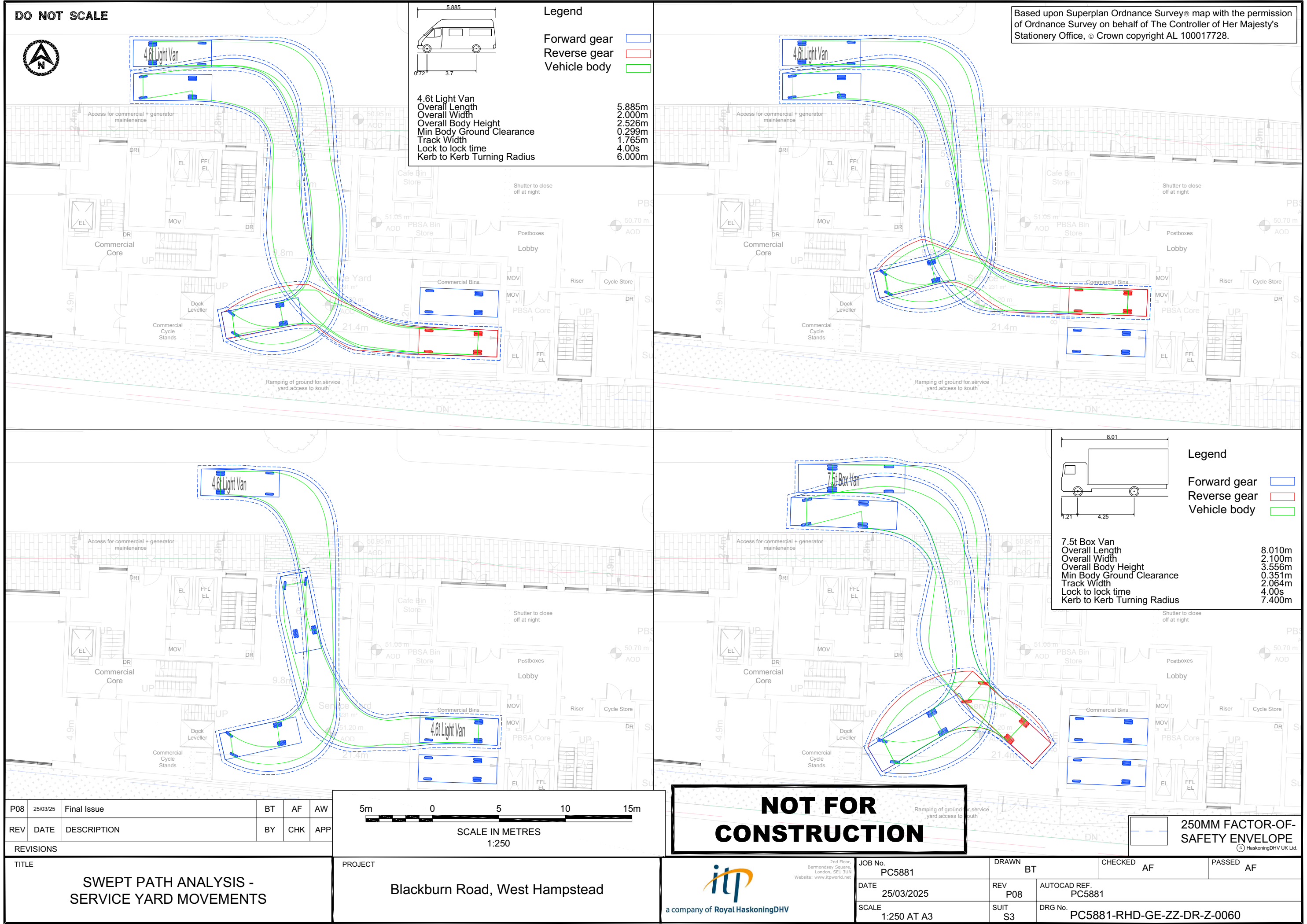


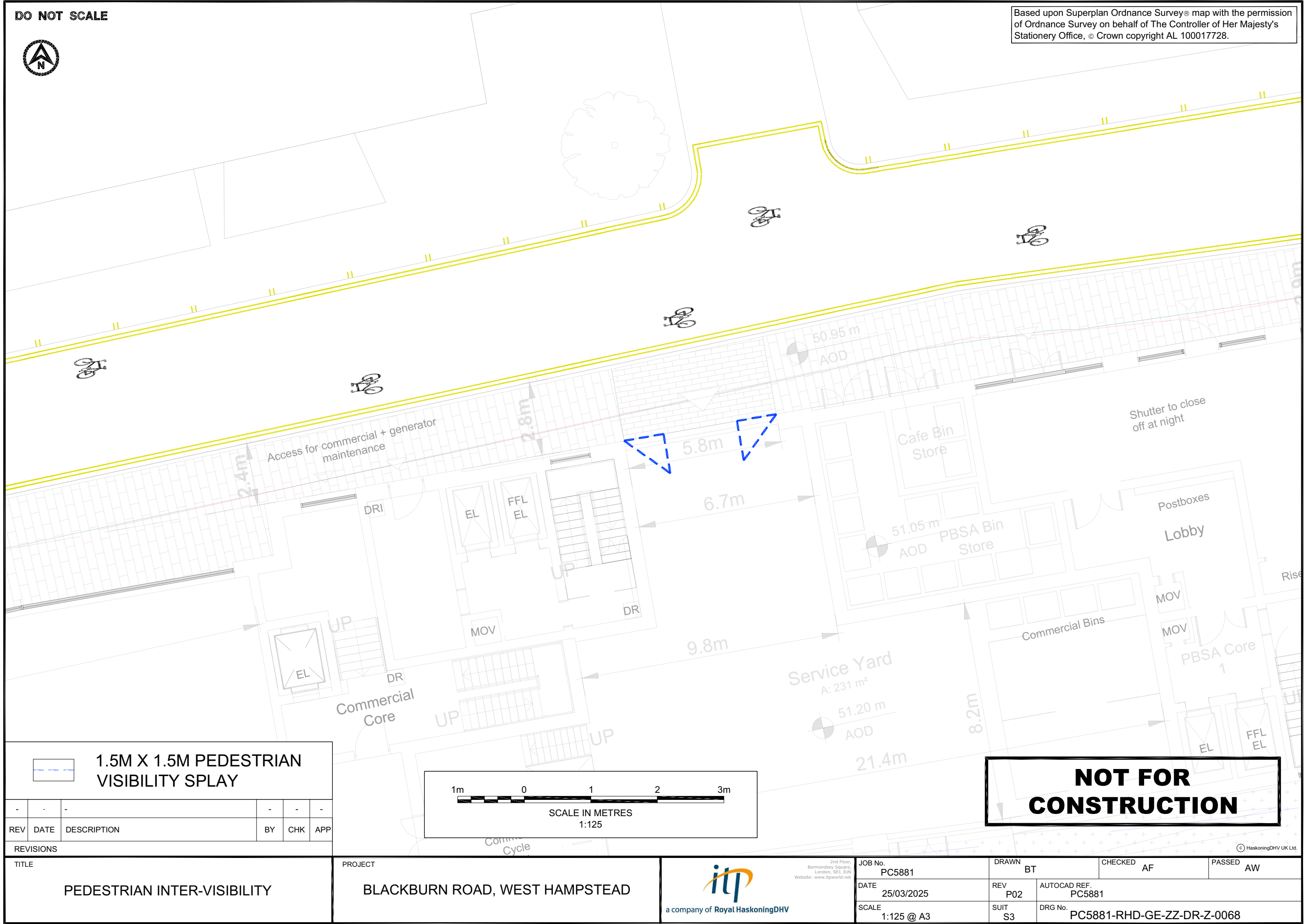
Appendix H: Swept Path Analysis Drawings



DO NOT SCALE



Based upon Superplan Ordnance Survey® map with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationary Office, © Crown copyright AL 100017728.

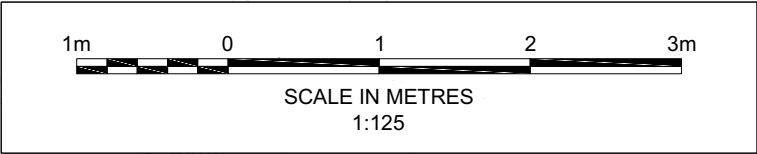


1.5M X 1.5M PEDESTRIAN
VISIBILITY SPLAY

REV	DATE	DESCRIPTION	BY	CHK	APP
-	-	-	-	-	-

REVISIONS

TITLE	PROJECT
PEDESTRIAN INTER-VISIBILITY	BLACKBURN ROAD, WEST HAMPSTEAD



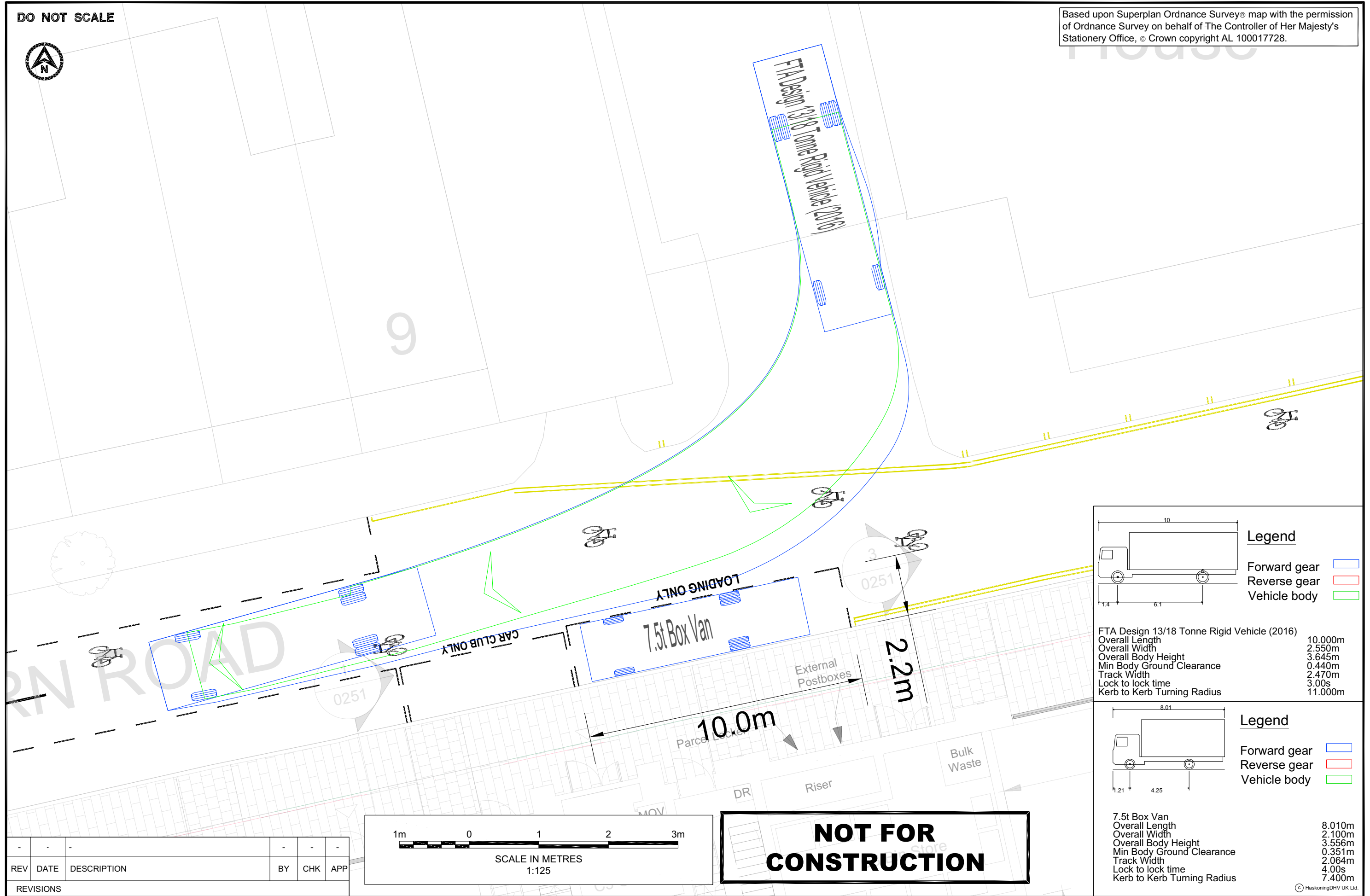
**NOT FOR
CONSTRUCTION**

 a company of Royal HaskoningDHV	JOB No. PC5881		DRAWN BT		CHECKED AF		PASSED AW	
	DATE 25/03/2025		REV P02		AUTOCAD REF. PC5881			
	SCALE 1:125 @ A3		SUIT S3		DRG No. PC5881-RHD-GE-ZZ-DR-Z-0068			

DO NOT SCALE



Based upon Superplan Ordnance Survey® map with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationary Office, © Crown copyright AL 100017728.



Legend

Forward gear —
Reverse gear —
Vehicle body —

FTA Design 13/18 Tonne Rigid Vehicle (2016)

Overall Length	10.000m
Overall Width	2.550m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

Legend

Forward gear —
Reverse gear —
Vehicle body —

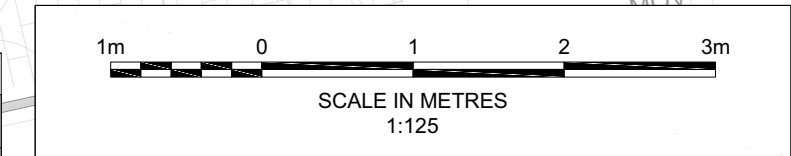
7.5t Box Van

Overall Length	8.010m
Overall Width	2.100m
Overall Body Height	3.556m
Min Body Ground Clearance	0.351m
Track Width	2.064m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	7.400m

© HaskoningDHV UK Ltd.

REV	DATE	DESCRIPTION	BY	CHK	APP
-	-	-	-	-	-

REVISIONS					
TITLE					
SWEPT PATH ANALYSIS - LOADING BAY					



PROJECT
BLACKBURN ROAD, WEST HAMPSTEAD

NOT FOR CONSTRUCTION


a company of Royal HaskoningDHV

JOB No.	PC5881
DATE	25/03/2025
SCALE	1:125 @ A3

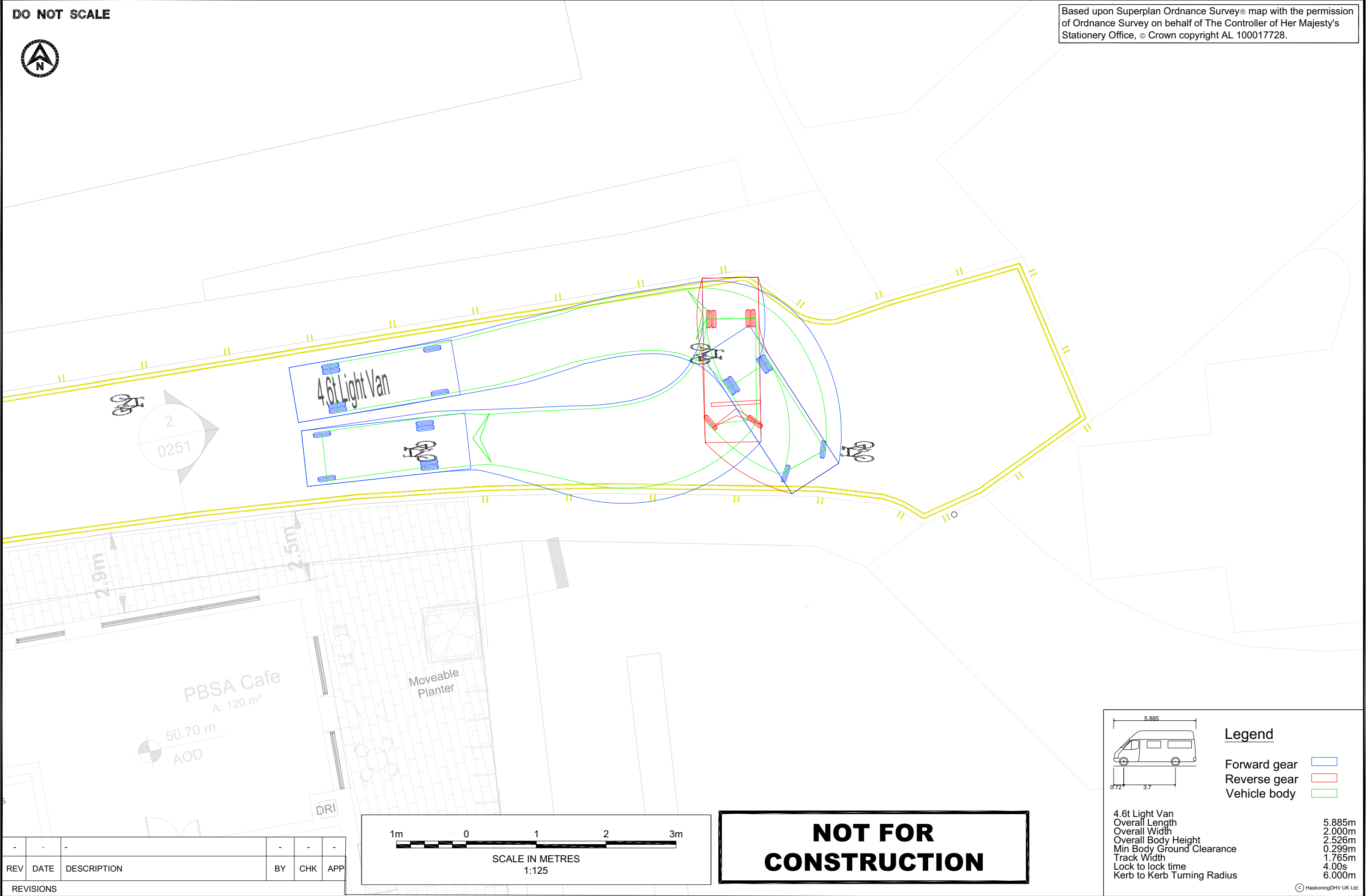
DRAWN	BT
REV	P02
SUIT	S3

CHECKED	AF
PASSED	AW
AUTOCAD REF.	PC5881
DRG No.	PC5881-RHD-GE-ZZ-DR-Z-0067

DO NOT SCALE

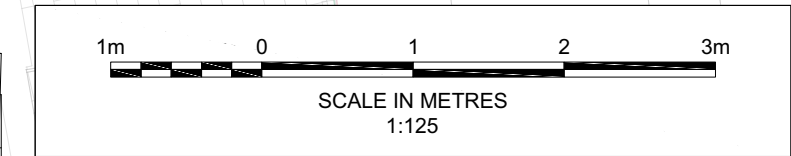


Based upon Superplan Ordnance Survey® map with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationary Office, © Crown copyright AL 100017728.



REV	DATE	DESCRIPTION	BY	CHK	APP
-	-	-	-	-	-

REVISIONS					
TITLE					
SWEPT PATH ANALYSIS - TURNING HEAD					



**NOT FOR
CONSTRUCTION**

Legend

Forward gear —

Reverse gear —

Vehicle body —

4.6t Light Van

Overall Length	5.885m
Overall Width	2.000m
Overall Body Height	2.526m
Min Body Ground Clearance	0.299m
Track Width	1.765m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	6.000m

© HaskoningDHV UK Ltd.

