

Bidwells
C/O Rob Hopwood
via Email



19th December 2019

Dear Sir or Madam,

Land at Shudy Camps, Cambridge

Introduction

EAS has been appointed to provide a transportation review of the above site in order to support its allocation in the South Cambridgeshire Local Plan Review.

Shudy Camps is a village located approximately 20km south east of the centre of Cambridge and near to the borders of both Suffolk and Essex. The site comprises of a circa 1-hectare plot of land located north of Main Street and directly west of New Road on the outskirts of the village. A site boundary plan is enclosed in Appendix A.

Indicative Site Access

Drawing SK01 enclosed in Appendix B shows that a 2.4m x 70m visibility splay can be achieved in line with DMRB parameters for a rural road with a 30mph speed limit. At this point in time the access has been shown with a 5.5m carriageway and 2m footway. This style of highway access would be suitable for upto 100 units, although later herein we describe the impact of just 25 units having assumed this would be appropriate for the indicative developable area.

Some minor earthworks will be completed to achieve a 1:20 gradient for the first 20m of the access road. Levels at the site would need to be confirmed via a site-specific topographic survey at a later date although there is no doubt that this is easily achievable.

An existing footway is present on the south side of Main Street however this ceases for a distance of circa 70m with the footway reappearing on the north side of Main Street near the existing bus stop.

To improve pedestrian connectivity and provide safe pedestrian access to the bus stop, a tactile paving crossing point and footway could be created along the southern boundary of the site. This would allow existing residents to walk safely to the bus stop as well as provide potential new residents with safe pedestrian access from within the site to the bus stop. The indicative footway improvements and informal crossing points are indicated on drawing SK01 in Appendix B.

Local Facilities

There are limited local facilities within the village and therefore further development would improve the viability of future local facilities which in turn would promote sustainability. Likewise, a residential development would improve the viability of existing bus services.

It should be noted however that the existing bus service to Haverhill is readily frequent. Haverhill provides a wide range of town centre facilities and everyday necessities and therefore a resident of a new development in Shudy Camps could provide for everyday living without a personal car journey.

Public Transport

As described, a bus shelter for stop 'Carter's Farm', is located approximately 105m north west of the site boundary along Main Street. The shelter serves the stop for both directions. This stop is served by two routes.

Route 50 Haverhill- Clavering

This service runs Monday to Friday with the first bus arriving at 08:23 with services every hour between 10:50 and 14:50. The last service arrives at 16:38.

A Saturday services runs between 08:30 with only 2 additional services at 12:36 and 16:38. There is no Sunday service.

Route 50 Clavering- Haverhill

This service runs from Monday to Friday with the first service at 07:30 and another at 08:57. The service runs every 2 hours between 10:55 and 14:55 with the last service at 18:01.

On Saturdays there are 3 services at 10:25, 14:20 and 18:10 with no services running on a Sunday.

From Haverhill Bus Station, there are regular additional services to nearby towns of Clare and Kedington.

Route 13B Haverhill- Cambridge

During the AM period, there is a once a day service at 07:08. There is no service on the weekends.

The bus service timetables are enclosed in Appendix D.

Trip Generation

EAS has reviewed the nationally recognised Trip Rate database 'TRICS' to determine an appropriate vehicle trip rate. To be robust, private housing developments in out of town and village locations in South East England and East Anglia were included. The resulting TRICS data output is enclosed in Appendix D and gives the following AM and PM trip rates and subsequent vehicle trips based on 25 dwellings:

	Trip Rate (1 Dwelling)		Vehicle Trips (25 Dwellings)		
	In	Out	In	Out	Total
AM Peak Hour	0.155	0.388	4	10	14
PM Peak Hour	0.345	0.144	9	4	13

Residential Vehicle TRICS trip rates and trip Numbers (allow for rounding)

As can be seen from the above table, the peak hourly flow from the site based on 25 dwellings is no more than 14 AM peak hour vehicle movements and 13 PM peak hour vehicle movements. The number of vehicle trips generated would be imperceptible upon the surrounding highway network.

Summary

EAS has been appointed to provide a transportation review of 'Land at Shudy Camps' in order to support its allocation in the South Cambridgeshire Local Plan Review.

A TRICS assessment for a residential development of approximately 25 units was completed and the resulting AM peak hour and PM peak hour vehicle trips generated are considered to have no detrimental impact. However, the access designed could support a much higher development site in terms of highway and access layout.

There is potential to improve and promote sustainable modes of transport in the village including pedestrian connectivity and bus viability. An indicative highways access layout has been produced and a 2.4m x 70m visibility splay can be achieved in accordance with DMRB design standards a 30mph speed limit in a rural area.

