

Project Name:	Cinders Lane, Yapton
Document Reference:	125.0003/TN/3
Document Name:	Technical Note
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1. INTRODUCTION

- 1.1 This Transport Note (TN) has been prepared by Paul Basham Associates on behalf of Crayfern Homes to support a reserved matters planning application for a residential development with outline planning permission for 19 units at Cinders Lane, Yapton.
- 1.2 Outline planning permission (Ref: Y/32/17/OUT) was granted in April 2018 with all matters reserved.
- 1.3 Paul Basham Associates previously supported a planning application (Ref: Y/4/19/RES) which was for a reserved matters planning application for a residential development comprising 51 units adjacent to the proposed site. The application was approved in August 2019. The proposed layout for the previous application is included at **Appendix A**.
- 1.4 The site location is shown below in **Figure 1**.



Figure 1: Site Location Plan

- 1.5 The Local Authority for the site is Arun District Council (ADC) and the Highway Authority for the site is West Sussex County Council (WSCC).

2. PROPOSED DEVELOPMENT

- 2.1 The proposed development comprises of the redevelopment of the site into 19 residential dwellings, with access from Cinders Lane. A summary of the proposed accommodation schedule is provided within **Table 1**, whilst the site layout is included as **Appendix B**.

Type of Dwelling	No. of Units
Houses	
2 Bed	1
3 Bed	11
4 Bed	2
Affordable Flats	
1 Bed	3
2 Bed	2
Total	19

Table 1: Proposed Accommodation Schedule

- 2.2 The proposed scheme and the consented scheme for 51 units will be connected via a route located in the south east corner of the consented site. This would allow the movement of vehicles between the two sites.

Parking

- 2.3 The number of parking spaces required to serve the residential dwellings has been informed by the ADC Car Parking Standards Guidance (Adopted January 2020). The proposed site is located in Zone 1 of the Arun District Parking Standards Parking Behaviour Zone (PBZ) which therefore expects the following spaces;

Number of Bedrooms	PBZ Zone 1	Demand
1 Bed	2	6
2 Bed	2	6
3 Bed	2	22
4 Bed	3	6
Total		40

Table 2: WSCC Residential Parking Demand

- 2.4 The ADC Car Parking Standards Guidance therefore states that 40 parking spaces are expected to be provided.

- 2.5 The ADC Car Parking Standards Guidance requires visitor parking to be provided at a ratio of 20% of the total number of residential units. Therefore, the parking standards require eight visitor parking spaces.
- 2.6 It is proposed to provide 37 allocated residents car parking spaces, four houses will be provided with garages (which equates to 0.5 parking spaces per dwelling) and five visitor parking spaces, therefore a total of 44 parking spaces. This equates to a parking rate of 2.31 per dwelling. The previous consented application provided a parking rate of 1.94 spaces per dwelling; therefore, the proposed level of parking is above the previous application.
- 2.7 Swept Path Analysis for the proposed parking spaces has been undertaken as part of this Reserved Matters and is attached as **Appendix C**.

Electric Vehicle Charging Spaces

- 2.8 The Arun District Council Vehicle Infrastructure Study states the new developments are recommended to have;

Houses – One charging point per house with garage or driveway

Flats (>50 units) Further dedicated charging bays totalling 2% of the total provision.

- 2.9 Therefore, one car charging point will be provided to each house, either on the side of the property next to the driveway or in the garage for those with a garage attached to the dwelling.
- 2.10 One car charging point will be provided for the flats, located at the visitor space adjacent to the flat parking. This level of provision accords with the standards identified by ADC.

Cycle Parking

- 2.11 The cycle parking standards in the ADC Parking Standards Guidance requires one space per unit for one and two bed houses, two spaces per unit for houses with three or more bedrooms and one space per unit for communal storage for flats with one and two beds.
- 2.12 The development is providing five cycle parking spaces for the five affordable flats and a mixture of garages and secure garden sheds which will be used by residents and visitors for the houses. This provision is in excess of the required standards to encourage sustainable travel.

Refuse and Servicing

- 2.13 Swept path analysis of both a refuse vehicle and fire tender has been undertaken as part of this application, as provided in **Appendix D** and **Appendix E**, and demonstrates that these vehicles can safely manoeuvre through the site and access within a suitable distance of each plot as required by Manual for Streets (MfS) and Building Regulations allowing for kerbside collection.

Access Arrangements

- 2.14 The proposed development will be accessed from Cinders Lane. As part of the application for 51 dwellings, it was stated that improvements would be made to the access road in order to ensure safe and convenient access is achieved for all highway users.
- 2.15 Widening of Cinders Lane at the junction with the B2132 Bilsham Road to 5.5m and an internal private footway have been approved. A pedestrian crossing point across Cinders Lane with dropped kerbs and tactile paving have also been agreed.
- 2.16 The issue of access to the proposed development has been approved as part of the already permitted outline planning application.
- 2.17 The proposed 19 dwellings will be accessed via a new road which will connect to the existing internal road layout of the development approved under application Y/4/19/RES. The road will be 4.5m wide which is sufficient for two cars to pass and section of 1.2m footway will be provided adjacent to the southern side of the road. At the western end the pedestrians will cross to join the footway provided within the site to the north and at the eastern end a shared surface arrangement is provided.

3. TRIP GENERATION

Proposed Trip Generation

3.1 The trip generation for the proposed site has been calculated using TRICS with the following criteria;

- TRICS (v7.6.4)
- 'Residential', 'Houses Privately Owned' and 'Flats
- Sites in England (Excluding Greater London)
- 6-50 Units
- Weekday Surveys only
- Sites in 'Suburban' and 'Edge of Town' locations only

3.2 The results are demonstrated within **Table 3** with the full TRICS outputs included as **Appendix F**.

TRICS (v.7.6.4)	AM Peak (0800-0900)		PM Peak (1700-1800)		Total Daily Trips
	Arrivals	Departures	Arrivals	Departures	
Trip Rate (Houses Privately Owned)	0.142	0.368	0.332	0.157	4.696
Trip Generation (14 Houses)	2	5	5	2	66
Trip Rates (Affordable Flats)	0.090	0.112	0.146	0.079	2.214
Trip Generation (5 Flats)	0	1	1	0	11
Total Development Trip Generation	2	6	6	2	77

Table 3: Proposed Trip Generation

3.3 **Table 3** demonstrates that the proposed development will generate eight trips in the AM peak, eight trips in the PM peak and 77 trips across a 12-hour period.

