-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES 41LOW SINGLE LIMES DOUBLE YELLOW LIMES POURLE YELLOW LIMES 41LOW SINGLE LIMES DOUBLE YELLOW LIMES PERMIT HOLDER MON-SAT 100-0-430PM 100-00 PERMIT HOLDER MON-SAT 100-0-430PM 100-00 PERMIT HOLDER MON-SAT 100-0-430PM 11LOW SINGLE LIMES SINGLE S	5.3 24 22.4 11 5.6 69.6 67.5 7.2 61.4 79 25.5 94.1 39.2 13.4 4 4 17.6 16.4 26 27.1 21 21 21 21 21 21 21 21 21 21 21 21 21	13 13 17 17 2 2 16 6 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 15 2 1 1 1 2 6 11	2 2 0 0 2 2 3 3 1 1 1	0.0% 0.0% 92.9% 92.9% 100.09 33.3% 25.0% 100.09 85.7% 91.7%
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 72 270UR DAY AND DESPAY MON FEEL DOOL-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES  PELLOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PESCHET PERMIT HOLDER MON-SAT 100-0430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  POURLE YELLOW LINES  DOUBLE YELLOW LINES  POURLE YELLOW LINES  DOUBLE YELLOW LINES  POURLE YELLOW LINES  PESCHET PERMIT HOLDER MON-SAT 1000-430PM  MENDER YELLOW SINGLE LINES  DOUBLE YELLOW SINGLE LINES  PERMIT/4HOUR PAY AND DEPLAY MON-SAT 1000-430PM YELLOW SINGLE LINES  LIADANCE LINES  YELLOW SINGLE LINES  LIADANCE LINES  LIADANCE LINES  LIADANCE SINGLE LINES  SINGLE PERMIT HOLDER MON-SAT 1300-430PM  SINGLE LINES  ENGAL MON-SAT SINGLE RED LINES/4HR VOLICHER/PERMIT PAY  WELDOW SINGLE LINES  DOOR KERB  MON-SAT SINGLE RED LINES/4HR VOLICHER/PERMIT PAY  YELLOW SINGLE LINES  DOOR KERB  MON-SAT SINGLE RED LINES/4HR VOLICHER/PERMIT PAY  YELLOW SINGLE LINES  DOOR KERB  MON-SAT SINGLE RED LINES/4HR VOLICHER/PERMIT PAY  YELLOW SINGLE LINES	5.3 24 22.4 11 5.6 5.6 69.6 67.5 7.2 61.4 79 25.5 94.1 39.2 13.4 4 17.6 16.4 26 27.1 21 31.7 73.9 14.4 41.0 15.6 16.4 27.1 21.9 11.0 11.0 11.0 11.0 11.0 11.0 11.0 1	13 17 17 2 2 4 4 4 2 6 6 1 13 2 2	13 15 2 1 1 1 2 6 11	2 2 2 3 3 1 1 1 0 0	0.0% 0.0% 92.9% 100.09 33.33% 25.0% 100.09 85.7% 91.7%
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30	DESABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MORS SAT 7-2 2POUR DAY AND DEPAR MON PER JOOK 3-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM VELLOW SINGLE LINTS VELLOW SINGLE LINTS DOUBLE YELLOW LINTS DOUBLE YELLOW LINTS DOUBLE YELLOW LINTS DOUBLE YELLOW LINTS PROSPET PERMIT HOLDER MON-SAT 1000-430PM WELLOW SINGLE LINTS DOUBLE YELLOW LINTS PROSPET PERMIT HOLDER MON-SAT 1000-430PM VELLOW SINGLE LINTS PROSPET PERMIT HOLDER MON-SAT 1000-430PM DOUBLE YELLOW SINGLE LINTS VELLOW SINGLE LINTS LOADING ZOMES MON-SAT 380-630 DEOR KERB BUS TOP VELLOW SINGLE LINTS 2-10-04 PAW AND DEDAT MON-RET 1000-430PM DEOR KERB BUS TOP VELLOW SINGLE LINTS 2-10-04 PAW AND DEDAT MON-RET 1000-430PM MESICAL PERMIT HOLDER MON-RET 1000-430PM WESTER FROM THOLDER MON-SAT 1300-430PM WESTER THOUR SINGLE LINTS RESIDENT FERMIT HOLDER WESTER SERVENT FERMIT HOLDER VELLOW SINGLE LINTS RESIDENT PERMIT HOLDER MON-SAT 1300-430PM PERMIT/HOLDER MON-SAT 1300-430PM	5.3 24 22.4 11 15.6 69.6 69.6 67.2 61.4 99.1 13.4 4 17.6 2.6 13.3 2.7 11.6 2.7 11.7 11.7 11.7 11.7 11.7 11.7 11.7	13 13 17 17 2 2 16 6 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 15 2 1 1 1 2 6 11	2 2 0 0 2 2 3 3 1 1 1	92.9% 92.9% 92.9% 88.2% 100.01 33.33 25.0% 100.05 100.05 100.05
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30 31	DESABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 77 2POUR DAY AND DEPAY MON DEPAY MON PER JOOK 390MIS MON-SAT 200-30PPM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PPM YELLOW SINGLE LINES  POURLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON-SAT 1000-430PPM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  POURLE YELLOW LINES  THE STORY SINGLE LINES  POURLE YELLOW LINES  THE STORY SINGLE LINES  PROMET PERMIT HOLDER MON-SAT 1000-430PPM  MESTING SINGLE LINES  PERMIT/HOLDER PAY AND DEPAY MON-SAT 1000-430PPM YELLOW SINGLE LINES  22HOUR PAY AND DEPAY MON-SAT 1000-430PPM  DEOP KERB  830-630 MON-FR DISSAELD BAY  WENDEL YELLOW SINGLE LINES  23HOUR PAY AND DEPAY MON-FRE 1000-430PPM  WENDEL YEAR HOLDER FRO LINES/4HE YOUCHER/PERMIT PAY  RESIDENT PERMIT HOLDER MON-SAT 1000-430PPM  WENDEL SINGLE SINGLE LINES  830-640 MON-FRE SINGLE LINES  830-640 MON-FRE SINGLE LINES  RESIDENT PERMIT HOLDER MON-SAT 1000-430PPM  WENDEL SINGLE SINGLE LINES  RESIDENT PERMIT HOLDER MON-SAT 1000-430PPM  PERMIT/HOLDER PAY MON-SAT 1000-430PPM  PERMIT/HOLDER PAY MON-SAT 1000-430PPM  PERMIT/HOLDER PAY MON-SAT 1000-430PPM  PERMIT/HOLDER PAY MON-SAT 1000-430PPM  DOUBLE YELLOW LINES	5.3 24 22.4 11 170.4 69.6 67.5 7.2 25.5 94.1 33.2 17.6 4 4 4 21.2 11.3 12.2 11.3 11.3 11.3 11.3 11.3	13 17 2 2 4 4 2 6 6 13 2 2 17 17 17	13 15 2 1 1 1 2 6 11 2 2	2 0 0 2 3 0 1 1 1	92.9% 92.9% 92.9% 88.2% 100.01 33.33 25.0% 100.05 100.05 100.05