TITLE	PROJECT	 a company of Royal HaskoningDHV 2nd Floor, Bermondsey Square, London, SE1 3UR Website: www.itpworld.net	JOB No. PC5881	DRAWN BT	CHECKED AF	PASSED AW
SWEPT PATH ANALYSIS - TURNING HEAD	BLACKBURN ROAD, WEST HAMPSTEAD		DATE 26/03/2025	REV P03	AUTOCAD REF. PC5881	
			SCALE 1:125 @ A3	SUIT S3	DRG No. PC5881-RHD-GE-ZZ-DR-Z-0066	

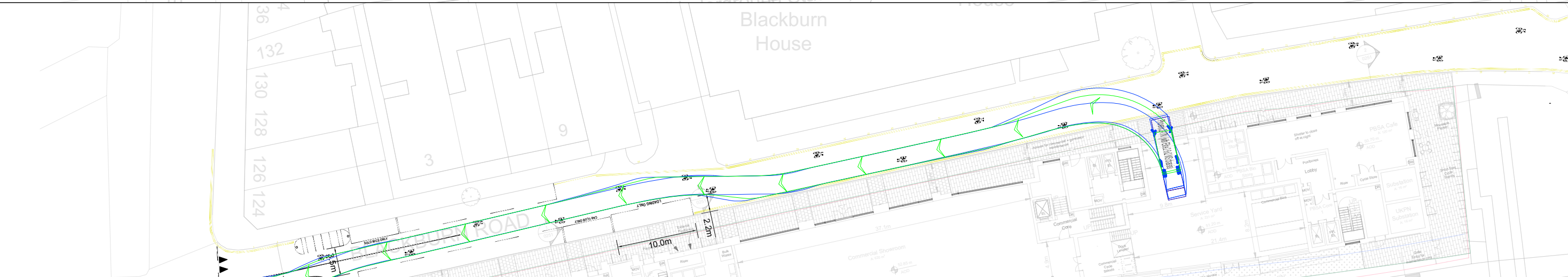
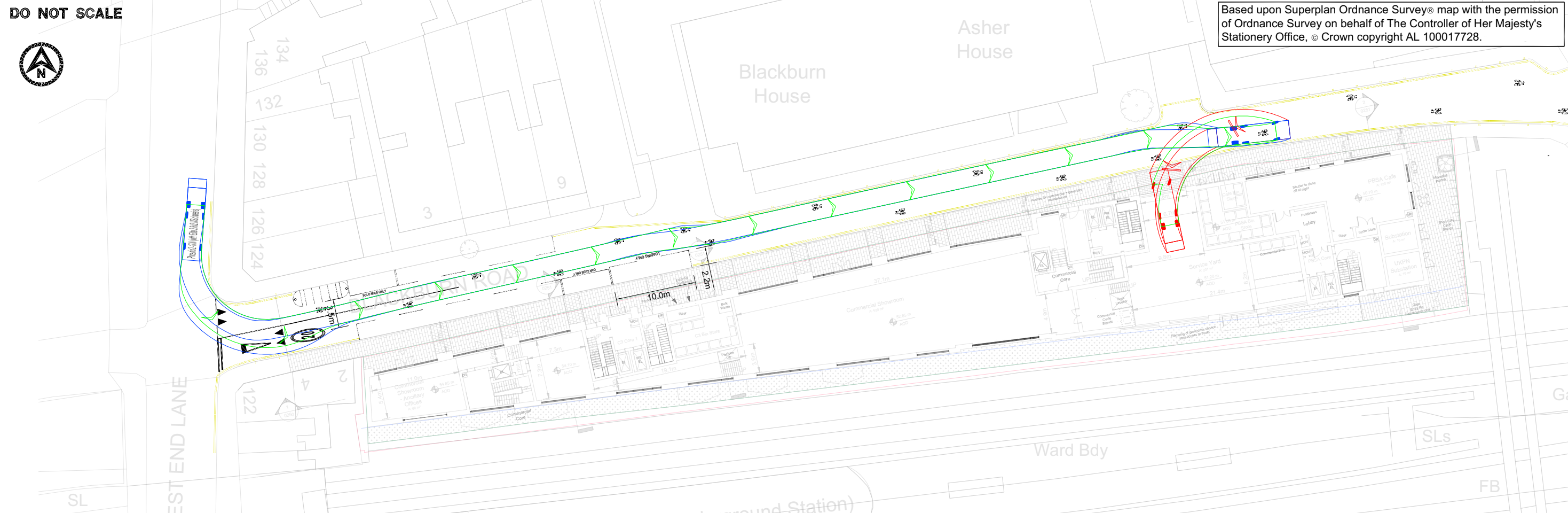


2nd Floor
Bermondsey Square
London, SE1 3UN
Website: www.itpworld.net

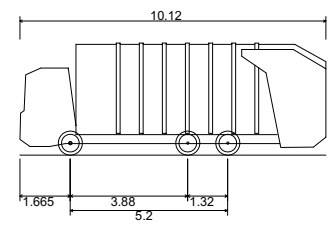
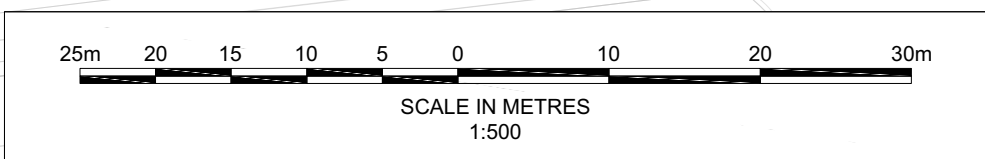
DO NOT SCALE



Based upon Superplan Ordnance Survey® map with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationary Office, © Crown copyright AL 100017728.



**NOT FOR
CONSTRUCTION**



Legend
Forward gear —
Reverse gear —
Vehicle body —

Phoenix 2-17N (with Elite 2 6x2 MS chassis)
Overall Length 10.120m
Overall Width 2.250m
Overall Body Height 3.707m
Min Body Ground Clearance 0.260m
Track Width 2.250m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 11.550m

© HaskoningDHV UK Ltd.

REV	DATE	DESCRIPTION	BY	CHK	APP
-	-	-	-	-	-
REVISIONS					
TITLE					
SWEPT PATH ANALYSIS - REFUSE VEHICLE					

PROJECT
BLACKBURN ROAD, WEST HAMPSTEAD



JOB No.
PC5881
DATE
25/03/2025
SCALE
1:500 @ A3

DRAWN
BT
REV
P03
SUIT
S3

CHECKED
AF
PASSED
AW
AUTOCAD REF.
PC5881
DRG No.
PC5881-RHD-GE-ZZ-DR-Z-0065

Appendix I: Stage 1 Road Safety Audit and Designer's Response

REPORT

14 Blackburn Road, West Hampstead

Stage 1 Road Safety Audit

Client: Fifth State

Reference: PC5881-RHD-ZZ-XX-RP-SA-0001

Status: Draft/00

Date: 24 March 2025



a company of Royal HaskoningDHV

Project related



a company of Royal HaskoningDHV

HASKONINGDHV UK LTD.

6th floor Cornerblock
2 Cornwall St
Birmingham
B3 2DX
United Kingdom
Mobility & Infrastructure
VAT registration number: 792428892

Phone: +44 (0) 121 709 6520
Email: info@rhdhv.com
Website: itpworld.net

Document title: 14 Blackburn Road, West Hampstead
Subtitle: Stage 1 Road Safety Audit
Reference: PC5881-RHD-ZZ-XX-RP-SA-0001
Your reference: Blackburn Road RSA 1
Status: Draft/00
Date: 24 March 2025
Project name: Blackburn Road, West Hampstead
Project number: PC5881
Author(s): Jimoh Ibrahim

Drafted by: Jimoh Ibrahim

Checked by: Keelan Peak

Date: 24.03.2025

Approved by: Jimoh Ibrahim

Date: 24.03.2025

Classification: Project related

Unless otherwise agreed with the Client, no part of this document may be reproduced or made public or used for any purpose other than that for which the document was produced. HaskoningDHV UK Ltd. accepts no responsibility or liability whatsoever for this document other than towards the Client.

Please note: this document contains personal data of employees of HaskoningDHV UK Ltd.. Before publication or any other way of disclosing, this report needs to be anonymized, unless anonymisation of this document is prohibited by legislation.



Table of Contents

1	Introduction	1
2	Matters Arising from this Stage 1 Road Safety Audit	3
A1	Local Alignment	3
A2	General	5
A3	Junctions	5
A4	Pedestrians, Cyclists and Equestrians	6
A5	Traffic Signs, Carriageway Markings and Lighting	6
3	Audit Team Statement	7

Table of Figures

Figure 1 – Site Location Plan

Figure 2 – Problem Location Plan

Appendices

Appendix A – Documents forming the Audit Brief



1 Introduction

ITP, a company of Royal HaskoningDHV, has been appointed by Fifth State to undertake a Stage 1 Road Safety Audit. The Audit relates to highway works associated with a proposed mixed-use residential development at 14 Blackburn Road, West Hamstead in London. The location of the scheme is shown in **Figure 1** of this report.

The Audit Team for this Stage 1 Road Safety Audit was:

Audit Team Leader

Jimoh Ibrahim Jr, BEng (Hons), MSc (Hons), MSoRSA, MCIHT, Certificate of Competency
ITP

Audit Team Member

Keelan Peak, BSc, MCIHT, MSoRSA, Certificate of Competency
ITP

Audit Team Observer

Aditya Addanki, BSc, MCIHT
ITP

The Road Safety Audit took place on Monday 24 March 2025, in accordance with the Audit Brief provided by Amin Fouladi of ITP's independent Planning Team as Designers of the scheme. The Road Safety Audit comprised an examination of the Audit Brief, the documents listed in **Appendix A** of this report, and a site visit.

The Audit Team has not been advised on the Overseeing Organisation associated with this Stage 1 Road Safety Audit.

The Audit Team confirm that the information provided within, and as part of, the approved Audit Brief, was sufficient for the purposes of this Stage 1 Road Safety Audit.

The terms of reference for the Road Safety Audit are described in GG 119¹. The Road Safety Audit has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the design to any other criteria.

The Audit relates to highway works associated with a proposed mixed-use residential development at 14 Blackburn Road (the site). Detailed in the provided Audit Brief, these works include:

- Vehicle Access
 - The retention of the existing vehicular access from Blackburn Road to the site, with this available for service vehicles related to the commercial elements of the development.
- Loading Bay
 - A proposed 10.0 metres (m) long and 2.2m wide on-street loading bay at the western side of the Blackburn Road frontage of the Site. The loading bay would be used primarily by delivery vehicles serving the residential, and café elements of the development.
- Pedestrian & Cyclist Access
 - The retention of the existing pedestrian access points to the east of the site; and
 - A proposed point of access further west of the existing café entrance.

¹ GG 119 Road Safety Audit (Formerly HD 19/15), Revision 2, published by National Highways (as Highways England) in January 2020



- Pedestrian Improvements
 - A proposed improved footway on Blackburn Road, providing widths of 3.5m to 3.7m to the west of the site, whilst facilitating a minimum width of 2.4m at a point of local narrowing.
 - The proposed conversion of the access to the private service yard to be a footway crossover, giving priority to pedestrians.

No details have been provided to the Audit Team in relation to the following and as such, it has not been possible to identify some safety problems which could arise from these aspects of the design.

- Drainage (including gully covers or any amendments to existing carriageway drainage).
- Kerbing (including dropped kerb provision, kerb heights, transition kerbs).
- Lighting provision (including sign illumination or amendments to existing carriageway lighting).
- Road Markings.
- Signage.

It is recommended that details relating to the above are provided as part of a detailed design and subject to a Stage 2 Road Safety Audit.

A daytime site visit was undertaken by the Audit Team on Friday 20 March 2025 at 11:30, during the morning interpeak traffic period. Weather conditions during the site visit were clear and surface conditions were dry. Given the location, function of the highway and the time of day, observed traffic flows and non-motorised user activity were considered to be 'typical'.

The locations of any problems identified by the Audit Team are shown in **Figure 2** of this report.

Personal Injury Collision (PIC) data was provided to the Audit Team as part of the approved Audit Brief. The PIC data which was provided for the wider scheme indicates that 147 PICs have been recorded within the wider study area between an unspecified five-year period. The Audit Team has undertaken a further review of collision data on the CrashMap Pro website². The review, which focussed on the most recently available five-year period (2019 to 2023) identified three PICs on Blackburn Road, within the extents of the scheme.

Notably, the CrashMap database only contains collisions up to December 2023. As such, further details relating to any collisions in the vicinity of the proposed scheme would require independent verification by the client should the local highway authority have any concerns relating to the collision history at this location.

Any recommendations included within this report should not be regarded as being prescriptive design solutions to the problems identified. They are only to indicate a proportionate and viable means of eliminating or mitigating the identified problem in accordance with GG 119, and in no way imply that a formal design process has been undertaken.

There may be alternative means of addressing a problem which would be equally as acceptable or superior in achieving the desired degree of mitigation, and these should be considered when responding to this report.

² www.crashmap.co.uk

2 Matters Arising from this Stage 1 Road Safety Audit

A1 Local Alignment

A1.1 New/ Existing Interface

A1.1.1 Problem 1

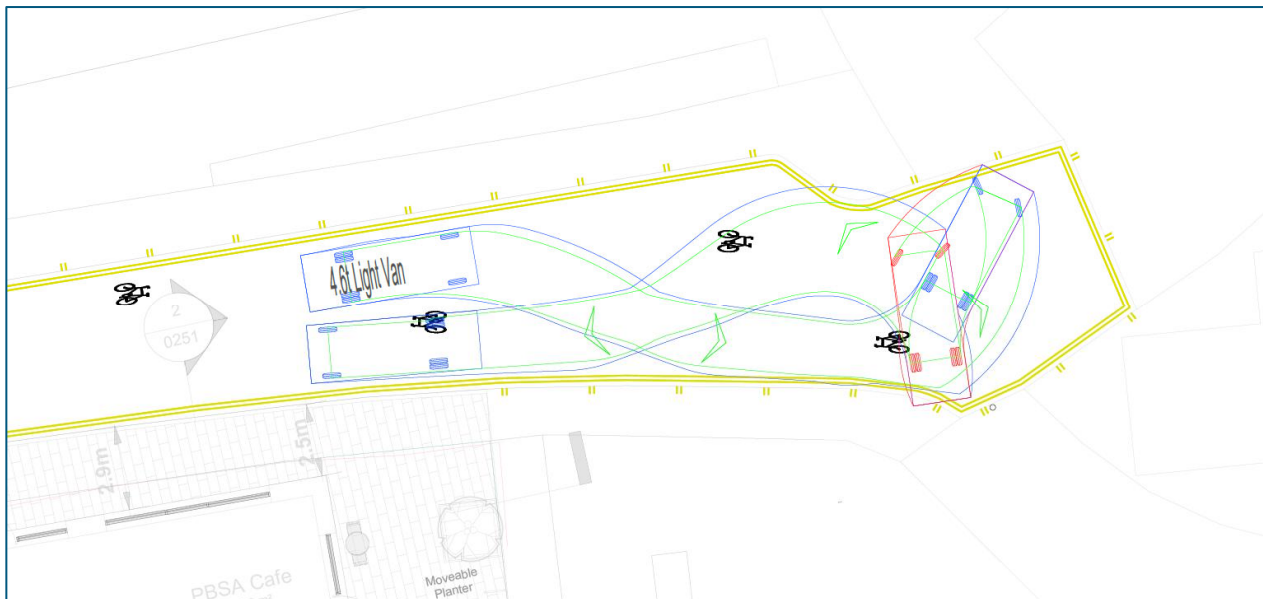
Location: Blackburn Road, existing turning head

Summary: Inappropriate geometry and alignment of the turning head could lead to conflicts between vehicular movements, collisions with street furniture or kerb overrunning, with the potential for conflicts with non-motorised road users on the footway.

Description: Drawing PC5881-RHD-GE-ZZ-DR-Z-0066 S3 P01 provided to the Audit Team details the swept path analysis carried out for a '4.6t light van' vehicle on the turning head. From the drawing provided, the Audit Team observed that the body of the vehicle tracked encroaches into the adjacent footway at multiple locations.

The Audit Team is concerned that vehicles encroaching into the footway whilst negotiating the turning head could result in potential collisions with non-motorised users.

Image 1: Extract of drawing PC5881-RHD-GE-ZZ-DR-Z-0066 S3 P01, showing vehicle body overhanging the footway



Recommendation – A1.1.1

Swept path analysis drawings should be provided, clearly demonstrating that vehicles can manoeuvre through the turning head without overhanging the adjacent footway. Should this not be achievable, the geometry of the turning head should be revised accordingly.



a company of Royal HaskoningDHV

A1.1.2 Problem 2

Location: Blackburn Road, scheme extents.

Summary: Injudicious parking throughout the scheme extents could limit the effective geometry of the highway, increasing the likelihood of collisions.

Description: During the site visit, the Audit Team observed injudicious parking within the existing double yellow road markings along the scheme. The presence of injudiciously parked vehicles made it more difficult for vehicles to manoeuvre through Blackburn Road.

Whilst the Audit Team acknowledge that double yellow road markings are present on the proposal drawing, the Audit Team is concerned that injudicious parking would continue on Blackburn Road, given the context of the road and its surroundings. The Audit Team is concerned that injudicious parking throughout the scheme extents could limit the effective geometry of the highway and subsequently increase the likelihood of collisions.

The Audit Team is further concerned that injudicious parking throughout the scheme extents could result in a reduction of the intervisibility between pedestrians using the controlled crossing and other road users. This could increase the likelihood of collisions between road users. The Audit Team is also concerned that injudicious parking could be exacerbated if the existing 'school keep clear' markings are not reinstated as part of the scheme.

Image 2: Photograph of an example of injudicious parking observed on Blackburn Road (opposite the proposed site access)



Recommendation – A1.1.2

It is recommended that measures are introduced to prevent injudicious parking within the scheme extents, to ensure the effective geometry of the highway is maintained, reducing the risk of collisions.



a company of Royal HaskoningDHV

A1.1.3 Problem 3

Location: Blackburn Road, proposed site access.

Summary: Damaged/ uneven road surface could result in loss of control collisions, exacerbated by potential ponding.

Description: During the site visit, the Audit Team observed that the carriageway is damaged/ uneven at this location. The Audit Team cannot confirm whether the damaged/ uneven road surface would be resurfaced as part of the scheme.

The Audit Team is concerned that damaged/ uneven carriageway surface and subsequent ponding could result in loss of control collisions – particularly considering two-wheeled vehicles.

Image 3: Photograph of Blackburn Road (within the extents of the proposed site access), showing carriageway damage



Recommendation – A1.1.3

It is recommended that the damaged areas of the carriageway is repaired/ resurfaced to provide an even surface, reducing the risk of collisions.

A2 General

The Audit Team did not identify any 'general' related safety problems as part of this Stage 1 Road Safety Audit.

A3 Junctions

The Audit Team did not identify any junction related safety problems as part of this Stage 1 Road Safety Audit.



a company of Royal HaskoningDHV

A4 Pedestrians, Cyclists and Equestrians

A4.1.1 Problem 4

Location: Blackburn Road, existing pedestrian crossing.

Summary: Insufficient or inconsistent tactile paving could result in visually impaired pedestrians crossing the road inappropriately, resulting in collisions with other road users.

Description: Drawing PC5881-RHD-GE-ZZ-DR-Z-0063 S3 P03 provided to the Audit Team details the proposed layout of the scheme proposals. From the drawing provided, the Audit Team cannot confirm whether the existing tactile paving at the crossing would remain as existing.

During the site visit, the Audit Team observed service chamber covers within the extents of the tactile paving at this location. The Audit Team is concerned that this could potentially lead to confusion for visually impaired pedestrians, resulting in them crossing the road inappropriately and colliding with other road users.

Image 4: Photograph of Blackburn Road pedestrian crossing, showing chamber covers and inconsistency within the extents of the tactile paving



Recommendation – A4.1.1

It is recommended that a consistent tactile paving section should be provided at the crossing location, reducing the risk of confusion to visually impaired users and subsequent collisions.

