

Technical Note

Project No: ITB13052
Project Title: Land at New Barn Lane, North Bersted
Title: Transport Statement
Ref: MS/GT/ITB13052
Date: 14 January 2019

SECTION 1 Introduction

1.1 Overview

1.1.1 Linden Homes South has appointed i-Transport to provide transport and highways advice with regard to a planning application for residential development at New Barn Lane, North Bersted. The site already benefits from the following permissions:

- Outline planning permission (*ref: BE/142/15/OUT*) for 90 new homes granted in February 2016. Condition 3 of the outline planning permission requires the site access to be built out in accordance with approved drawings;
- A permitted variation to condition 3 of the outline permission, providing access in a more northerly position on to New Barn Lane was granted in May 2017 (*ref: BE/18/17/PL*); and
- Reserved Matters application (*ref: BE/113/17/RES*) for 90 new homes granted in December 2017 based on the permitted variation to the site access. This was supported by a Transport Statement (TS) (*ref: ITB13052-001 TN*).

1.2 Full Planning Application

1.2.1 Linden Homes propose to submit a full planning application for 99 homes at the site – i.e. 9 more than that which is already permitted. The proposed site layout is illustrated in **Appendix A**. The schedule of accommodation has been revised, with a higher proportion of smaller units and reduced number of larger units. Aside from this, the planning application is identical to the above reserved matters application:

- Access will continue to be provided via the priority junction on New Barn Lane (*ref: ITB13052-GA-001 at Appendix B*);

- Pedestrian access will continue to be provided to footpath 134 in the south eastern and south-western corners of the site;
- The internal streets will be identical to the reserved matters application;
- The internal layout will thus continue to be accessible to a refuse collection vehicle and fire tender, as shown in swept path analysis of the reserved matters application, at **Appendix C**;
- The layout complies with Building Regulations in terms of enabling bins to be collected from points that are within 30m of households and 25m of the refuse collection vehicles; and
- The layout continues to provide cycle parking in accordance with West Sussex County Council's (WSCC) 'Guidance for Parking in Residential Development' by providing:
 - Sheds in accessible gardens at the houses;
 - Cycle stores close to the apartments; and
- A Travel Plan Statement (TPS) will be provided which will be consistent with a TPS previously submitted in respect of the reserved matters application. The TPS has been updated as appropriate and is submitted as a separate planning application document.

1.3 Key Transport Tests

1.3.1 There are three key transport tests for new development (*ref: paragraphs 108 and 109 of the NPPF*):

- Have the opportunities for sustainable travel have been appropriately taken up?
- Will safe and suitable access be provided?
- Will the residual cumulative impact be acceptable, noting that development should only be prevented from coming forward for transport reasons if there will be a 'severe' impact?

1.3.2 Taking each 'test' in turn:

- The Transport Assessment (TA) that supported the outline application demonstrated that the site is in a location that enables the 'take up' of sustainable modes;
- The TS related to the outline application demonstrated that safe and suitable access both into and within the site was achievable; and
- The TA that supported the outline planning application set out the traffic impact of development and found the traffic impact to fall short of the 'severe' level.

1.3.3 WSCC subsequently scrutinised the work and found the development proposal acceptable subject to appropriate conditions and obligations – WSCC raised no objections to the outline or reserved matters application subject to appropriate conditions and obligations.

1.3.4 Therefore, it has already been demonstrated that:

- The site is in a suitable location in transport accessibility terms;
- The permitted access arrangements will be safe and suitable; and
- The traffic impact of 90 homes will be acceptable, and certainly not severe.

1.4 Issues

1.4.1 The full planning application effectively seeks permission for an additional 9 homes above that which is already permitted. The only outstanding transport matters associated with the additional 9 homes are:

- Whether the proposal accords with parking standards, given that the schedule of accommodation has changed; and
- Whether the traffic impact of the additional 9 homes will be acceptable.

1.4.2 These matters are dealt with in this TS, the remainder of which is structured as follows:

- Section 2 provides an updated schedule of accommodation;
- Section 3 demonstrates that the proposal accords with parking provision;
- Section 4 presents the traffic generation of the site with 99 homes and compares this with 90 homes; and
- Section 5 provides a summary and conclusion.

SECTION 2 Schedule of Accommodation

2.1 The proposed site layout plan is included in **Appendix A**. Table 2.1 presents the schedule of accommodation.

Table 2.1: Accommodation Schedule Comparison

Unit Type	Number of Units
Private	
2 bed flat	5
2 bed house	17
3 bed house	38
4 bed house	9
Affordable	
1 bed flat	6
2 bed flat	6
2 bed house	10
3 bed house	8
Total	99

Source; Urban Pulse Design

SECTION 3 Car Parking

3.1 Introduction

3.1.1 This section of the TS demonstrates that the planning application meets relevant parking standards.

3.2 Car Parking

3.2.1 Car parking for the development proposal will be provided in accordance with the following:

- WSCC's Car Parking Demand Calculator¹; and
- The Bersted Neighbourhood Plan 2014-2019.

3.2.2 The WSCC Car Parking Demand Calculator derives the appropriate number of car parking spaces using local car ownership data derived from the Census and allows for *inter-alia*: the size of the dwelling; the type of the dwelling; the number of bedrooms; and the number of allocated spaces.

3.2.3 Policy HDQ8 of the Neighbourhood Plan states:

"Proposals for new development will have adequate onsite parking to meet current and future needs at a minimum rate of two spaces per dwelling unless alternative and accessible car parking arrangements can be made which do not add to on-street congestion. Developments which remove off road parking spaces will not be supported unless alternative provision is made which increases or maintains the number of parking spaces."

3.2.4 The accommodation schedule in Table 2.1 (right hand column) has been applied to the calculator as set out in **Appendix D**. This identifies a requirement for 220 parking spaces – 191 allocated and 29 unallocated/visitor spaces.

3.2.5 The proposed provision of allocated car parking – as shown on the site layout plan in **Appendix A** – is as follows:

¹ Ref: <https://www.westsussex.gov.uk/roads-and-travel/information-for-developers/pre-application-advice-for-roads-and-transport/>

- Private flats: 2 spaces per unit;
- Two bed private houses: 2 spaces per unit;
- Three bed private houses: 2 to 3 spaces per unit;
- Four bed private houses: 3 to 4 spaces per unit;
- One to two bed affordable flats: 1 space per unit; and
- Two to three bed affordable houses: 1 to 2 spaces per unit.

3.2.6 On this basis, 191 allocated parking spaces and 35 unallocated/visitor spaces will be provided, which is slightly above what is required by the WSCC parking calculator. It is also in excess of the two spaces per dwelling set out in Policy HDQ8 of the Neighbourhood Plan.

3.2.7 The overall level of car parking equates to 2.3 spaces per dwelling. In addition, the internal streets have been designed to be sufficiently wide² to accommodate additional occasional ad-hoc parking without obstructing access for refuse, emergency or fire vehicles. The proposed parking provision therefore:

- Accords with WSCC's car parking standards;
- Exceeds the Neighbourhood Plan standards; and
- On this basis, provides more-than-adequate car parking.

3.3 **Summary**

3.3.1 The proposal includes 191 allocated car parking spaces along with 35 unallocated/visitor spaces, which slightly exceeds WSCC's parking standards and also adheres to Policy HDQ8 of the Bersted Local Plan.

² 5m in line with paragraph 6.8.7 of the Manual for Streets.

SECTION 4 Net Traffic Generation

4.1 Introduction

4.1.1 This section sets out the net increase in the traffic generation of 99 homes compared with:

- The permitted traffic generation of the reserved matters application (*ref. ITB13052-001 TN*); and
- The traffic generation of the outline application, as set out in its Transport Assessment (TA).

4.2 Trip Rates

4.2.1 The TRICS database has been interrogated to obtain updated trip rates for the following dwelling types:

- Privately owned houses;
- Houses for rent;
- Privately owned flats; and
- Flats for rent.

4.2.2 The revised trip rates have been derived using the following selection criteria:

- England (excluding Greater London);
- Weekdays;
- Suburban Area and Edge of Town;
- Population within 1 mile: under 50,000; and
- Population within 5 miles: under 500,000.