- 3.4 The previously accepted trip generation for the consented 51 dwellings has been added to the proposed 19 dwellings to demonstrate the expected number of trips using Cinders Lane, with the results demonstrated in **Table 4**.

TRICS (v.7.6.4)	AM Peak (0800-0900)		PM Peak (1700-1800)		Total Daily Trips
	Arrivals	Departures	Arrivals	Departures	
Trip Generation (19 Units)	2	6	6	2	77
Trip Generation (51 Houses)	7	20	17	9	235
Total	9	26	23	11	312

Table 4: Proposed and Consented Trip Generation

- 3.5 **Table 4** demonstrates that the proposed development and the consented development would generate 35 trips in the AM peak, 34 trips in the PM peak and 312 trips across a 12-hour period.

Highways Impact

The results demonstrate that the proposed development would generate one trip every two minutes during the peak hours which would not have a significant impact on the local road network.

4. SUMMARY AND CONCLUSIONS

- 4.1 This TN has been prepared by Paul Basham Associates of behalf of Crayfern Homes to support a reserved matters planning application for a residential development with outline planning permission for 19 units at Cinders Lane, Yapton.
- 4.2 Outline planning permission (Ref: Y/32/17/OUT) was granted in April 2018 with all matters reserved.
- 4.3 Paul Basham Associates previously supported a planning application (Ref: Y/4/19/RES) to support a reserved matters planning application for a residential development comprising 51 units adjacent to the proposed site. The application was approved in August 2019.
- 4.4 The proposed development is for 19 residential units. 37 parking spaces are provided for residents, four houses will be provided with garages, and five visitor spaces will be provided. Private cycle parking is provided for each house, with communal cycle parking provided for the flats.
- 4.5 The site will be accessed via Cinders Lane, which is to be improved to allow for safe and convenient access for all users.
- 4.6 The proposed development and the consented development are likely to generate a daily vehicle trip generation of 312 movements.
- 4.7 This Transport Note has demonstrated that the proposed development will not have a significant impact of the operation of the local highway network. There is therefore no transport or highways reason why the proposed development should not be permitted.

Appendix A



Accommodation Schedule						
Plot	Type	Bedrooms	No. of Storeys	Tenure	Part M Cat. 2 Compliant	Gross Internal Area sqm
Plot 1	House	3 Bed 5p & Garage	2	Open Market		93.0
Plot 2	House	3 Bed 5p & Garage	2	Open Market		109.0
Plot 3	House	3 Bed 5p	2	Open Market		93.0
Plot 4	House	3 Bed 5p & Garage	2	Open Market		93.0
Plot 5	House	4 Bed 7p & Garage	2	Open Market		133.0
Plot 6	House	4 Bed 7p & Garage	2	Open Market		121.0
Plot 7	House	3 Bed 5p & Garage	2	Open Market		109.0
Plot 8	House	3 Bed 5p	2	Open Market		93.0
Plot 9	House	4 Bed 7p & Garage	2	Open Market		133.0
Plot 10	House	2 Bed 4p	2	Open Market	YES	79.0
Plot 11	House	3 Bed 5p	2	Open Market		93.0
Plot 12	House	3 Bed 5p & Garage	2	Open Market		132.0
Plot 13	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 14	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 15	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 16	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 17	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 18	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 19	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 20	House	3 Bed 5p & Garage	3	Open Market		132.0
Plot 21	Flat	2 Bed 3p	1	Intermediate	YES	68.0
Plot 22	Flat	1 Bed 2p	1	Intermediate	YES	53.0
Plot 23	Flat	2 Bed 3p	1	Intermediate	YES	64.0
Plot 24	Flat	1 Bed 2p	1	Intermediate	YES	51.0
Plot 25	House	3 Bed 5p	2	Open Market		93.0
Plot 26	House	3 Bed 5p	2	Open Market		93.0
Plot 27	House	4 Bed 7p & Garage	2	Open Market		133.0
Plot 28	House	2 Bed 4p	2	Open Market	YES	79.0
Plot 29	House	2 Bed 4p	2	Open Market	YES	79.0
Plot 30	House	3 Bed 5p & Garage	2	Open Market		93.0
Plot 31	House	4 Bed 7p & Garage	2	Open Market		121.0
Plot 32	House	3 Bed 5p & Garage	2	Open Market		108.0
Plot 33	House	3 Bed 5p	2	Open Market		93.0
Plot 34	House	3 Bed 5p	2	Open Market		93.0
Plot 35	House	3 Bed 5p & Garage	2	Open Market		109.0
Plot 36	House	3 Bed 5p & Garage	2	Open Market		109.0
Plot 37	House	2 Bed 4p	2	Rented	YES	79.0
Plot 38	House	2 Bed 4p	2	Rented	YES	79.0
Plot 39	Flat	1 Bed 2p	1	Rented		57.0
Plot 40	Flat	2 Bed 3p	1	Rented		64.0
Plot 41	Flat	2 Bed 3p	1	Rented		64.0
Plot 42	Flat	1 Bed 2p	1	Rented		54.0
Plot 43	Flat	1 Bed 2p	1	Rented		58.0
Plot 44	Flat	1 Bed 2p	1	Rented		52.0
Plot 45	Flat	2 Bed 3p	1	Rented		64.0
Plot 46	Flat	2 Bed 3p	1	Rented		65.0
Plot 47	House	3 Bed 5p & Garage	2	Open Market		93.0
Plot 48	House	3 Bed 5p	2	Open Market		93.0
Plot 49	House	2 Bed 4p	2	Open Market	YES	79.0
Plot 50	House	2 Bed 4p	2	Open Market	YES	79.0
Plot 51	House	2 Bed 4p	2	Open Market	YES	79.0

	Social	Intermediate	Open Market	Total
1 Bed	4	2		6
2 Bed	6	2	6	14
3 Bed		0	26	26
4 Bed			5	5
Total:	10	4	37	51