A5 Traffic Signs, Carriageway Markings and Lighting

The Audit Team did not identify any traffic signs, carriageway markings or lighting related safety problems as part of this Stage 1 Road Safety Audit.



a company of Royal HaskoningDHV

3 Audit Team Statement

We certify that this Road Safety Audit has been carried out in accordance with GG 119.

Audit Team Leader

Jimoh Ibrahim Jr. BEng (Hons), MSc (Eng), MSoRSA, MCIHT, CoC
Senior Transport Planner
ITP
6th Floor
Cornerblock
2 Cornwall Street
Birmingham
B3 2DX
United Kingdom

Signed: J. Ibrahim

Dated: 25.03.2025

Audit Team Member

Keelan Peak, BSc MCIHT, CoC
Technician
ITP
Westpoint
Peterborough Business Park
Lynch Wood
Peterborough
PE2 6FZ
United Kingdom

Signed: K. Peak

Dated: 25.03.2025

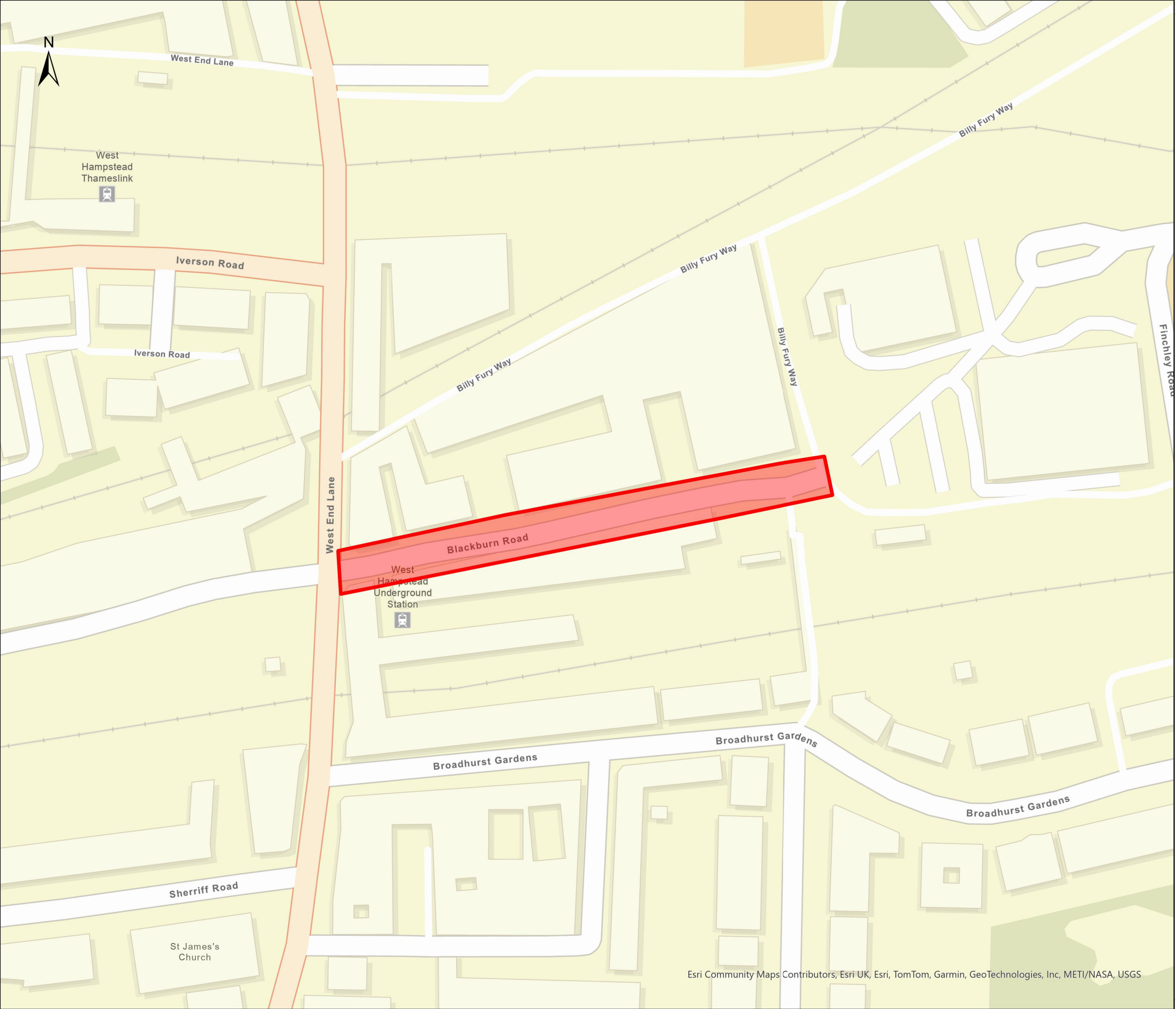
Audit Team Observer

Aditya Addanki, BSc MCIHT
Transport Planner
ITP
6th Floor
Cornerblock
2 Cornwall Street
Birmingham
B3 2DX
United Kingdom

Figures

Figure 1 – Site Location Plan

Figure 2 – Problem Location Plan



Legend
 Inductive Site Location

<i>Title</i> Site Location Plan	
<i>Project</i> 14 Blackburn Road, London Stage 1 Road Safety Audit	
<i>Client</i> Fifth State	

<i>Date</i> 25/03/2025	<i>Scale</i> NTS
---------------------------	---------------------

<i>Figure</i> Figure 1

<i>Drawn By</i> KP	<i>Checked</i> JI
-----------------------	----------------------





DO NOT SCALE



LOADING RESTRICTION AT JUNCTION FOR
OVER 5T OR BUSES
MIDNIGHT-8AM.

57.9m

146

138

134

136

132

130

128

126

124

122

114

PROBLEM 4

PROBLEM 3

PROBLEM 1

PROBLEM 2 REFERS TO
SCHEME EXTENTS

Independent
Student
Living

Asher
House

BLACKBURN ROAD

WEST END LANE

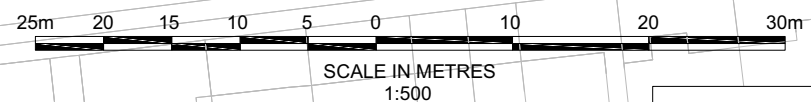
West Hampstead (Underground Station)

Ward Bdy

Gantry

SLs

FB



NOT FOR
CONSTRUCTION

BASED ON DRAWING PC5881-RHD-GE-ZZ-DR-Z-0063 S3 P03

REPRODUCED FROM ORDNANCE SURVEY MAPS WITH PERMISSION FROM THE CONTROLLER
OF HM STATIONERY OFFICE. CROWN COPYRIGHT RESERVED. LICENCE No. 100023422 2007.

© HaskoningDHV UK Ltd.

TITLE
PROBLEM LOCATION PLAN

PROJECT
BLACKBURN ROAD, LONDON STAGE 1 ROAD SAFETY AUDIT



DRAWN	KP	CHECKED	Jl	APPROVED	Jl
DATE	25.03.2025	SCALE	NTS	REF.	-
DRAWING No. FIGURE 2					REVISION

Appendix A

Documents Forming the Audit Brief

APPENDIX A

Documents Forming the Audit Brief

DRAWING NUMBER

PC5881-RHD-GE-ZZ-DR-Z-0063 S3 P03
PC5881-RHD-GE-ZZ-DR-Z-0051 S3 P07
PC5881-RHD-GE-ZZ-DR-Z-0066 S3 P01
PC5881-RHD-GE-ZZ-DR-Z-0065 S3 P02
PC5881-RHD-GE-ZZ-DR-Z-0067 S3 P01

DRAWING TITLE

Proposed Layout – Blackburn Road
Swept Path Analysis – Service Yard Movements
Swept Path Analysis – Turning Head
Swept Path Analysis – Refuse Vehicle
Swept Path Analysis – Loading Bay

DOCUMENTS

- ☒ Safety Audit Brief
- ☒ Site Location Plan
- ☐ Traffic signal details
- ☐ Departures from standard
- ☐ Previous Road Safety Audits
- ☐ Previous Designer Responses
- ☒ Collision data
- ☒ Collision plot
- ☒ Traffic flow / modelling data
- ☒ Pedestrian flow / modelling data
- ☐ Speed survey data
- ☐ Other documents

DETAILS (where appropriate)

Contained within the Audit Brief

Contained within the Audit Brief
Contained within the Audit Brief
Contained within the Audit Brief
Contained within the Audit Brief

Note / Memo

HaskoningDHV UK Ltd.
Mobility & Infrastructure

To: Camden Council
From: Amin Fouladi
Date: 25 March 2025
Copy: -
Our reference: PC5881-RHD-XX-XX-ME-X-0007 Internal use
Classification: only
Checked by: Amin Fouladi, Andy Ward

**Subject: 14 Blackburn Road - Stage 1 Road Safety
Audit - Designer's Response**

Introduction

This Stage 1 Road Safety Audit (RSA) Designer's Response Report has been prepared in response to a Road Safety Audit conducted on 24th March 2025. The audit pertains to a proposed mixed-use development at 14 Blackburn Road, West Hampstead, London. The report outlines the findings, recommendations, and responses to the issues identified during the audit.

The RSA Team was wholly independent of the design team and did not provide any input into the design of the presented scheme. The Road Safety Audit Team prepared the Audit in accordance with the criteria specified within GG 119¹.

The RSA team were provided with a Stage 1 Road Safety Audit Brief that included the following information:

- Personal Injury Collision (PIC) data covering the most recently available five-year period (2019-2023). The Audit Team also reviewed collision data on the CrashMap Pro website.
- Forecast travel demand associated with the proposed development.
- Site access design drawings, detailing the proposed vehicular access locations.
- Vehicle swept path analysis drawings.

Designer's Response to Problems Arising from the Audit

The road safety issues raised as part of the Stage 1 RSA are presented in **Table 1**. The table also presents the Designer's Response to the audit's recommendations.

¹ GG 119 Road Safety Audit, Revision 2, Design Manual for Roads and Bridges (January 2020)

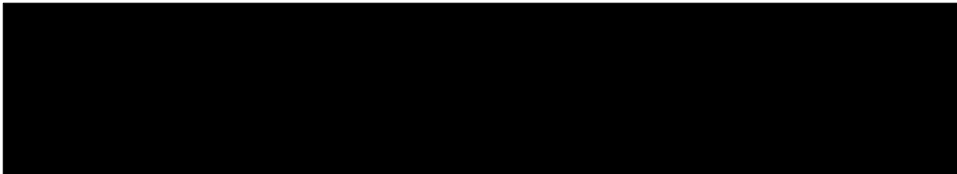
Table 1: Stage 1 Road Safety Audit Response and Designer's Response

Stage 1 RSA 'Problem' Summary	RSA Recommendation	Designer's Response	
		Agree/ Disagree	Justification
Audit Reference A1.1.1 (Problem 1) Location: Blackburn Road, existing turning head. Problem: 'Inappropriate geometry and alignment of the turning head could lead to conflicts between vehicular movements, collisions with street furniture or kerb overrunning, with the potential for conflicts with non-motorised road users on the footway.'	<i>'Swept path analysis drawings should be provided, clearly demonstrating that vehicles can manoeuvre through the turning head without overhanging the adjacent footway. Should this not be achievable, the geometry of the turning head should be revised accordingly.'</i>	Disagree	The proposed scheme suggests the implementation of double yellow blip markings throughout the turning area to prohibit loading at any time to further the support the 'no waiting' restrictions indicated by the existing double yellow lines around the turning area. This will reduce the risk of misuse of the turning area and seek to ensure that the turning area remains free from stationary vehicles, allowing sufficient space for vehicles to manoeuvre safely. It should be noted that vehicles are already using this area for turning purposes, and there is no recorded history of collisions or incidents related to the current arrangement. The proposed waiting restrictions will improve the current situation by ensuring the full extent of the carriageway is available for vehicle manoeuvres. Additionally, it is worth noting that the swept path analysis provided represents a worst-case scenario and in practice, most vehicles using this area will be smaller than the 4.6t light van that was tracked. An updated swept path assessment exercise (PC5881-RHD-GE-ZZ-DR-Z-0066 (Turning Head Final) - P03 – contained within the Transport Assessment associated with the proposed development) has been carried out to assess the minor encroachment shown in the swept path analysis that was submitted as part of the RSA Brief. The updated swept path assessment indicates that the turning manoeuvre for the 4.6t light van design vehicle can be carried out more efficiently in a wider section of the carriageway. The minor vehicle body overlap of the pedestrian footway occurs only when the vehicle is travelling in forward gear and as such it is considered that the driver will have suitable visibility to avoid conflict with other road users.
Audit Reference A1.1.2 (Problem 2) Location: Blackburn Road, scheme extents.	<i>'It is recommended that measures are introduced to prevent injudicious parking within the scheme extents, to ensure the effective geometry of the highway is maintained, reducing the risk of collisions.'</i>	Agree	Concerns regarding injudicious parking along Blackburn Road have been identified as part of the design process and in seeking to further regulate kerbside activity on Blackburn Road, the proposed design includes suggested loading restrictions in the form of double yellow blips along the

Stage 1 RSA 'Problem' Summary	RSA Recommendation	Designer's Response	
		Agree/ Disagree	Justification
'Injudicious parking throughout the scheme extents could limit the effective geometry of the highway, increasing the likelihood of collisions.'			northern side of Blackburn Road in vicinity of the Site. The suggested loading restrictions will support the existing waiting restrictions (double yellow lines on both sides of the carriageway) and provide the local highway authority with further means to enforce traffic orders to prevent illegal and inconsiderate kerbside activity. Additionally, the development will also incorporate a dedicated on-street loading bay of suitable dimensions (10.0m x 2.2m) to provide an appropriate facility for servicing vehicles, reducing the likelihood of vehicles stopping inappropriately elsewhere on the highway.
Audit Reference A1.1.3 (Problem 3) Location: Blackburn Road, proposed site access. 'Damaged/uneven road surface could result in loss of control collisions, exacerbated by potential ponding.'	<i>'It is recommended that the damaged areas of the carriageway is repaired/resurfaced to provide an even surface, reducing the risk of collisions.'</i>	Agree	The highlighted areas in the carriageway fall within the public highway and it would be within the maintenance duties of the local highway authority to deliver any such repairs/resurfacing as appropriate.
Audit Reference A4.1.1 (Problem 4) Location: Blackburn Road, existing pedestrian crossing. 'Insufficient or inconsistent tactile paving could result in visually impaired pedestrians crossing the road inappropriately, resulting in collisions with other road users.'	<i>'It is recommended that a consistent tactile paving section should be provided at the crossing location, reducing the risk of confusion to visually impaired users and subsequent collisions.'</i>	Disagree	While we acknowledge the importance of appropriate tactile paving for the safety of visually impaired pedestrians, we note that the existing pedestrian crossing in question is located outside the site boundary and falls under the jurisdiction of the local highway authority. Any improvements to this existing crossing would therefore be the responsibility of the highway authority rather than the developer. Furthermore, a review of the collision history for this location shows no recorded collisions related to the existing crossing arrangement despite this being an area with high pedestrian footfall. This suggests that the current arrangement, while not ideal, does not present an immediate safety concern that would warrant intervention as part of this development. Additionally, the pedestrian footfall arising from the proposed development would have an imperceptible impact on the existing crossing usage given the already high levels of pedestrian activity in this area. The marginal increase in pedestrian movements attributable to the development would not

Stage 1 RSA 'Problem' Summary	RSA Recommendation	Designer's Response	
		Agree/ Disagree	Justification
			materially change the risk profile of the existing crossing.

Signed:



Amin Fouladi

Royal HaskoningDHV

Appendix J: TRICS Data – PBSA

TRICS 7.11.4

Trip Rate Parameter: Number of residents

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 03 - RESIDENTIAL
 Category G - STUDENT ACCOMMODATION
 MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:

1 GREATER LONDON
 CN CAMDEN 1 days
 KI KINGSTON 2 days
 LB LAMBETH 1 days

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

Primary Filtering selection:

Parameter: Number of residents
 Actual Range: 200 to 1100 (units:)
 Range Selected by User: 100 to 1100 (units:)

Public Transport Provision:
 Selection by: Include all surveys

Date Range: 01/01/16 to 25/06/21

Selected survey days:

Tuesday 2 days
 Wednesday 2 days

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

Selected survey types:

Manual count 4 days
 Directional ATC Count 0 days

Selected Locations:

Town Centre 1
 Edge of Town Centre 3
 Suburban Area (PPS6 Out of Centre) 0
 Edge of Town 0
 Neighbourhood Centre (PPS6 Local Centre) 0
 Free Standing (PPS6 Out of Town) 0
 Not Known 0

Selected Location Sub Categories:

Industrial Zone 0
 Commercial Zone 0
 Development Zone 0
 Residential Zone 1
 Retail Zone 0
 Built-Up Zone 3
 Village 0
 Out of Town 0
 High Street 0
 No Sub Category 0

Secondary Filtering selection:

Use Class:
 C3 4 days

Population within 500m Range:

All Surveys Included

Population within 1 mile:

25,001 to 50,000 3 days
 50,001 to 100,000 1 days

Population within 5 miles:

250,001 to 500,000 2 days
 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	1 days
0.6 to 1.0	3 days

Travel Plan:	
No	4 days

PTAL Rating:	
4 Good	1 days
6a Excellent	2 days
6b (High) Excellent	1 days
This data displays the number of selected surveys with PTAL Ratings.	