4.2.3 The trip rates per dwelling are set out in Table 4.1 and the full TRICS outputs are included in **Appendix E**.

Table 4.1: Updated Vehicular Trip Rates Per Dwelling

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Privately Owned House	0.130	0.381	0.511	0.332	0.157	0.489
House for Rent	0.156	0.284	0.440	0.293	0.209	0.502
Privately Owned Flat	0.061	0.235	0.296	0.216	0.094	0.310
Flat for Rent	0.088	0.106	0.194	0.112	0.094	0.206

Source: TRICS

4.3 Traffic Generation : 99 Home Application

- 4.3.1 The rates above have been applied to the 99-home application. The total trip generation is presented in Table 4.2.

Table 4.2: 99 Dwellings Traffic Generation

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Privately Owned House (64 homes)	8	24	32	21	10	31
House for Rent (18 homes)	3	5	8	5	4	9
Privately Owned Flat (5 homes)	0	1	1	1	1	2
Flat for Rent (12 homes)	1	3	4	3	1	4
Total	12	33	45	30	16	46

Source: Schedule of Accommodation

4.4 Traffic Generation: Outline Application

- 4.4.1 The TA that accompanied the permitted outline planning application took a somewhat simplistic (albeit robust) approach to traffic generation. It assumed that all dwellings on the site would be privately owned houses, i.e. it made no allowance for the lesser traffic generation of flats and affordable dwellings. Table 4.3 summarises the peak hour trip generation for the permitted outline application.

Table 4.3: Trip Generation of Permitted Outline Application – 90 Privately Owned Houses

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Traffic Flow (vehicles – 90 homes) Outline Application	14	37	51	33	16	49

Source: Cannon TA, Table 5.2

4.5 Traffic Generation: Reserved Matters Application

- 4.5.1 The TS which accompanied the reserved matters application quantified traffic generation using trip rates that allowed for dwelling type. The resulting traffic flows are set out below while an excerpt from the TS provides further details of the derivation of the trip rates at **Appendix F**.

Table 4.4: Trip Generation of Permitted Reserved Matters Application – 90 Houses

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Total Traffic Flow (vehicles – 90 homes) Permitted Reserved Matters Application	10	29	39	27	14	41

Source: TS (ref: ITB13052-001 TN)

4.6 Net Difference

- 4.6.1 Table 4.5 provides a comparison of the traffic generation of 99 homes with the previously agreed traffic generation of 90 homes.

Table 4.5: Traffic Generation Comparison

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
A. 99 homes	12	33	45	30	16	46
B 90 homes outline application	14	37	51	33	16	49
C. 90 homes reserved matters application.	10	29	39	27	14	41

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
99 homes – 90 home reserved matters application (A-C)	+2	+4	+6	+3	+2	+5
99 homes – 90 homes outline application (A-B)	-2	-4	-6	-3	0	-3

Source: Consultant's Estimates

4.7 Summary

4.7.1 On this basis:

- An additional 9 homes will result in an increase in traffic of up to six vehicle per hour (one vehicle every 10 minutes) compared with the permitted traffic generation presented of the earlier reserved matters application; and
- The 99 homes will generate fewer trips than set out in the TA for the outline application, which made no allowance for the lower trip generation of apartments and affordable homes.

4.7.2 The traffic impact assessment that was undertaken in the TA that accompanied the outline planning application significantly over-estimated traffic impacts. Given that that report concluded that traffic impacts would be acceptable – a conclusion agreed by WSCC and Arun District Council (ADC) – it is clear that the lesser impacts identified by the updated traffic generation exercise for 99 homes will also be acceptable.

SECTION 5 Summary and Conclusions

5.1 Summary

5.1.1 Linden Homes South has appointed i-Transport to provide transport and highways advice with regard to a full planning application for 99 new homes at New Barn Lane, North Bersted. The site already benefits from the following permissions:

- Outline planning permission (*ref: BE/142/15/OUT*) for 90 new homes granted in February 2016. Condition 3 of the outline planning permission requires the site access to be built out in accordance with approved drawings;
- A permitted variation to condition 3 of the outline permission, providing access in a more northerly position on to New Barn Lane was granted in May 2017 (*ref: BE/18/17/PL*); and
- Reserved Matters application (*ref: BE/113/17/RES*) for 90 new homes granted in December 2017 based on the permitted variation to the site access which is located in a more northerly position on to New Barn Lane.

5.1.2 WSCC independently scrutinised the previous planning applications and found them to be acceptable subject to appropriate conditions and obligations. Therefore, having regard to the rests of the NPPF, it has already been established that:

- The site is in a suitable location in transport accessibility terms;
- The permitted access arrangements will be safe and suitable; and
- The traffic impact of the permitted 90 homes will be acceptable, and certainly not severe.

5.1.3 The proposal is identical to the reserved matters application in terms of:

- Vehicle access arrangements;
- Pedestrian access arrangements;
- Internal street layout;
- Refuse collection arrangements; and
- Cycle parking arrangements.

5.1.4 The only outstanding transport matters pertinent to an additional 10 homes are thus:

- Parking provision; and
- Net increase in traffic generation.

5.1.5 The 99-home planning application will provide 191 allocated car parking spaces along with 35 unallocated/visitor spaces, which is actually slightly in excess of WSCC parking standards and also adheres to Policy HDQ8 of the Bersted Local Plan.

5.1.6 The additional 9 homes for which planning application is sought result in an increase in traffic of up to six vehicles per hour (one vehicle every 10 minutes) compared with the permitted traffic generation presented of the earlier reserved matters application.

5.1.7 The 99 homes will generate fewer trips than set out in the TA for the outline application, which made no allowance for the lower trip generation of apartments and affordable homes.

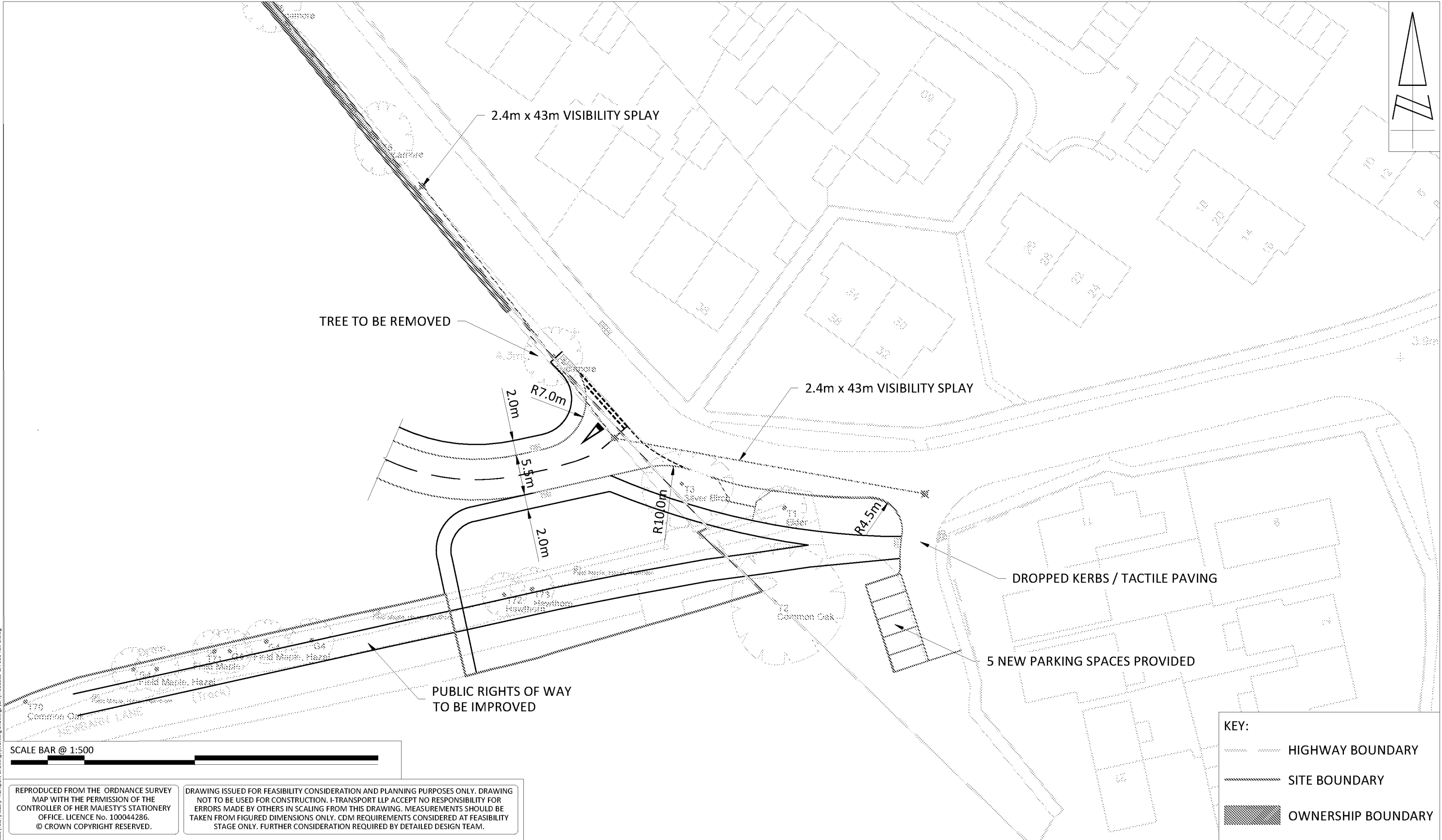
5.1.8 The traffic impact assessment that was undertaken in the TA that accompanied the outline planning application significantly over-estimated traffic impacts. Given that that report concluded that traffic impacts would be acceptable – a conclusion agreed by WSCC and ADC – it is clear that the lesser impacts identified by the updated traffic generation exercise for 99 homes will also be acceptable.