If you have any queries or require any clarification, please do not hesitate to contact me.

Yours Sincerely,

Rose Cargill

Appendix A- Red Line Plan

Appendix B- SK01 Visibility Splay and Indicative Site Access

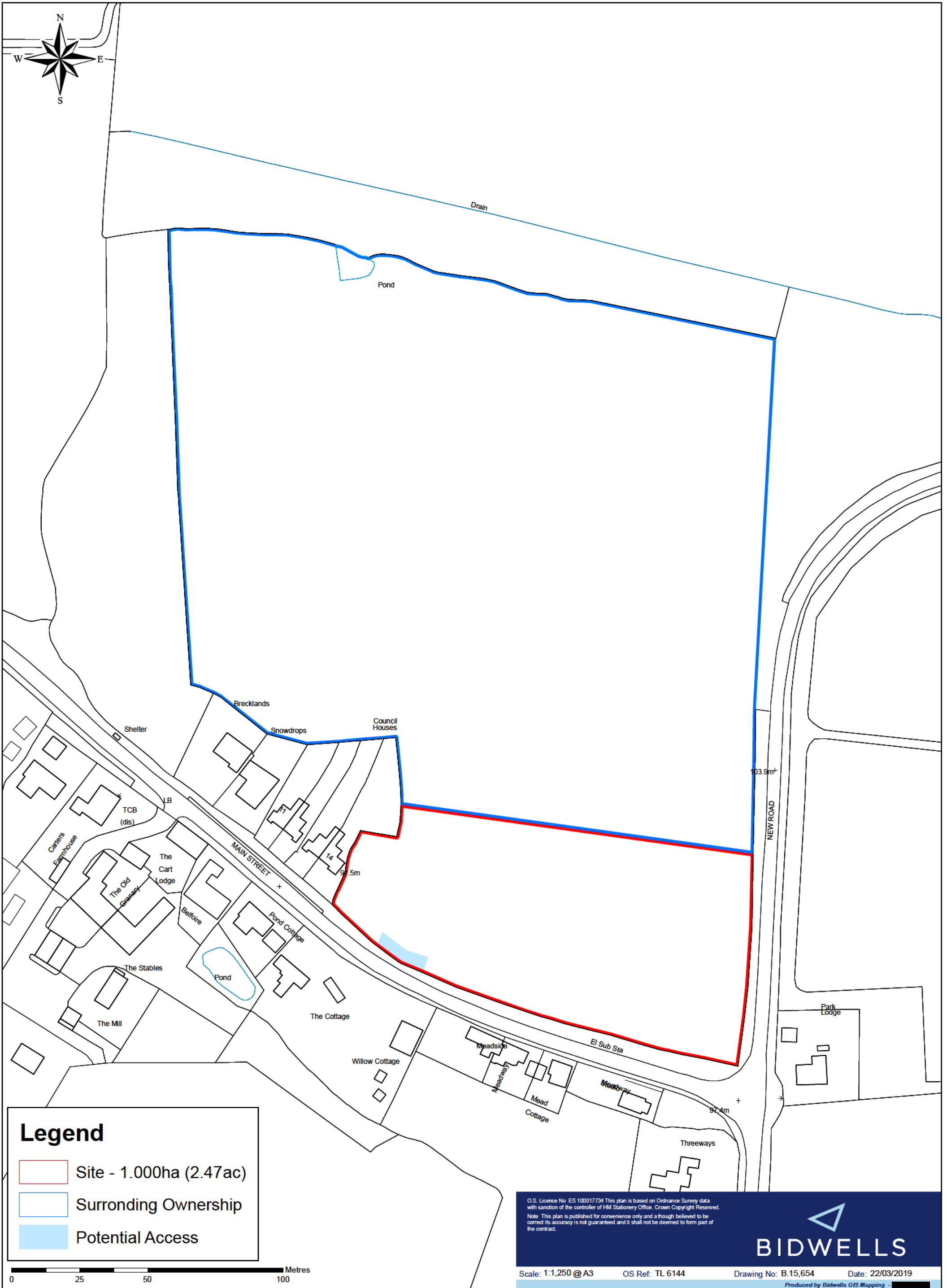
Appendix C- Local Bus Timetable

Appendix D- TRICS Data