- KEY
- Application Boundary
 - 6' x 4' Shed - Cycle storage
 - V Visitor parking space
 - TP Tactile paving and corresponding dropped kerb-
 - Retained tree
 - Proposed tree - Refer to landscape design for details
 - Brick boundary wall (all other plots rear boundaries- Timber closeboard fencing)
 - Blockpaving private drives and parking - Charcoal
 - Tarmac- Road
 - Tarmac- Footpath
 - Reinforced Grass - Visitor parking
 - Existing public footpath upgraded to multi-user path

X 1.08.19 Footpath finish changed
W 18.07.19 Tactile paving added to access lane bend as requested by highways
V 18.06.19 Tree removed in South East corner due to drainage layout restrictions and amendments to footpaths and some parking in response to highways officers comments
U 22.05.19 Minor amendments to reflect landscaping plan

Crayfern

HOMES

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SITE LAYOUT | PROPOSED DEVELOPMENT AT:
CINDERS LANE
YAPTON
BN18 0JJ
FOR
CRAYFERN HOMES LIMITED

Scale : 1:500 @ A1 Date : July 2018
Drawing No : 19.14.P101.X

Appendix B

Key

- Ownership boundary
- Planning application boundary
- Forterra block paving laid herringbone pattern. Colour- charcoal
- Tarmac
- Paving - Standard Buff Riven
- Proposed trees
- Visitor parking space
- 6' x 4' shed - Cycle storage

Accommodation Schedule

Plot	Bedrooms	Type	Tenure
1	2	Flat	HA
2	1	Flat	HA
3	2	Flat	HA
4	1	Flat	HA
5	1	Flat	HA
6	3	House	Private
7	3	House	Private
8	3	House & Garage	Private
9	3	House	Private
10	3	House	Private
11	3	House & Garage	Private
12	3	House	Private
13	3	House	Private
14	3	House	Private
15	3	House	Private
16	4	House & Garage	Private
17	4	House & Garage	Private
18	3	House	Private
19	2	House	Private