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30 31 31 32 33	DESABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOG 3-907M 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES POURLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PRESCRIPT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES DOUBLE YELLOW LINES PRESCRIPT PERMIT HOLDER TOWN LINES POURLE YELLOW LINES THE STORY PERMIT HOLDER AND LINES PERMIT/AHOUR BAY AND DEPAR MON-SAT 1000-430PM YELLOW SINGLE LINES YELLOW SINGLE LINES YELLOW SINGLE LINES YELLOW SINGLE LINES LOADING ZOMINS MON-SAT 380-630 BUS 310P YELLOW SINGLE LINES 2HOUR PAY AND DEPAR MON-FRE 1000-430PM DEOP EERB 219-08 PAY AND DEPAR MON-FRE 1000-430PM DEOP EERB 219-08 PAY AND DEPAR MON-FRE 1000-430PM WELOOW SINGLE LINES 219-08 PAY AND DEPAR MON-FRE 1000-430PM WELOOW SINGLE LINES 219-08 PAY AND DEPAR MON-FRE 1000-430PM WELOOW SINGLE LINES 219-08 PAY AND DEPAR MON-SAT 1000-430PM WELOOW SINGLE LINES DOOR SEEB BUS	5.3 24 22.4 11 170.4 69.6 67.5 7.2 19.1 11.3 12.1 12.1 13.7 13.7 15.6 16.4 16.4 16.4 17.5 18.6 18.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19	13 17 2 2 4 4 2 6 6 13 2 2 17 17 17	13 15 2 1 1 1 2 6 6 11 1 1 2 6 6	2 0 0 2 3 0 1 1 1	92.9% 92.9% 100.09 33.37 25.09 100.09 100.09 100.09
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30 31 31 32 33	DISABLED BAY 3 HOUR RED ROUTE LOADING ZOMINS MON-SAT 72 2700R DAY AND DEPAY MON PERS MON-FEI DIOO-340PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES  PERMIT HOLDER WON-SAT 100-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PESPENT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PESPENT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON-SAT 1000-430PM  WESDERT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES  YELLOW SINGLE LINES  LOADING ZOMENS MON-SAT 330-630  WESDERT PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES  2700 WE PAY AND DEPAY MON-SAT 330-630  WESDERT PERMIT HOLDER MON-SAT 330-630PM  YELLOW SINGLE LINES  2700 WESTER SAT MON-SAT 330-630PM  WESDERT PERMIT HOLDER MON-SAT 1300-430PM  PERMIT HOLDER MON-SAT 1300-430PM  MON-SAT 330-63PM RESIDENT PERMIT HOLDER MON-SAT 1300-430PM  YELLOW SINGLE LINES  MON-SAT 330-63PM RESIDENT PERMIT HOLDER MON-SAT 1300-430PM  PERMIT/HOLDER MON-SAT 1300-430PM  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON-SAT 1300-430PM  DOUBLE YELLOW LINES  PEDESTRANCH ROLDER MON-SAT 1300-430PM  DOUBLE YELLOW LINES  BUSINESS PERMIT MON-SAT 1300-430PM  DOUBLE YELLOW MON-SAT 1300-430PM  DOUBLE YELDOW MON-SAT 1300-430PM  DOUBLE YELLOW MON-SAT 1300-430PM  DOUBLE	53 24 224 224 11 5.6 33 1170.4 698.6 675 7.2 13.4 79 9.2 13.4 4 17.6 2.5 13.4 2.1 11.6 2.1 12.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 2.1 13.1 13	13 17 2 2 3 4 4 5 6 6 13 17 7 7 7	13 15 2 1 1 1 2 6 11 2 2	2 0 0 2 3 0 1 1 1	92.9% 92.9% 100.05 33.33% 25.00% 100.05 100.05 100.05 100.05 100.05 100.05 100.05
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD	26 27 28 29 30 31 32 33 34 35	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 7.7 2POUR DAY AND DEPAY MON PER JOOK 30 MINS MORS SAT 7.7 2POUR DAY AND DEPAY MOR PER JOOK 30 MINS MESSION TERMIN THOLDER MON SAT 100-430PM YELLOW SINGLE LIMS DOUBLE YELLOW LIMS DOUBLE YELLOW LIMS DOUBLE YELLOW LIMS MESSION TERMIN THOLDER MON SAT 100-0-430PM YELLOW SINGLE LIMS DOUBLE YELLOW LIMS SESSION THOM THOUGH AND SAT 1000-430PM DOUBLE YELLOW LIMS PERMIT HOLDER MON SAT 1000-430PM YELLOW SINGLE LIMS YELLOW SINGLE LIMS YELLOW SINGLE LIMS DOUBLE LIMS STOP YELLOW SINGLE LIMS DOUBLE LIMS SESSION TO SAT 1000-430PM DOWN THE SESSION SAT 1000-430PM THE SESSION SAT 1000-430PM DOWN THE SESSION SAT 1000-430PM WELDOW SINGLE LIMS SESSION SAT 1000-430PM THE SESSION SAT SAT 1000-430PM PROSTERMING LIMS SESSION SAT 1000-	5.3 24 22.4 22.4 11 11 15.5 5.6 5.7 170.4 6.7 7.2 16.1 170.4 170.	4 2 13 13 14 4 15 17 7 7 17 17 17 17 17 17 17 17 17 17 17	13 15 2 2 1 1 1 1 2 2 6 6 11 1 1 1 1 1 1 1 1	2 2 0 0 1 1 1 0 0 0	0.0% 0.0% 92.9% 88.29 100.01 25.0% 100.05 100.05 100.05 100.05
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD	26 27 28 29 30 31 32 33 33	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MORS SAT 7-2 2700 MEY AND DESPAY MON PER JOOK 3-907M 30MINS RESIDENT PERMIT HOLDER MON SAT 100-430PM 40MINS RESIDENT PERMIT HOLDER MON SAT 100-430PM 41LOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON SAT 100-430PM 41LOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON SAT 1000-430PM 41LOW SINGLE LINES  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON SAT 1000-430PM  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  LOADING SOME LINES  DOUBLE YELLOW SINGLE LINES  LOADING SOME LINES  PER JOE SOME LINES  2HOUR YELLOW SINGLE LINES  2HOUR YELLOW SINGLE LINES  2HOUR YELLOW SINGLE LINES  2HOUR YELLOW SINGLE LINES  2HOUR AND DEEP MON-SAT 1000-430PM  WELLOW SINGLE LINES  AND AND AND SOME MON-SAT 1000-430PM  YELLOW SINGLE LINES  DOOR KERB  MON-SAT SINGLE RED LINES/4HE VOUCHER/PERMIT PAV  RESIDENT PERMIT HOLDER MON-SAT 1000-430PM  WELLOW SINGLE LINES  DEBOR KERB  MON-SAT SINGLE RED LINES/4HE VOUCHER/PERMIT PAV  RESIDENT PERMIT HOLDER MON-SAT 1000-430PM  PERMIT HOLDER MON-SAT 1000-430PM  PERMIT HOLDER MON-SAT 1000-430PM  PERMIT HOLDER MON-SAT 1000-430PM  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON-SAT 1000-430PM  DOUBLE YELLOW LINES  YELLOW SINGLE LINES  4400 R PAY AND DEPAY MON-SAT 1500-430PM  DOUBLE YELLOW WINSOLD HON-SAT 1000-430PM  PERMIT HOLDER MON-SAT 1000-430P	5.3 24 22.4 22.4 11 15.6 5.6 69.5 67.5 161.4 99.1 25.5 13.3	4 2 13 13 17 2 2 1 3 1 3 1 3 1 7 7 7 1 7 7 1 4 4 4 4 4 4 4	13 15 2 1 1 1 2 2 6 11 1 2 1 1 1 1 1 1 1 1 1	2 2 0 0 1 1 1 1 0 0 0 0 0	92.9% 92.9% 88.2% 100.05 33.3% 25.00 100.05 100