5.2 **Conclusion**

5.2.1 On this basis, the full planning application for 99 homes is acceptable in transport and highways terms.

APPENDIX A. PROPOSED SITE LAYOUT

APPENDIX B. PERMITTED SITE ACCESS ARRANGEMENT



SCALE BAR @ 1:500

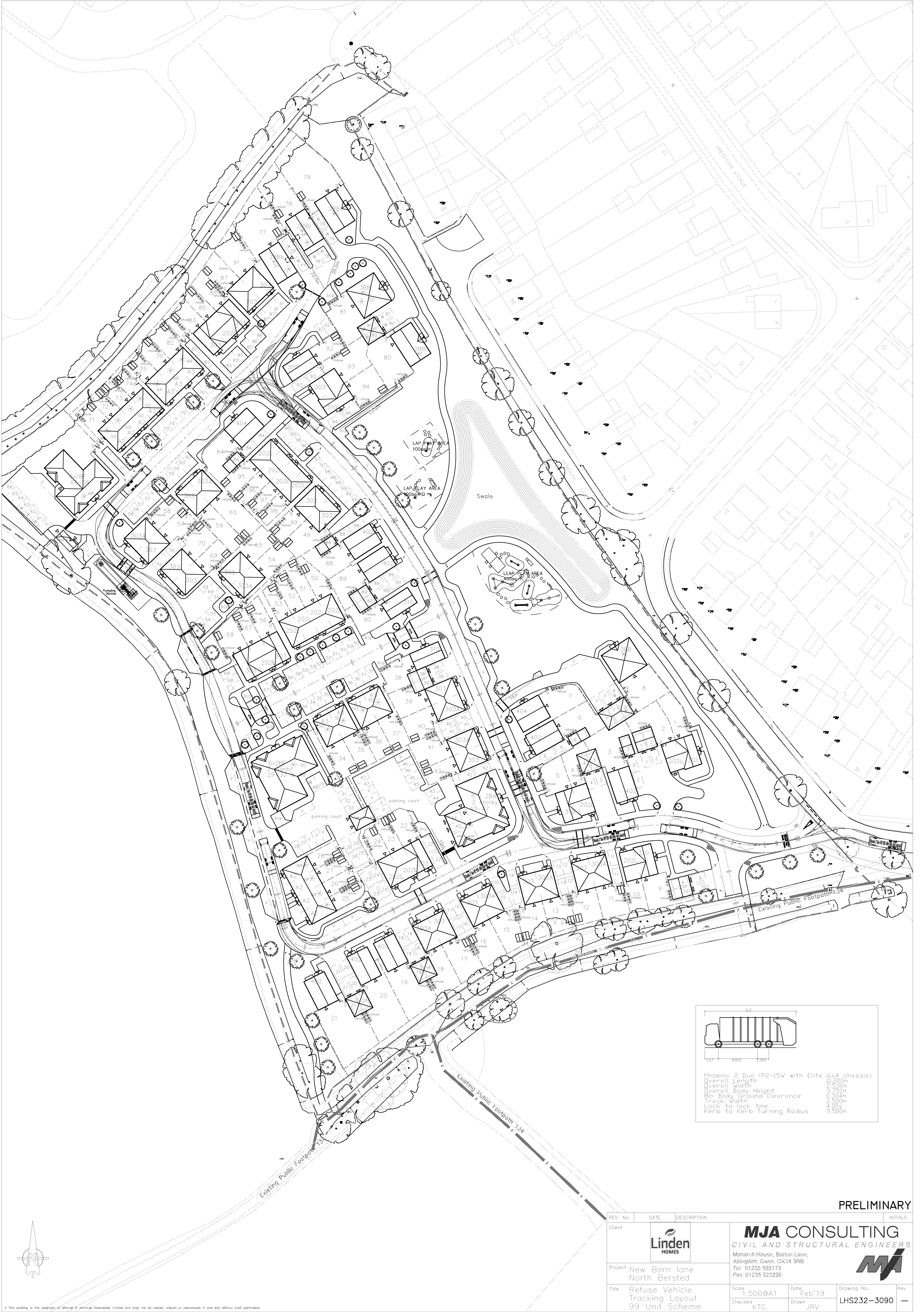
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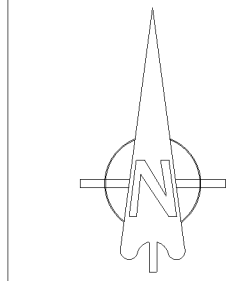
 Grove House, Lutyens Close, Chineham Basingstoke, Hampshire, RG24 8AG www.i-transport.co.uk		Tel: 01256 338640 Fax: 01256 338644		D	11.12.18	JD	SITE LAYOUT REMOVED	MS	JCB	TITLE: PROPOSED SITE ACCESS ARRANGEMENT		SCALE @ A3: 1:500	CHECKED: JCB	APPROVED: MS
				C	23.08.17	MC	SITE LAYOUT UPDATED	MS	JCB			FILE REF: ITB13052	DRAWN: AB	DATE: 01.06.17
				B	14.08.17	AB	SITE LAYOUT UPDATED	MS	JCB			DRAWING No: ITB13052-GA-001		
				A	26.07.17	AB	SITE LAYOUT UPDATED	MS	JCB					
REV	DATE	BY	DESCRIPTION	CHK	APD	PROJECT: NEW BARN LANE, NORTH BERSTED	CLIENT: LINDED HOMES SOUTH							
STATUS: DRAFT														

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APPENDIX C. SWEPT PATH ANALYSIS



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)
Overall Length 11.200m
Overall Width 2.530m
Overall Body Height 5.751m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 9.500m