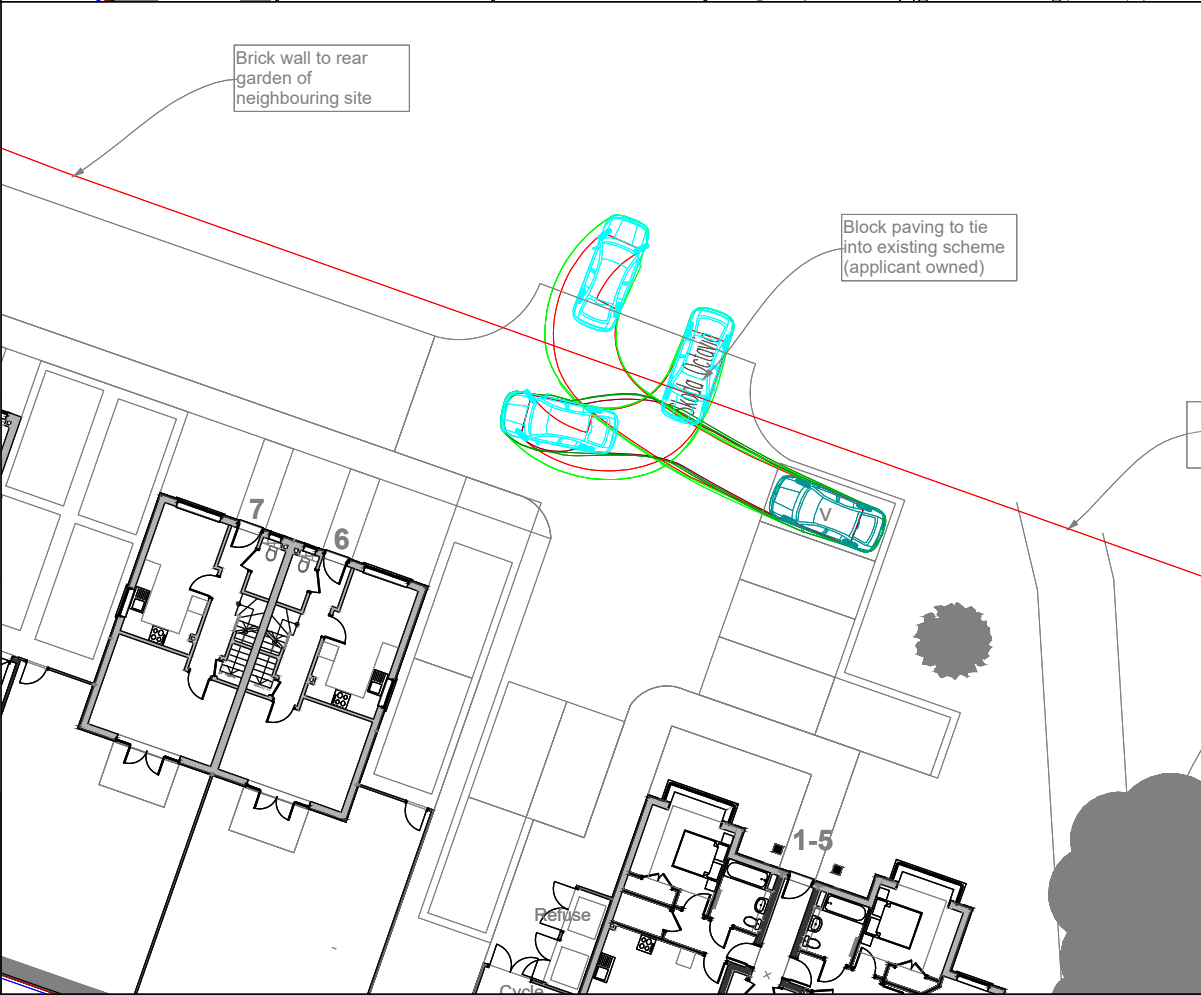
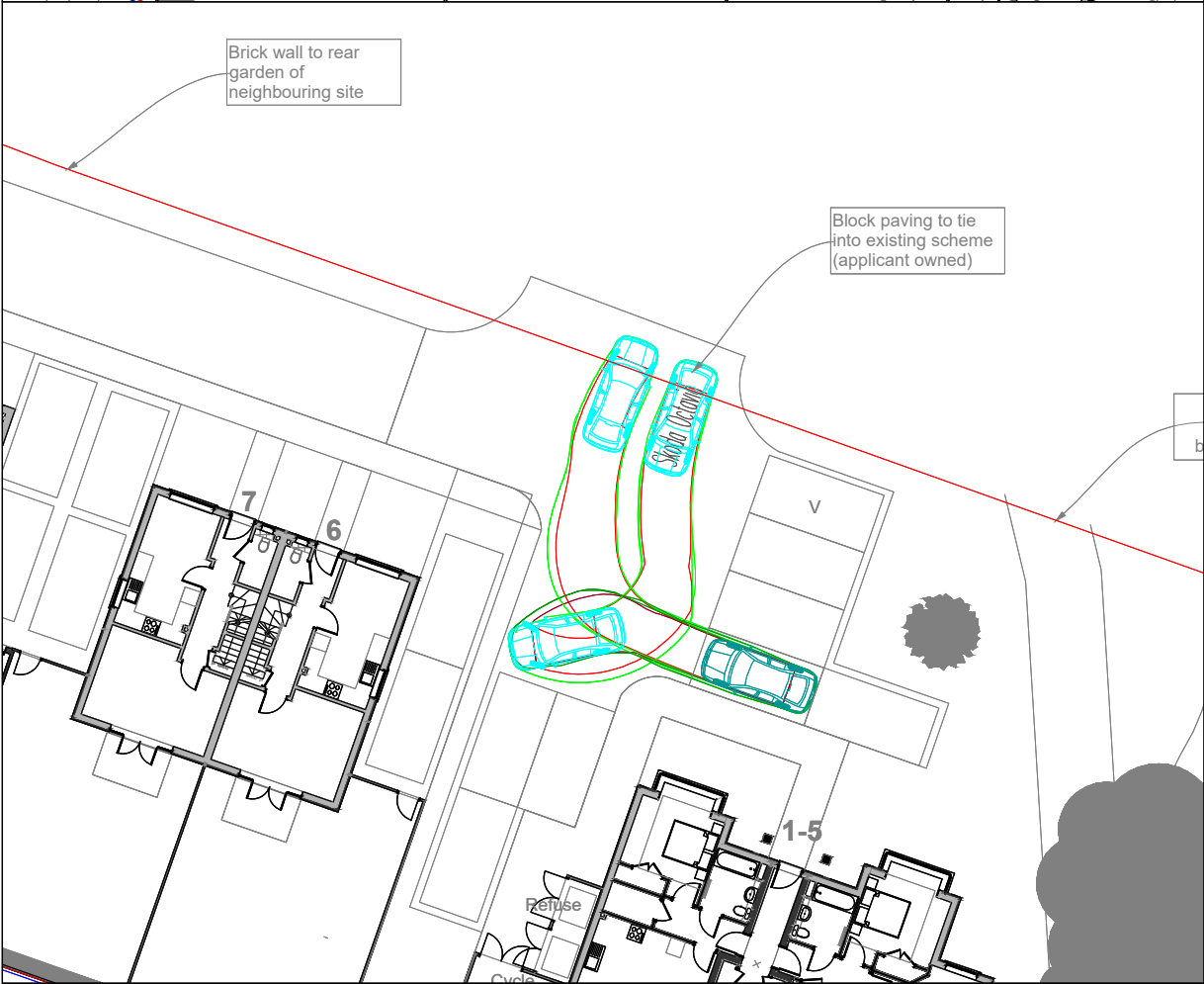