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD	26 27 28 29 30 31 32 33 34 35	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2POUR DAY AND DEPAY MON PER JOOK 3POW 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES YELLOW SINGLE LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES DOUBLE YELLOW LIMES PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LIMES DOUBLE YELLOW LIMES PRINT HOLDER MON-SAT 100-430PM THE SIDENT PERMIT HOLDER MON-SAT 100-430PM THE SIDENT	5.3 24 224 11 15.6 5.6 9.6 9.7 170.4 9.6 170.4 170.2 13.3 170.4 16.4 17.6 16.4 17.6 17.6 18.6 18.6 19.6	13 17 2 2 17 7 7 17 7 17 17 17 17 17 17 17 17 17	13 15 2 1 1 1 2 2 6 6 11 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 5 0 0	92.9% 92.9% 88.29 100.05 33.33 25.00 100.05 100
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD	26 27 28 29 30 31 31 32 33 34 35	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS MORS SAT 100 430PM 30MISS RESIDENT PERMIT HOLDER MON SAT 100 430PM YELLOW SINGLE LINES  POURLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PROPERTY FROM THOLDER MON SAT 100 430PM YELLOW SINGLE LINES  PROPERTY FROM THOLDER MON SAT 100 430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PERMIT/AHOUR BAY AND DEPAR MON SAT 100 430PM PERMIT/AHOUR BAY AND DEPAR MON SAT 100 430PM YELLOW SINGLE LINES  YELLOW SINGLE LINES  LOADING ZOMES MON SAT 380 430  PERMIT/AHOUR BAY AND DEPAR MON SAT 100 430PM DEOP KERB  JOOK SAT 100 AND S	5.3 24 22.4 11 15.6 5.6 60.6 67.5 67.5 67.2 67.2 67.2 67.2 67.2 67.2 67.2 67.2 67.3	4 2 13 13 14 17 2 2 16 13 17 7 7 17 7 17 17 17 17 17 17 17 17 17	13 15 2 2 1 1 1 2 6 6 11 1 1 1 6 6 1 1 1 1 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 0 0 3 3 0 1 1 1 0 0 0	92.9% 92.9% 88.29 100.05 33.33 25.00 100.05 100
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD	26 27 28 29 30 31 31 32 33 34 35	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS MORS SAT 100-430PM 30MISS RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LINES  POURLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON SAT 100-430PM  WELLOW SINGLE LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON SAT 100-430PM  RESIDENT PERMIT HOLDER MON SAT 100-430PM  YELLOW SINGLE LINES  210-00 PAY AND DEPAR MON SAT 300-430PM  DEOP KERB  210-00 PAY AND DEPAR MON FEET 1000-430PM  DEOP KERB  210-00 PAY AND DEPAR MON FEET 1000-430PM  PERMIT HOLDER LINES  210-00 PAY AND DEPAR MON FEET 1000-430PM  MON SAT 300-40 PAY AND DEPAR MON SAT 1000-430PM  YELLOW SINGLE LINES  DOOR KERB  DOOR KERB  DOOR HER SAT 1000-40 PAY MON SAT 1000-40 PAY MON SAT	5.3 24 22.4 22.4 11 15.6 6.6 6.5 67.5 67.5 62.6 67.5 62.6 67.7 22.5 11.4 4 4 27.1 11.4 11.6 11.6 11.6 11.6 11.6 11.6 11	13 13 17 2 2 2 6 13 13 17 7 7 17 17 17 17 17 17 17 17 17 17 17	13 15 15 2 2 6 11 11 16 6 18 1 1 15 1 15 1 16 16 17 1 17 17 17 17 17 17 17 17 17 17 17 17 17	2 2 2 2 2 3 0 0 1 1 1 0 0 0	92.9% 92.9% 88.2% 100.05 25.0% 100.05 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD	26 27 28 29 30 31 32 33 34 35 36	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2POUR DAY AND DESPAY MON PERS MON-FIELDON-3POM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES  PERMIT HOLDER WON-SAT 100-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERMIT HOLDER MON-SAT 1000-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PERMIT HOLDER WON-SAT 1000-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  RESIDENT PERMIT HOLDER MON-SAT 1000-430PM ORDER YELLOW SINGLE LINES  THE YELLOW SINGLE LINES  PERMIT HOLDER MON-SAT 1000-430PM ORDER YELLOW SINGLE LINES  THE YELLOW SINGLE LINES  THE YELLOW SINGLE LINES  LOADING SOME SAT SINGLE LINES  PERMIT SAT SINGLE	5.3 24 22.4 11 5.6 6.0 69.6 69.5 67.5 7.2 61.4 9.9 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	13 17 2 2 17 7 7 17 7 17 17 17 17 17 17 17 17 17	13 15 2 1 1 1 2 2 6 6 11 1 1 1 1 1 1 1 1 1 1	2 2 0 0 3 3 0 1 1 1 0 0 0	92.9% 92.9% 92.9% 88.229 100.05 25.0% 100.05 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  KEW RD	26 27 28 29 30 31 32 33 34 35 36	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 77 2 PROUR DAY AND DEPAR MON PRES DOGS - 300MINS MORS SAT 77 3 MINIS RESIDENT PERMIT HOLDER MON SAT 1300-430PM YELLOW SINGLE LIMIS PUBLICATION OF THE SAME SAT 1300-430PM YELLOW SINGLE LIMIS DOUBLE YELLOW LIMIS DOUBLE YELLOW LIMIS RESIDENT PERMIT HOLDER MON SAT 1300-430PM YELLOW SINGLE LIMIS DOUBLE YELLOW LIMIS DOUBLE YELLOW LIMIS DOUBLE YELLOW LIMIS DOUBLE YELLOW LIMIS PERMIT HOLDER MON SAT 1300-430PM WELLOW SINGLE LIMIS DOUBLE YELLOW LIMIS PERMIT HOLDER AND MORS SAT 1300-430PM YELLOW SINGLE LIMIS PERMIT HOLDER MON SAT 1300-430PM YELLOW SINGLE LIMIS LOADING ZOMES MON SAT 830-630 WELLOW SINGLE LIMIS YELLOW SINGLE LIMIS 2 HOLDER YELLOW SINGLE LIMIS 2 HOLDER YELLOW SINGLE LIMIS YELLOW SINGLE LIMIS 3 HOLDER SAT SAN SAT 1300-430PM WELLOW SINGLE LIMIS 3 HOLDER YELLOW SINGLE LIMIS 3 HOLDER SAT SAN SAT 1300-430PM WELLOW SINGLE LIMIS 3 HOLDER SAT SAN SAT 1300-430PM WELLOW SINGLE LIMIS DOUBLE YELLOW SINGLE LIMIS WE SECRET PERMIT HOLDER WES SAN THOUGH SAPPM PERMIT/AHOUR PAY AND DEPAR Y MON-SAT 1300-430PM DOUBLE YELLOW WINS PROSTERIAN CHOSING PROSTERIAN CHOS	5.3 24 224 11 5.6 69.6 69.6 67.5 61.4 99.2 61.4 19.3 22.5 