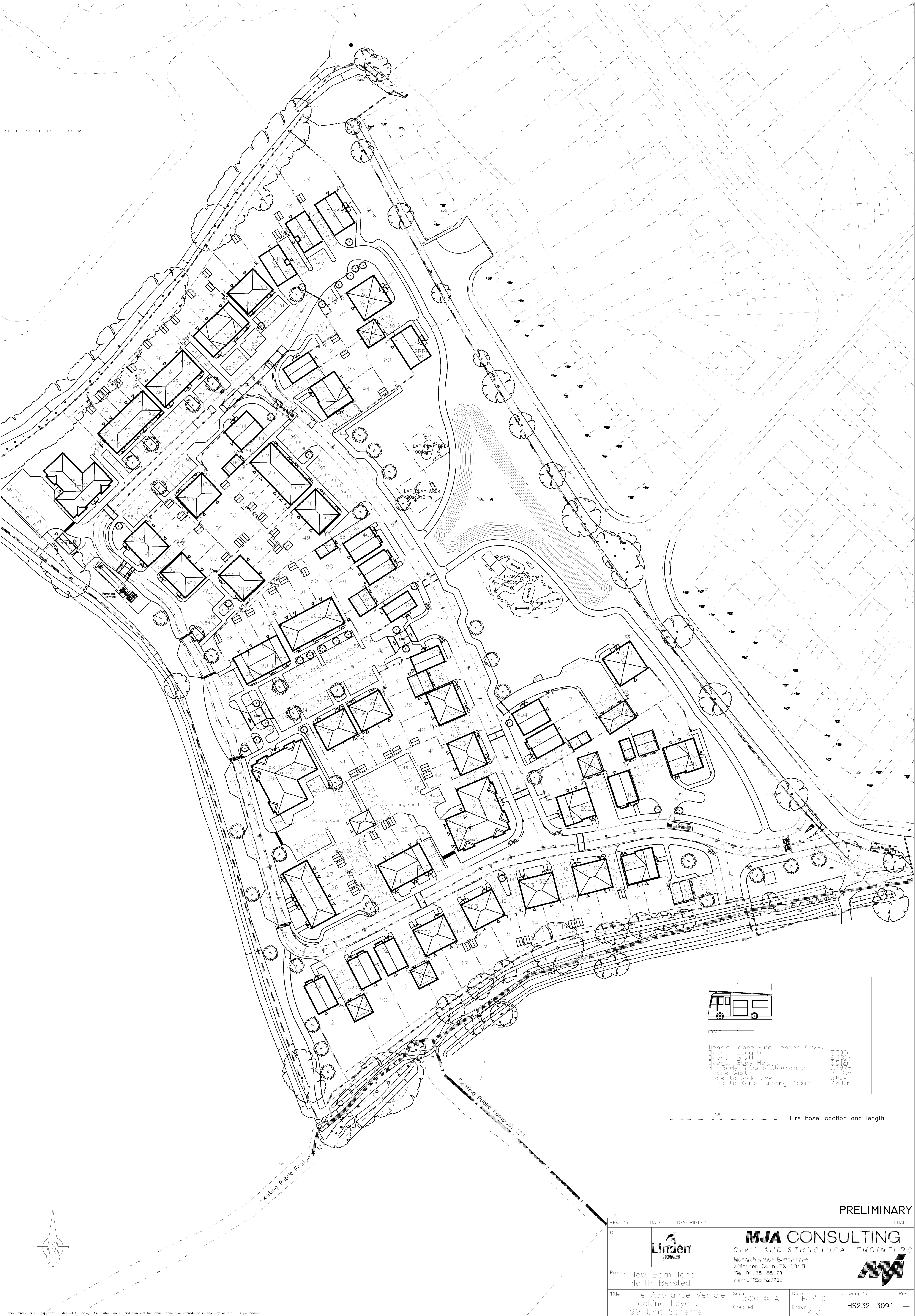


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PRELIMINARY

REV. No.	DATE	DESCRIPTION	INITIALS
Client	MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226		
Project	New Barn lane North Bersted		
Title	Refuse Vehicle Tracking Layout 99 Unit Scheme	Scale 1:500@A1 Checked KTG	Date Feb'19 Drawn JRV
Drawing No.	LHS232-3090	Rev	—

rd Caravan Park



Dennis Sabre Fire Tender (LWB)

Overall Length	7.700m
Overall Width	2.430m
Overall Body Height	3.513m
Min Body Ground Clearance	0.397m
Track Width	2.380m
Lock to lock time	5.00s
Kerb to Kerb Turning Radius	7.400m

Fire hose location and length

PRELIMINARY

REV. No.	DATE	DESCRIPTION	INITIALS
Client			MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226
Project	New Barn lane North Bersted		
Title	Fire Appliance Vehicle Tracking Layout 99 Unit Scheme	Scale 1:500 @ A1 Checked	Date Feb'19 Drawn KTG
Drawing No.	LHS232-3091	Rev	—

APPENDIX D. WSCC CAR PARKING CALCULATOR

This parking demand tool has been compiled by West Sussex County Council. If you have queries relating to the information provided or require additional information please contact darryl.hemmings@westsussex.gov.uk.

Please input the ward name for your development location below by double clicking in the box or click box and use the drop down menu to the right of the box. The spreadsheet will automatically show the District and Ward of this location. If the ward is not known please input postcode into the Ward Finder. The tool will allow input up to 3 wards in the boxes below. Please refer to notes for more details.

Ward 1

Bersted

District

Arun

Ward 2

District

Ward 3

District

Ward Tempro Factor 2009-2026

1.070576

District Tempro Factor 2009-2026

1.067644



west
sussex
county
council

Ward Finder

Postcode	PO21 5DL	Ward	#N/A
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Note:

No special provision need be made for visitors where at least half of the total parking provision associated with a development is unallocated. In other circumstances, it may be appropriate to allow for additional demand for visitor parking of up to 0.2 spaces per dwelling.

In areas of parking constraint, levels of provision below predicted demand may be applicable.

The tool is expressed as number of Rooms (Per Unit). If data is not available in this format and number of Bedrooms is used this will need to be converted. A general guide for conversion is as follows but may differ in some cases.

Houses

1 bed = 3 rooms

2 bed = 4 rooms

3 bed = 5 rooms

4 bed = 6 rooms

5 bed = 7 rooms

Flats

Studio = 1 room

1 bed = 2 rooms

2 bed = 3 rooms

3 bed = 4 rooms

4 bed = 5 rooms

Garages will count as 1 space when allocating spaces.

Ward data used can be checked by the user by referring to the District-Ward Data Tables. The Ward Data Tables highlight if the Census data does not include data for certain dwelling sizes. In such cases car ownership values have been obtained using the nearest sized dwelling with same tenure and ward. For example, if no data is available for a private house with 1 room then data for a private house with 2 rooms has been used. The Car Ownership Data is highlighted in purple where such an approach has been used. Where Census data contains small samples for certain sized dwellings this is highlighted in red if <20, and green if <50 in the Total Demand column. In such cases, other wards should be selected to achieve a higher sample size.

Report Summary Table

DEVELOPMENT MIX				
Ref.	Unit Type	Unit Tenure	Habitable Rooms (Per Unit)	No. of Units (Total)
A	Flats	Private	3	5
B	Houses	Private	4	17
C	Houses	Private	5	37
D	Houses	Private	5	1
E	Houses	Private	5	0
F	Houses	Private	6	8
G	Houses	Private	6	1
H	Flats	Council/Housing Association (not including shared ownership)	2	6
I	Flats	Council/Housing Association (not including shared ownership)	3	6
J	Houses	Council/Housing Association (not including shared ownership)	4	5
K	Houses	Council/Housing Association (not including shared ownership)	4	5
L	Houses	Council/Housing Association (not including shared ownership)	5	8
M				
N				
O				
P				
Q				
R				
S				
Total				99

ALLOCATED PARKING
Spaces (Per Unit)
2
2
2
3+
3+
3+
3+
1
1
2
1
2

PARKING DEMAND					
Allocated No.	Unallocated for Residents		Unallocated for Visitors		Total Demand
	per unit	Total	per unit	Total	
10	0	0	0	1	11
34	0	1	0	3	38
74	0	6	0	7	87
3	0	0	0	0	3
0	0	0	0	0	0
24	0	0	0	2	26
3	0	0	0	0	3
6	0	0	0	1	8
6	0	0	0	1	7
10	0	0	0	1	11
5	0	1	0	1	7
16	0	0	0	2	18
191		8.85		19.80	220

PROJECT
CENTRE
PEOPLE | PASSION | PLACES

APPENDIX E. TRICS OUTPUTS

Calculation Reference: AUDIT-236601-181211-1227

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED

VEHICLESSelected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	3 days
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
	KC KENT	4 days
	SC SURREY	1 days
	WS WEST SUSSEX	4 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	3 days
	SM SOMERSET	1 days
	WL WILTSHIRE	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	2 days
	NF NORFOLK	3 days
	SF SUFFOLK	2 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	2 days
	ST STAFFORDSHIRE	2 days
	WK WARWICKSHIRE	2 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	7 days
	SY SOUTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	2 days
	LC LANCASHIRE	1 days
	MS MERSEYSIDE	1 days
09	NORTH	
	DH DURHAM	1 days
	TW TYNE & WEAR	1 days

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

i-Transport Grove House Basingstoke

Licence No: 236601

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 6 to 805 (units:)
 Range Selected by User: 6 to 4334 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 19/04/18

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	12 days
Tuesday	8 days
Wednesday	11 days
Thursday	10 days
Friday	8 days

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

Selected survey types:

Manual count	49 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	24
Edge of Town	25

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

Selected Location Sub Categories:

Residential Zone	46
No Sub Category	3

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

Secondary Filtering selection:Use Class:

C1	1 days
C3	47 days

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

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	6 days
5,001 to 10,000	10 days
10,001 to 15,000	16 days
15,001 to 20,000	5 days
20,001 to 25,000	6 days
25,001 to 50,000	5 days