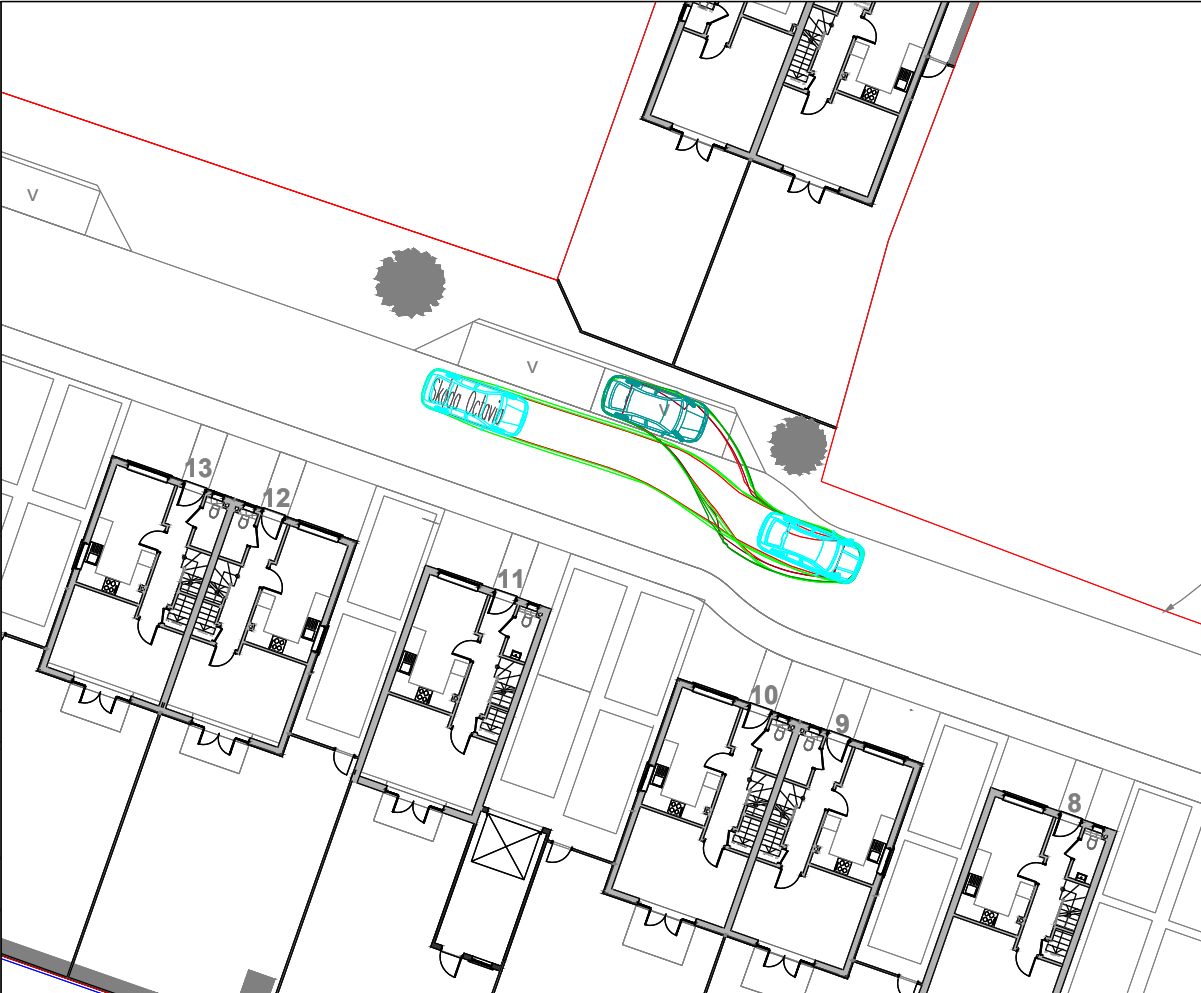
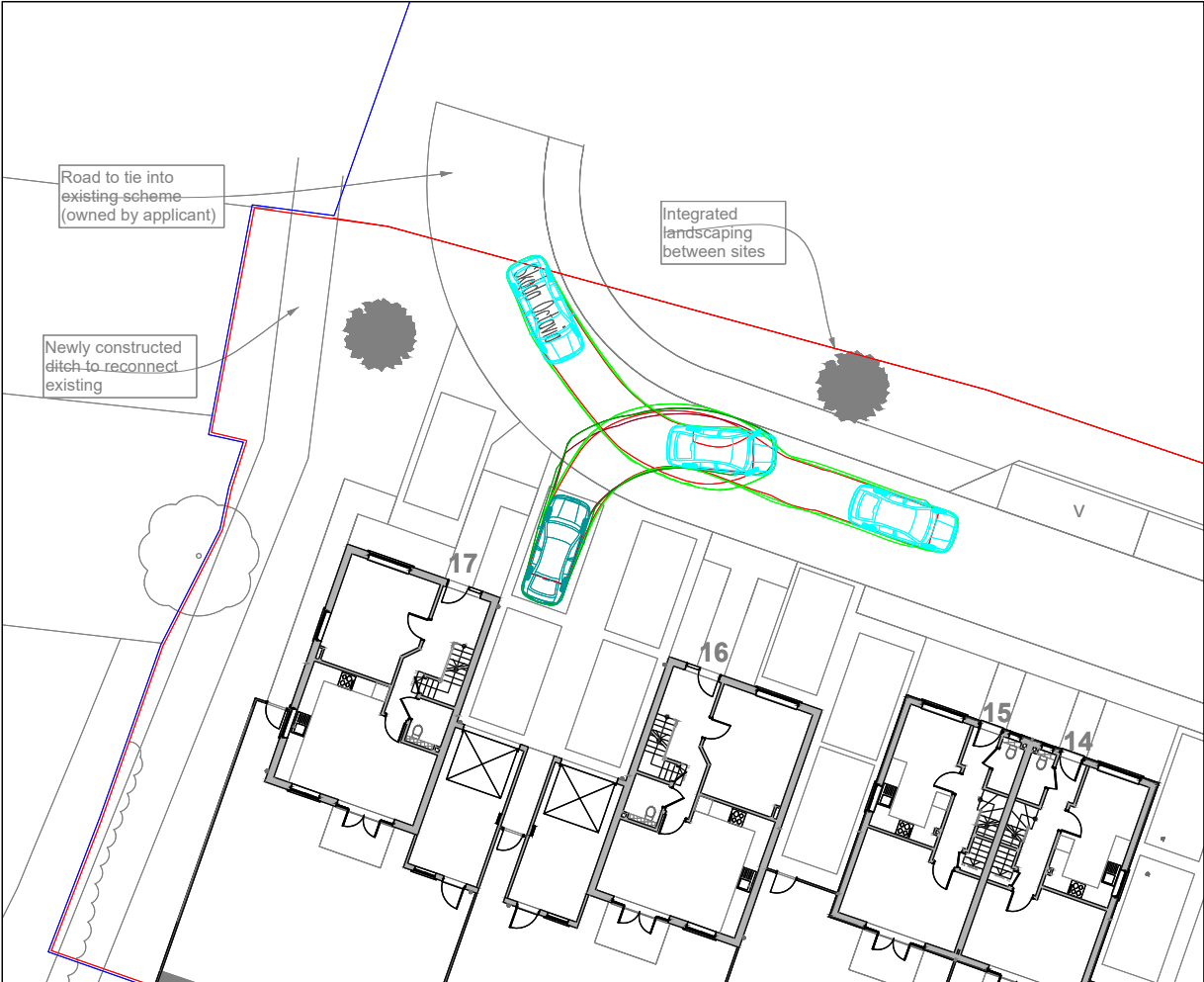