Appendix A- Site Boundary Plan

Land at Shudy Camps

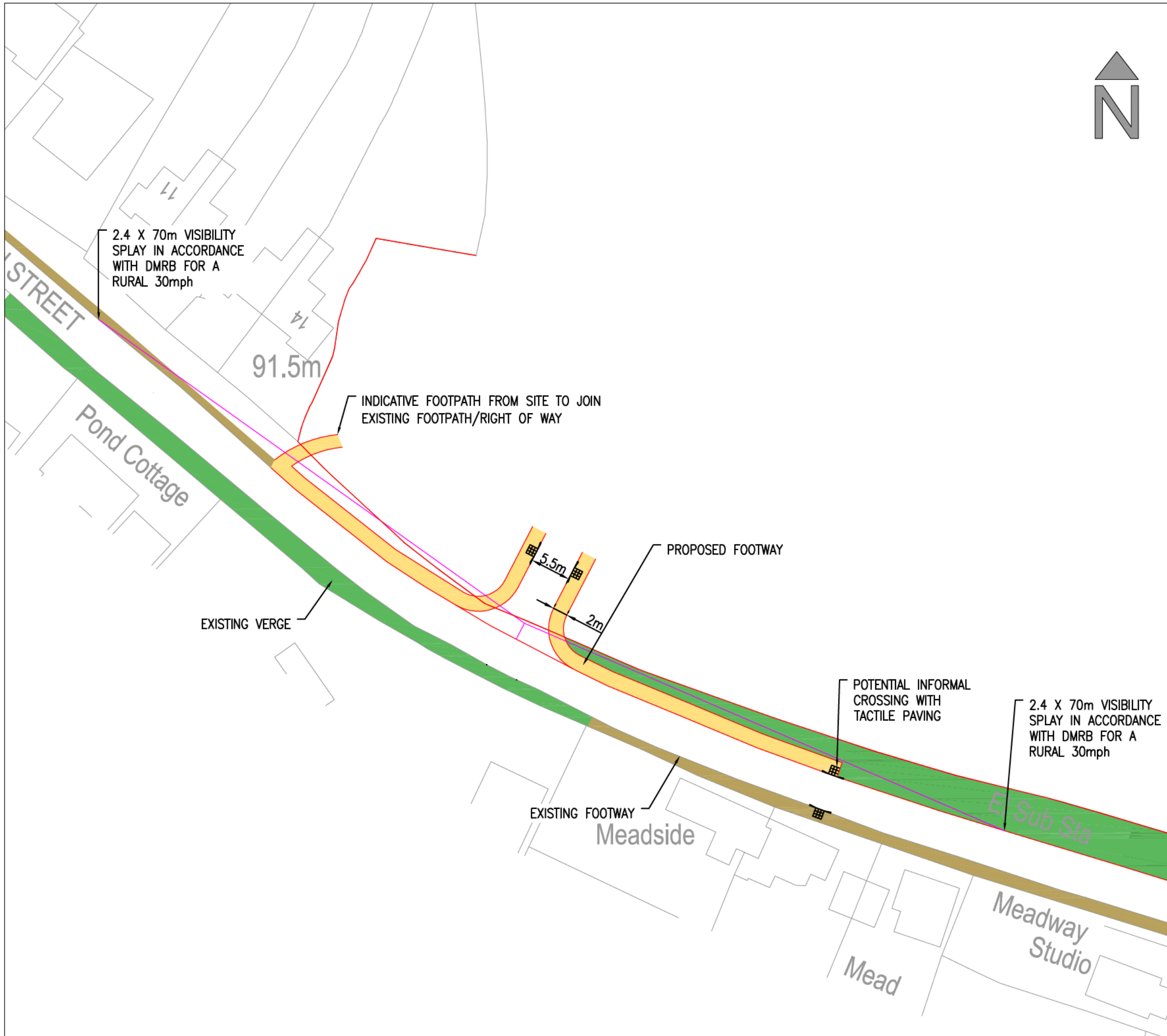


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Appendix B – Highway Access and Footway Improvements



REV	DATE	BY	DESCRIPTION	CHK	APD

DRAWING STATUS:

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CLIENT:

ARCHITECT:

PROJECT:

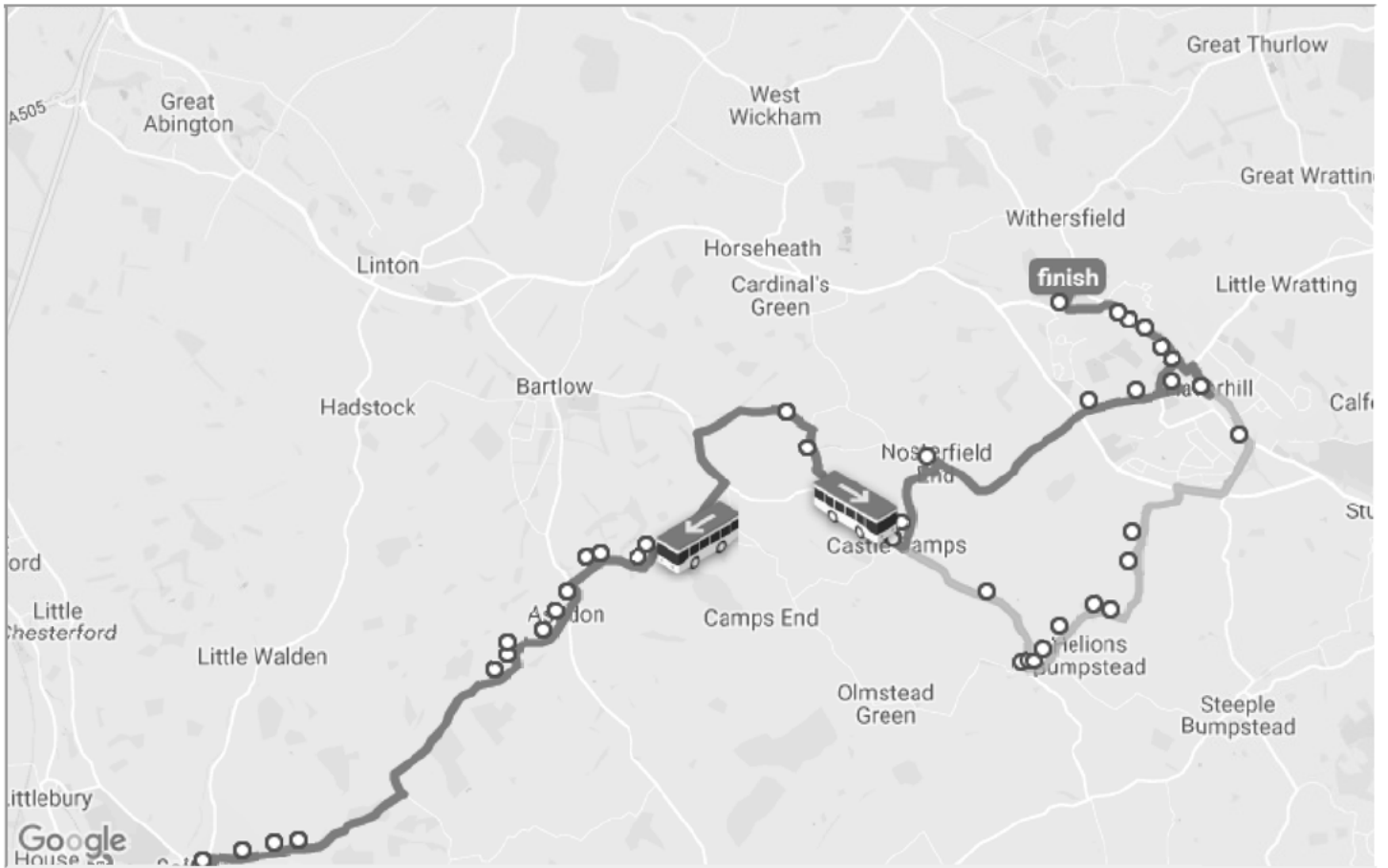
LAND AT SHUDY CAMPS

TITLE:
**VISIBILITY SPLAY AND INDICATIVE
 SITE ACCESS**
5.5m CARRIAGEWAY + 2 x 2M FOOTWAY

SCALE ● A3: 1:500	DESIGN-DRAWN: RC	DATE: 17/12/2019
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PROJECT No: 2546	DRAWING No: SK01
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Appendix C – Bus Timetables



Service 59 Timetable

Monday to Friday - 59 - Haverhill - Ashdon - Saffron Walden - Newport - Clavering

				* NSch	* Sch		
Sainsburys, Haverhill	---	10:20	12:20	14:20	14:20	---	---
Bus Station, Haverhill	08:01	10:28	12:28	14:28	14:28	16:25	---
Steeple Bumpstead Road, Helions Bumpstead	08:13	10:40	12:40	14:40	14:40	---	---
High Street, Castle Camps opp	08:19	10:46	12:46	14:46	14:46	16:34	---
Carter's Farm, Study Camps	08:23	10:50	12:50	14:50	14:50	16:38	---
Rose & Crown, Ashdon	08:32	10:59	12:59	14:59	14:59	16:47	---
Church Street, Saffron Walden	08:41	11:08	13:08	15:08	15:08	16:58	17:25
High Street, Saffron Walden S-bound	08:45	11:12	13:12	15:12	15:12	17:00	17:27
JF Academy, Newport	---	---	---	---	15:21	---	---
Railway Station, Audley End	08:54	11:19	13:19	15:19	---	17:08	17:35

* Not including bank holidays

NSch - Not on schooldays

Sch - chooldays only

Monday to Friday - 59 - Clavering - Newport - Saffron Walden - Ashdon - Haverhill