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	13 17 2 2 3 3 4 4 2 7 7 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13 15 15 2 2 6 11 11 16 6 18 1 1 15 1 15 1 16 16 17 1 17 17 17 17 17 17 17 17 17 17 17 17 17	2 2 2 2 2 3 0 0 1 1 1 0 0 0	92.9% 92.9% 92.9% 88.229 100.05 25.0% 100.05 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  KEW RD	26 27 28 29 30 31 32 33 34 35 36 37	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 77 2PHOUR DAY AND DEPAR MON PRES DOGS -30PM 30MING RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIMS PULLOW SINGLE LIMS DOUBLE YELLOW LIMS DOUBLE YELLOW LIMS DOUBLE YELLOW LIMS RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIMS DOUBLE YELLOW LIMS RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIMS DOUBLE YELLOW LIMS SOURCE YELLOW LIMS DOUBLE YELLOW LIMS PERMIT HOLDER MON SAT 100-430PM DOUBLE YELLOW LIMS PERMIT HOLDER MON SAT 100-430PM DEFORE YELLOW SINGLE LIMS PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LIMS VELOW SINGLE LIMS LOADING ZOMES MON SAT 830-630 DEFORE YELLOW SINGLE LIMS 2HOUR PERMIT HOLDER MON FIRST 100-430PM DOOR YEER BUS STOP YELLOW SINGLE LIMS 2HOUR PERMIT HOLDER MON FIRST 100-430PM DOOR YEER BUS STOP WELLOW SINGLE LIMS 300-430PM MON-SAT 300-640PM RESIDENT PERMIT HOLDER WIS SAN 1000-430PM RESIDENT PERMIT HOLDER WIS SAN 1000-430PM RESIDENT PERMIT HOLDER WIS SAN 1000-430PM PERMIT/AHOUR PAY AND DEPAR MON-SAT 1000-430PM DOUBLE YELLOW WINS PROSTERIAN CROSSING DOUBLE YELLOW WINS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 1000-430PM DOWN YELDOW SINGLE LIMS 4HOUR PAY AND DEPAR MON-SAT 100	5.3 24 224 11 5.6 6.6 69.6 67.5 7.2 61.4 9.7 22.5 61.4 19.3 22.1 11.3 22.1 11.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 1.5 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	4 2 13 3 4 4 27 7 7 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6	13 15 12 2 6 11 1 18 1 18 1 1 15 5 7 17 1 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 3 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	88.27 92.9% 92.9% 100.05 33.33 25.0% 100.05 85.77 100.00 1
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  KEW RD	26 27 28 29 30 31 32 33 34 35 36 37	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2 POUR DAY AND DESPAY MON-FIELDON-3 POWER 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES YELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES DOUBLE YELLOW LINES PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES DOUBLE YELLOW LINES WELLOW SINGLE LINES DOUBLE YELLOW LINES WELLOW SINGLE LINES DOUBLE YELLOW LINES WELLOW SINGLE LINES DOUBLE YELLOW LINES PERMIT HOLDER MON-SAT 100-430PM PERMIT HOLDER MON-SAT 100-430PM DOUBLE YELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES DOUBLE YELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES DOUBLE YELLOW SINGLE LINES PERMIT HOLDER MON-SAT 100-430PM DOUBLE YELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES DOUBLE YELLOW SINGLE LINES WELLOW SINGLE LINES WELLOW SINGLE LINES DOUBLE YELLOW SINGLE LINES WELLOW SINGLE LIN	5.3 24 224 224 11 5.6 69.6 69.5 67.7 23.5 61.4 72.2 13.4 17.6 26 27.1 13.4 17.6 26 27.1 13.4 27.1 21.5	13 13 17 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 15 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 3 0 0 1 1 1 0 0 0	92.9% 88.275.0% 100.01 25.0% 100.01 100.0
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  KEW RD	26 27 28 29 30 31 32 33 34 35 36 37	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2 POUR DAY AND DEPAY MON PERI DOA-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM 41LOW SINGLE LINES 41LOW SINGLE LINES 41LOW SINGLE LINES 50DURE FYELDW LINES 50DURE FYELDW LINES 50DURE FYELDW LINES 50DURE FYELDW LINES 61DURE FYELDW SINGLE LINES 61DURE FY	5.3 24 224 224 11 5.6 60.6 60.5 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60.6 60.7 60	4 2 2 4 4 27 7 7 7 5 5 5 5 5 5 5 5 5 5 6 6 6 6 7 14 14	13 15 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1 5 2	92.9% 92.9% 92.9% 100.01 33.37 100.01 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD  JOCELYN RD	26 27 28 29 30 31 32 33 34 35 36 37	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 77 2PHOUR DAY AND DEPARY MON PERS MORT SED MAY 100 A SEPARY 300 MINS RESIDENT PERMIT HOLDER MON-SAT 100 A SEPARY 300 MINS RESIDENT PERMIT HOLDER MON-SAT 100 A SEPARY YELLOW SINGLE LINES  POURS EYELLOW LINES  DOUBLE VELLOW LINES  DOUBLE VELLOW LINES  PROPERTY HOLDER MON-SAT 100 A SEPARY AND SEPARY	5.3 24 224 224 11 5.6 5.6 5.7 120,4 60,6 67.5 120,4 12	13 13 17 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 15 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 0 0 2 2 2 3 0 0 0 0 0 0 0 0 0 0 0 0	92.9% 92.9% 92.9% 100.01 33.3% 100.01 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD  JOCELYN RD	26 27 28 29 30 31 31 32 33 34 35 36 37 38 39	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 77 27HOUR DAY AND DEPAR MON PRES 1000-430PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 1000-430PM 40MINS RESIDENT PERMIT HOLDER MON-SAT 1000-430PM 41LOW SINGLE LINES  PULLOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PESDEAT PERMIT HOLDER MON-SAT 1000-430PM 41LOW SINGLE LINES  DOUBLE YELLOW LINES  PESDEAT PERMIT HOLDER MON-SAT 1000-430PM 41LOW SINGLE LINES  PESDEAT PERMIT HOLDER MON-SAT 1000-430PM  PERMIT/ANDLER DAY AND DEPAR MON-SAT 1000-430PM  YELLOW SINGLE LINES  41LOW SINGLE LINES  27HOLDER AND AND DEPAR MON-SAT 1000-430PM  DEPART SAT SAT SAT SAT SAT SAT SAT SAT SAT SA	5.3 24 224 224 11 15.6 5.6 60.5 67.5 7.2 7.2 13.4 4 17.6 26 27.1 11.3 12.4 12.1 13.2 13.3 14.1 17.6 16.4 17.6 16.4 17.6 16.4 17.6 16.4 17.6 16.4 17.6 17.	4 2 2 4 2 7 7 7 7 7 7 5 5 5 5 5 5 5 5 5 5 5 5 5	13 15 2 2 1 1 1 1 2 6 6 11 1 1 1 1 1 1 1 1 1	2 2 0 0 1 1 1 0 0 0 0 0 0 1 1 5 2	92.9% 92.9% 88.27 100.00 25.0% 100.07 10