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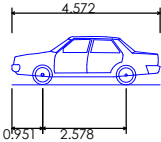
SITE LAYOUT | PROPOSED DEVELOPMENT AT:
Land at Southern end of Cinders Lane
Yapton
BN18 0JJ
FOR
CRAYFERN HOMES LIMITED
Scale : 1:200 @ A1 Date : JAN 20
Drawing No : 97.17.P100 A

Appendix C



GENERAL NOTES

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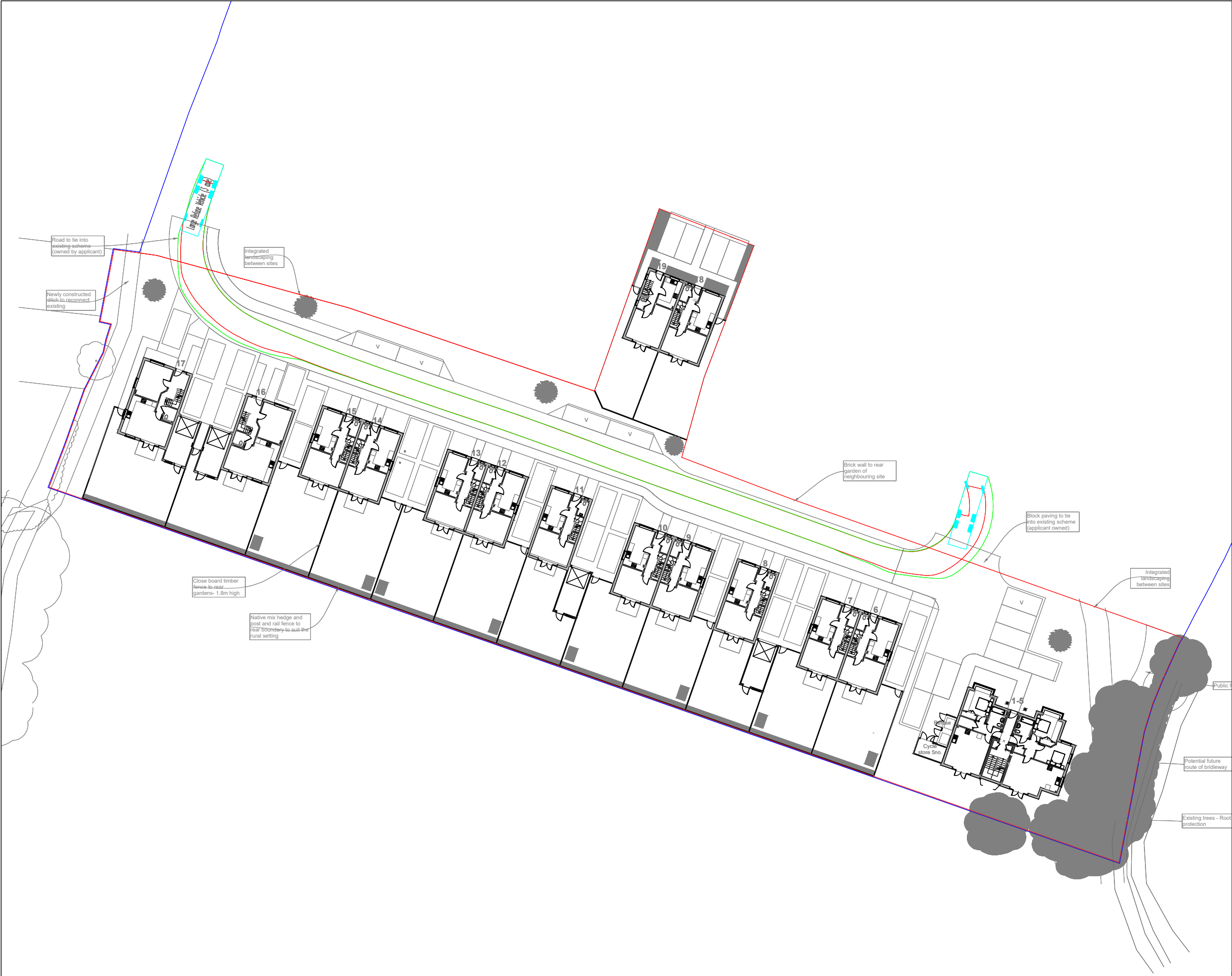


Skoda Octavia
Overall Length 4.572m
Overall Width 1.769m
Overall Body Height 1.488m
Min Body Ground Clearance 0.249m
Max Track Width 1.713m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 5.100m



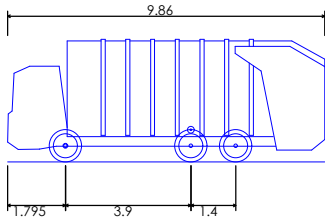
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Project Phase PRELIMINARY					Drawn By AH	Drawn Date 28/01/20	Client Drawing No. -	PBA Drawing No. 125.0003.001	Revision A

Appendix D



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Large Refuse Vehicle (3 axle)
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock to lock time
Kerb to Kerb Turning Radius

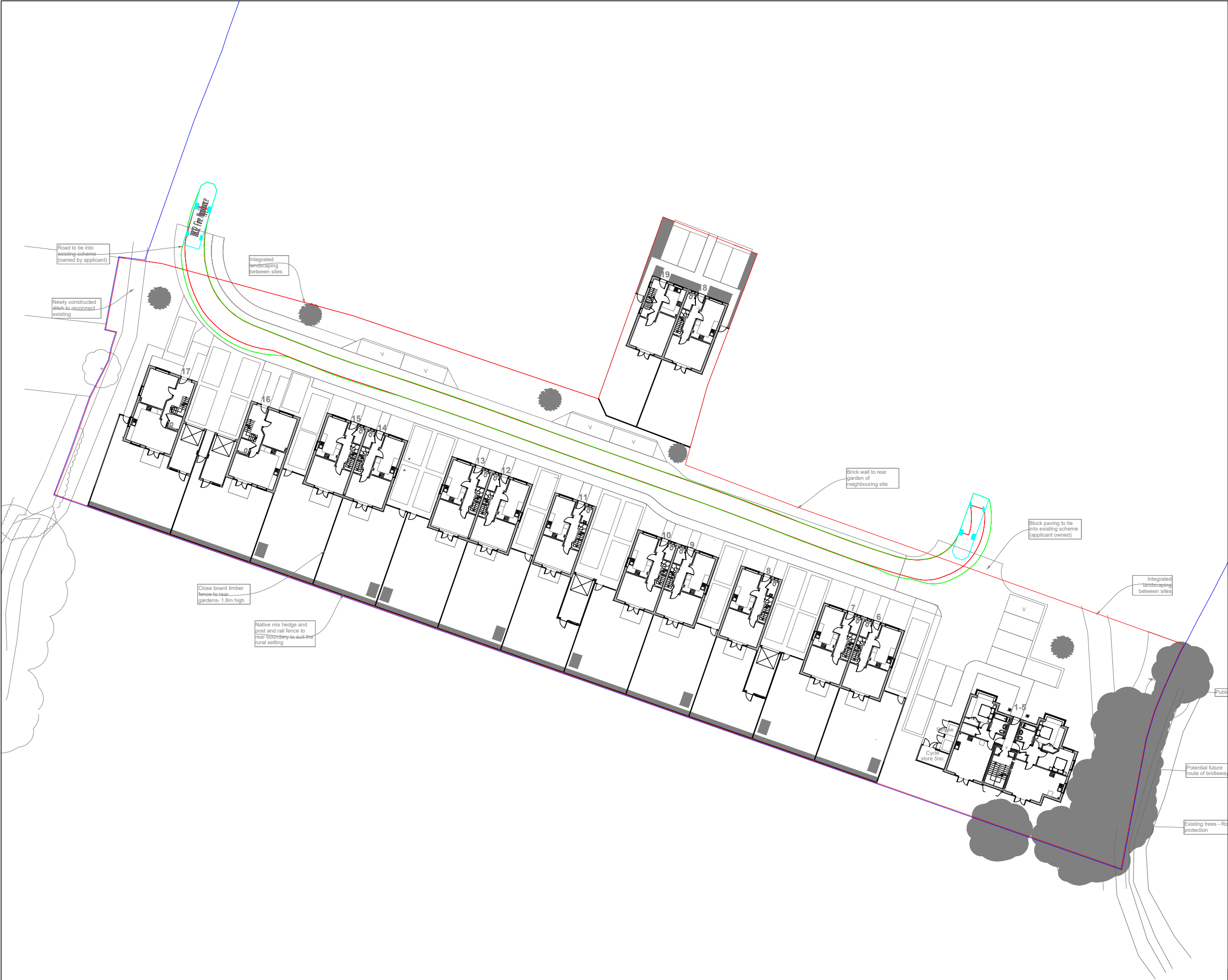
9.860m
2.450m
3.814m
0.366m
2.450m
4.00s
9.500m