Railway Station, Audley End	07:02	08:29	10:27	12:27	14:27	17:12	17:40
High Street, Saffron Walden N-bound	07:08	08:35	10:33	12:33	14:33	17:20	17:48
Common Hill, Saffron Walden	07:12	08:39	10:37	12:37	14:37	17:21	17:50
Church Street, Saffron Walden	---	---	---	---	---	17:22	---
Rose & Crown, Ashdon	07:21	08:48	10:46	12:46	14:46	---	18:01
Carter's Farm, Shudy Camps	07:30	08:57	10:55	12:55	14:55	---	18:10
The Manse, Castle Camps	07:34	09:01	---	---	---	---	18:14
High Street, Castle Camps opp	---	---	10:59	12:59	14:59	---	---
Steeple Bumpstead Road, Helions Bumpstead	---	---	11:05	13:05	15:05	---	---
Bus Station, Haverhill	07:44	09:17	11:07	13:07	15:07	---	18:19
Sainsburys, Haverhill	---	09:25	11:25	13:25	15:25	---	---

* Not including bank holidays

Saturday - 59 - Haverhill - Ashdon - Saffron Walden - Newport - Clavering

Bus Station, Haverhill	08:17	12:15	16:25
Steeple Bumpstead Road, Helions Bumpstead	---	12:25	---
High Street, Castle Camps opp	08:26	12:31	16:34
Carter's Farm, Shudy Camps	08:30	12:36	16:38
Rose & Crown, Ashdon	08:39	12:45	16:47
Church Street, Saffron Walden	08:50	12:56	16:58
High Street, Saffron Walden S-bound	08:52	12:58	17:00
Railway Station, Audley End	09:00	13:06	17:08
Poore Street, Wicken Bonhunt	09:13	13:19	---
M & M Supermarket	09:20	13:24	---

* Not including bank holidays

Saturday - 59 - Clavering - Newport - Saffron Walden - Ashdon - Haverhill

M & M Supermarket	09:35	13:30	---
Coach and Horses, Wicken Bonhunt	09:42	13:35	---
Railway Station, Audley End	09:55	13:50	17:40
High Street, Saffron Walden N-bound	10:03	13:58	17:48
Common Hill, Saffron Walden	10:05	14:00	17:50
Rose & Crown, Ashdon	10:16	14:11	18:01
Carter's Farm, Shudy Camps	10:25	14:20	18:10
The Manse, Castle Camps	---	14:24	18:14
High Street, Castle Camps opp	10:29	---	---
Steeple Bumpstead Road, Helions Bumpstead	10:32	---	---
Bus Station, Haverhill	10:38	14:33	18:23

* Not including bank holidays

No service on Sundays, Public Holidays or December 25, 26, January 1.

For additional buses on this corridor, see service 60
(<https://livebuses.bushub.co.uk/StephensonsOfEssex/timetable/60/61765>).

 **13B**

Haverhill - Cambridge

[View In Website Mode](#)

The 13B bus line Haverhill - Cambridge has one route. For regular weekdays, their operation hours are:

(1) Cambridge: 6:50 AM

Use the Moovit App to find the closest 13B bus station near you and find out when is the next 13B bus arriving.

Direction: Cambridge

38 stops

[VIEW LINE SCHEDULE](#)

Mill Hill, Haverhill

Cornwallis Road, Haverhill

Abercorn Court, Haverhill

Gloucester Road, Haverhill

Greenfields Way, Haverhill

Nayland Road, Haverhill

Butley Court, Haverhill

Headland Avenue, Haverhill

Greenfields Way, Haverhill

York Road, Haverhill

Cleves Road, Haverhill

Haverhill Road, Nosterfield End

The Manse, Castle Camps

High Street, Castle Camps Civil Parish

High Street, Castle Camps

Crossways, Castle Camps Civil Parish

St Mary's Church, Shudy Camps

Carter's Farm, Shudy Camps

Little Barham Hall, Bartlow

Ashdon Road, Bartlow Civil Parish

The Ridgeway, Linton

Bakers Lane, Linton

Parsonage Way, Linton

13B bus Time Schedule

Cambridge Route Timetable:

Sunday	Not Operational
Monday	6:50 AM
Tuesday	6:50 AM
Wednesday	6:50 AM
Thursday	6:50 AM
Friday	6:50 AM
Saturday	Not Operational