LIST OF SITES relevant to selection parameters	
1	CN-03-G-0' STUDENT F CAMDEN SAINT PANCRAS WAY KING'S CROSS Edge of Town Centre Built-Up Zone Total Number of residei 571 Survey date TUESDAY 14/11/2017 Survey Type: MANUAL
2	KI-03-G-01 STUDENT F KINGSTON PENRHYN ROAD KINGSTON UPON THAMES Edge of Town Centre Built-Up Zone Total Number of residei 200 Survey date WEDNESD/ 12/06/2019 Survey Type: MANUAL
3	KI-03-G-02 STUDENT F KINGSTON CAMBRIDGE ROAD NORBITON KINGSTON UPON THAMES Edge of Town Centre Residential Zone Total Number of residei 300 Survey date WEDNESD/ 26/06/2019 Survey Type: MANUAL
4	LB-03-G-02 STUDENT F LAMBETH WESTMINSTER BRIDGE RD LAMBETH Town Centre Built-Up Zone Total Number of residei 1100 Survey date TUESDAY 27/11/2018 Survey Type: MANUAL

Manually Deselected Sites	
Site Ref	Reason for Deselection
HM-03-G-02	covid

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION
 Calculation Factor: 1 RESIDE
 Count Type: TOTAL VEHICLES

Time Range	ARRIVALS				DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		3	624	0.001	3	624	0.001	3	624	0.002
08:00-09:00		3	624	0.001	3	624	0.002	3	624	0.003
09:00-10:00		3	624	0.001	3	624	0.001	3	624	0.002
10:00-11:00		3	624	0.003	3	624	0.003	3	624	0.006
11:00-12:00		3	624	0.004	3	624	0.005	3	624	0.009
12:00-13:00		3	624	0.003	3	624	0.003	3	624	0.006
13:00-14:00		3	624	0.005	3	624	0.004	3	624	0.009
14:00-15:00		3	624	0.004	3	624	0.005	3	624	0.009

15:00-16:00	3	624	0.005	3	624	0.005	3	624	0.01
16:00-17:00	3	624	0.003	3	624	0.003	3	624	0.006
17:00-18:00	3	624	0.002	3	624	0.002	3	624	0.004
18:00-19:00	3	624	0.003	3	624	0.003	3	624	0.006
19:00-20:00	3	624	0.003	3	624	0.003	3	624	0.006
20:00-21:00	3	624	0.005	3	624	0.005	3	624	0.01
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.043			0.045			0.088

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: TAXIS

Time Range	ARRIVALS			DEPARTURES			TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE 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	3	624	0	3	624	0	3	624 0
08:00-09:00	3	624	0	3	624	0	3	624 0
09:00-10:00	3	624	0	3	624	0	3	624 0
10:00-11:00	3	624	0.001	3	624	0.001	3	624 0.002
11:00-12:00	3	624	0.002	3	624	0.002	3	624 0.004
12:00-13:00	3	624	0.002	3	624	0.002	3	624 0.004
13:00-14:00	3	624	0.002	3	624	0.002	3	624 0.004
14:00-15:00	3	624	0.001	3	624	0.001	3	624 0.002
15:00-16:00	3	624	0.002	3	624	0.002	3	624 0.004
16:00-17:00	3	624	0.001	3	624	0.001	3	624 0.002
17:00-18:00	3	624	0.002	3	624	0.002	3	624 0.004
18:00-19:00	3	624	0.003	3	624	0.003	3	624 0.006
19:00-20:00	3	624	0.002	3	624	0.002	3	624 0.004
20:00-21:00	3	624	0.004	3	624	0.004	3	624 0.008
21:00-22:00								
22:00-23:00								
23:00-24:00								
Daily Trip Rates:			0.022			0.022		0.044

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: OGVS

Time Range	ARRIVALS			DEPARTURES			TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE 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	3	624	0.001	3	624	0.001	3	624 0.002
08:00-09:00	3	624	0	3	624	0	3	624 0
09:00-10:00	3	624	0	3	624	0	3	624 0
10:00-11:00	3	624	0	3	624	0	3	624 0
11:00-12:00	3	624	0	3	624	0	3	624 0
12:00-13:00	3	624	0	3	624	0	3	624 0
13:00-14:00	3	624	0	3	624	0	3	624 0
14:00-15:00	3	624	0	3	624	0	3	624 0
15:00-16:00	3	624	0	3	624	0	3	624 0
16:00-17:00	3	624	0	3	624	0	3	624 0
17:00-18:00	3	624	0	3	624	0	3	624 0
18:00-19:00	3	624	0	3	624	0	3	624 0
19:00-20:00	3	624	0	3	624	0	3	624 0
20:00-21:00	3	624	0	3	624	0	3	624 0
21:00-22:00								
22:00-23:00								
23:00-24:00								
Daily Trip Rates:			0.001			0.001		0.002

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: CYCLISTS

ARRIVALS

DEPARTURES

TOTALS

	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	RESIDE	Rate	Days	RESIDE	Rate	Days	RESIDE	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	4	543	0	4	543	0	4	543	0
08:00-09:00	4	543	0.001	4	543	0.002	4	543	0.003
09:00-10:00	4	543	0.001	4	543	0.004	4	543	0.005
10:00-11:00	4	543	0	4	543	0.002	4	543	0.002
11:00-12:00	4	543	0.001	4	543	0.004	4	543	0.005
12:00-13:00	4	543	0.001	4	543	0.001	4	543	0.002
13:00-14:00	4	543	0.002	4	543	0	4	543	0.002
14:00-15:00	4	543	0.002	4	543	0.001	4	543	0.003
15:00-16:00	4	543	0.003	4	543	0.001	4	543	0.004
16:00-17:00	4	543	0.002	4	543	0	4	543	0.002
17:00-18:00	4	543	0.002	4	543	0	4	543	0.002
18:00-19:00	4	543	0.004	4	543	0.002	4	543	0.006
19:00-20:00	4	543	0.001	4	543	0	4	543	0.001
20:00-21:00	4	543	0.001	4	543	0.001	4	543	0.002
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.021			0.018			0.039

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: VEHICLE OCCUPANTS

Time Range	No. Days	Ave. RESIDE	ARRIVALS		No. Days	Ave. RESIDE	Trip Rate	DEPARTURES		No. Days	Ave. RESIDE	TOTALS	
			Trip Rate					Trip 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		3	624	0.001	3	624	0.001	3	624	0.001	3	624	0.002
08:00-09:00		3	624	0.001	3	624	0.002	3	624	0.002	3	624	0.003
09:00-10:00		3	624	0.001	3	624	0.001	3	624	0.001	3	624	0.002
10:00-11:00		3	624	0.002	3	624	0.003	3	624	0.003	3	624	0.005
11:00-12:00		3	624	0.004	3	624	0.006	3	624	0.006	3	624	0.01
12:00-13:00		3	624	0.003	3	624	0.001	3	624	0.001	3	624	0.004
13:00-14:00		3	624	0.004	3	624	0.004	3	624	0.004	3	624	0.008
14:00-15:00		3	624	0.004	3	624	0.006	3	624	0.006	3	624	0.01
15:00-16:00		3	624	0.006	3	624	0.004	3	624	0.004	3	624	0.01
16:00-17:00		3	624	0.002	3	624	0.002	3	624	0.002	3	624	0.004
17:00-18:00		3	624	0.002	3	624	0.001	3	624	0.001	3	624	0.003
18:00-19:00		3	624	0.003	3	624	0.001	3	624	0.001	3	624	0.004
19:00-20:00		3	624	0.003	3	624	0.001	3	624	0.001	3	624	0.004
20:00-21:00		3	624	0.005	3	624	0.002	3	624	0.002	3	624	0.007
21:00-22:00													
22:00-23:00													
23:00-24:00													
Daily Trip Rates:			0.041				0.035					0.076	

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: PEDESTRIANS

Time Range	No. Days	Ave. RESIDE	ARRIVALS		No. Days	Ave. RESIDE	Trip Rate	DEPARTURES		No. Days	Ave. RESIDE	TOTALS	
			Trip Rate					Trip 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		4	543	0.005	4	543	0.012	4	543	0.012	4	543	0.017
08:00-09:00		4	543	0.005	4	543	0.042	4	543	0.042	4	543	0.047
09:00-10:00		4	543	0.006	4	543	0.033	4	543	0.033	4	543	0.039
10:00-11:00		4	543	0.01	4	543	0.035	4	543	0.035	4	543	0.045
11:00-12:00		4	543	0.014	4	543	0.027	4	543	0.027	4	543	0.041
12:00-13:00		4	543	0.02	4	543	0.029	4	543	0.029	4	543	0.049
13:00-14:00		4	543	0.023	4	543	0.036	4	543	0.036	4	543	0.059

14:00-15:00	4	543	0.019	4	543	0.028	4	543	0.047
15:00-16:00	4	543	0.033	4	543	0.021	4	543	0.054
16:00-17:00	4	543	0.031	4	543	0.019	4	543	0.05
17:00-18:00	4	543	0.035	4	543	0.023	4	543	0.058
18:00-19:00	4	543	0.034	4	543	0.018	4	543	0.052
19:00-20:00	4	543	0.024	4	543	0.012	4	543	0.036
20:00-21:00	4	543	0.028	4	543	0.009	4	543	0.037
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.287			0.344			0.631

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: BUS/TRAM PASSENGERS

	ARRIVALS				DEPARTURES				TOTALS
Time Range	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	4	543	0.001	4	543	0.008	4	543	0.009
08:00-09:00	4	543	0.003	4	543	0.023	4	543	0.026
09:00-10:00	4	543	0.004	4	543	0.024	4	543	0.028
10:00-11:00	4	543	0.006	4	543	0.023	4	543	0.029
11:00-12:00	4	543	0.01	4	543	0.015	4	543	0.025
12:00-13:00	4	543	0.006	4	543	0.018	4	543	0.024
13:00-14:00	4	543	0.01	4	543	0.012	4	543	0.022
14:00-15:00	4	543	0.007	4	543	0.012	4	543	0.019
15:00-16:00	4	543	0.013	4	543	0.007	4	543	0.02
16:00-17:00	4	543	0.013	4	543	0.006	4	543	0.019
17:00-18:00	4	543	0.023	4	543	0.007	4	543	0.03
18:00-19:00	4	543	0.017	4	543	0.007	4	543	0.024
19:00-20:00	4	543	0.015	4	543	0.005	4	543	0.02
20:00-21:00	4	543	0.018	4	543	0.001	4	543	0.019
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.146			0.168			0.314

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: TOTAL RAIL PASSENGERS

Time Range	ARRIVALS				DEPARTURES			TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	4	543	0.004	4	543	0.008	4	543	0.012
08:00-09:00	4	543	0.001	4	543	0.016	4	543	0.017
09:00-10:00	4	543	0.006	4	543	0.013	4	543	0.019
10:00-11:00	4	543	0.009	4	543	0.016	4	543	0.025
11:00-12:00	4	543	0.007	4	543	0.008	4	543	0.015
12:00-13:00	4	543	0.01	4	543	0.007	4	543	0.017
13:00-14:00	4	543	0.009	4	543	0.011	4	543	0.02
14:00-15:00	4	543	0.008	4	543	0.01	4	543	0.018
15:00-16:00	4	543	0.006	4	543	0.007	4	543	0.013
16:00-17:00	4	543	0.014	4	543	0.006	4	543	0.02
17:00-18:00	4	543	0.012	4	543	0.008	4	543	0.02
18:00-19:00	4	543	0.013	4	543	0.006	4	543	0.019
19:00-20:00	4	543	0.008	4	543	0.003	4	543	0.011
20:00-21:00	4	543	0.016	4	543	0.005	4	543	0.021
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.123			0.124			0.247

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: PUBLIC TRANSPORT USERS

Time Range	ARRIVALS				DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	4	543	0.005		4	543	0.016	4	543	0.021
08:00-09:00	4	543	0.004		4	543	0.039	4	543	0.043
09:00-10:00	4	543	0.009		4	543	0.038	4	543	0.047
10:00-11:00	4	543	0.015		4	543	0.039	4	543	0.054
11:00-12:00	4	543	0.017		4	543	0.023	4	543	0.04
12:00-13:00	4	543	0.016		4	543	0.025	4	543	0.041
13:00-14:00	4	543	0.019		4	543	0.023	4	543	0.042
14:00-15:00	4	543	0.015		4	543	0.023	4	543	0.038
15:00-16:00	4	543	0.019		4	543	0.015	4	543	0.034
16:00-17:00	4	543	0.027		4	543	0.012	4	543	0.039
17:00-18:00	4	543	0.034		4	543	0.015	4	543	0.049
18:00-19:00	4	543	0.03		4	543	0.013	4	543	0.043
19:00-20:00	4	543	0.023		4	543	0.007	4	543	0.03
20:00-21:00	4	543	0.034		4	543	0.006	4	543	0.04
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.267				0.294			0.561

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: TOTAL PEOPLE

Time Range	ARRIVALS				DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		4	543	0.011	4	543	0.029	4	543	0.04
08:00-09:00		4	543	0.011	4	543	0.084	4	543	0.095
09:00-10:00		4	543	0.017	4	543	0.075	4	543	0.092
10:00-11:00		4	543	0.027	4	543	0.079	4	543	0.106
11:00-12:00		4	543	0.036	4	543	0.059	4	543	0.095
12:00-13:00		4	543	0.039	4	543	0.056	4	543	0.095
13:00-14:00		4	543	0.048	4	543	0.063	4	543	0.111
14:00-15:00		4	543	0.039	4	543	0.057	4	543	0.096
15:00-16:00		4	543	0.06	4	543	0.041	4	543	0.101
16:00-17:00		4	543	0.062	4	543	0.033	4	543	0.095
17:00-18:00		4	543	0.073	4	543	0.039	4	543	0.112
18:00-19:00		4	543	0.07	4	543	0.034	4	543	0.104
19:00-20:00		4	543	0.052	4	543	0.02	4	543	0.072
20:00-21:00		4	543	0.068	4	543	0.018	4	543	0.086
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.613			0.687				1.3

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: CARS

Time Range	ARRIVALS				DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		3	624	0	3	624	0	3	624	0
08:00-09:00		3	624	0.001	3	624	0.001	3	624	0.002
09:00-10:00		3	624	0.001	3	624	0.001	3	624	0.002
10:00-11:00		3	624	0.001	3	624	0.001	3	624	0.002
11:00-12:00		3	624	0.001	3	624	0.001	3	624	0.002
12:00-13:00		3	624	0	3	624	0	3	624	

13:00-14:00	3	624	0.001	3	624	0	3	624	0.001
14:00-15:00	3	624	0.001	3	624	0.001	3	624	0.002
15:00-16:00	3	624	0.001	3	624	0.001	3	624	0.002
16:00-17:00	3	624	0.001	3	624	0.001	3	624	0.002
17:00-18:00	3	624	0	3	624	0	3	624	0
18:00-19:00	3	624	0.001	3	624	0.001	3	624	0.002
19:00-20:00	3	624	0	3	624	0	3	624	0
20:00-21:00	3	624	0	3	624	0	3	624	0
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.009			0.008			0.017

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: LGVS

Time Range	ARRIVALS				DEPARTURES				TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		3	624	0.001	3	624	0.001	3	624	0.002
08:00-09:00		3	624	0.001	3	624	0.001	3	624	0.002
09:00-10:00		3	624	0	3	624	0	3	624	0
10:00-11:00		3	624	0.002	3	624	0.001	3	624	0.003
11:00-12:00		3	624	0.002	3	624	0.002	3	624	0.004
12:00-13:00		3	624	0.001	3	624	0.001	3	624	0.002
13:00-14:00		3	624	0.002	3	624	0.001	3	624	0.003
14:00-15:00		3	624	0.002	3	624	0.003	3	624	0.005
15:00-16:00		3	624	0.002	3	624	0.002	3	624	0.004
16:00-17:00		3	624	0.001	3	624	0.001	3	624	0.002
17:00-18:00		3	624	0.001	3	624	0.001	3	624	0.002
18:00-19:00		3	624	0	3	624	0	3	624	0
19:00-20:00		3	624	0.001	3	624	0.001	3	624	0.002
20:00-21:00		3	624	0.001	3	624	0.001	3	624	0.002
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.017			0.016				0.033

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: MOTOR CYCLES

Time Range	ARRIVALS				DEPARTURES				TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		3	624	0	3	624	0	3	624	0
08:00-09:00		3	624	0	3	624	0	3	624	0
09:00-10:00		3	624	0	3	624	0	3	624	0
10:00-11:00		3	624	0	3	624	0	3	624	0
11:00-12:00		3	624	0	3	624	0	3	624	0
12:00-13:00		3	624	0	3	624	0	3	624	0
13:00-14:00		3	624	0.001	3	624	0.001	3	624	0.002
14:00-15:00		3	624	0.001	3	624	0.001	3	624	0.002
15:00-16:00		3	624	0	3	624	0	3	624	0
16:00-17:00		3	624	0	3	624	0	3	624	0
17:00-18:00		3	624	0	3	624	0	3	624	0
18:00-19:00		3	624	0	3	624	0	3	624	0
19:00-20:00		3	624	0	3	624	0	3	624	0
20:00-21:00		3	624	0	3	624	0	3	624	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.002			0.002				0.004

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: UNDERGROUND PASSENGERS

	ARRIVALS				DEPARTURES				TOTALS	
Time Range	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	4	543	0.001		4	543	0.005	4	543	0.006
08:00-09:00	4	543	0.001		4	543	0.012	4	543	0.013
09:00-10:00	4	543	0.003		4	543	0.011	4	543	0.014
10:00-11:00	4	543	0.006		4	543	0.011	4	543	0.017
11:00-12:00	4	543	0.006		4	543	0.006	4	543	0.012
12:00-13:00	4	543	0.006		4	543	0.006	4	543	0.012
13:00-14:00	4	543	0.006		4	543	0.008	4	543	0.014
14:00-15:00	4	543	0.006		4	543	0.007	4	543	0.013
15:00-16:00	4	543	0.005		4	543	0.005	4	543	0.01
16:00-17:00	4	543	0.012		4	543	0.002	4	543	0.014
17:00-18:00	4	543	0.01		4	543	0.007	4	543	0.017
18:00-19:00	4	543	0.012		4	543	0.005	4	543	0.017
19:00-20:00	4	543	0.006		4	543	0.002	4	543	0.008
20:00-21:00	4	543	0.012		4	543	0.002	4	543	0.014
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.092				0.089			0.181

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: OVERGROUND PASSENGERS

Time Range	ARRIVALS				DEPARTURES				TOTALS	
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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		3	624	0	3	624	0	3	624	0
08:00-09:00		3	624	0	3	624	0	3	624	0
09:00-10:00		3	624	0	3	624	0	3	624	0
10:00-11:00		3	624	0	3	624	0	3	624	0
11:00-12:00		3	624	0	3	624	0	3	624	0
12:00-13:00		3	624	0	3	624	0	3	624	0
13:00-14:00		3	624	0.001	3	624	0.001	3	624	0.002
14:00-15:00		3	624	0.002	3	624	0.001	3	624	0.003
15:00-16:00		3	624	0	3	624	0	3	624	0
16:00-17:00		3	624	0	3	624	0	3	624	0
17:00-18:00		3	624	0	3	624	0	3	624	0
18:00-19:00		3	624	0	3	624	0	3	624	0
19:00-20:00		3	624	0	3	624	0.001	3	624	0.001
20:00-21:00		3	624	0	3	624	0	3	624	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.003				0.003			0.006

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: NATIONAL RAIL PASSENGERS

Time Range	ARRIVALS				DEPARTURES				TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip		
	Days	RESIDE	Rate	Days	RESIDE	Rate	Days	RESIDE	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		4	543	0.003		4	543	0.003	4	543	0.006
08:00-09:00		4	543	0		4	543	0.004	4	543	0.004
09:00-10:00		4	543	0.003		4	543	0.002	4	543	0.005
10:00-11:00		4	543	0.003		4	543	0.005	4	543	0.008
11:00-12:00		4	543	0.002		4	543	0.002	4	543	0.004

12:00-13:00	4	543	0.003	4	543	0.001	4	543	0.004
13:00-14:00	4	543	0.002	4	543	0.002	4	543	0.004
14:00-15:00	4	543	0.001	4	543	0.002	4	543	0.003
15:00-16:00	4	543	0.001	4	543	0.002	4	543	0.003
16:00-17:00	4	543	0.002	4	543	0.004	4	543	0.006
17:00-18:00	4	543	0.001	4	543	0	4	543	0.001
18:00-19:00	4	543	0	4	543	0.001	4	543	0.001
19:00-20:00	4	543	0.002	4	543	0	4	543	0.002
20:00-21:00	4	543	0.004	4	543	0.002	4	543	0.006
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.027			0.03			0.057

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: BUS PASSENGERS

Time Range	ARRIVALS				DEPARTURES				TOTALS
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
	Days	RESIDE	Rate	Days	RESIDE	Rate	Days	RESIDE	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	4	543	0.001	4	543	0.008	4	543	0.009
08:00-09:00	4	543	0.003	4	543	0.023	4	543	0.026
09:00-10:00	4	543	0.004	4	543	0.024	4	543	0.028
10:00-11:00	4	543	0.006	4	543	0.023	4	543	0.029
11:00-12:00	4	543	0.01	4	543	0.015	4	543	0.025
12:00-13:00	4	543	0.006	4	543	0.018	4	543	0.024
13:00-14:00	4	543	0.01	4	543	0.012	4	543	0.022
14:00-15:00	4	543	0.007	4	543	0.012	4	543	0.019
15:00-16:00	4	543	0.013	4	543	0.007	4	543	0.02
16:00-17:00	4	543	0.013	4	543	0.006	4	543	0.019
17:00-18:00	4	543	0.023	4	543	0.007	4	543	0.03
18:00-19:00	4	543	0.017	4	543	0.007	4	543	0.024
19:00-20:00	4	543	0.015	4	543	0.005	4	543	0.02
20:00-21:00	4	543	0.018	4	543	0.001	4	543	0.019
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.146			0.168			0.314

TRIP RATE for Land Use 03 - RESIDENTIAL/G - STUDENT ACCOMMODATION

Calculation Factor: 1 RESIDE

Count Type: SERVICING VEHICLES

Time Range	ARRIVALS				DEPARTURES				TOTALS
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	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	3	624	0.001	3	624	0.001	3	624	0.002
08:00-09:00	3	624	0.001	3	624	0.001	3	624	0.002
09:00-10:00	3	624	0	3	624	0	3	624	0
10:00-11:00	3	624	0.002	3	624	0.001	3	624	0.003
11:00-12:00	3	624	0.002	3	624	0.002	3	624	0.004
12:00-13:00	3	624	0.001	3	624	0.001	3	624	0.002
13:00-14:00	3	624	0.002	3	624	0.001	3	624	0.003
14:00-15:00	3	624	0.002	3	624	0.003	3	624	0.005
15:00-16:00	3	624	0.002	3	624	0.002	3	624	0.004
16:00-17:00	3	624	0.002	3	624	0.002	3	624	0.004
17:00-18:00	3	624	0.001	3	624	0.001	3	624	0.002
18:00-19:00	3	624	0	3	624	0	3	624	0
19:00-20:00	3	624	0.001	3	624	0.001	3	624	0.002
20:00-21:00	3	624	0.001	3	624	0.001	3	624	0.002
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.018			0.017			0.035

Parameter summary

Trip rate parameter range selected:	200 - 1100 (units:)
Survey date date range:	01/01/16 - 25/06/21
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	1
Surveys manually removed from selection:	1

This section displays a quick summary of some of the data filtering selections made by the TRICS® user.