1	UPDATED LAYOUT	14.02.20	AH	RH
Rev	Description	Date	By	Chkd

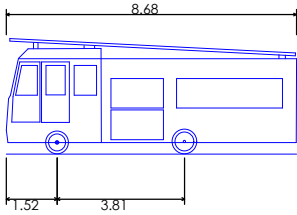
Project Name CINDERS LANE YAPTON	Title REFUSE VEHICLE TRACKING	 Paul Basham Associates Ltd Regus Castlemead, Lower Castle Street, Bristol, BS1 3AG 01179 175810 info@paulbashamassociates.com www.paulbashamassociates.com	 Crayfern HOMES www.crayfernhomes.co.uk	Checked By RH	Checked Date 28/01/20	Scale 1:500 (AT A3 SIZE)		
Project Phase PRELIMINARY				Drawn By AH	Drawn Date 28/01/20	Client Drawing No. -	PBA Drawing No. 125.0003.002	Revision A

Appendix E



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DB32 Fire Appliance
Overall Length 8.680m
Overall Width 2.180m
Overall Body Height 3.452m
Min Body Ground Clearance 0.337m
Max Track Width 2.121m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 7.910m



1	UPDATED LAYOUT	14.02.20	AH	RH
Rev	Description	Date	By	Chkd

Project Name CINDERS LANE YAPTON	Title EMERGENCY VEHICLE TRACKING	 Paul Basham Associates Ltd Regus Castlemead, Lower Castle Street, Bristol, BS1 3AG 01179 175810 info@paulbashamassociates.com www.paulbashamassociates.com	Client  www.crayfernhomes.co.uk	Checked By RH	Checked Date 28/01/20	Scale 1:500	(AT A3 SIZE)		
Project Phase PRELIMINARY				Drawn By AH	Drawn Date 28/01/20	Client Drawing No. -	PBA Drawing No. 125.0003.003	Revision A	

Appendix F

Calculation Reference: AUDIT-247601-200124-0142

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	HC HAMPSHIRE	3 days
	WS WEST SUSSEX	1 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	1 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	1 days
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	3 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	4 days
08	NORTH WEST	
	CH CHESHIRE	4 days
	GM GREATER MANCHESTER	1 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

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 50 (units:)
 Range Selected by User: 6 to 50 (units:)

Parking Spaces Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 25/09/19

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	5 days
Tuesday	9 days
Wednesday	10 days
Thursday	7 days
Friday	4 days

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

Selected survey types:

Manual count	35 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:

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	34
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	35 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	5 days
5,001 to 10,000	8 days
10,001 to 15,000	7 days
15,001 to 20,000	5 days
20,001 to 25,000	5 days
25,001 to 50,000	5 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	3 days
25,001 to 50,000	2 days
50,001 to 75,000	6 days
75,001 to 100,000	7 days
100,001 to 125,000	1 days
125,001 to 250,000	10 days
250,001 to 500,000	5 days
500,001 or More	1 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	14 days
1.1 to 1.5	21 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	8 days
No	27 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	35 days
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This data displays the number of selected surveys with PTAL Ratings.

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	CH-03-A-10	SEMI-DETACHED & TERRACED		CHESHIRE
	MEADOW DRIVE			
	NORTHWICH			
	BARNTON			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	40		
	Survey date: TUESDAY	04/06/19		Survey Type: MANUAL
6	CH-03-A-11	TOWN HOUSES		CHESHIRE
	LONDON ROAD			
	NORTHWICH			
	LEFTWICH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	24		
	Survey date: THURSDAY	06/06/19		Survey Type: MANUAL
7	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
8	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

LIST OF SITES relevant to selection parameters (Cont.)