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

Secondary Filtering selection (Cont.):Population within 5 miles:

5,001 to 25,000	6 days
25,001 to 50,000	3 days
50,001 to 75,000	7 days
75,001 to 100,000	13 days
100,001 to 125,000	2 days
125,001 to 250,000	12 days
250,001 to 500,000	6 days

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

Car ownership within 5 miles:

0.6 to 1.0	16 days
1.1 to 1.5	33 days

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

Travel Plan:

Yes	6 days
No	43 days

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

PTAL Rating:

No PTAL Present	48 days
2 Poor	1 days

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

i-Transport Grove House Basingstoke

Licence No: 236601

LIST OF SITES relevant to selection parameters

1	CA-03-A-04	DETACHED		CAMBRIDGESHIRE
	PETERBOROUGH			
	THORPE PARK ROAD			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	9		
	Survey date: TUESDAY	18/10/11		Survey Type: MANUAL
2	CA-03-A-05	DETACHED HOUSES		CAMBRIDGESHIRE
	EASTFIELD ROAD			
	PETERBOROUGH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	28		
	Survey date: MONDAY	17/10/16		Survey Type: MANUAL
3	CH-03-A-08	DETACHED		CHESHIRE
	WHITCHURCH ROAD			
	CHESTER			
	BOUGHTON HEATH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	11		
	Survey date: TUESDAY	22/05/12		Survey Type: MANUAL
4	CH-03-A-09	TERRACED HOUSES		CHESHIRE
	GREYSTOKE ROAD			
	MACCLESFIELD			
	HURDSFIELD			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	24		
	Survey date: MONDAY	24/11/14		Survey Type: MANUAL
5	DC-03-A-08	BUNGALOWS		DORSET
	HURSTDENE ROAD			
	BOURNEMOUTH			
	CASTLE LANE WEST			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	28		
	Survey date: MONDAY	24/03/14		Survey Type: MANUAL
6	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	50		
	Survey date: TUESDAY	28/03/17		Survey Type: MANUAL
7	DV-03-A-01	TERRACED HOUSES		DEVON
	BRONSHILL ROAD			
	TORQUAY			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	37		
	Survey date: WEDNESDAY	30/09/15		Survey Type: MANUAL
8	DV-03-A-02	HOUSES & BUNGALOWS		DEVON
	MILLHEAD ROAD			
	HONITON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	116		
	Survey date: FRIDAY	25/09/15		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	DV-03-A-03	TERRACED & SEMI DETACHED	DEVON
	LOWER BRAND LANE		
	HONITON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	70	
	Survey date: MONDAY	28/09/15	Survey Type: MANUAL
10	ES-03-A-02	PRIVATE HOUSING	EAST SUSSEX
	SOUTH COAST ROAD		
	PEACEHAVEN		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	37	
	Survey date: FRIDAY	18/11/11	Survey Type: MANUAL
11	ES-03-A-03	MIXED HOUSES & FLATS	EAST SUSSEX
	SHEPHAM LANE		
	POLEGATE		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	212	
	Survey date: MONDAY	11/07/16	Survey Type: MANUAL
12	ES-03-A-04	MIXED HOUSES & FLATS	EAST SUSSEX
	NEW LYDD ROAD		
	CAMBER		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	134	
	Survey date: FRIDAY	15/07/16	Survey Type: MANUAL
13	EX-03-A-02	DETACHED & SEMI-DETACHED	ESSEX
	MANOR ROAD		
	CHIGWELL		
	GRANGE HILL		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	97	
	Survey date: MONDAY	27/11/17	Survey Type: MANUAL
14	HC-03-A-19	HOUSES & FLATS	HAMPSHIRE
	CANADA WAY		
	LIPHOOK		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	62	
	Survey date: MONDAY	27/11/17	Survey Type: MANUAL
15	KC-03-A-03	MIXED HOUSES & FLATS	KENT
	HYPHE ROAD		
	ASHFORD		
	WILLESBOROUGH		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	51	
	Survey date: THURSDAY	14/07/16	Survey Type: MANUAL
16	KC-03-A-04	SEMI-DETACHED & TERRACED	KENT
	KILN BARN ROAD		
	AYLESFORD		
	DITTON		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	110	
	Survey date: FRIDAY	22/09/17	Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

17	KC-03-A-06	MIXED HOUSES & FLATS	KENT
	MARGATE ROAD HERNE BAY		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	363	
	Survey date: WEDNESDAY	27/09/17	Survey Type: MANUAL
18	KC-03-A-07	MIXED HOUSES	KENT
	RECVLVER ROAD HERNE BAY		
	Edge of Town Residential Zone		
	Total Number of dwellings:	288	
	Survey date: WEDNESDAY	27/09/17	Survey Type: MANUAL
19	LC-03-A-31	DETACHED HOUSES	LANCASHIRE
	GREENSIDE PRESTON COTTAM		
	Edge of Town Residential Zone		
	Total Number of dwellings:	32	
	Survey date: FRIDAY	17/11/17	Survey Type: MANUAL
20	LN-03-A-03	SEMI DETACHED	LINCOLNSHIRE
	ROOKERY LANE LINCOLN BOULTHAM		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	22	
	Survey date: TUESDAY	18/09/12	Survey Type: MANUAL
21	MS-03-A-03	DETACHED	MERSEYSIDE
	BEMPTON ROAD LIVERPOOL OTTERSPOOL		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	15	
	Survey date: FRIDAY	21/06/13	Survey Type: MANUAL
22	NE-03-A-02	SEMI DETACHED & DETACHED	NORTH EAST LINCOLNSHIRE
	HANOVER WALK SCUNTHORPE		
	Edge of Town No Sub Category		
	Total Number of dwellings:	432	
	Survey date: MONDAY	12/05/14	Survey Type: MANUAL
23	NF-03-A-01	SEMI DET. & BUNGALOWS	NORFOLK
	YARMOUTH ROAD CAISTER-ON-SEA		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	27	
	Survey date: TUESDAY	16/10/12	Survey Type: MANUAL
24	NF-03-A-02	HOUSES & FLATS	NORFOLK
	DEREHAM ROAD NORWICH		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	98	
	Survey date: MONDAY	22/10/12	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

25	NF-03-A-03	DETACHED HOUSES	NORFOLK
	HALING WAY		
	THETFORD		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	10	
	Survey date: WEDNESDAY	16/09/15	Survey Type: MANUAL
26	NY-03-A-06	BUNGALOWS & SEMI DET.	NORTH YORKSHIRE
	HORSEFAIR		
	BOROUGHBRIDGE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	115	
	Survey date: FRIDAY	14/10/11	Survey Type: MANUAL
27	NY-03-A-07	DETACHED & SEMI DET.	NORTH YORKSHIRE
	CRAVEN WAY		
	BOROUGHBRIDGE		
	Edge of Town		
	No Sub Category		
	Total Number of dwellings:	23	
	Survey date: TUESDAY	18/10/11	Survey Type: MANUAL
28	NY-03-A-08	TERRACED HOUSES	NORTH YORKSHIRE
	NICHOLAS STREET		
	YORK		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	21	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL
29	NY-03-A-09	MIXED HOUSING	NORTH YORKSHIRE
	GRAMMAR SCHOOL LANE		
	NORTHALLERTON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	52	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL
30	NY-03-A-10	HOUSES AND FLATS	NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD		
	RIPON		
	Edge of Town		
	No Sub Category		
	Total Number of dwellings:	71	
	Survey date: TUESDAY	17/09/13	Survey Type: MANUAL
31	NY-03-A-11	PRIVATE HOUSING	NORTH YORKSHIRE
	HORSEFAIR		
	BOROUGHBRIDGE		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	23	
	Survey date: WEDNESDAY	18/09/13	Survey Type: MANUAL
32	NY-03-A-13	TERRACED HOUSES	NORTH YORKSHIRE
	CATTERICK ROAD		
	CATTERICK GARRISON		
	OLD HOSPITAL COMPOUND		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	10	
	Survey date: WEDNESDAY	10/05/17	Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