The trip rate calculation parameter range of all selected surveys is displayed first followed by the range of minimum and maximum survey dates selected by the user.

Then the total number of selected weekdays and weekend days in the selected set of surveys are show.

Finally the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix K: TRICS Data - Residential

TRICS 7.11.4

Trip Rate Parameter: No of Dwellings

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 03 - RESIDENTIAL
 Category C - FLATS PRIVATELY OWNED
 MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:

1 GREATER LONDON
 IS ISLINGTON 2 days
 WF WALTHAM FOREST 1 days

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

Primary Filtering selection:

Parameter: No of Dwellings
 Actual Range: 14 to 97 (units:)
 Range Selected by User: 6 to 150 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/16 to 05/09/24

Selected survey days:

Monday 1 days
 Tuesday 1 days
 Wednesday 1 days

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

Selected survey types:

Manual count 3 days
 Directional ATC Count 0 days

Selected Locations:

Town Centre 0
 Edge of Town Centre 3
 Suburban Area (PPS6 Out c 0
 Edge of Town 0
 Neighbourhood Centre (PP 0
 Free Standing (PPS6 Out of 0
 Not Known 0

Selected Location Sub Categories:

Industrial Zone 0
 Commercial Zone 0
 Development Zone 0
 Residential Zone 2
 Retail Zone 0
 Built-Up Zone 1
 Village 0
 Out of Town 0
 High Street 0
 No Sub Category 0

Secondary Filtering selection:

Use Class:

C3 3 days

This data displays the number of surveys per Use Class classification within the selected set.

The Use Classes Order (England) 2020 has been used for this purpose which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

50,001 to 100,000 2 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 3 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
 0.6 to 1.0 1 days

Travel Plan:

No 3 days

Residential Trip Generation

PTAL Rating:
5 Very Good 1 days
6a Excellent 2 days

LIST OF SITES relevant to selection parameters

1 IS-03-C-05	BLOCK OF FLATS	ISLINGTON			
LEVER STREET					
FINSBURY					
Edge of Town Centre					
Built-Up Zone					
Total No of Dwellings:			15		
Survey date:	WEDNESDAY		29/06/2016	Survey Type:	MANUAL
2 IS-03-C-06	BLOCK OF FLATS	ISLINGTON			
CALEDONIAN ROAD					
HOLLOWAY					
Edge of Town Centre					
Residential Zone					
Total No of Dwellings:			14		
Survey date:	MONDAY		27/06/2016	Survey Type:	MANUAL
3 WF-03-C-01	BLOCKS OF FLATS	WALTHAM FOREST			
ERSKINE ROAD					
WALTHAMSTOW					
Edge of Town Centre					
Residential Zone					
Total No of Dwellings:			97		
Survey date:	TUESDAY		05/11/2019	Survey Type:	MANUAL

Manually Deselected Sites

Site Ref	Reason for Deselection
BE-03-C-01	low ptal
BM-03-C-02	low ptal
BM-03-C-03	low ptal
BN-03-C-01	low ptal
BN-03-C-03	low ptal
BT-03-C-03	low ptal
EN-03-C-03	low ptal
HO-03-C-03	low ptal
HO-03-C-05	low ptal
KI-03-C-03	low ptal
TH-03-C-04	low ptal
WF-03-C-02	low ptal
WF-03-C-03	low ptal
WF-03-C-04	low ptal
WF-03-C-05	low ptal
WF-03-C-06	low ptal

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

Calculation Factor: 1 DWELLS

Count Type: TOTAL VEHICLES

Time Range	No. Days	Ave. DWELLS	ARRIVALS		Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate	No. Days		Trip Rate	No. Days		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		3	42	0.016	3	42	0.016	3	42	0.032
08:00-09:00		3	42	0.008	3	42	0.04	3	42	0.048
09:00-10:00		3	42	0.016	3	42	0	3	42	0.016
10:00-11:00		3	42	0.04	3	42	0.024	3	42	0.064
11:00-12:00		3	42	0.04	3	42	0.048	3	42	0.088
12:00-13:00		3	42	0.016	3	42	0.016	3	42	0.032
13:00-14:00		3	42	0.032	3	42	0.016	3	42	0.048
14:00-15:00		3	42	0.016	3	42	0.04	3	42	0.056
15:00-16:00		3	42	0.024	3	42	0.024	3	42	0.048
16:00-17:00		3	42	0.048	3	42	0.048	3	42	0.096
17:00-18:00		3	42	0.024	3	42	0.024	3	42	0.048
18:00-19:00		3	42	0.024	3	42	0.048	3	42	0.072
19:00-20:00		3	42	0.048	3	42	0.024	3	42	0.072
20:00-21:00		3	42	0.024	3	42	0.032	3	42	0.056
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				0.376			0.4			0.776

Residential Trip Generation

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

Calculation Factor: 1 DWELLS

Count Type: OGVS

Time Range	No. Days	Ave. DWELLS	ARRIVALS		No. Days	Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		3	42		0	3	42	0	3	42	0
08:00-09:00		3	42		0	3	42	0	3	42	0
09:00-10:00		3	42		0	3	42	0	3	42	0
10:00-11:00		3	42		0.008	3	42	0	3	42	0.008
11:00-12:00		3	42		0.016	3	42	0.024	3	42	0.04
12:00-13:00		3	42		0.008	3	42	0	3	42	0.008
13:00-14:00		3	42		0	3	42	0.008	3	42	0.008
14:00-15:00		3	42		0.016	3	42	0.016	3	42	0.032
15:00-16:00		3	42		0	3	42	0	3	42	0
16:00-17:00		3	42		0	3	42	0	3	42	0
17:00-18:00		3	42		0	3	42	0	3	42	0
18:00-19:00		3	42		0	3	42	0	3	42	0
19:00-20:00		3	42		0	3	42	0	3	42	0
20:00-21:00		3	42		0	3	42	0	3	42	0
21:00-22:00											
22:00-23:00											
23:00-24:00											
Daily Trip Rates:					0.048			0.048			0.096

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

Calculation Factor: 1 DWELLS

Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. DWELLS	ARRIVALS		No. Days	Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		3	42		0.04	3	42	0.214	3	42	0.254
08:00-09:00		3	42		0.063	3	42	0.659	3	42	0.722
09:00-10:00		3	42		0.111	3	42	0.381	3	42	0.492
10:00-11:00		3	42		0.19	3	42	0.222	3	42	0.412
11:00-12:00		3	42		0.19	3	42	0.214	3	42	0.404
12:00-13:00		3	42		0.119	3	42	0.087	3	42	0.206
13:00-14:00		3	42		0.135	3	42	0.159	3	42	0.294
14:00-15:00		3	42		0.135	3	42	0.143	3	42	0.278
15:00-16:00		3	42		0.437	3	42	0.19	3	42	0.627
16:00-17:00		3	42		0.405	3	42	0.286	3	42	0.691
17:00-18:00		3	42		0.437	3	42	0.278	3	42	0.715
18:00-19:00		3	42		0.556	3	42	0.381	3	42	0.937
19:00-20:00		3	42		0.468	3	42	0.167	3	42	0.635
20:00-21:00		3	42		0.214	3	42	0.103	3	42	0.317
21:00-22:00											
22:00-23:00											
23:00-24:00											
Daily Trip Rates:					3.5			3.484			6.984

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

Calculation Factor: 1 DWELLS

Count Type: CARS

Time Range	No. Days	Ave. DWELLS	ARRIVALS		No. Days	Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		3	42		0.008	3	42	0.008	3	42	0.016
08:00-09:00		3	42		0	3	42	0.04	3	42	0.04
09:00-10:00		3	42		0	3	42	0	3	42	0
10:00-11:00		3	42		0.008	3	42	0.008	3	42	0.016
11:00-12:00		3	42		0.016	3	42	0.016	3	42	0.032
12:00-13:00		3	42		0.008	3	42	0	3	42	0.008
13:00-14:00		3	42		0.024	3	42	0	3	42	0.024

Residential Trip Generation

14:00-15:00	3	42	0	3	42	0.024	3	42	0.024
15:00-16:00	3	42	0.024	3	42	0.016	3	42	0.04
16:00-17:00	3	42	0.04	3	42	0.032	3	42	0.072
17:00-18:00	3	42	0.024	3	42	0.024	3	42	0.048
18:00-19:00	3	42	0.008	3	42	0.032	3	42	0.04
19:00-20:00	3	42	0.04	3	42	0.016	3	42	0.056
20:00-21:00	3	42	0.016	3	42	0.024	3	42	0.04
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.216			0.24			0.456

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED
Calculation Factor: 1 DWELLS
Count Type: LGVS

Time Range	No. Days	Ave. DWELLS	ARRIVALS	No. Days	Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate			Trip Rate	No. Days		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		3	42	0	3	42	0	3	42	0
08:00-09:00		3	42	0.008	3	42	0	3	42	0.008
09:00-10:00		3	42	0.016	3	42	0	3	42	0.016
10:00-11:00		3	42	0.016	3	42	0.008	3	42	0.024
11:00-12:00		3	42	0.008	3	42	0.008	3	42	0.016
12:00-13:00		3	42	0	3	42	0.016	3	42	0.016
13:00-14:00		3	42	0.008	3	42	0.008	3	42	0.016
14:00-15:00		3	42	0	3	42	0	3	42	0
15:00-16:00		3	42	0	3	42	0.008	3	42	0.008
16:00-17:00		3	42	0	3	42	0.008	3	42	0.008
17:00-18:00		3	42	0	3	42	0	3	42	0
18:00-19:00		3	42	0.008	3	42	0.008	3	42	0.016
19:00-20:00		3	42	0.008	3	42	0.008	3	42	0.016
20:00-21:00		3	42	0	3	42	0	3	42	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.072			0.072			0.144	

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED
Calculation Factor: 1 DWELLS
Count Type: SERVICING VEHICLES

Time Range	No. Days	Ave. DWELLS	ARRIVALS	No. Days	Ave. DWELLS	DEPARTURES		Ave. DWELLS	TOTALS	
			Trip Rate			Trip Rate	No. Days		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		3	42	0	3	42	0	3	42	0
08:00-09:00		3	42	0.008	3	42	0	3	42	0.008
09:00-10:00		3	42	0.016	3	42	0	3	42	0.016
10:00-11:00		3	42	0.016	3	42	0.008	3	42	0.024
11:00-12:00		3	42	0.024	3	42	0.032	3	42	0.056
12:00-13:00		3	42	0.016	3	42	0.016	3	42	0.032
13:00-14:00		3	42	0.008	3	42	0.016	3	42	0.024
14:00-15:00		3	42	0.016	3	42	0.008	3	42	0.024
15:00-16:00		3	42	0	3	42	0.008	3	42	0.008
16:00-17:00		3	42	0	3	42	0.008	3	42	0.008
17:00-18:00		3	42	0	3	42	0	3	42	0
18:00-19:00		3	42	0.008	3	42	0.008	3	42	0.016
19:00-20:00		3	42	0.008	3	42	0.008	3	42	0.016
20:00-21:00		3	42	0	3	42	0	3	42	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.12			0.112			0.232	

Parameter summary

Trip rate parameter range s 14 - 97 (units:)
Survey date date range: 01/01/16 - 05/09/24
Number of weekdays (Mon 3
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed: 2
Surveys manually removed 16

Appendix L: TRICS Data - Builder's Merchants

TRICS 7.11.4

Trip Rate Param Gross floor area

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 01 - RETAIL
 Category L - BUILDER'S MERCHANTS
 MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

2	SOUTH EAST		
	KC	KENT	1 days
6	WEST MIDLANDS		
	WM	EAST MIDLANDS	1 days
	WO	ROCHESTER	1 days

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

Primary Filtering selection:

Parameter: Gross floor area
 Actual Range: 5000 to 6275 (units: sqm)
 Range Selected: 5000 to 6275 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/08 to 19/10/11

Selected survey days:

Monday	2 days
Wednesday	1 days

Selected survey types:

Manual count	3 days
Directional ATC	0 days

Selected Locations:

Town Centre	0
Edge of Town Centre	0
Suburban Area (	1
Edge of Town	2
Neighbourhood	0
Free Standing (P	0
Not Known	0

Selected Location Sub Categories:

Industrial Zone	2
Commercial Zone	0
Development Zone	0
Residential Zone	1
Retail Zone	0
Built-Up Zone	0
Village	0
Out of Town	0
High Street	0
No Sub Category	0

Secondary Filtering selection:

Use Class:

E(a) 3 days

Population within 500m Range:

All Surveys Included

Population within 1 mile:

10,001 to 15,000	1 days
15,001 to 20,000	1 days
25,001 to 50,000	1 days

Population within 5 miles:

50,001 to 75,000	1 days
100,001 to 125,000	1 days
500,001 or More	1 days

Car ownership within 5 miles:

0.6 to 1.0	2 days
1.1 to 1.5	1 days

Petrol filling station:

Included in the survey	0 days
Excluded from the survey	3 days

Travel Plan:
No 3 days

PTAL Rating:
No PTAL Present 3 days

LIST OF SITES relevant to selection parameters

1	KC-01-L-01	AVIS PERKII	KENT									
	ENTERPRISE WAY											
	WESTWOOD											
	MARGATE											
	Edge of Town											
	Industrial Zone											
	Total Gross floor area:		6275			sqm						
	Survey date:	MONDAY	07/12/2009			Survey Type:	MANUAL					
2	WM-01-L-02	SELCO	VEST MIDLANDS									
	CHARLOTTE ROAD											
	STIRCHLEY											
	BIRMINGHAM											
	Suburban Area (PPS6 Out of Centre)											
	Residential Zone											
	Total Gross floor area:		5600			sqm						
	Survey date:	MEDNESDA'	19/10/2011			Survey Type:	MANUAL					
3	WO-01-L-02	JEWSON	ORCESTERSHIRE									
	NAVIGATION ROAD											
	WORCESTER											
	Edge of Town											
	Industrial Zone											
	Total Gross floor area:		5000			sqm						
	Survey date:	MONDAY	15/06/2009			Survey Type:	MANUAL					

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: TOTAL VEHICLES

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0.375	6	1	5600	0.036	1	1	5600	0.411	7
07:00-08:00	3	5625	0.35	6	3	5625	0.219	4	3	5625	0.569	9
08:00-09:00	3	5625	0.658	11	3	5625	0.539	9	3	5625	1.197	19
09:00-10:00	3	5625	0.735	12	3	5625	0.747	12	3	5625	1.482	24
10:00-11:00	3	5625	0.64	10	3	5625	0.604	10	3	5625	1.244	20
11:00-12:00	3	5625	0.681	11	3	5625	0.575	9	3	5625	1.256	20
12:00-13:00	3	5625	0.527	8	3	5625	0.604	10	3	5625	1.131	18
13:00-14:00	3	5625	0.527	8	3	5625	0.658	11	3	5625	1.185	19
14:00-15:00	3	5625	0.468	7	3	5625	0.468	7	3	5625	0.936	15
15:00-16:00	3	5625	0.439	7	3	5625	0.427	7	3	5625	0.866	14
16:00-17:00	3	5625	0.296	5	3	5625	0.421	7	3	5625	0.717	11
17:00-18:00	3	5625	0.148	2	3	5625	0.255	4	3	5625	0.403	6
18:00-19:00	2	5300	0.245	4	2	5300	0.255	4	2	5300	0.5	8
19:00-20:00	1	5600	0.214	3	1	5600	0.357	6	1	5600	0.571	9
20:00-21:00	1	5600	0	0	1	5600	0.036	1	1	5600	0.036	1
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			6.303				6.201				12.504	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: TAXIS

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
07:00-08:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
08:00-09:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
09:00-10:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
10:00-11:00	3	5625	0.006	0.095	3	5625	0.006	0.095	3	5625	0.012	0.19
11:00-12:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
12:00-13:00	3	5625	0	0	3	5625	0	0	3	5625	0	0

Builders Merchant Trip Generation

13:00-14:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
14:00-15:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
15:00-16:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
16:00-17:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
17:00-18:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
18:00-19:00	2	5300	0	0	2	5300	0	0	2	5300	0	0
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:		0.006				0.006				0.012		

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: OGVS

	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate
Time Range												
00:00-01:00												
01:00-02:00												
02:00-03:00												
03:00-04:00												
04:00-05:00												
05:00-06:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
07:00-08:00	3	5625	0.018	0.284	3	5625	0.03	0.474	3	5625	0.048	0.758
08:00-09:00	3	5625	0.053	0.853	3	5625	0.041	0.664	3	5625	0.094	1.517
09:00-10:00	3	5625	0.071	1.138	3	5625	0.059	0.948	3	5625	0.13	2.086
10:00-11:00	3	5625	0.065	1.043	3	5625	0.071	1.138	3	5625	0.136	2.181
11:00-12:00	3	5625	0.089	1.422	3	5625	0.047	0.759	3	5625	0.136	2.181
12:00-13:00	3	5625	0.047	0.759	3	5625	0.077	1.233	3	5625	0.124	1.992
13:00-14:00	3	5625	0.03	0.474	3	5625	0.036	0.569	3	5625	0.066	1.043
14:00-15:00	3	5625	0.024	0.379	3	5625	0.024	0.379	3	5625	0.048	0.758
15:00-16:00	3	5625	0.03	0.474	3	5625	0.024	0.379	3	5625	0.054	0.853
16:00-17:00	3	5625	0.041	0.664	3	5625	0.036	0.569	3	5625	0.077	1.233
17:00-18:00	3	5625	0.006	0.095	3	5625	0.024	0.379	3	5625	0.03	0.474
18:00-19:00	2	5300	0	0	2	5300	0.009	0.151	2	5300	0.009	0.151
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			0.474				0.478				0.952	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: PSVS

	ARRIVALS				DEPARTURES				TOTALS			
Time Range	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
07:00-08:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
08:00-09:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
09:00-10:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
10:00-11:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
11:00-12:00	3	5625	0.006	0.095	3	5625	0.006	0.095	3	5625	0.012	0.19
12:00-13:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
13:00-14:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
14:00-15:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
15:00-16:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
16:00-17:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
17:00-18:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
18:00-19:00	2	5300	0	0	2	5300	0	0	2	5300	0	0
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			0.006				0.006				0.012	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: CYCLISTS