9	DV-03-A-01 BRONSHILL ROAD TORQUAY	TERRACED HOUSES		DEVON
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 37 Survey date: WEDNESDAY 30/09/15 Survey Type: MANUAL			
10	ES-03-A-02 SOUTH COAST ROAD PEACEHAVEN	PRIVATE HOUSING		EAST SUSSEX
	Edge of Town Residential Zone Total Number of dwellings: 37 Survey date: FRIDAY 18/11/11 Survey Type: MANUAL			
11	GM-03-A-10 BUTT HILL DRIVE MANCHESTER PRESTWICH	DETACHED / SEMI		GREATER MANCHESTER
	Edge of Town Residential Zone Total Number of dwellings: 29 Survey date: WEDNESDAY 12/10/11 Survey Type: MANUAL			
12	HC-03-A-17 CANADA WAY LIPHOOK	HOUSES & FLATS		HAMPSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 36 Survey date: THURSDAY 12/11/15 Survey Type: MANUAL			
13	HC-03-A-21 PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS	TERRACED & SEMI-DETACHED		HAMPSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 39 Survey date: TUESDAY 13/11/18 Survey Type: MANUAL			
14	HC-03-A-22 BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE	MIXED HOUSES		HAMPSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 40 Survey date: WEDNESDAY 31/10/18 Survey Type: MANUAL			
15	LC-03-A-31 GREENSIDE PRESTON COTTAM	DETACHED HOUSES		LANCASHIRE
	Edge of Town Residential Zone Total Number of dwellings: 32 Survey date: FRIDAY 17/11/17 Survey Type: MANUAL			
16	LN-03-A-03 ROOKERY LANE LINCOLN BOULTHAM	SEMI DETACHED		LINCOLNSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 22 Survey date: TUESDAY 18/09/12 Survey Type: MANUAL			
17	MS-03-A-03 BEMPTON ROAD LIVERPOOL OTTERSPOOL	DETACHED		MERSEYSIDE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 15 Survey date: FRIDAY 21/06/13 Survey Type: MANUAL			

LIST OF SITES relevant to selection parameters (Cont.)

18	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
19	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
20	NF-03-A-05	MIXED HOUSES	NORFOLK
	HEATH DRIVE		
	HOLT		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	40	
	Survey date: THURSDAY	19/09/19	Survey Type: MANUAL
21	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
22	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
23	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
24	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
25	SF-03-A-04	DETACHED & BUNGALOWS	SUFFOLK
	NORMANSTON DRIVE		
	LOWESTOFT		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	7	
	Survey date: TUESDAY	23/10/12	Survey Type: MANUAL
26	SF-03-A-05	DETACHED HOUSES	SUFFOLK
	VALE LANE		
	BURY ST EDMUNDS		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	18	
	Survey date: WEDNESDAY	09/09/15	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

27	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
28	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
29	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
30	TW-03-A-02 WEST PARK ROAD GATESHEAD	SEMI-DETACHED		TYNE & WEAR
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		16	
	Survey date: MONDAY		07/10/13	Survey Type: MANUAL
31	WK-03-A-01 ARLINGTON AVENUE LEAMINGTON SPA	TERRACED / SEMI / DET.		WARWICKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		6	
	Survey date: FRIDAY		21/10/11	Survey Type: MANUAL
32	WK-03-A-02 NARBERTH WAY COVENTRY POTTERS GREEN	BUNGALOWS		WARWICKSHIRE
	Edge of Town Residential Zone Total Number of dwellings:		17	
	Survey date: THURSDAY		17/10/13	Survey Type: MANUAL
33	WK-03-A-03 BRESE AVENUE WARWICK GUYS CLIFFE	DETACHED HOUSES		WARWICKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		23	
	Survey date: WEDNESDAY		25/09/19	Survey Type: MANUAL
34	WL-03-A-02 HEADLANDS GROVE SWINDON	SEMI DETACHED		WILTSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		27	
	Survey date: THURSDAY		22/09/16	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

35 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

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/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	35	25	0.075	35	25	0.289	35	25	0.364
08:00 - 09:00	35	25	0.142	35	25	0.368	35	25	0.510
09:00 - 10:00	35	25	0.149	35	25	0.188	35	25	0.337
10:00 - 11:00	35	25	0.154	35	25	0.143	35	25	0.297
11:00 - 12:00	35	25	0.165	35	25	0.177	35	25	0.342
12:00 - 13:00	35	25	0.165	35	25	0.173	35	25	0.338
13:00 - 14:00	35	25	0.173	35	25	0.172	35	25	0.345
14:00 - 15:00	35	25	0.157	35	25	0.206	35	25	0.363
15:00 - 16:00	35	25	0.269	35	25	0.214	35	25	0.483
16:00 - 17:00	35	25	0.296	35	25	0.169	35	25	0.465
17:00 - 18:00	35	25	0.332	35	25	0.157	35	25	0.489
18:00 - 19:00	35	25	0.232	35	25	0.131	35	25	0.363
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.309			2.387			4.696

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 - 50 (units:)
 Survey date range: 01/01/11 - 25/09/19
 Number of weekdays (Monday-Friday): 35
 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.

Calculation Reference: AUDIT-247601-200124-0132

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
	NT NOTTINGHAMSHIRE	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: 15 to 30 (units:)
 Range Selected by User: 6 to 50 (units:)

Parking Spaces Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 19/10/15

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:

Tuesday	1 days
Wednesday	1 days
Thursday	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

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)	4
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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	4
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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

4 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:

15,001 to 20,000

1 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:

100,001 to 125,000

1 days

125,001 to 250,000

1 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

3 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

4 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

4 days

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

LIST OF SITES relevant to selection parameters

1	CH-03-D-01	BLOCK OF FLATS		CESHIRE
	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	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	
4	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	

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/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	4	22	0.079	4	22	0.079	4	22	0.158
08:00 - 09:00	4	22	0.090	4	22	0.112	4	22	0.202
09:00 - 10:00	4	22	0.101	4	22	0.124	4	22	0.225
10:00 - 11:00	4	22	0.124	4	22	0.169	4	22	0.293
11:00 - 12:00	4	22	0.067	4	22	0.056	4	22	0.123
12:00 - 13:00	4	22	0.079	4	22	0.101	4	22	0.180
13:00 - 14:00	4	22	0.112	4	22	0.079	4	22	0.191
14:00 - 15:00	4	22	0.101	4	22	0.079	4	22	0.180
15:00 - 16:00	4	22	0.067	4	22	0.101	4	22	0.168
16:00 - 17:00	4	22	0.112	4	22	0.067	4	22	0.179
17:00 - 18:00	4	22	0.146	4	22	0.079	4	22	0.225
18:00 - 19:00	4	22	0.045	4	22	0.045	4	22	0.090
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.123			1.091			2.214

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: 15 - 30 (units:)
 Survey date range: 01/01/11 - 19/10/15
 Number of weekdays (Monday-Friday): 4
 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.