33	SC-03-A-04 HIGH ROAD BYFLEET	DETACHED & TERRACED	SURREY
	Edge of Town Residential Zone Total Number of dwellings: 71 Survey date: THURSDAY 23/01/14		Survey Type: MANUAL
34	SF-03-A-04 NORMANSTON DRIVE LOWESTOFT	DETACHED & BUNGALOWS	SUFFOLK
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 7 Survey date: TUESDAY 23/10/12		Survey Type: MANUAL
35	SF-03-A-05 VALE LANE BURY ST EDMUNDS	DETACHED HOUSES	SUFFOLK
	Edge of Town Residential Zone Total Number of dwellings: 18 Survey date: WEDNESDAY 09/09/15		Survey Type: MANUAL
36	SH-03-A-05 SANDCROFT TELFORD SUTTON HILL	SEMI-DETACHED/ TERRACED	SHROPSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 54 Survey date: THURSDAY 24/10/13		Survey Type: MANUAL
37	SH-03-A-06 ELLESMERE ROAD SHREWSBURY	BUNGALOWS	SHROPSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 16 Survey date: THURSDAY 22/05/14		Survey Type: MANUAL
38	SM-03-A-01 WEMBDON ROAD BRIDGWATER NORTHFIELD	DETACHED & SEMI	SOMERSET
	Edge of Town Residential Zone Total Number of dwellings: 33 Survey date: THURSDAY 24/09/15		Survey Type: MANUAL
39	ST-03-A-07 BEACONSIDE STAFFORD MARSTON GATE	DETACHED & SEMI-DETACHED	STAFFORDSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 248 Survey date: WEDNESDAY 22/11/17		Survey Type: MANUAL
40	ST-03-A-08 SILKMORE CRESCENT STAFFORD MEADOWCROFT PARK	DETACHED HOUSES	STAFFORDSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 26 Survey date: WEDNESDAY 22/11/17		Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

41	SY-03-A-01	SEMI DETACHED HOUSES	SOUTH YORKSHIRE
	A19 BENTLEY ROAD DONCASTER BENTLEY RISE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:	54	
	Survey date: WEDNESDAY	18/09/13	Survey Type: MANUAL
42	TW-03-A-02	SEMI-DETACHED	TYNE & WEAR
	WEST PARK ROAD GATESHEAD Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:	16	
	Survey date: MONDAY	07/10/13	Survey Type: MANUAL
43	WK-03-A-01	TERRACED/ SEMI / DET.	WARWICKSHIRE
	ARLINGTON AVENUE LEAMINGTON SPA Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:	6	
	Survey date: FRIDAY	21/10/11	Survey Type: MANUAL
44	WK-03-A-02	BUNGALOWS	WARWICKSHIRE
	NARBERTH WAY COVENTRY POTTERS GREEN Edge of Town Residential Zone Total Number of dwellings:	17	
	Survey date: THURSDAY	17/10/13	Survey Type: MANUAL
45	WL-03-A-02	SEMI DETACHED	WILTSHIRE
	HEADLANDS GROVE SWINDON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:	27	
	Survey date: THURSDAY	22/09/16	Survey Type: MANUAL
46	WS-03-A-04	MIXED HOUSES	WEST SUSSEX
	HILLS FARM LANE HORSHAM BROADBRIDGE HEATH Edge of Town Residential Zone Total Number of dwellings:	151	
	Survey date: THURSDAY	11/12/14	Survey Type: MANUAL
47	WS-03-A-05	TERRACED & FLATS	WEST SUSSEX
	UPPER SHOREHAM ROAD SHOREHAM BY SEA Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:	48	
	Survey date: WEDNESDAY	18/04/12	Survey Type: MANUAL
48	WS-03-A-06	MIXED HOUSES	WEST SUSSEX
	ELLIS ROAD WEST HORSHAM S BROADBRIDGE HEATH Edge of Town Residential Zone Total Number of dwellings:	805	
	Survey date: THURSDAY	02/03/17	Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

49	WS-03-A-08	MIXED HOUSES	WEST SUSSEX
	ROUNDSTONE LANE		
	ANGMERING		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	180	
	Survey date: THURSDAY	19/04/18	Survey Type: MANUAL

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

i-Transport Grove House Basingstoke

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	49	91	0.081	49	91	0.284	49	91	0.365
08:00 - 09:00	49	91	0.130	49	91	0.381	49	91	0.511
09:00 - 10:00	49	91	0.147	49	91	0.167	49	91	0.314
10:00 - 11:00	49	91	0.130	49	91	0.153	49	91	0.283
11:00 - 12:00	49	91	0.141	49	91	0.154	49	91	0.295
12:00 - 13:00	49	91	0.160	49	91	0.153	49	91	0.313
13:00 - 14:00	49	91	0.165	49	91	0.158	49	91	0.323
14:00 - 15:00	49	91	0.162	49	91	0.184	49	91	0.346
15:00 - 16:00	49	91	0.257	49	91	0.180	49	91	0.437
16:00 - 17:00	49	91	0.273	49	91	0.171	49	91	0.444
17:00 - 18:00	49	91	0.332	49	91	0.157	49	91	0.489
18:00 - 19:00	49	91	0.280	49	91	0.175	49	91	0.455
19:00 - 20:00	1	97	0.062	1	97	0.052	1	97	0.114
20:00 - 21:00	1	97	0.031	1	97	0.021	1	97	0.052
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.351			2.390			4.741

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

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

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Parameter summary

Trip rate parameter range selected:	6 - 805 (units:)
Survey date range:	01/01/10 - 19/04/18
Number of weekdays (Monday-Friday):	49
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	2
Surveys manually removed from selection:	0

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

Calculation Reference: AUDIT-236601-170620-0641

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : B - AFFORDABLE/LOCAL AUTHORITY HOUSES

VEHICLESSelected regions and areas:

06 WEST MIDLANDS	
WM WEST MIDLANDS	1 days
07 YORKSHIRE & NORTH LINCOLNSHIRE	
WY WEST YORKSHIRE	2 days
08 NORTH WEST	
CH CHESHIRE	1 days
GM GREATER MANCHESTER	1 days
MS MERSEYSIDE	1 days
09 NORTH	
NB NORTHUMBERLAND	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 16 to 97 (units:)
 Range Selected by User: 14 to 280 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/09 to 21/10/15

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	3 days
Tuesday	2 days
Wednesday	1 days
Thursday	1 days

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

Selected survey types:

Manual count	7 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	2
Edge of Town	5

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

Selected Location Sub Categories:

Residential Zone	5
Built-Up Zone	1
No Sub Category	1

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

Secondary Filtering selection:Use Class:

C3	7 days
----	--------

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

Population within 1 mile:

1,001 to 5,000	1 days
5,001 to 10,000	1 days
10,001 to 15,000	1 days
15,001 to 20,000	2 days
25,001 to 50,000	2 days

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

Population within 5 miles:

5,001 to 25,000	1 days
75,001 to 100,000	2 days
125,001 to 250,000	2 days
250,001 to 500,000	2 days

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

Car ownership within 5 miles:

0.6 to 1.0	6 days
1.1 to 1.5	1 days

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

Travel Plan:

No	7 days
----	--------

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

PTAL Rating:

No PTAL Present	7 days
-----------------	--------

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

LIST OF SITES relevant to selection parameters

1	CH-03-B-01	HOUSES & FLATS	CHESHI RE
	WORDSWORTH CRES.		
	BLACON		
	CHESTER		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	80	
	Survey date: MONDAY	17/11/14	Survey Type: MANUAL
2	GM-03-B-01	TERRACED HOUSES	GREATER MANCHESTER
	NEWBOLD		
	ROCHDALE		
	Suburban Area (PPS6 Out of Centre)		
	No Sub Category		
	Total Number of dwellings:	43	
	Survey date: WEDNESDAY	21/10/15	Survey Type: MANUAL
3	MS-03-B-01	TERRACED	MERSEYSI DE
	TARBOCK ROAD		
	SPEKE		
	LIVERPOOL		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	16	
	Survey date: TUESDAY	18/06/13	Survey Type: MANUAL
4	NB-03-B-01	SEMI DET. & TERRACED	NORTHUMBERLAND
	WESTLEA		
	BEDLINGTON		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	97	
	Survey date: MONDAY	19/11/12	Survey Type: MANUAL
5	WM-03-B-01	SEMI DET./ TERRACED	WEST MI DLANDS
	YORKMINSTER DRIVE		
	CHELMSLEY WOOD		
	BIRMINGHAM		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	97	
	Survey date: MONDAY	17/10/11	Survey Type: MANUAL
6	WY-03-B-02	MIXED HOUSES	WEST YORKSHI RE
	WHITEACRE STREET		
	DEIGHTON		
	HUDDERSFIELD		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	54	
	Survey date: TUESDAY	17/09/13	Survey Type: MANUAL
7	WY-03-B-03	TERRACED HOUSES	WEST YORKSHI RE
	LINCOLN GREEN ROAD		
	LEEDS		
	Suburban Area (PPS6 Out of Centre)		
	Built-Up Zone		
	Total Number of dwellings:	29	
	Survey date: THURSDAY	19/09/13	Survey Type: MANUAL