Builders Merchant Trip Generation

04:00-05:00												
05:00-06:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
07:00-08:00	3	5625	0.006	0.095	3	5625	0.006	0.095	3	5625	0.012	0.19
08:00-09:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
09:00-10:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
10:00-11:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
11:00-12:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
12:00-13:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
13:00-14:00	3	5625	0.012	0.19	3	5625	0.006	0.095	3	5625	0.018	0.285
14:00-15:00	3	5625	0	0	3	5625	0.006	0.095	3	5625	0.006	0.095
15:00-16:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
16:00-17:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
17:00-18:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
18:00-19:00	2	5300	0	0	2	5300	0	0	2	5300	0	0
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			0.018				0.018				0.036	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: VEHICLE OCCUPANTS

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0.446	7.143	1	5600	0.036	0.571	1	5600	0.482	7.714
07:00-08:00	3	5625	0.474	7.585	3	5625	0.279	4.456	3	5625	0.753	12.041
08:00-09:00	3	5625	0.859	13.748	3	5625	0.658	10.524	3	5625	1.517	24.272
09:00-10:00	3	5625	0.913	14.601	3	5625	0.924	14.791	3	5625	1.837	29.392
10:00-11:00	3	5625	0.764	12.231	3	5625	0.723	11.567	3	5625	1.487	23.798
11:00-12:00	3	5625	0.764	12.231	3	5625	0.664	10.619	3	5625	1.428	22.85
12:00-13:00	3	5625	0.628	10.05	3	5625	0.729	11.662	3	5625	1.357	21.712
13:00-14:00	3	5625	0.646	10.335	3	5625	0.776	12.421	3	5625	1.422	22.756
14:00-15:00	3	5625	0.545	8.723	3	5625	0.557	8.913	3	5625	1.102	17.636
15:00-16:00	3	5625	0.527	8.439	3	5625	0.533	8.533	3	5625	1.06	16.972
16:00-17:00	3	5625	0.356	5.689	3	5625	0.521	8.344	3	5625	0.877	14.033
17:00-18:00	3	5625	0.172	2.75	3	5625	0.284	4.551	3	5625	0.456	7.301
18:00-19:00	2	5300	0.292	4.679	2	5300	0.349	5.585	2	5300	0.641	10.264
19:00-20:00	1	5600	0.214	3.429	1	5600	0.482	7.714	1	5600	0.696	11.143
20:00-21:00	1	5600	0	0	1	5600	0.054	0.857	1	5600	0.054	0.857
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			7.6				7.569				15.169	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column
Count Type: PEDESTRIANS

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0.018	0.286	1	5600	0	0	1	5600	0.018	0.286
07:00-08:00	3	5625	0.024	0.379	3	5625	0	0	3	5625	0.024	0.379
08:00-09:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
09:00-10:00	3	5625	0.018	0.284	3	5625	0.012	0.19	3	5625	0.03	0.474
10:00-11:00	3	5625	0.012	0.19	3	5625	0.006	0.095	3	5625	0.018	0.285
11:00-12:00	3	5625	0.018	0.284	3	5625	0.012	0.19	3	5625	0.03	0.474
12:00-13:00	3	5625	0.024	0.379	3	5625	0.018	0.284	3	5625	0.042	0.663
13:00-14:00	3	5625	0.006	0.095	3	5625	0.012	0.19	3	5625	0.018	0.285
14:00-15:00	3	5625	0.012	0.19	3	5625	0.018	0.284	3	5625	0.03	0.474
15:00-16:00	3	5625	0.018	0.284	3	5625	0.012	0.19	3	5625	0.03	0.474
16:00-17:00	3	5625	0	0	3	5625	0.024	0.379	3	5625	0.024	0.379
17:00-18:00	3	5625	0.006	0.095	3	5625	0.018	0.284	3	5625	0.024	0.379
18:00-19:00	2	5300	0	0	2	5300	0.009	0.151	2	5300	0.009	0.151
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0.018	0.286	1	5600	0.018	0.286
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			0.156				0.159				0.315	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS
Calculation Factor: 100 sqm
Estimated TRIP rate value per 1600 SQM shown in Estimated column

Builders Merchant Trip Generation

Count Type: PUBLIC TRANSPORT USERS

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
07:00-08:00	3	5625	0.012	0.19	3	5625	0	0	3	5625	0.012	0.19
08:00-09:00	3	5625	0.036	0.569	3	5625	0.006	0.095	3	5625	0.042	0.664
09:00-10:00	3	5625	0.012	0.19	3	5625	0.006	0.095	3	5625	0.018	0.285
10:00-11:00	3	5625	0	0	3	5625	0.006	0.095	3	5625	0.006	0.095
11:00-12:00	3	5625	0.006	0.095	3	5625	0.018	0.284	3	5625	0.024	0.379
12:00-13:00	3	5625	0.006	0.095	3	5625	0	0	3	5625	0.006	0.095
13:00-14:00	3	5625	0.006	0.095	3	5625	0.006	0.095	3	5625	0.012	0.19
14:00-15:00	3	5625	0.006	0.095	3	5625	0.006	0.095	3	5625	0.012	0.19
15:00-16:00	3	5625	0	0	3	5625	0	0	3	5625	0	0
16:00-17:00	3	5625	0	0	3	5625	0.012	0.19	3	5625	0.012	0.19
17:00-18:00	3	5625	0	0	3	5625	0.006	0.095	3	5625	0.006	0.095
18:00-19:00	2	5300	0	0	2	5300	0	0	2	5300	0	0
19:00-20:00	1	5600	0	0	1	5600	0	0	1	5600	0	0
20:00-21:00	1	5600	0	0	1	5600	0.054	0.857	1	5600	0.054	0.857
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			0.084				0.12				0.204	

TRIP RATE for Land Use 01 - RETAIL/L - BUILDER'S MERCHANTS

Calculation Factor: 100 sqm

Estimated TRIP rate value per 1600 SQM shown in Estimated column

Count Type: TOTAL PEOPLE

Time Range	ARRIVALS				DEPARTURES				TOTALS			
	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated Trip Rate	No. Days	Ave. GFA	Trip Rate	Estimated 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	1	5600	0	0	1	5600	0	0	1	5600	0	0
06:00-07:00	1	5600	0.464	7.429	1	5600	0.036	0.571	1	5600	0.5	8
07:00-08:00	3	5625	0.516	8.249	3	5625	0.284	4.551	3	5625	0.8	12.8
08:00-09:00	3	5625	0.895	14.317	3	5625	0.664	10.619	3	5625	1.559	24.936
09:00-10:00	3	5625	0.942	15.076	3	5625	0.942	15.076	3	5625	1.884	30.152
10:00-11:00	3	5625	0.776	12.421	3	5625	0.735	11.757	3	5625	1.511	24.178
11:00-12:00	3	5625	0.788	12.61	3	5625	0.693	11.093	3	5625	1.481	23.703
12:00-13:00	3	5625	0.658	10.524	3	5625	0.747	11.947	3	5625	1.405	22.471
13:00-14:00	3	5625	0.67	10.714	3	5625	0.8	12.8	3	5625	1.47	23.514
14:00-15:00	3	5625	0.563	9.007	3	5625	0.587	9.387	3	5625	1.15	18.394
15:00-16:00	3	5625	0.545	8.723	3	5625	0.545	8.723	3	5625	1.09	17.446
16:00-17:00	3	5625	0.356	5.689	3	5625	0.557	8.913	3	5625	0.913	14.602
17:00-18:00	3	5625	0.178	2.844	3	5625	0.308	4.93	3	5625	0.486	7.774
18:00-19:00	2	5300	0.292	4.679	2	5300	0.358	5.736	2	5300	0.65	10.415
19:00-20:00	1	5600	0.214	3.429	1	5600	0.482	7.714	1	5600	0.696	11.143
20:00-21:00	1	5600	0	0	1	5600	0.125	2	1	5600	0.125	2
21:00-22:00												
22:00-23:00												
23:00-24:00												
Daily Trip Rates:			7.857				7.863				15.72	

Appendix M: Jewsons Site Surveys



ATC SUMMARY REPORT

PROJECT	29633 Acton
LOCATION	29633-001 - Jewsons
LOC. DESC.	Jewsons
START DATE	Thu 09 Dec, 2021
END DATE	Tue 14 Dec, 2021
SPEED LIMIT	10mph
SURVEY TYPE	6-day ATC, 15min periods, 6 veh. classes

OVERVIEW

A 6-day automatic traffic count on Jewsons, commencing Thu 09 Dec 2021, recorded a total of 948 vehicles. The posted speed limit of 10mph was exceeded by 8.1% of vehicles, and the seasonally adjusted, combined AADT value is 172 (see Equipment & Methodology below).

COMBINED

Total recorded volume	948
Avg daily volume (based on 6 days)	135.4
Average daily speed (6 days)	7.5mph
Average daily 85%ile (6 days)	9.3mph
AADT (annual average daily traffic)	172

Avg weekday volume (Mon-Fri, 24hrs)	178.6
Avg weekday speed (Mon-Fri, 24hrs)	7.4mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	171.4
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	7.4mph

The combined summary on the left shows the total volumes, average speeds, AADT and 85%iles recorded in both directions from all the recorded data. Speeding vehicles are defined as those travelling 11mph and above.

The summaries below provide directionalised details including speeding percentages and weekday daytime details.

EASTBOUND →

Total recorded volume	483
Avg daily volume (based on 6 days)	69.0
Average daily speed (6 days)	6.8mph
Average daily 85%ile (6 days)	8.8mph
% of vehicles exceeding 10mph	6.2%

Avg weekday volume (Mon-Fri, 24hrs)	91.4
Avg weekday speed (Mon-Fri, 24hrs)	6.8mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	90.0
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	6.8mph
Avg 12hr weekday 85%ile (Mon-Fri, 0700-1900)	8.8mph

WESTBOUND ←

Total recorded volume	465
Avg daily volume (based on 6 days)	66.4
Average daily speed (6 days)	8.1mph
Average daily 85%ile (6 days)	9.7mph
% of vehicles exceeding 10mph	9.9%

Avg weekday volume (Mon-Fri, 24hrs)	87.2
Avg weekday speed (Mon-Fri, 24hrs)	8.0mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	81.4
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	8.0mph
Avg 12hr weekday 85%ile (Mon-Fri, 0700-1900)	9.6mph

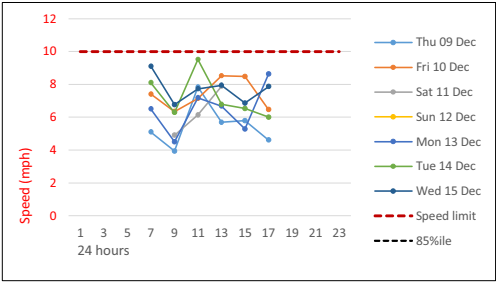
SITE LOCATION



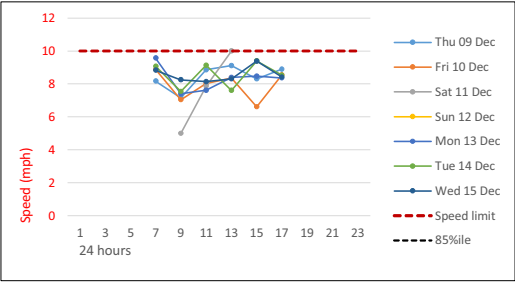
Location	Jewsons
Lat, lng.	51°30'58.58"N / 0°16'4.40"W
Project & site	29633-001
PSL	10mph
Bus route	No
Direction 1	Eastbound→
Direction 2	Westbound←

DAILY SPEEDS

EASTBOUND →



WESTBOUND ←

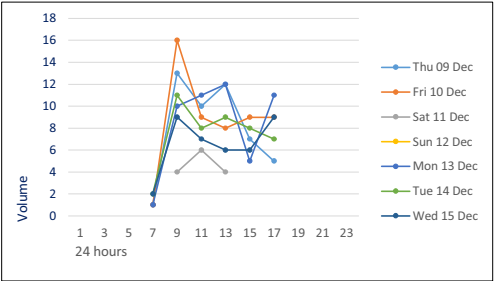


Average daily speeds (solid thin colours) and 85%ile (dashed black) compared against 10mph posted speed limit (dashed red). The 85%ile is the speed at which 85% of all vehicles are observed to travel under free flowing conditions. A minimum of ten vehicles per speed bin is required for this calculation, hence the overnight low-volume 85%ile values may be zero.

The peak average eastbound daytime speed was 11.5mph at 10:15 on Wed 15 Dec, whilst the peak average westbound speed was 11.7mph at 10:00 on Wed 15 Dec (based on 15min averages between 0700 & 1900).

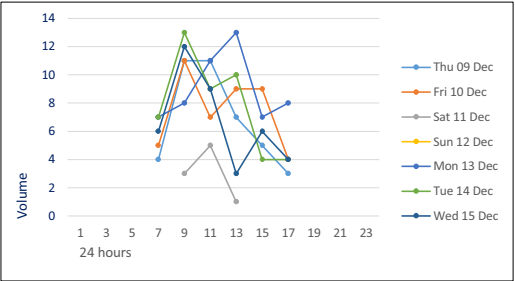
HOURLY VOLUMES

EASTBOUND →



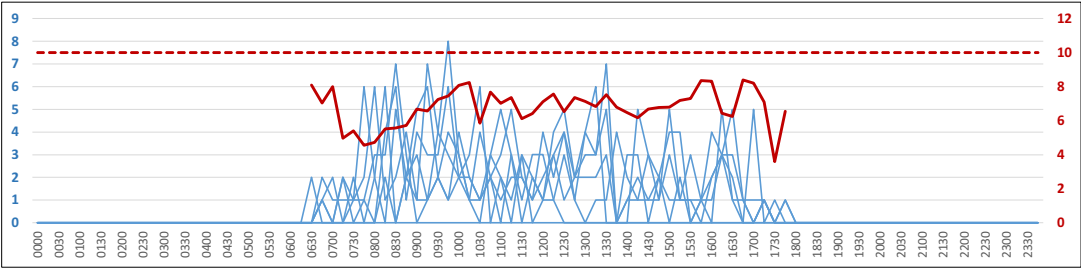
→ Hourly eastbound traffic volumes over each 24hr period for 6 days from all available data.

WESTBOUND ←

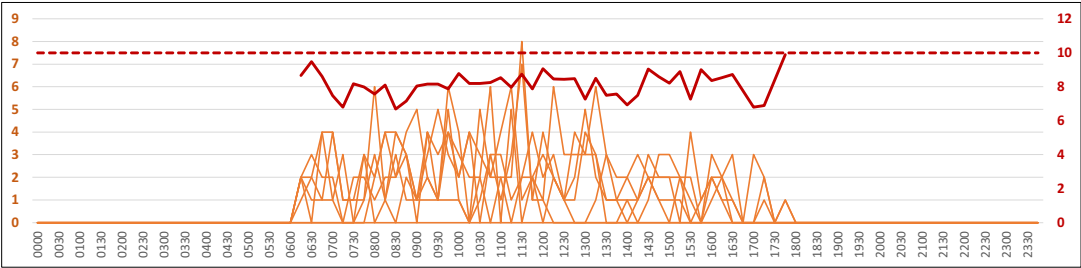


Hourly westbound traffic volumes over each 24hr period for 6 days from all available data. ←

15min VOL & SPEED



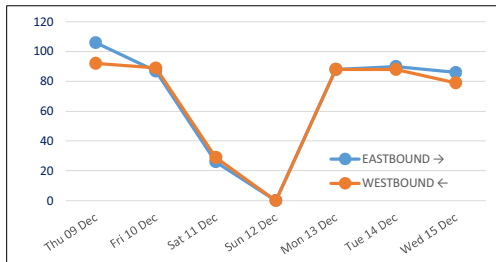
→ 15min daily eastbound flows (blue), against the average speed (red) and 85%ile (dotted black) for each 15min period over the 6-day period.



15min daily westbound flows (orange), against the average weekly speed (red) and 85%ile (dotted black) for each 15min period over the 6-day period. ←

DAILY VOLUMES

EAST & WESTBOUND



Total 24hr eastbound (blue) and westbound (orange) traffic volumes over 6 consecutive days from all available data.

As can be expected, the lowest volumes were recorded on the Sunday, whilst the highest was on the Thursday.

7-DAY AVERAGE CLASSES

EASTBOUND 7-DAY AVG →

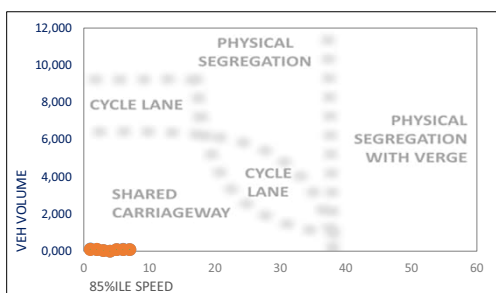
TIME	MOTOR CYCLES	CARS / LGV	OGV1	OGV2	PSV	TOTAL
0000	0.0	0.0	0.0	0.0	0.0	0.0
0100	0.0	0.0	0.0	0.0	0.0	0.0
0200	0.0	0.0	0.0	0.0	0.0	0.0
0300	0.0	0.0	0.0	0.0	0.0	0.0
0400	0.0	0.0	0.0	0.0	0.0	0.0
0500	0.0	0.0	0.0	0.0	0.0	0.0
0600	0.0	1.2	0.0	0.0	0.0	1.2
0700	0.8	2.8	0.2	0.0	0.0	3.8
0800	0.7	9.8	0.0	0.0	0.0	10.5
0900	0.5	9.8	1.7	0.2	0.0	12.2
1000	0.2	7.3	1.0	0.0	0.0	8.5
1100	0.0	7.0	0.8	0.0	0.0	7.8
1200	0.2	8.0	0.3	0.0	0.0	8.5
1300	0.5	7.0	0.5	0.0	0.0	8.0
1400	0.3	5.3	0.2	0.0	0.0	5.8
1500	0.3	4.7	0.2	0.0	0.0	5.2
1600	0.0	6.8	0.0	0.0	0.0	6.8
1700	0.0	2.2	0.0	0.0	0.0	2.2
1800	0.0	0.0	0.0	0.0	0.0	0.0
1900	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0
2100	0.0	0.0	0.0	0.0	0.0	0.0
2200	0.0	0.0	0.0	0.0	0.0	0.0
2300	0.0	0.0	0.0	0.0	0.0	0.0
12hr TTL	3.5	70.8	4.8	0.2	0.0	79.3
24hr TTL	3.5	72.0	4.8	0.2	0.0	80.5
	4%	89%	6%	0%	0%	

WESTBOUND 7-DAY AVG ←

TIME	MOTOR CYCLES	CARS / LGV	OGV1	OGV2	PSV	TOTAL
0000	0.0	0.0	0.0	0.0	0.0	0.0
0100	0.0	0.0	0.0	0.0	0.0	0.0
0200	0.0	0.0	0.0	0.0	0.0	0.0
0300	0.0	0.0	0.0	0.0	0.0	0.0
0400	0.0	0.0	0.0	0.0	0.0	0.0
0500	0.0	0.0	0.0	0.0	0.0	0.0
0600	0.0	4.8	0.0	0.0	0.0	4.8
0700	0.2	5.0	0.0	0.0	0.0	5.2
0800	0.0	9.5	0.2	0.0	0.0	9.7
0900	0.5	9.0	0.5	0.0	0.0	10.0
1000	0.0	8.2	0.5	0.0	0.0	8.7
1100	0.8	9.0	0.3	0.0	0.0	10.2
1200	0.3	6.5	0.2	0.2	0.0	7.2
1300	0.0	6.7	0.5	0.0	0.0	7.2
1400	0.0	4.8	0.3	0.0	0.0	5.2
1500	0.3	3.5	0.2	0.0	0.0	4.0
1600	0.0	3.7	0.2	0.0	0.0	3.8
1700	0.2	1.2	0.3	0.0	0.0	1.7
1800	0.0	0.0	0.0	0.0	0.0	0.0
1900	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0
2100	0.0	0.0	0.0	0.0	0.0	0.0
2200	0.0	0.0	0.0	0.0	0.0	0.0
2300	0.0	0.0	0.0	0.0	0.0	0.0
12hr TTL	2.3	67.0	3.2	0.2	0.0	72.7
24hr TTL	2.3	71.8	3.2	0.2	0.0	77.5
	3%	93%	4%	0%	0%	

Average daily eastbound and westbound volumes by class (condensed to the AQMA scheme), including 12hr totals for 0700-1900 and overall average percentages. Calculated from all available data over 6 days.