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD  JOCELYN RD	26 27 28 29 30 31 31 32 33 34 35 36 37 38 39	DESABLED BAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2700 MAY AND DEPAY MON PRIS 1004-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 1004-30PM 41LOW SINGLE LINES VELLOW SINGLE LINES DOUBLE YELLOW LINES PRIS PRIS PERMIT HOLDER MON-SAT 1004-30PM WILLOW SINGLE LINES DOUBLE YELLOW LINES PRIS PRIS PRIS PRIS PRIS PRIS PRIS PRIS	5.3 24 224 224 11 15.6 5.6 9.6 170.4 190.5 190.5 191.1 190.5 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2 191.1 191.2	13 13 17 2 2 3 3 4 4 2 5 6 13 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	13 15 2 2 6 11 11 12 2 6 6 11 15 16 6 17 18 11 11 11 12 2 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 2 2 3 3 0 0 1 1 1 5 5 5 5 5 5 5 0 0 1 1 1 1 5 5 5 5	92.9% 92.9% 88.27 100.00 25.0% 100.07 10
ROSEDALE RD  SHAFTESBURY RD  KEW RD  EVELYN RD  JOCELYN RD  KEW RD	26 27 28 29 30 31 31 32 33 34 35 36 37 39 40 41 42 43	DESABLE DAY 3 HOUR RED ROUTE LOADING SOMINS MON-SAT 77 2PHOUR DAY AND DEPAR MON-RED 1004-30PM 30MINS RESIDENT PERMIT HOLDER MON-SAT 100-430PM YELLOW SINGLE LINES VELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PROSPET PERMIT HOLDER MON-SAT 1000-430PM WELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES PROSPET PERMIT HOLDER MON-SAT 1000-430PM WELLOW SINGLE LINES RESIDENT PERMIT HOLDER MON-SAT 1000-430PM DOUBLE YELLOW SINGLE LINES RESIDENT PERMIT HOLDER MON-SAT 1000-430PM VELLOW SINGLE LINES LOADING ZOMES MON-SAT 3000-430PM WELLOW SINGLE LINES VELLOW SINGLE LINES VELLOW SINGLE LINES VELLOW SINGLE LINES DOOR YEER BIS STOP VELLOW SINGLE LINES 24HOUR PAY AND DEPAR MON-RET 1000-430PM RESIDENT PERMIT HOLDER MON-SAT 1000-430PM WELLOW SINGLE LINES DOOR YEER BIS STOP WELLOW SINGLE LINES WELLOW SINGLE LINES BIS STOP WELLOW SINGLE LINES BIS STOP WELLOW SINGLE LINES DOOR YEER RESIDENT PERMIT HOLDER MON-SAT 1000-430PM WELLOW SINGLE LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES DOUBLE YELLOW LINES BUSINESS FREMIT MON-SAT 1000-430PM PERMIT/ANDUR PAY AND DEPAR MON-SAT 1000-430PM DOUBLE YELLOW LINES BUSINESS FREMIT MON-SAT 1000-430PM DOUBLE YELLOW LINES WELLOW SINGLE LINES WELLOW SINGL	5.3 24 224 224 11 5.6 69.6 69.6 67.5 61.4 99.2 61.4 93.2 25.1 10.2 10	13 13 17 2 2 3 3 4 4 2 5 6 13 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	13 15 2 2 6 11 11 12 2 6 6 11 15 16 6 17 18 11 11 11 12 2 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 2 2 3 3 0 0 1 1 1 5 5 5 5 5 5 5 0 0 1 1 1 1 5 5 5 5	92.98 88.28 100.09 25.09 100.09 1
SHAFTESBURY RD  ROSEDALE RD  SHAFTESBURY RD  KEW RD  KEW RD  JOCELYN RD  KEW RD  KEW RD	26 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 41	DESABLED BAY 3 HOUR RED ROUTE LOADING SUMINS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS MORS SAT 77 2700 MAY AND DEPAR MON PER JOOK 300MIS RESIDENT PERMIT HOLDER MON SAT 100-430PM 30MINS RESIDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LINES  ODUBLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PESDENT PERMIT HOLDER MON SAT 100-430PM YELLOW SINGLE LINES  DOUBLE YELLOW LINES  PESDENT PERMIT HOLDER MON SAT 100-430PM  RESIDENT PERMIT HOLDER MON SAT 100-430PM  YELLOW SINGLE LINES  LOADING ZOMES MON SAT 100-430PM  YELLOW SINGLE LINES  LOADING ZOMES SAT 100-430PM  YELLOW SINGLE LINES  LOADING ZOMES MON SAT 100-430PM  DEP SENSE AND SAT AND DEPAR MON SAT 100-430PM  PERMIT/HOLDER NOW AND DEPAR MON SAT 100-430PM  DEP SENSE AND SAT 100-540PM  BIS 510P  YELLOW SINGLE LINES  2700 JE PAY AND DEPAR MON FIRST 100-430PM  DEP SENSE AND SAT 100-540PM  RESIDENT PERMIT HOLDER MON SAT 100-430PM  PERMIT/HOLDER NOW AND SAT 100-430PM  PERMIT HOLDER MON SAT 100-430PM  PERMIT/HOLDER NOW AND DEPLAY MON SAT 100-430PM  DOUBLE YELLOW SINGLE LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  PERMIT/HOLDER NOW AND DEPLAY MON SAT 100-430PM  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW LINES  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW SINGLE LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  DOUBLE YELLOW SINGLE LINES  PERSONNEY PERMIT HOLDER MON SAT 100-430PM  PERMIT/HOLDER MON SAT 100-430PM  PERMIT/HOLDER MON SAT 100-430PM  PERMIT HOLDER MON SAT 100-430PM  PERMIT HOLDER MON SAT 100-430PM  PERMIT HOLDER M	5.3 24 224 224 11 15.6 5.6 9.6 9.7 170,4 9.6 170,2 131,3 170,4 176,2 181,2 18	13 13 17 2 2 1 1 3 1 3 1 7 7 1 1 5 5 1 5 1 5 1 1 4 1 4 4 4 4 4 4 4 4	13 15 2 2 1 1 1 2 2 6 11 1 1 6 6 6 1 1 1 1 5 5 7 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 3 3 0 0 1 1 1 5 5 5 5 5 5 5 0 0 1 1 1 1 5 5 5 5	92.9% 88.2% 100.0% 25.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