13B bus Info

Direction: Cambridge

Stops: 38

Trip Duration: 81 min

Line Summary: Mill Hill, Haverhill, Cornwallis Road, Haverhill, Gloucester Road, Haverhill, Nayland Road, Haverhill, Headland Avenue, Haverhill, York Road, Haverhill, Cleves Road, Haverhill, Haverhill Road, Nosterfield End, The Manse, Castle Camps, High Street, Castle Camps, St Mary's Church, Shudy Camps, Carter's Farm, Shudy Camps, Little Barham Hall, Bartlow, The Ridgeway, Linton, Bakers Lane, Linton, Parsonage Way, Linton, Hillway, Linton, High Street, Linton, High Street, Hildersham, High Street, Great Abington, Magna Close, Great Abington, Linton Road, Great Abington, High Street, Little Abington, Cambridge Road, Little Abington, High Street, Babraham, Cambridge Lodge, Babraham, Fort, Wandlebury, Red Cross Lane, Cambridge, Hospital Bus Station, Addenbrooke's (A), Long Road, Cambridge, Perse School, Cambridge, Blinco Grove, Cambridge, Hills Rd 6th Form Col, Cambridge, Botanic Gardens, Cambridge, Hills Road, Cambridge, St Paul's Road, Cambridge, Downing College, Cambridge, Drummer St Bus Station, Cambridge (8)

High Street, Linton

Hillway, Linton

B1052, Linton

High Street, Linton

Cambridge Road, Linton

High Street, Hildersham

High Street, Great Abington

Magna Close, Great Abington

High Street, Great Abington Civil Parish

Linton Road, Great Abington

High Street, Little Abington

Cambridge Road, Little Abington

A1307, Little Abington Civil Parish

High Street, Babraham

Cambridge Lodge, Babraham

Fort, Wandlebury

Red Cross Lane, Cambridge

Hills Road, England

Hospital Bus Station, Addenbrooke's (A)

16 Cedar Court, England

Long Road, Cambridge

288 Hills Road, Cambridge

Perse School, Cambridge

260 Hills Road, Cambridge

Blinco Grove, Cambridge

207 Hills Road, Cambridge

Hills Rd 6th Form Col, Cambridge

143 Hills Road, Cambridge

Botanic Gardens, Cambridge

101 Hills Road, Cambridge

Hills Road, Cambridge

Hills Road, Cambridge

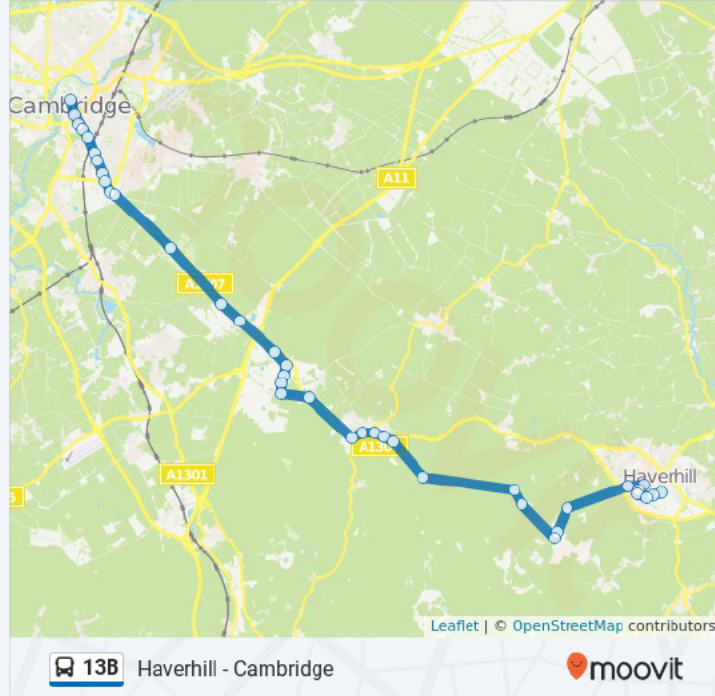
St Paul's Road, Cambridge

22 Hills Road, Cambridge

Downing College, Cambridge

70 Regent Street, Cambridge

Drummer St Bus Station, Cambridge (8)



13B bus time schedules and route maps are available in an offline PDF at moovit.com. Use the [Moovit App](#) to see live bus times, train schedule or subway schedule, and step-by-step directions for all public transit in East Anglia.

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Check Live Arrival Times





Appendix D – TRICS Data

Calculation Reference: AUDIT-743101-160801-0817

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

Selected regions and areas:

02	SOUTH EAST	
	BD BEDFORDSHIRE	1 days
	SC SURREY	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	1 days
	SF SUFFOLK	2 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	WK WARWICKSHIRE	1 days
	WM WEST MIDLANDS	2 days
	WO WORCESTERSHIRE	1 days

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

Filtering Stage 2 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 82 (units:)
 Range Selected by User: 6 to 82 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/10/01 to 23/10/12

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	6 days
Wednesday	2 days
Thursday	1 days
Friday	2 days

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

Selected survey types:

Manual count	11 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
------------------------------------	----

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	11
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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.