CYCLE PROVISION



The diagram compares total daily traffic flow (vertical axis) against the average daily 85th percentile speed (horizontal axis) to demonstrate cyclist and vulnerable user considerations.

The guidelines are based on the Sustrans Design Manual (Apr 2014); Understanding User Needs, part 2.

Valid 85th percentiles are required to plot the graph.

METHODOLOGY

Equipment & methodology

Automatic traffic counts are undertaken using a pair of pneumatic tubes installed securely across the carriageway, one metre apart, recording air pulses to determine vehicle speed, class and volume. The ATC equipment generally remains in place for a consecutive seven day period, and the data analysed post-survey.

In queuing conditions, the accuracy of ATC recording equipment will reduce as follows;

- 20 – 30mph: potential reduction of 9% accuracy in volume values
- 10 – 20mph: potential reduction of 26% accuracy in volume values
- 00 – 10mph: potential reduction of 39% accuracy in volume values

These figures are based on multiple ATC results compared against accepted reference values from resilient manual counts.

AADTs are calculated using the seasonal COBA methodology; DMRB Vol. 13, Pt 4:

Weather & environmental

Inclement conditions during winter months or outbreaks of unseasonable weather may affect survey data collection. This can result in distorted traffic flows or unusable data and should be considered prior to survey approval. Although forecast checks are made prior to the survey commencing, A-T-R cannot be held responsible for the forecast accuracy.

CLASS	ABBREV.	DESCRIPTION	LENGTH	COBA
1	MC	Motorcycle	SHORT Up to 5.5m	N/A
2	SV	Cars, taxis, 4WD, vans		CAR & LGV
3	SVT	Class 2 plus trailer	MEDIUM 5.5m to 14.5m	
4	TB2	2 axle truck / bus		OGV1
5	TB3	3 axle truck / bus		OGV2
6	T4	4 axle truck		
7	ART3	3 axle articulated		
8	ART4	4 axle articulated		
9	ART5	5 axle articulated		
10	ART6	6+ axle articulated	LONG 11.5m to 19.0m	

Generated	28 Mar 2025	v6.0
29633-001 Jewsons ATC Summary.xlsx		

Equipment damage & failure

Although checked intermittently the equipment remains unmanned for much of the duration of the survey, and can potentially be interfered with, vandalised, damaged or stolen and A-T-R cannot be held responsible for any periods where data has not been captured.

The equipment is located in accordance with the details provided by the client and A-T-R cannot be held responsible for the accuracy of the data or loss of equipment due to theft and vandalism.

Roadworks & events

Where possible, roadworks checks are made 7 days before the survey commences. Additionally, influencing major local events are also monitored, covering the immediate vicinity of the surveys and any routes likely to affect the outcome of the survey.

Vehicle classifications

Vehicles recorded by the ATC are placed into one of ten classes based on axle spacing and pattern. This scheme is based on the AustRoad 94 algorithm and modified for UK traffic, referred to as ARX. The table on the left aligns the ARX classifications with the COBA Chapter 8 (Vol 13, Sec 1) classifications.

Under adverse conditions the accuracy of ATC classifications will deteriorate and an appropriate link count should be used for validation.

Disclaimer

Although every attempt is made to achieve accuracy, A-T-R may not be held liable for errors of fact or interpretation.

DIR 2																				
TOTAL	CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5	CLASS 6	TIME	0-10mph	10-15mph	15-20mph	20-25mph	25-30mph	30-35mph	35-40mph	40-45mph	45-50mph	50-60mph	60-70mph	70-80mph	80-90mph

PROJECT29633 Acton

SITE29633-001

LOCATIONJEWSONS

DIRECTIONWESTBOUND ←

PSL10mph

ALL VEHICLES	0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	PSL SPEEDING	PSL% SPEEDING	ACPO SPEEDING	ACPO% SPEEDING	DIT SPEEDING	DIT% SPEEDING									
Mcycles																															
Cars, taxis, 4WD																															
LGV																															
OGV1																															
OGV2																															
PSV																															
DAY 2	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Fix1	Time [-	Vbin 0 10	Vbin 10 15	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 60	Vbin 60 70	Vbin 70 80	Vbin 80 90	Vbin 90 100	Mean	Vpp 85	JPSL 10	JPSL% 10	PSL% 10 ACPO	PSL% 10 ACPO	PSL% 10 DIT	PSL% 10 DIT
0000	0	0	0	0	0	0	0		0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0015	0	0	0	0	0	0	0		0015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0030	0	0	0	0	0	0	0		0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0045	0	0	0	0	0	0	0		0045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0100	0	0	0	0	0	0	0		0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0115	0	0	0	0	0	0	0		0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0130	0	0	0	0	0	0	0		0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0145	0	0	0	0	0	0	0		0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0200	0	0	0	0	0	0	0		0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0215	0	0	0	0	0	0	0		0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0230	0	0	0	0	0	0	0		0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0245	0	0	0	0	0	0	0		0245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0300	0	0	0	0	0	0	0		0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0315	0	0	0	0	0	0	0		0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0330	0	0	0	0	0	0	0		0330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0345	0	0	0	0	0	0	0		0345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0400	0	0	0	0	0	0	0		0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0415	0	0	0	0	0	0	0		0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0430	0	0	0	0	0	0	0		0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0445	0	0	0	0	0	0	0		0445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0500	0	0	0	0	0	0	0		0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0515	0	0	0	0	0	0	0		0515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0530	0	0	0	0	0	0	0		0530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0545	0	0	0	0	0	0	0		0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0600	0	0	0	0	0	0	0		0600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0.0	0	0.0	0	0.0
0615	2	0	2	0	0	0	0		0615	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9	-	0	0.0	0	0.0	0	0.0
0630	2	0	2	0	0	0	0		0630	1	1	0	0	0	0	0	0	0	0	0	0	0	0	9.8	-	1	50.0	0	0.0	0	0.0
0645	1	0	1	0	0	0	0		0645	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9.0	-	0	0.0	0	0.0	0	0.0
0700	4	0	3	1	0	0	0		0700	3	1	0	0	0	0	0	0	0	0	0	0	0	0	8.5	-	1	25.0	0	0.0	0	0.0
0715	1	0	0	1	0	0	0		0715	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4.9	-	0	0.0	0	0.0	0	0.0
0730	1	0	1	0	0	0	0		0730	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9.9	-	0	0.0	0	0.0	0	0.0
0745	1	0	0	1	0	0	0		0745	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8.2	-	0	0.0	0	0.0	0	0.0
0800	6	0	5	1	0	0	0		0800	6	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0	-	0	0.0	0	0.0	0	0.0
0815	1	0	0	1	0	0	0		0815	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9.5	-	0	0.0	0	0.0	0	0.0
0830	3	0	2	1	0	0	0		0830	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	-	0	0.0	0	0.0	0	0.0
0845	1	0	1	0	0	0	0		0845	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	-	0	0.0	0	0.0	0	0.0
0900	1	0	1	0	0	0	0		0900	0	1	0	0	0	0	0	0	0	0	0	0	0	0	10.9	-	1	100.0	0	0.0	0	0.0
0915	1	0	1	0	0	0	0		0915	1	0	0	0	0	0																

DIR 2																													
TOTAL	CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5	CLASS 6	TIME	0-10mph	10-15mph	15-20mph	20-25mph	25-30mph	30-35mph	35-40mph	40-45mph	45-50mph	50-60mph	60-70mph	70-80mph	80-90mph	90mph+	AVG SPD	85%ile	PSL SPEEDING	PSL% SPEEDING	ACPO SPEEDING	ACPO% SPEEDING	DIT SPEEDING	DIT% SPEEDING

PROJECT29633 Acton

SITE29633-001

LOCATIONJEWSONS

DIRECTIONWESTBOUND ←

PSL10mph

ALL VEHICLES		0 - 10 mph										10 - 15 mph										15 - 20 mph										20 - 25 mph										25 - 30 mph										30 - 35 mph										35 - 40 mph										40 - 45 mph										45 - 50 mph										50 - 60 mph										60 - 70 mph										70 - 80 mph										80 - 90 mph										90 - 100 mph										AVG SPD												85%ile												> 10mph												% > 10mph											
Mcycles		Cars, taxis, 4WD										LGV										OGV1										OGV2										PSV																																																																																																																																																			
Cars, taxis, 4WD		LGV										OGV1										OGV2										PSV																																																																																																																																																													
LGV		OGV1										OGV2										PSV																																																																																																																																																																							
OGV1		OGV2										PSV																																																																																																																																																																																	
OGV2		PSV																																																																																																																																																																																											
PSV																																																																																																																																																																																													

DIR 2																				
TOTAL	CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5	CLASS 6	TIME	0-10mph	10-15mph	15-20mph	20-25mph	25-30mph	30-35mph	35-40mph	40-45mph	45-50mph	50-60mph	60-70mph	70-80mph	80-90mph

PROJECT29633 Acton

SITE29633-001

LOCATIONJEWSONS

DIRECTIONWESTBOUND ←

PSL10mph

ALL VEHICLES																				
Mcycles																				
Cars, taxis, 4WD																				
LGV																				
OGV1																				
OGV2																				
PSV																				
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	PSL SPEEDING	PSL% SPEEDING	ACPO SPEEDING	ACPO% SPEEDING	DIT SPEEDING
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph			
0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 3																

DIR 2	
TOTAL	
CLASS 1	
CLASS 2	
CLASS 3	
CLASS 4	
CLASS 5	
CLASS 6	
TIME	
0-10mph	
10-15mph	
15-20mph	
20-25mph	
25-30mph	
30-35mph	
35-40mph	
40-45mph	
45-50mph	
50-60mph	
60-70mph	
70-80mph	
80-90mph	
90mph+	
AVG SPD	
85%ile	
PSL SPEEDING	
PSL% SPEEDING	
ACPO SPEEDING	
ACPO% SPEEDING	
DTT SPEEDING	
DTT% SPEEDING	

PSL 10mph

[illegible]

DIR 2																													
TOTAL	CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5	CLASS 6	TIME	0-10mph	10-15mph	15-20mph	20-25mph	25-30mph	30-35mph	35-40mph	40-45mph	45-50mph	50-60mph	60-70mph	70-80mph	80-90mph	90mph+	AVG SPD	85%ile	PSL SPEEDING	PSL% SPEEDING	ACPO SPEEDING	ACPO% SPEEDING	DIT SPEEDING	DIT% SPEEDING
PROJECT 29633 Acton																													
SITE 29633-001																													
LOCATION JEWSONS																													
DIRECTION WESTBOUND ←																													
PSL 10mph																													
ALL VEHICLES								0 - 10 mph	10 - 15 mph	15 - 20 mph	20 - 25 mph	25 - 30 mph	30 - 35 mph	35 - 40 mph	40 - 45 mph	45 - 50 mph	50 - 60 mph	60 - 70 mph	70 - 80 mph	80 - 90 mph	90 - 100 mph	AVG SPD	85%ile	> 10mph	% > 10mph				
Mcycles																													
Cars, taxis, 4WD																													
LGV																													
OGV1																													
OGV2																													
PSV																													

Appendix N: TRICS - Office

TRICS 7.11.4

Trip Rate Parameter: Gross floor area

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use 02 - EMPLOYMENT
Category A - OFFICE

MULTI-MODAL TOTAL PEOPLE

Selected regions and areas:

1 GREATER LONDON		
BN	BARNET	1 days
CN	CAMDEN	2 days
EN	ENFIELD	1 days
HD	HILLINGDON	1 days
HM	HAMMERSMITH AND FU	1 days
LB	LAMBETH	2 days

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

Primary Filtering selection:

Parameter: Gross floor area
Actual Range: 1306 to 26639 (units: sqm)
Range Selected by User: 408 to 114000 (units: sqm)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/16 to 28/06/22

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	2 days
Tuesday	3 days
Wednesday	2 days
Thursday	1 days

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

Selected survey types:

Manual count	8 days
Directional ATC Count	0 days

Selected Locations:

Town Centre	5
Edge of Town Centre	3
Suburban Area (PPS6 Out of Centre)	0
Edge of Town	0
Neighbourhood Centre (PPS6 Local Centre)	0
Free Standing (PPS6 Out of Town)	0
Not Known	0

Selected Location Sub Categories:

Industrial Zone	0
Commercial Zone	1
Development Zone	0
Residential Zone	0
Retail Zone	0
Built-Up Zone	5
Village	0
Out of Town	0
High Street	1
No Sub Category	1

Secondary Filtering selection:

Use Class:
Not Known 8 days

Filter by Site Operations Breakdown:
All Surveys Included

Population within 500m Range:
All Surveys Included

Population within 1 mile:
25,001 to 50,000 3 days
50,001 to 100,000 2 days
100,001 or More 3 days

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

Population within 5 miles:
250,001 to 500,000 1 days
500,001 or More 7 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 1 days
0.6 to 1.0 5 days
1.1 to 1.5 2 days

Travel Plan:

PTAL Rating:	
3 Moderate	1 days
4 Good	2 days
6a Excellent	1 days
6b (High) Excellent	4 days

LIST OF SITES relevant to selection parameters

	HIGH BARNET	
	Edge of Town Centre	
	No Sub Category	
	Total Gross floor area:	1366 sqm
	Survey date THURSDAY	11/11/2021 Survey Type MANUAL
2	CN-02-A-0: PLANNING & ENGINEER CAMDEN	
	FITZROY STREET	
	FITZROVIA	
	Town Centre	
	Built-Up Zone	
	Total Gross floor area:	26639 sqm
	Survey date WEDNESDAY	06/12/2017 Survey Type MANUAL
3	CN-02-A-0: OFFICE	CAMDEN
	CHARTERHOUSE STREET	
	FARRINGTON	
	Town Centre	
	Built-Up Zone	
	Total Gross floor area:	20129 sqm
	Survey date TUESDAY	28/06/2022 Survey Type MANUAL
4	EN-02-A-0: MICROSOFT OFFICES	ENFIELD
	GENOTIN ROAD	
	ENFIELD	
	Town Centre	
	Built-Up Zone	
	Total Gross floor area:	6552 sqm
	Survey date TUESDAY	07/06/2022 Survey Type MANUAL
5	HD-02-A-1: DATA CENTRE	HILLINGDON
	MILLINGTON ROAD	
	HAYES	
	Edge of Town Centre	
	Commercial Zone	
	Total Gross floor area:	16350 sqm
	Survey date WEDNESDAY	02/03/2022 Survey Type MANUAL
6	HM-02-A-0 REGUS OFFICES	HAMMERSMITH AND FULHAM
	QUEEN CAROLINE STREET	
	HAMMERSMITH	
	Town Centre	
	Built-Up Zone	
	Total Gross floor area:	2036 sqm
	Survey date MONDAY	13/11/2017 Survey Type MANUAL
7	LB-02-A-01 START UP OFFICES & ST LAMBETH	
	DURHAM STREET	
	VAUXHALL	
	Edge of Town Centre	
	Built-Up Zone	
	Total Gross floor area:	10200 sqm
	Survey date MONDAY	19/11/2018 Survey Type MANUAL
8	LB-02-A-02 MUSIC COMPANY	LAMBETH
	STREATHAM HIGH ROAD	
	STREATHAM	
	Town Centre	
	High Street	
	Total Gross floor area:	3054 sqm
	Survey date TUESDAY	05/11/2019 Survey Type MANUAL

Calculation Factor: 100 sqm

Count Type: TOTAL VEHICLES

Time Range	ARRIVALS		DEPARTURES			TOTALS	
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip 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	8	9651	0.063	8	9651	0.017	8	9651	0.08
08:00-09:00	8	9651	0.148	8	9651	0.04	8	9651	0.188
09:00-10:00	8	9651	0.113	8	9651	0.04	8	9651	0.153
10:00-11:00	8	9651	0.079	8	9651	0.051	8	9651	0.13
11:00-12:00	8	9651	0.044	8	9651	0.054	8	9651	0.098
12:00-13:00	8	9651	0.051	8	9651	0.051	8	9651	0.102
13:00-14:00	8	9651	0.035	8	9651	0.038	8	9651	0.073
14:00-15:00	8	9651	0.032	8	9651	0.051	8	9651	0.083
15:00-16:00	8	9651	0.027	8	9651	0.057	8	9651	0.084
16:00-17:00	8	9651	0.038	8	9651	0.066	8	9651	0.104
17:00-18:00	8	9651	0.021	8	9651	0.11	8	9651	0.131
18:00-19:00	8	9651	0.018	8	9651	0.092	8	9651	0.11
19:00-20:00	1	20129	0.005	1	20129	0.005	1	20129	0.01
20:00-21:00	1	20129	0.005	1	20129	0.005	1	20129	0.01
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.679			0.677			1.356

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: TAXIS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0.003		8	9651	0.003	8	9651	0.006
08:00-09:00	8	9651	0.027		8	9651	0.018	8	9651	0.045
09:00-10:00	8	9651	0.017		8	9651	0.01	8	9651	0.027
10:00-11:00	8	9651	0.008		8	9651	0.006	8	9651	0.014
11:00-12:00	8	9651	0.008		8	9651	0.006	8	9651	0.014
12:00-13:00	8	9651	0.004		8	9651	0.005	8	9651	0.009
13:00-14:00	8	9651	0.005		8	9651	0.004	8	9651	0.009
14:00-15:00	8	9651	0.001		8	9651	0.003	8	9651	0.004
15:00-16:00	8	9651	0.008		8	9651	0.013	8	9651	0.021
16:00-17:00	8	9651	0.01		8	9651	0.016	8	9651	0.026
17:00-18:00	8	9651	0.01		8	9651	0.017	8	9651	0.027
18:00-19:00	8	9651	0.013		8	9651	0.013	8	9651	0.026
19:00-20:00	1	20129	0.005		1	20129	0.005	1	20129	0.01
20:00-21:00	1	20129	0.005		1	20129	0.005	1	20129	0.01
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.124				0.124			0.248

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: OGVS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0.001		8	9651	0.001	8	9651	0.002
08:00-09:00	8	9651	0.003		8	9651	0.003	8	9651	0.006
09:00-10:00	8	9651	0.006		8	9651	0.004	8	9651	0.01
10:00-11:00	8	9651	0.005		8	9651	0.005	8	9651	0.01
11:00-12:00	8	9651	0.003		8	9651	0.005	8	9651	0.008
12:00-13:00	8	9651	0.001		8	9651	0.001	8	9651	0.002
13:00-14:00	8	9651	0		8	9651	0	8	9651	0
14:00-15:00	8	9651	0.003		8	9651	0.003	8	9651	0.006
15:00-16:00	8	9651	0		8	9651	0	8	9651	0
16:00-17:00	8	9651	0		8	9651	0	8	9651	0
17:00-18:00	8	9651	0		8	9651	0	8	9651	0
18:00-19:00	8	9651	0		8	9651	0	8	9651	0
19:00-20:00	1	20129	0		1	20129	0	1	20129	0
20:00-21:00	1	20129	0		1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.022				0.022			0.044

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: CYCLISTS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		