	TIME: 0315	
PARKED	OBSERVED SPACES	%STREET STRESS
12	4	75.0%
1 10	4	71.4%
1	2	33.3%
14	0	100.0%
14	1	93.3%
17	0	100.0%
16	1	94.1%
4	0	100.0%
1		
1 19	1	50.0%
4	0	100.0%
15	0	100.0%
1	0	100.0%
1	1	50.0%
8	0	100.0%
0	5	0.0%
49	3	94.2%
2 2	1 2	66.7%
	1 2 2	66.7%
2	1 2 2 2	66.7%
0	1 2 2 2	66.7% 50.0% 0.0%
14	1	66.7% 50.0% 0.0% 100.0%
2 0 14 16 2	1 0	66.7% 50.0% 0.0% 100.0%
14 16 2	1 0	66.7% 50.0% 0.0% 100.0% 94.1% 100.0%
2 0 14 16 2 2	1 1 2 2 0	66.7% 50.0% 0.0% 100.0% 100.0% 50.0%
2 0 14 16 2 2	1 0	66.7% 50.0% 0.0% 100.0% 100.0% 66.7%
2 0 14 16 2 2 2 2 7 12	1 0 1 2 0 0 0	66.7% 50.0% 0.0% 100.0% 100.0% 66.7% 50.0% 100.0%
2 0 14 16 2 2 2 2 2 7 12	1 2 2 0 0 0 0	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 100.0%
2 0 14 16 2 2 2 2 7 12 2	1 0 1 2 0 0 0	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 50.0% 100.0% 100.0% 100.0%
2 2 2 2 2 2 2 2 2 2 16 6 6	1 0 1 2 0 0 0	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 50.0% 100.0% 100.0% 100.0%
2 2 2 2 2 2 2 2 2 2 2 12 16 6	1 0 1 2 0 0 0 0 0	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 100.0% 100.0% 25.0% 94.1% 85.7%
2 2 2 2 2 2 2 2 2 2 2 10 16 6	1 0 1 2 0 0 0 0 0	66.7% 50.0% 0.0% 100.0% 94.1% 100.0% 50.0% 100.0% 100.0% 94.1% 95.7%
2 2 2 2 2 2 2 2 16 6	1 0 0 0 0 0 0 0 1 1 1 2	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0%
14 16 16 2 2 2 2 7 7 12 16 6 6 11 19 1 1 1 15 15 16 6 6	1 1 2 2 0 0 0 0 1 1 1 1 2 2 1 1 1 1 1 1	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0%
14 16 16 2 2 2 2 7 7 12 16 6 6 11 19 1 1 1 15 15 16 6 6	1 1 2 2 0 0 0 0 1 1 1 1 2 2 1 1 1 1 1 1	66.7% 50.0% 0.0% 100.0% 100.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0%
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 2 2 0 0 0 0 1 1 1 1 2 2 1 1 1 1 1 1	66.7% 100.0% 100.0% 100.0% 94.1% 94.1% 66.7% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 2 2 0 0 0 0 1 1 1 1 2 2 1 1 1 1 1 1	66.7% 100.0% 100.0% 100.0% 94.1% 94.1% 66.7% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
14 16 2 2 2 2 2 2 2 2 2 2 2 16 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 0 0 0 0 1 1 1 1 0 0 0 5 5 1 1 1 1 1 1 1	66.7% 50.0% 100.0% 100.0% 94.1% 100.0% 66.7% 50.0% 100
14 16 2 2 2 2 7 12 16 6 6 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66.7% 50.0% 100.0% 100.0% 50.0% 66.7% 50.0
14 16 2 2 2 2 2 2 2 2 2 2 16 6 6 6 6 6 6 6	1 0 0 0 0 0 0 1 1 1 1 2 2 0 0 0 0 0 0 0	66.7% 50.0% 100.0% 100.0% 94.1% 100.0% 1
14 16 2 2 2 2 7 12 16 6 6 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66.7% 50.0% 100.0% 100.0% 50.0% 66.7% 50.0