Filtering Stage 3 selection:

Use Class:

C3 10 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	2 days
15,001 to 20,000	3 days
20,001 to 25,000	1 days
25,001 to 50,000	3 days

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

Population within 5 miles:

50,001 to 75,000	1 days
75,001 to 100,000	3 days
125,001 to 250,000	5 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:

0.5 or Less	1 days
0.6 to 1.0	6 days
1.1 to 1.5	4 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 11 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.

LIST OF SITES relevant to selection parameters

1	BD-03-A-02	SEMI DETACHED		BEDFORDSHIRE
	RIDDY LANE			
	LUTON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		82	
	Survey date: TUESDAY		06/07/04	Survey Type: MANUAL
2	CA-03-A-04	DETACHED		CAMBRIDGESHIRE
	THORPE PARK ROAD			
	PETERBOROUGH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		9	
	Survey date: TUESDAY		18/10/11	Survey Type: MANUAL
3	LN-03-A-03	SEMI DETACHED		LINCOLNSHIRE
	ROOKERY LANE			
	BOULTHAM			
	LINCOLN			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		22	
	Survey date: TUESDAY		18/09/12	Survey Type: MANUAL
4	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
5	SC-03-A-03	DETACHED		SURREY
	A3050 HURST ROAD			
	HURST PARK			
	EAST MOLESEY			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		54	
	Survey date: TUESDAY		12/11/02	Survey Type: MANUAL
6	SF-03-A-01	SEMI DETACHED		SUFFOLK
	A1156 FELIXSTOWE ROAD			
	RACECOURSE			
	IPSWICH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		77	
	Survey date: WEDNESDAY		23/05/07	Survey Type: MANUAL
7	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
8	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

LIST OF SITES relevant to selection parameters (Cont.)

9	WM-03-A-01	TERRACED		WEST MIDLANDS
	FOLESHILL ROAD			
	FOLESHILL			
	COVENTRY			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		79	
	Survey date: FRIDAY		03/02/06	Survey Type: MANUAL
10	WM-03-A-02	DETACHED & SEMI DET.		WEST MIDLANDS
	HEATH STREET			
	STOURBRIDGE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		12	
	Survey date: WEDNESDAY		26/04/06	Survey Type: MANUAL
11	WO-03-A-01	DETACHED		WORCESTERSHIRE
	MARLBOROUGH AVENUE			
	ASTON FIELDS			
	BROMSGROVE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		10	
	Survey date: THURSDAY		23/06/05	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
 MULTI-MODAL 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	11	35	0.083	11	35	0.317	11	35	0.400
08:00 - 09:00	11	35	0.177	11	35	0.423	11	35	0.600
09:00 - 10:00	11	35	0.179	11	35	0.252	11	35	0.431
10:00 - 11:00	11	35	0.226	11	35	0.270	11	35	0.496
11:00 - 12:00	11	35	0.205	11	35	0.177	11	35	0.382
12:00 - 13:00	11	35	0.229	11	35	0.195	11	35	0.424
13:00 - 14:00	11	35	0.166	11	35	0.192	11	35	0.358
14:00 - 15:00	11	35	0.187	11	35	0.234	11	35	0.421
15:00 - 16:00	11	35	0.309	11	35	0.249	11	35	0.558
16:00 - 17:00	11	35	0.343	11	35	0.205	11	35	0.548
17:00 - 18:00	11	35	0.294	11	35	0.197	11	35	0.491
18:00 - 19:00	11	35	0.330	11	35	0.187	11	35	0.517
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.728			2.898			5.626

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL OGVS
 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	11	35	0.003	11	35	0.003	11	35	0.006
08:00 - 09:00	11	35	0.005	11	35	0.005	11	35	0.010
09:00 - 10:00	11	35	0.003	11	35	0.003	11	35	0.006
10:00 - 11:00	11	35	0.003	11	35	0.003	11	35	0.006
11:00 - 12:00	11	35	0.003	11	35	0.003	11	35	0.006
12:00 - 13:00	11	35	0.003	11	35	0.003	11	35	0.006
13:00 - 14:00	11	35	0.003	11	35	0.003	11	35	0.006
14:00 - 15:00	11	35	0.005	11	35	0.005	11	35	0.010
15:00 - 16:00	11	35	0.000	11	35	0.000	11	35	0.000
16:00 - 17:00	11	35	0.003	11	35	0.003	11	35	0.006
17:00 - 18:00	11	35	0.000	11	35	0.000	11	35	0.000
18:00 - 19:00	11	35	0.003	11	35	0.000	11	35	0.003
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.034			0.031			0.065