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

TRIP RATE for Land Use 03 - RESIDENTIAL/B - AFFORDABLE/LOCAL AUTHORITY HOUSES

VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	7	59	0.070	7	59	0.171	7	59	0.241
08:00 - 09:00	7	59	0.156	7	59	0.284	7	59	0.440
09:00 - 10:00	7	59	0.154	7	59	0.216	7	59	0.370
10:00 - 11:00	7	59	0.175	7	59	0.180	7	59	0.355
11:00 - 12:00	7	59	0.166	7	59	0.168	7	59	0.334
12:00 - 13:00	7	59	0.192	7	59	0.154	7	59	0.346
13:00 - 14:00	7	59	0.171	7	59	0.154	7	59	0.325
14:00 - 15:00	7	59	0.212	7	59	0.202	7	59	0.414
15:00 - 16:00	7	59	0.248	7	59	0.212	7	59	0.460
16:00 - 17:00	7	59	0.267	7	59	0.168	7	59	0.435
17:00 - 18:00	7	59	0.293	7	59	0.209	7	59	0.502
18:00 - 19:00	7	59	0.185	7	59	0.142	7	59	0.327
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.289			2.260			4.549

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

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

Parameter summary

Trip rate parameter range selected: 16 - 97 (units:)
 Survey date date range: 01/01/09 - 21/10/15
 Number of weekdays (Monday-Friday): 7
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 0
 Surveys manually removed from selection: 0

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

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : C - FLATS PRIVATELY OWNED

VEHICLESSelected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	HC HAMPSHIRE	1 days
	OX OXFORDSHIRE	1 days
03	SOUTH WEST	
	DC DORSET	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	2 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	NT NOTTINGHAMSHIRE	2 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	RI EAST RIDING OF YORKSHIRE	1 days
09	NORTH	
	CB CUMBRIA	2 days
	TV TEES VALLEY	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 14 to 135 (units:)
 Range Selected by User: 6 to 215 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 05/06/18

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	4 days
Wednesday	5 days
Thursday	1 days
Friday	1 days

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

Selected survey types:

Manual count	13 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	11
Edge of Town	2

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

Selected Location Sub Categories:

Residential Zone	8
No Sub Category	5

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

Secondary Filtering selection:Use Class:

C3 13 days

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

Population within 1 mile:

1,001 to 5,000	4 days
10,001 to 15,000	4 days
20,001 to 25,000	2 days
25,001 to 50,000	2 days
50,001 to 100,000	1 days

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

Population within 5 miles:

5,001 to 25,000	1 days
25,001 to 50,000	1 days
50,001 to 75,000	3 days
100,001 to 125,000	1 days
125,001 to 250,000	3 days
250,001 to 500,000	4 days

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

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	10 days

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

Travel Plan:

No 13 days

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

PTAL Rating:

No PTAL Present 13 days

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

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LIST OF SITES relevant to selection parameters

1	CA-03-C-02	BLOCK OF FLATS		CAMBRIDGESHIRE
	WESTFIELD ROAD			
	PETERBOROUGH			
	NETHERTON			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:	44		
	Survey date: TUESDAY	18/10/11		Survey Type: MANUAL
2	CA-03-C-03	BLOCKS OF FLATS		CAMBRIDGESHIRE
	CROMWELL ROAD			
	CAMBRIDGE			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:	82		
	Survey date: MONDAY	18/09/17		Survey Type: MANUAL
3	CB-03-C-02	BLOCK OF FLATS		CUMBRIA
	BRIDGE LANE			
	PENRITH			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:	35		
	Survey date: WEDNESDAY	11/06/14		Survey Type: MANUAL
4	CB-03-C-03	FLATS & BUNGALOWS		CUMBRIA
	LOUND STREET			
	KENDAL			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	33		
	Survey date: MONDAY	09/06/14		Survey Type: MANUAL
5	DC-03-C-02	FLATS IN BLOCKS		DORSET
	PALM COURT			
	WEYMOUTH			
	SPA ROAD			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	14		
	Survey date: FRIDAY	28/03/14		Survey Type: MANUAL
6	ES-03-C-01	BLOCK OF FLATS		EAST SUSSEX
	OLD SHOREHAM RD			
	BRIGHTON			
	HOVE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	71		
	Survey date: TUESDAY	26/09/17		Survey Type: MANUAL
7	HC-03-C-02	FLATS		HAMPSHIRE
	WORTING ROAD			
	BASINGSTOKE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	16		
	Survey date: THURSDAY	21/10/10		Survey Type: MANUAL
8	NT-03-C-01	HOUSES (SPLIT INTO FLATS)		NOTTINGHAMSHIRE
	LAWRENCE WAY			
	NOTTINGHAM			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:	56		
	Survey date: TUESDAY	08/11/16		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	NT-03-C-02	HOUSES (SPLIT INTO FLATS)	NOTTINGHAMSHIRE
	CASTLE MARINA ROAD		
	NOTTINGHAM		
	Suburban Area (PPS6 Out of Centre)		
	No Sub Category		
	Total Number of dwellings:	135	
	Survey date: WEDNESDAY	09/11/16	Survey Type: MANUAL
10	OX-03-C-01	BLOCK OF FLATS	OXFORDSHIRE
	OXFORD ROAD		
	OXFORD		
	COWLEY		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	14	
	Survey date: WEDNESDAY	20/10/10	Survey Type: MANUAL
11	RI-03-C-01	FLATS	EAST RIDING OF YORKSHIRE
	465 PRIORY ROAD		
	HULL		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	20	
	Survey date: TUESDAY	13/05/14	Survey Type: MANUAL
12	SF-03-C-03	BLOCKS OF FLATS	SUFFOLK
	TOLLGATE LANE		
	BURY ST EDMUNDS		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	30	
	Survey date: WEDNESDAY	03/12/14	Survey Type: MANUAL
13	TV-03-C-02	FLATS	TEES VALLEY
	ACKLAM ROAD		
	MIDDLESBROUGH		
	LINTHORPE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	85	
	Survey date: WEDNESDAY	29/06/11	Survey Type: MANUAL

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

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

VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	13	49	0.061	13	49	0.146	13	49	0.207
08:00 - 09:00	13	49	0.061	13	49	0.235	13	49	0.296
09:00 - 10:00	13	49	0.091	13	49	0.140	13	49	0.231
10:00 - 11:00	13	49	0.079	13	49	0.085	13	49	0.164
11:00 - 12:00	13	49	0.082	13	49	0.080	13	49	0.162
12:00 - 13:00	13	49	0.083	13	49	0.069	13	49	0.152
13:00 - 14:00	13	49	0.077	13	49	0.090	13	49	0.167
14:00 - 15:00	13	49	0.098	13	49	0.102	13	49	0.200
15:00 - 16:00	13	49	0.113	13	49	0.077	13	49	0.190
16:00 - 17:00	13	49	0.104	13	49	0.088	13	49	0.192
17:00 - 18:00	13	49	0.216	13	49	0.094	13	49	0.310
18:00 - 19:00	13	49	0.140	13	49	0.090	13	49	0.230
19:00 - 20:00	2	15	0.333	2	15	0.200	2	15	0.533
20:00 - 21:00	2	15	0.100	2	15	0.033	2	15	0.133
21:00 - 22:00	2	15	0.133	2	15	0.100	2	15	0.233
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.771			1.629			3.400

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

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

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Parameter summary

Trip rate parameter range selected:	14 - 135 (units:)
Survey date range:	01/01/10 - 05/06/18
Number of weekdays (Monday-Friday):	13
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : D - AFFORDABLE/LOCAL AUTHORITY FLATS

VEHICLESSelected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	HC HAMPSHIRE	2 days
	OX OXFORDSHIRE	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	WM WEST MIDLANDS	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	WY WEST YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 6 to 84 (units:)
 Range Selected by User: 6 to 234 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 24/11/15

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	1 days
Thursday	3 days

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

Selected survey types:

Manual count	9 days
Directional ATC Count	0 days

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

Selected Locations:

Suburban Area (PPS6 Out of Centre)	6
Edge of Town	3

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

Selected Location Sub Categories:

Residential Zone	9
------------------	---

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

Secondary Filtering selection:Use Class:

C3 9 days

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

Population within 1 mile:

1,001 to 5,000	2 days
5,001 to 10,000	1 days
15,001 to 20,000	1 days
25,001 to 50,000	4 days
50,001 to 100,000	1 days

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

Population within 5 miles:

5,001 to 25,000	1 days
100,001 to 125,000	1 days
125,001 to 250,000	3 days
250,001 to 500,000	4 days

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

Car ownership within 5 miles:

0.6 to 1.0	6 days
1.1 to 1.5	3 days

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

Travel Plan:

No 9 days

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

PTAL Rating:

No PTAL Present 9 days

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

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Licence No: 236601

LIST OF SITES relevant to selection parameters

1	CH-03-D-01	BLOCK OF FLATS	CHESHIRE
	HEATH LANE		
	CHESTER		
	BOUGHTON HEATH		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	30	
	Survey date: THURSDAY	24/05/12	Survey Type: MANUAL
2	ES-03-D-06	FLATS & HOUSES	EAST SUSSEX
	WELLINGTON ROAD		
	BRIGHTON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	15	
	Survey date: THURSDAY	16/10/14	Survey Type: MANUAL
3	HC-03-D-05	BLOCK OF FLATS	HAMPSHIRE
	WORTING ROAD		
	BASINGSTOKE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	29	
	Survey date: MONDAY	18/10/10	Survey Type: MANUAL
4	HC-03-D-06	BLOCKS OF FLATS	HAMPSHIRE
	HANNAY RISE		
	SOUTHAMPTON		
	THORNHILL		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	66	
	Survey date: TUESDAY	24/11/15	Survey Type: MANUAL
5	LN-03-D-02	FLATS	LINCOLNSHIRE
	ADDISON DRIVE		
	LINCOLN		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	22	
	Survey date: WEDNESDAY	01/07/15	Survey Type: MANUAL
6	NT-03-D-02	BLOCK OF FLATS	NOTTINGHAMSHIRE
	WATCOMBE ROAD		
	NOTTINGHAM		
	CARRINGTON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	22	
	Survey date: TUESDAY	23/06/15	Survey Type: MANUAL
7	OX-03-D-01	FLATS	OXFORDSHIRE
	FAIRLAWN END		
	OXFORD		
	UPPER WOLVERCOTE		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	6	
	Survey date: TUESDAY	05/10/10	Survey Type: MANUAL
8	WM-03-D-02	BLOCKS OF FLATS	WEST MIDLANDS
	BRANCH ROAD		
	BIRMINGHAM		
	KINGS NORTON		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	84	
	Survey date: MONDAY	09/11/15	Survey Type: MANUAL
9	WY-03-D-03	BLOCK OF FLATS	WEST YORKSHIRE
	CARR STREET		
	HECKMONDWIKE		
	LIVERSEDGE		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	56	
	Survey date: THURSDAY	01/05/14	Survey Type: MANUAL

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

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TRIP RATE for Land Use 03 - RESIDENTIAL/D - AFFORDABLE/LOCAL AUTHORITY FLATS

VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	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	9	37	0.036	9	37	0.079	9	37	0.115
08:00 - 09:00	9	37	0.088	9	37	0.106	9	37	0.194
09:00 - 10:00	9	37	0.103	9	37	0.121	9	37	0.224
10:00 - 11:00	9	37	0.121	9	37	0.130	9	37	0.251
11:00 - 12:00	9	37	0.106	9	37	0.109	9	37	0.215
12:00 - 13:00	9	37	0.106	9	37	0.088	9	37	0.194
13:00 - 14:00	9	37	0.118	9	37	0.091	9	37	0.209
14:00 - 15:00	9	37	0.112	9	37	0.164	9	37	0.276
15:00 - 16:00	9	37	0.118	9	37	0.109	9	37	0.227
16:00 - 17:00	9	37	0.152	9	37	0.082	9	37	0.234
17:00 - 18:00	9	37	0.112	9	37	0.094	9	37	0.206
18:00 - 19:00	9	37	0.121	9	37	0.088	9	37	0.209
19:00 - 20:00	2	18	0.114	2	18	0.086	2	18	0.200
20:00 - 21:00	2	18	0.200	2	18	0.200	2	18	0.400
21:00 - 22:00	2	18	0.086	2	18	0.086	2	18	0.172
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.693			1.633			3.326

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

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

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Parameter summary

Trip rate parameter range selected:	6 - 84 (units:)
Survey date range:	01/01/10 - 24/11/15
Number of weekdays (Monday-Friday):	9
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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

APPENDIX F. RESERVE MATTERS APPLICATION EXCERPT

SECTION 2 TRAFFIC IMPACT

2.1 Previously Agreed Trip Generation

2.1.1 The Transport Assessment that accompanied the application identifies the following peak hour two-way traffic generation.

Table 2.1: Trip Generation of Permitted Scheme – 90 Privately Owned Houses

	Weekday Morning Peak Hour (0800-0900 Hours)			Weekday Evening Peak Hour (1700-1800 Hours)		
	In	Out	Two-Way	In	Out	Two-Way
Trip Rate per Dwelling	0.153	0.415	0.568	0.365	0.181	0.546
Traffic Flow (vehicles – 90 homes)	14	37	51	33	16	49

Source: Cannon TA, Table 5.2

2.1.2 The impact of that level traffic generation is acceptable to WSCC and ADC.

2.2 Revised Assessment

2.2.1 The Transport Assessment that accompanied the outline planning application took a somewhat simplistic (albeit robust) approach to traffic generation. It assumed that all dwellings on the site would be privately owned houses, i.e. it made no allowance for the lesser traffic generation of flats and affordable dwellings.

2.2.2 Therefore, an updated traffic generation assessment has been undertaken using the most recent version of TRICS, and separately allows for the following types of dwelling:

- Privately owned houses;
- Houses for rent;
- Privately owned flats; and
- Flats for rent.

2.2.3 The revised trip rates have been derived using the following selection criteria:

- England (excluding Greater London);
- Weekdays;

- Suburban Area and Edge of Town;
- Population within 1 mile: under 25,000
- Population within 5 miles: under 125,000

2.2.4 The trip rates per dwelling are set out in Table 2.2 below. The full TRICS outputs are included in **Appendix D**.

Table 2.2: Updated Vehicular Trip Rates Per Dwelling

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Privately Owned House	0.126	0.365	0.491	0.324	0.160	0.484
House for Rent	0.156	0.284	0.440	0.293	0.209	0.502
Privately Owned Flat	0.077	0.284	0.361	0.307	0.127	0.434
Flat for Rent	0.088	0.114	0.202	0.116	0.093	0.209

Source: TRICS

2.2.5 These rates have been applied to the accommodation schedule for the reserved matters scheme (*ref: Section 3 of this note*) and yield the follow traffic generation:

Table 2.3: Reserved Matters Scheme Traffic Generation

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Privately Owned House (58 homes)	7	21	28	19	9	28
Affordable House (16 homes)	2	5	7	5	3	8
Privately Owned Flat (5 homes)	0	2	2	2	1	3
Affordable Flat (11 homes)	1	1	2	1	1	2
Total	10	29	39	27	14	41

Source: Emerging Schedule of Accommodation

2.3 Net Difference

2.3.1 Comparing the traffic generation set out in the Transport Assessment (*ref: Table 2.1*) with the updated traffic generation assessment (*ref: Table 2.3*) yields the following:

Table 2.4: Traffic Generation Comparison – 90 Dwellings

Land Use	Weekday Morning Peak Hour (0800-0900)			Weekday Evening Peak Hour (1700-1800)		
	In	Out	Two-Way	In	Out	Two-Way
Transport Assessment Traffic Generation	14	37	51	33	16	49
Updated Traffic Generation Assessment for Reserved Matters Scheme	10	29	39	27	14	41
Net Difference	-4	-8	-12	-6	-2	-8

Source: Consultant's Estimates

- 2.3.2 Therefore, the traffic impact assessment that was undertaken in the Transport Assessment that accompanied the outline planning application significantly over-estimated traffic impacts. Given that that report concluded that traffic impacts would be acceptable – a conclusion agreed by WSCC and ADC – it is clear that the lesser impacts identified by the updated traffic generation exercise are similarly acceptable.