	2019 TIME : 0245	PTEMBER
PARKED	OBSERVED	%STREET STRESS
14		87.5%
1		
11	2	84.6% 0.0%
15	1	93.8%
14	1	93.3%
17	0	100.0%
16	1	94.1%
4	0	100.0%
1	1	50.0%
21	0	100.0%
4	0	100.0%
14	1	93.3%
14	0	100.0%
2	0	100.0%
7	1	87.5%
0		0.0%
50	2	96.2%
0	4	0.0%
0	2	0.0%
14	0	100.0%
17	0	100.0%
2	0	100.0%
2	0	50.0%
6	1 0	85.7% 100.0%
2	0	100.0%
14	2	87.5% 100.0%
	v	200.0%
1 20	3	25.0% 95.2%
4	0	100.0%
16 1 6	0	100.0% 100.0% 100.0%
1	4	20.0%
-	•	100 000
3	5	100.0%
•		
1	0	100.0%
2	3	40.0%
	4	92.9%
9		
9	2	71.4%
9	4	71.4% 0.0%
9 5 0	2 4	71.4% 0.0%
9	1	0.0%



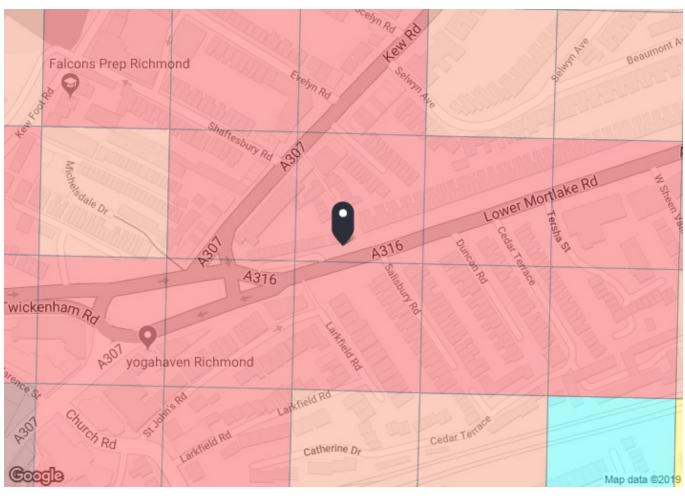


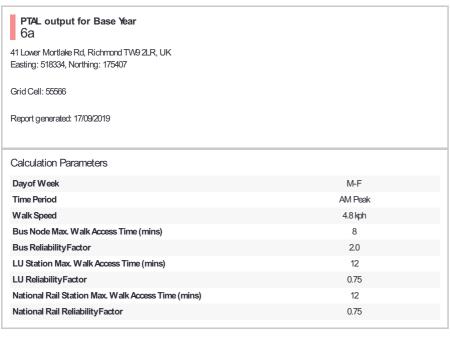


# **Appendix C**

(PTAL Report)







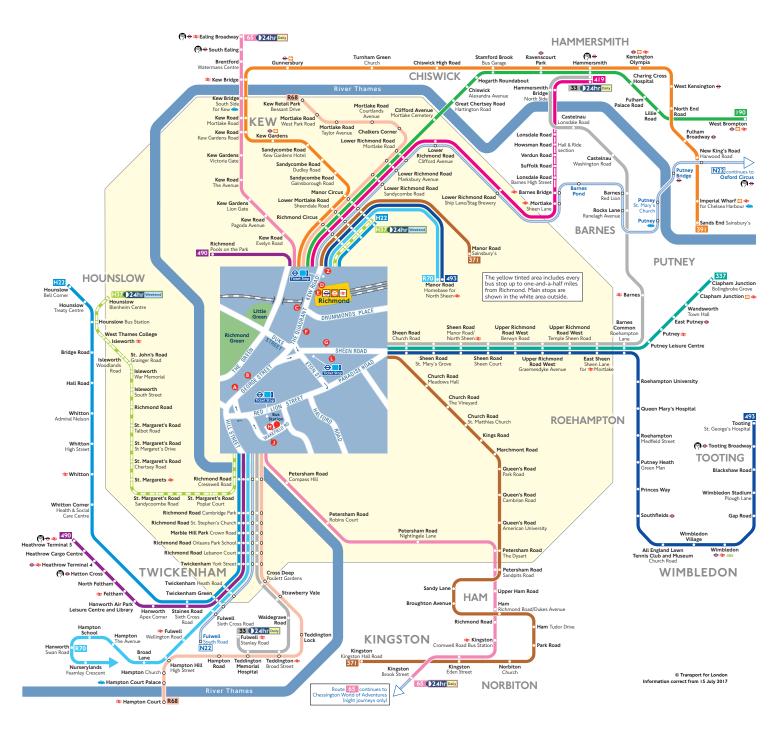


Mode	Stop	Route	Distance (metres)	Frequency (vph)	Walk Time (mins)	SWT (mins)	TAT (mins)	EDF	Weight	Al
Bus	KEW ROAD RICHMOND CIRCUS	65	90.43	9	1.13	5.33	6.46	4.64	1	4.64
Bus	RICHMOND CIRCUS (LM RD)	371	354.92	7	4.44	6.29	10.72	2.8	0.5	1.4
Bus	RICHMOND CIRCUS (LM RD)	493	354.92	5	4.44	8	12.44	2.41	0.5	1.21
Bus	RICHMOND CIRCUS (LM RD)	190	354.92	4	4.44	9.5	13.94	2.15	0.5	1.08
Bus	RICHMOND CIRCUS (LM RD)	419	354.92	4	4.44	9.5	13.94	2.15	0.5	1.08
Bus	RICHMOND CIRCUS (LM RD)	H37	354.92	10	4.44	5	9.44	3.18	0.5	1.59
Bus	RICHMOND CIRCUS (LM RD)	R68	354.92	4	4.44	9.5	13.94	2.15	0.5	1.08
Bus	RICHMOND CIRCUS (LM RD)	R70	354.92	6	4.44	7	11.44	2.62	0.5	1.3
Bus	RICHMOND CIRCUS (LM RD)	391	354.92	6	4.44	7	11.44	2.62	0.5	1.3
Bus	RICHMOND CIRCUS (L M RD)	H22	354.92	5	4.44	8	12.44	2.41	0.5	1.2
Bus	RICHMOND STATION	490	476.96	5	5.96	8	13.96	2.15	0.5	1.07
Rail	Richmond	'RICHMND-GUILDFD 2N13'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'ALDRSHT-WATRLMN 1N90'	526.44	1	6.58	30.75	37.33	8.0	0.5	0.4
Rail	Richmond	'RDNG4AB-WATRLMN 2C10'	526.44	0.67	6.58	45.53	52.11	0.58	0.5	0.2
Rail	Richmond	'WATRLMN-RDNG4AB 2C13'	526.44	0.67	6.58	45.53	52.11	0.58	0.5	0.2
Rail	Richmond	'RDNG4AB-WATRLMN 2C14'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'RDNG4AB-WATRLMN 2C16'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'WATRLMN-RDNG4AB 2C17'	526.44	1.33	6.58	23.31	29.89	1	0.5	0.5
Rail	Richmond	'RDNG4AB-WATRLMN 2C18'	526.44	0.67	6.58	45.53	52.11	0.58	0.5	0.2
Rail	Richmond	'WATRLMN-RDNG4AB 2C85'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'WATRLMN-RDNG4AB 2C87'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'RDNG4AB-WATRLMN 2C90'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'SHEPRTN-WATRLMN 2H92'	526.44	1	6.58	30.75	37.33	0.8	0.5	0.4
Rail	Richmond	'WDON-WATRLMN 2K03'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
Rail	Richmond	'WATRLMN-WATRLMN 2K09'	526.44	2	6.58	15.75	22.33	1.34	1	1.3
Rail	Richmond	'WATRLMN-WATRLMN 2009'	526.44	2	6.58	15.75	22.33	1.34	0.5	0.6
Rail	Richmond	'WATRLMN-WATRLMN 2R09'	526.44	2	6.58	15.75	22.33	1.34	0.5	0.6
Rail	Richmond	'WSORAER-WATRLMN 2U10'	526.44	2	6.58	15.75	22.33	1.34	0.5	0.6
Rail	Richmond	'WATRLMN-WSORAER 2U13'	526.44	2	6.58	15.75	22.33	1.34	0.5	0.6
Rail	Richmond	'HOUNSLW-WATRLMN 2V05'	526.44	0.33	6.58	91.66	98.24	0.31	0.5	0.1
LUL	Richmond	'Upminster-Richmond'	526.44	6	6.58	5.75	12.33	2.43	1	2.43
LUL	Richmond	'Richmond-DagEast'	526.44	0.67	6.58	45.53	52.11	0.58	0.5	0.29
									Total Grid Cell Al:	27.0