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	8	9651	0.04	8	9651	0.001	8	9651	0.041
08:00-09:00	8	9651	0.17	8	9651	0.001	8	9651	0.171
09:00-10:00	8	9651	0.114	8	9651	0.008	8	9651	0.122
10:00-11:00	8	9651	0.031	8	9651	0.013	8	9651	0.044
11:00-12:00	8	9651	0.017	8	9651	0.01	8	9651	0.027
12:00-13:00	8	9651	0.014	8	9651	0.019	8	9651	0.033
13:00-14:00	8	9651	0.01	8	9651	0.017	8	9651	0.027
14:00-15:00	8	9651	0.008	8	9651	0.005	8	9651	0.013
15:00-16:00	8	9651	0.009	8	9651	0.019	8	9651	0.028
16:00-17:00	8	9651	0.003	8	9651	0.03	8	9651	0.033
17:00-18:00	8	9651	0.001	8	9651	0.149	8	9651	0.15
18:00-19:00	8	9651	0.001	8	9651	0.136	8	9651	0.137
19:00-20:00	1	20129	0	1	20129	0.01	1	20129	0.01
20:00-21:00	1	20129	0	1	20129	0	1	20129	0
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.418			0.418			0.836

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: VEHICLE OCCUPANTS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0.067		8	9651	0.017	8	9651	0.084
08:00-09:00	8	9651	0.154		8	9651	0.026	8	9651	0.18
09:00-10:00	8	9651	0.119		8	9651	0.034	8	9651	0.153
10:00-11:00	8	9651	0.088		8	9651	0.052	8	9651	0.14
11:00-12:00	8	9651	0.049		8	9651	0.061	8	9651	0.11
12:00-13:00	8	9651	0.058		8	9651	0.053	8	9651	0.111
13:00-14:00	8	9651	0.043		8	9651	0.044	8	9651	0.087
14:00-15:00	8	9651	0.034		8	9651	0.053	8	9651	0.087
15:00-16:00	8	9651	0.027		8	9651	0.061	8	9651	0.088
16:00-17:00	8	9651	0.036		8	9651	0.071	8	9651	0.107
17:00-18:00	8	9651	0.014		8	9651	0.119	8	9651	0.133
18:00-19:00	8	9651	0.01		8	9651	0.098	8	9651	0.108
19:00-20:00	1	20129	0		1	20129	0.01	1	20129	0.01
20:00-21:00	1	20129	0		1	20129	0.005	1	20129	0.005
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.699				0.704			1.403

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: PEDESTRIANS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0.123		8	9651	0.057	8	9651	0.18
08:00-09:00	8	9651	0.273		8	9651	0.128	8	9651	0.401
09:00-10:00	8	9651	0.315		8	9651	0.158	8	9651	0.473
10:00-11:00	8	9651	0.234		8	9651	0.264	8	9651	0.498
11:00-12:00	8	9651	0.211		8	9651	0.207	8	9651	0.418
12:00-13:00	8	9651	0.376		8	9651	0.526	8	9651	0.902
13:00-14:00	8	9651	0.58		8	9651	0.544	8	9651	1.124
14:00-15:00	8	9651	0.348		8	9651	0.234	8	9651	0.582
15:00-16:00	8	9651	0.12		8	9651	0.148	8	9651	0.268
16:00-17:00	8	9651	0.082		8	9651	0.137	8	9651	0.219
17:00-18:00	8	9651	0.057		8	9651	0.175	8	9651	0.232
18:00-19:00	8	9651	0.018		8	9651	0.15	8	9651	0.168
19:00-20:00	1	20129	0		1	20129	0.025	1	20129	0.025
20:00-21:00	1	20129	0		1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			2.737				2.753			5.49

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
Calculation Factor: 100 sqm
Count Type: BUS/TRAM PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		8	9651	0.076	8	9651	0.005	8	9651	0.081	
08:00-09:00		8	9651	0.246	8	9651	0.01	8	9651	0.256	
09:00-10:00		8	9651	0.224	8	9651	0.022	8	9651	0.246	
10:00-11:00		8	9651	0.083	8	9651	0.031	8	9651	0.114	
11:00-12:00		8	9651	0.031	8	9651	0.026	8	9651	0.057	
12:00-13:00		8	9651	0.06	8	9651	0.073	8	9651	0.133	
13:00-14:00		8	9651	0.066	8	9651	0.06	8	9651	0.126	
14:00-15:00		8	9651	0.031	8	9651	0.049	8	9651	0.08	
15:00-16:00		8	9651	0.019	8	9651	0.07	8	9651	0.089	
16:00-17:00		8	9651	0.017	8	9651	0.089	8	9651	0.106	
17:00-18:00		8	9651	0.018	8	9651	0.246	8	9651	0.264	
18:00-19:00		8	9651	0.006	8	9651	0.137	8	9651	0.143	
19:00-20:00	1		20129	0	1	20129	0.01	1	20129	0.01	
20:00-21:00	1		20129	0	1	20129	0	1	20129	0	
21:00-22:00											
22:00-23:00											
23:00-24:00											
Daily Trip Rates:				0.877			0.828			1.705	

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
Calculation Factor: 100 sqm
Count Type: TOTAL RAIL PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		8	9651	0.367	8	9651	0.003	8	9651	0.37	
08:00-09:00		8	9651	1.291	8	9651	0.034	8	9651	1.325	
09:00-10:00		8	9651	1.119	8	9651	0.063	8	9651	1.182	
10:00-11:00		8	9651	0.301	8	9651	0.073	8	9651	0.374	
11:00-12:00		8	9651	0.152	8	9651	0.098	8	9651	0.25	
12:00-13:00		8	9651	0.128	8	9651	0.177	8	9651	0.305	
13:00-14:00		8	9651	0.154	8	9651	0.163	8	9651	0.317	
14:00-15:00		8	9651	0.074	8	9651	0.13	8	9651	0.204	
15:00-16:00		8	9651	0.082	8	9651	0.246	8	9651	0.328	
16:00-17:00		8	9651	0.067	8	9651	0.474	8	9651	0.541	
17:00-18:00		8	9651	0.053	8	9651	1.344	8	9651	1.397	
18:00-19:00		8	9651	0.026	8	9651	0.861	8	9651	0.887	
19:00-20:00	1		20129	0	1	20129	0.084	1	20129	0.084	
20:00-21:00	1		20129	0	1	20129	0.02	1	20129	0.02	
21:00-22:00											
22:00-23:00											
23:00-24:00											
Daily Trip Rates:				3.814			3.77			7.584	

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE
Calculation Factor: 100 sqm
Count Type: COACH PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS	
			Trip Rate				Trip Rate	No. Days		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		8	9651	0	8	9651	0	8	9651	0	
08:00-09:00		8	9651	0	8	9651	0	8	9651	0	
09:00-10:00		8	9651	0	8	9651	0	8	9651	0	
10:00-11:00		8	9651	0	8	9651	0	8	9651	0	
11:00-12:00		8	9651	0.001	8	9651	0	8	9651	0.001	
12:00-13:00		8	9651	0	8	9651	0	8	9651	0	
13:00-14:00		8	9651	0.001	8	9651	0	8	9651	0.001	
14:00-15:00		8	9651	0	8	9651	0.001	8	9651	0.001	
15:00-16:00		8	9651	0	8	9651	0	8	9651	0	
16:00-17:00		8	9651	0	8	9651	0.001	8	9651	0.001	
17:00-18:00		8	9651	0	8	9651	0	8	9651	0	
18:00-19:00		8	9651	0	8	9651	0	8	9651	0	

19:00-20:00	1	20129	0	1	20129	0	1	20129	0
20:00-21:00	1	20129	0	1	20129	0	1	20129	0
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.002			0.002			0.004

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: PUBLIC TRANSPORT USERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8		9651	0.443	8	9651	0.008	8	9651	0.451
08:00-09:00	8		9651	1.537	8	9651	0.044	8	9651	1.581
09:00-10:00	8		9651	1.343	8	9651	0.085	8	9651	1.428
10:00-11:00	8		9651	0.383	8	9651	0.104	8	9651	0.487
11:00-12:00	8		9651	0.184	8	9651	0.124	8	9651	0.308
12:00-13:00	8		9651	0.188	8	9651	0.25	8	9651	0.438
13:00-14:00	8		9651	0.221	8	9651	0.223	8	9651	0.444
14:00-15:00	8		9651	0.105	8	9651	0.18	8	9651	0.285
15:00-16:00	8		9651	0.101	8	9651	0.316	8	9651	0.417
16:00-17:00	8		9651	0.084	8	9651	0.565	8	9651	0.649
17:00-18:00	8		9651	0.071	8	9651	1.591	8	9651	1.662
18:00-19:00	8		9651	0.032	8	9651	0.999	8	9651	1.031
19:00-20:00	1		20129	0	1	20129	0.094	1	20129	0.094
20:00-21:00	1		20129	0	1	20129	0.02	1	20129	0.02
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				4.692			4.603			9.295

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: TOTAL PEOPLE

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8		9651	0.674	8	9651	0.083	8	9651	0.757
08:00-09:00	8		9651	2.135	8	9651	0.199	8	9651	2.334
09:00-10:00	8		9651	1.891	8	9651	0.285	8	9651	2.176
10:00-11:00	8		9651	0.737	8	9651	0.433	8	9651	1.17
11:00-12:00	8		9651	0.461	8	9651	0.403	8	9651	0.864
12:00-13:00	8		9651	0.636	8	9651	0.848	8	9651	1.484
13:00-14:00	8		9651	0.855	8	9651	0.828	8	9651	1.683
14:00-15:00	8		9651	0.495	8	9651	0.473	8	9651	0.968
15:00-16:00	8		9651	0.258	8	9651	0.544	8	9651	0.802
16:00-17:00	8		9651	0.205	8	9651	0.803	8	9651	1.008
17:00-18:00	8		9651	0.144	8	9651	2.034	8	9651	2.178
18:00-19:00	8		9651	0.062	8	9651	1.383	8	9651	1.445
19:00-20:00	1		20129	0	1	20129	0.139	1	20129	0.139
20:00-21:00	1		20129	0	1	20129	0.025	1	20129	0.025
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				8.553			8.48			17.033

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: CARS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8		9651	0.047	8	9651	0.006	8	9651	0.053
08:00-09:00	8		9651	0.091	8	9651	0.009	8	9651	0.1
09:00-10:00	8		9651	0.075	8	9651	0.014	8	9651	0.089
10:00-11:00	8		9651	0.044	8	9651	0.017	8	9651	0.061
11:00-12:00	8		9651	0.023	8	9651	0.032	8	9651	0.055

12:00-13:00	8	9651	0.021	8	9651	0.023	8	9651	0.044
13:00-14:00	8	9651	0.019	8	9651	0.018	8	9651	0.037
14:00-15:00	8	9651	0.012	8	9651	0.022	8	9651	0.034
15:00-16:00	8	9651	0.01	8	9651	0.032	8	9651	0.042
16:00-17:00	8	9651	0.012	8	9651	0.031	8	9651	0.043
17:00-18:00	8	9651	0.006	8	9651	0.082	8	9651	0.088
18:00-19:00	8	9651	0.003	8	9651	0.065	8	9651	0.068
19:00-20:00	1	20129	0	1	20129	0	1	20129	0
20:00-21:00	1	20129	0	1	20129	0	1	20129	0
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.363			0.351			0.714

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	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	8	9651	0.009	8	9651	0.005	8	9651	0.014
08:00-09:00	8	9651	0.017	8	9651	0.009	8	9651	0.026
09:00-10:00	8	9651	0.008	8	9651	0.01	8	9651	0.018
10:00-11:00	8	9651	0.017	8	9651	0.021	8	9651	0.038
11:00-12:00	8	9651	0.01	8	9651	0.01	8	9651	0.02
12:00-13:00	8	9651	0.018	8	9651	0.016	8	9651	0.034
13:00-14:00	8	9651	0.008	8	9651	0.012	8	9651	0.02
14:00-15:00	8	9651	0.016	8	9651	0.018	8	9651	0.034
15:00-16:00	8	9651	0.006	8	9651	0.01	8	9651	0.016
16:00-17:00	8	9651	0.013	8	9651	0.017	8	9651	0.03
17:00-18:00	8	9651	0.003	8	9651	0.004	8	9651	0.007
18:00-19:00	8	9651	0.001	8	9651	0.001	8	9651	0.002
19:00-20:00	1	20129	0	1	20129	0	1	20129	0
20:00-21:00	1	20129	0	1	20129	0	1	20129	0
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			0.126			0.133			0.259

Time Range	ARRIVALS			DEPARTURES			TOTALS			
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	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		8	9651	0.004	8	9651	0.001	8	9651	0.005
08:00-09:00		8	9651	0.01	8	9651	0.001	8	9651	0.011
09:00-10:00		8	9651	0.006	8	9651	0.001	8	9651	0.007
10:00-11:00		8	9651	0.005	8	9651	0.001	8	9651	0.006
11:00-12:00		8	9651	0	8	9651	0	8	9651	0
12:00-13:00		8	9651	0.006	8	9651	0.005	8	9651	0.011
13:00-14:00		8	9651	0.003	8	9651	0.004	8	9651	0.007
14:00-15:00		8	9651	0.001	8	9651	0.005	8	9651	0.006
15:00-16:00		8	9651	0.003	8	9651	0.001	8	9651	0.004
16:00-17:00		8	9651	0.003	8	9651	0.003	8	9651	0.006
17:00-18:00		8	9651	0.001	8	9651	0.008	8	9651	0.009
18:00-19:00		8	9651	0.001	8	9651	0.013	8	9651	0.014
19:00-20:00		1	20129	0	1	20129	0	1	20129	0
20:00-21:00		1	20129	0	1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				0.043			0.043			0.086

Time Range	ARRIVALS		DEPARTURES			TOTALS
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	
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	8	9651	0.21	8	9651	0.003	8	9651	0.213
08:00-09:00	8	9651	0.718	8	9651	0.027	8	9651	0.745
09:00-10:00	8	9651	0.654	8	9651	0.051	8	9651	0.705
10:00-11:00	8	9651	0.193	8	9651	0.044	8	9651	0.237
11:00-12:00	8	9651	0.1	8	9651	0.063	8	9651	0.163
12:00-13:00	8	9651	0.079	8	9651	0.108	8	9651	0.187
13:00-14:00	8	9651	0.084	8	9651	0.11	8	9651	0.194
14:00-15:00	8	9651	0.052	8	9651	0.082	8	9651	0.134
15:00-16:00	8	9651	0.045	8	9651	0.159	8	9651	0.204
16:00-17:00	8	9651	0.038	8	9651	0.233	8	9651	0.271
17:00-18:00	8	9651	0.028	8	9651	0.693	8	9651	0.721
18:00-19:00	8	9651	0.009	8	9651	0.488	8	9651	0.497
19:00-20:00	1	20129	0	1	20129	0.05	1	20129	0.05
20:00-21:00	1	20129	0	1	20129	0.01	1	20129	0.01
21:00-22:00									
22:00-23:00									
23:00-24:00									
Daily Trip Rates:			2.21			2.121			4.331

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: DLR PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0		8	9651	0	8	9651	0
08:00-09:00	8	9651	0		8	9651	0	8	9651	0
09:00-10:00	8	9651	0		8	9651	0	8	9651	0
10:00-11:00	8	9651	0.001		8	9651	0	8	9651	0.001
11:00-12:00	8	9651	0		8	9651	0	8	9651	0
12:00-13:00	8	9651	0.001		8	9651	0	8	9651	0.001
13:00-14:00	8	9651	0		8	9651	0	8	9651	0
14:00-15:00	8	9651	0		8	9651	0.001	8	9651	0.001
15:00-16:00	8	9651	0		8	9651	0	8	9651	0
16:00-17:00	8	9651	0		8	9651	0.001	8	9651	0.001
17:00-18:00	8	9651	0		8	9651	0	8	9651	0
18:00-19:00	8	9651	0		8	9651	0	8	9651	0
19:00-20:00	1	20129	0		1	20129	0	1	20129	0
20:00-21:00	1	20129	0		1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.002				0.002			0.004

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: OVERGROUND PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8	9651	0.019		8	9651	0	8	9651	0.019
08:00-09:00	8	9651	0.038		8	9651	0	8	9651	0.038
09:00-10:00	8	9651	0.049		8	9651	0	8	9651	0.049
10:00-11:00	8	9651	0.009		8	9651	0	8	9651	0.009
11:00-12:00	8	9651	0.004		8	9651	0.003	8	9651	0.007
12:00-13:00	8	9651	0.01		8	9651	0.012	8	9651	0.022
13:00-14:00	8	9651	0.008		8	9651	0.003	8	9651	0.011
14:00-15:00	8	9651	0.001		8	9651	0.001	8	9651	0.002
15:00-16:00	8	9651	0.003		8	9651	0.006	8	9651	0.009
16:00-17:00	8	9651	0		8	9651	0.026	8	9651	0.026
17:00-18:00	8	9651	0		8	9651	0.102	8	9651	0.102
18:00-19:00	8	9651	0		8	9651	0.038	8	9651	0.038
19:00-20:00	1	20129	0		1	20129	0	1	20129	0
20:00-21:00	1	20129	0		1	20129	0.01	1	20129	0.01
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:			0.141				0.201			0.342

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: NATIONAL RAIL PASSENGERS

ARRIVALS

DEPARTURES

TOTALS

	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	8		9651	0.137	8	9651	0	8	9651	0.137
08:00-09:00	8		9651	0.536	8	9651	0.006	8	9651	0.542
09:00-10:00	8		9651	0.416	8	9651	0.013	8	9651	0.429
10:00-11:00	8		9651	0.097	8	9651	0.028	8	9651	0.125
11:00-12:00	8		9651	0.048	8	9651	0.032	8	9651	0.08
12:00-13:00	8		9651	0.038	8	9651	0.058	8	9651	0.096
13:00-14:00	8		9651	0.062	8	9651	0.051	8	9651	0.113
14:00-15:00	8		9651	0.021	8	9651	0.045	8	9651	0.066
15:00-16:00	8		9651	0.034	8	9651	0.08	8	9651	0.114
16:00-17:00	8		9651	0.03	8	9651	0.214	8	9651	0.244
17:00-18:00	8		9651	0.025	8	9651	0.549	8	9651	0.574
18:00-19:00	8		9651	0.017	8	9651	0.335	8	9651	0.352
19:00-20:00	1		20129	0	1	20129	0.035	1	20129	0.035
20:00-21:00	1		20129	0	1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				1.461			1.446			2.907

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

Calculation Factor: 100 sqm

Count Type: BUS PASSENGERS

Time Range	No. Days	Ave. GFA	ARRIVALS		No. Days	Ave. GFA	DEPARTURES		Ave. GFA	TOTALS Trip Rate
			Trip Rate				Trip Rate	No. Days		
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	8		9651	0.076	8	9651	0.005	8	9651	0.081
08:00-09:00	8		9651	0.246	8	9651	0.01	8	9651	0.256
09:00-10:00	8		9651	0.224	8	9651	0.022	8	9651	0.246
10:00-11:00	8		9651	0.083	8	9651	0.031	8	9651	0.114
11:00-12:00	8		9651	0.031	8	9651	0.026	8	9651	0.057
12:00-13:00	8		9651	0.06	8	9651	0.073	8	9651	0.133
13:00-14:00	8		9651	0.066	8	9651	0.06	8	9651	0.126
14:00-15:00	8		9651	0.031	8	9651	0.049	8	9651	0.08
15:00-16:00	8		9651	0.019	8	9651	0.07	8	9651	0.089
16:00-17:00	8		9651	0.017	8	9651	0.089	8	9651	0.106
17:00-18:00	8		9651	0.018	8	9651	0.246	8	9651	0.264
18:00-19:00	8		9651	0.006	8	9651	0.137	8	9651	0.143
19:00-20:00	1		20129	0	1	20129	0.01	1	20129	0.01
20:00-21:00	1		20129	0	1	20129	0	1	20129	0
21:00-22:00										
22:00-23:00										
23:00-24:00										
Daily Trip Rates:				0.877			0.828			1.705