# **Appendix D**

(TfL Bus Spider Map)

## **Buses from Richmond**



#### **Route finder**

Bus route	Towards	Bus stops
33 D24hr Daily	Fulwell	00
	Hammersmith	<b>A G</b>
65 24hr Daily	Ealing Broadway	BO
	Kingston	000
	Chessington World of	000
	Adventures (nights only)	
190	West Brompton	BO
337	Clapham Junction	A G H
371	Kingston	D G G
	Manor Road Sainsbury's	8000
391	Sands End	BO
419	Hammersmith	BO
490	Heathrow Terminal 5	<b>9 9 0</b>
	Pools on the Park	80
493	Manor Road Homebase	8000
	Tooting	D <b>G</b> G
H22	Hounslow	<b>8 9 0</b>
	Manor Circus	BO
H37 24hr Weekend	Hounslow	990
	Manor Circus	BO
R68	Hampton Court	<b>330</b>
	Kew Retail Park	80
R70	Manor Road Homebase	80
	Nurserylands	<b>330</b>

#### **Night Buses**

Bus route	Towards	Bus stops		
N22	Fulwell	990		
	Oxford Circus	BA		

#### Other Buses

Bus route	Towards	Bus stops
969	Roehampton Vale ASDA ▼	BG
	Whitton ▼	00

## Key

33	Day buses in black
N22	Night buses in blue
0	Connections with London Underground
0	Connections with London Overground
*	Connections with National Rail
DLR	Connections with DLR
	Connections with London Trams
-	Connections with river boats
▼	One journey on Tuesdays and Fridays only
	Operates daily with 24-hour service Friday and
	Saturday nights
<b>⋒</b> ♠	Tube station with 24-hour service Friday and
(2)	Saturday nights

## Ways to pay



Top up your Oyster pay as you go credit or buy Travelcards and bus & tram passes at around 4,000 shops across London.

# **Appendix E**

(TRICS Report)

total persons-privately owned flats

TTP Consulting 111-113 Great Portland Street London

Licence No: 752101

Calculation Reference: AUDIT-752101-190916-0939

Monday 16/09/19

Page 1

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : C - FLATS PRIVATELY OWNED

MULTI-MODAL VEHICLES

Selected regions and areas:

O1 GREATER LONDON

IS ISLINGTON

2 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Number of dwellings Actual Range: 14 to 15 (units: ) Range Selected by User: 9 to 25 (units: )

Parking Spaces Range: Selected: 0 to 0 Actual: 2 to 290

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 08/11/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday 1 days Wednesday 1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 2 days
Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Edge of Town Centre 2

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone 1
Built-Up Zone 1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

C3 2 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

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Licence No: 752101

TTP Consulting 111-113 Great Portland Street London

Secondary Filtering selection (Cont.):

Population within 1 mile:

50,001 to 100,000 1 days 100,001 or More 1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

500,001 or More 2 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.5 or Less 2 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 2 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

6a Excellent 2 days

This data displays the number of selected surveys with PTAL Ratings.

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111-113 Great Portland Street London TTP Consulting Licence No: 752101

LIST OF SITES relevant to selection parameters

IS-03-C-05 **BLOCK OF FLATS ISLINGTON** 

LEVER STREET **FINSBURY** 

Edge of Town Centre Built-Up Zone

Total Number of dwellings: 15

Survey date: WEDNESDAY 29/06/16 Survey Type: MANUAL

IS-03-C-06 **BLOCK OF FLATS** ISLINGTON

CALEDONIAN ROAD

**HOLLOWAY** 

Edge of Town Centre Residential Zone

Total Number of dwellings: 14

Survey date: MONDAY 27/06/16 Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL TOTAL PEOPLE

Calculation factor: 1 DWELLS

Estimated TRIP rate value per 16 DWELLS shown in shaded columns

BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES			TOTALS					
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate
00:00 - 01:00												
01:00 - 02:00												
02:00 - 03:00												
03:00 - 04:00												
04:00 - 05:00												
05:00 - 06:00												
06:00 - 07:00												
07:00 - 08:00	2	15	0.034	0.552	2	15	0.310	4.966	2	15	0.344	5.518
08:00 - 09:00	2	15	0.034	0.552	2	15	0.586	9.379	2	15	0.620	9.931
09:00 - 10:00	2	15	0.034	0.552	2	15	0.345	5.517	2	15	0.379	6.069
10:00 - 11:00	2	15	0.069	1.103	2	15	0.241	3.862	2	15	0.310	4.965
11:00 - 12:00	2	15	0.069	1.103	2	15	0.069	1.103	2	15	0.138	2.206
12:00 - 13:00	2	15	0.034	0.552	2	15	0.069	1.103	2	15	0.103	1.655
13:00 - 14:00	2	15	0.138	2.207	2	15	0.103	1.655	2	15	0.241	3.862
14:00 - 15:00	2	15	0.034	0.552	2	15	0.069	1.103	2	15	0.103	1.655
15:00 - 16:00	2	15	0.103	1.655	2	15	0.138	2.207	2	15	0.241	3.862
16:00 - 17:00	2	15	0.310	4.966	2	15	0.103	1.655	2	15	0.413	6.621
17:00 - 18:00	2	15	0.276	4.414	2	15	0.034	0.552	2	15	0.310	4.966
18:00 - 19:00	2	15	0.379	6.069	2	15	0.241	3.862	2	15	0.620	9.931
19:00 - 20:00	2	15	0.517	8.276	2	15	0.103	1.655	2	15	0.620	9.931
20:00 - 21:00	2	15	0.241	3.862	2	15	0.138	2.207	2	15	0.379	6.069
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			2.272	36.415			2.549	40.826			4.821	77.241

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP\*FACT. Trip rates are then rounded to 3 decimal places.