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL PSVS
 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	11	35	0.000	11	35	0.000	11	35	0.000
08:00 - 09:00	11	35	0.000	11	35	0.000	11	35	0.000
09:00 - 10:00	11	35	0.000	11	35	0.000	11	35	0.000
10:00 - 11:00	11	35	0.000	11	35	0.000	11	35	0.000
11:00 - 12:00	11	35	0.000	11	35	0.000	11	35	0.000
12:00 - 13:00	11	35	0.000	11	35	0.000	11	35	0.000
13:00 - 14:00	11	35	0.000	11	35	0.000	11	35	0.000
14:00 - 15:00	11	35	0.000	11	35	0.000	11	35	0.000
15:00 - 16:00	11	35	0.000	11	35	0.000	11	35	0.000
16:00 - 17:00	11	35	0.000	11	35	0.000	11	35	0.000
17:00 - 18:00	11	35	0.000	11	35	0.000	11	35	0.000
18:00 - 19:00	11	35	0.000	11	35	0.000	11	35	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.000			0.000			0.000

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL CYCLISTS
 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	11	35	0.008	11	35	0.026	11	35	0.034
08:00 - 09:00	11	35	0.013	11	35	0.029	11	35	0.042
09:00 - 10:00	11	35	0.000	11	35	0.003	11	35	0.003
10:00 - 11:00	11	35	0.005	11	35	0.005	11	35	0.010
11:00 - 12:00	11	35	0.003	11	35	0.005	11	35	0.008
12:00 - 13:00	11	35	0.008	11	35	0.000	11	35	0.008
13:00 - 14:00	11	35	0.003	11	35	0.003	11	35	0.006
14:00 - 15:00	11	35	0.005	11	35	0.000	11	35	0.005
15:00 - 16:00	11	35	0.029	11	35	0.008	11	35	0.037
16:00 - 17:00	11	35	0.026	11	35	0.029	11	35	0.055
17:00 - 18:00	11	35	0.029	11	35	0.018	11	35	0.047
18:00 - 19:00	11	35	0.016	11	35	0.013	11	35	0.029
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.145			0.139			0.284

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL VEHICLE OCCUPANTS
 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	11	35	0.088	11	35	0.403	11	35	0.491
08:00 - 09:00	11	35	0.208	11	35	0.621	11	35	0.829
09:00 - 10:00	11	35	0.231	11	35	0.361	11	35	0.592
10:00 - 11:00	11	35	0.275	11	35	0.348	11	35	0.623
11:00 - 12:00	11	35	0.262	11	35	0.236	11	35	0.498
12:00 - 13:00	11	35	0.301	11	35	0.273	11	35	0.574
13:00 - 14:00	11	35	0.205	11	35	0.252	11	35	0.457
14:00 - 15:00	11	35	0.229	11	35	0.301	11	35	0.530
15:00 - 16:00	11	35	0.447	11	35	0.322	11	35	0.769
16:00 - 17:00	11	35	0.486	11	35	0.299	11	35	0.785
17:00 - 18:00	11	35	0.426	11	35	0.268	11	35	0.694
18:00 - 19:00	11	35	0.439	11	35	0.278	11	35	0.717
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.597			3.962			7.559

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL PEDESTRIANS
 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	11	35	0.031	11	35	0.114	11	35	0.145
08:00 - 09:00	11	35	0.096	11	35	0.205	11	35	0.301
09:00 - 10:00	11	35	0.062	11	35	0.057	11	35	0.119
10:00 - 11:00	11	35	0.052	11	35	0.091	11	35	0.143
11:00 - 12:00	11	35	0.099	11	35	0.057	11	35	0.156
12:00 - 13:00	11	35	0.086	11	35	0.081	11	35	0.167
13:00 - 14:00	11	35	0.075	11	35	0.101	11	35	0.176
14:00 - 15:00	11	35	0.083	11	35	0.096	11	35	0.179
15:00 - 16:00	11	35	0.197	11	35	0.109	11	35	0.306
16:00 - 17:00	11	35	0.122	11	35	0.075	11	35	0.197
17:00 - 18:00	11	35	0.083	11	35	0.078	11	35	0.161
18:00 - 19:00	11	35	0.086	11	35	0.081	11	35	0.167
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.072			1.145			2.217

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL PUBLIC TRANSPORT USERS
 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	11	35	0.003	11	35	0.023	11	35	0.026
08:00 - 09:00	11	35	0.036	11	35	0.049	11	35	0.085
09:00 - 10:00	11	35	0.016	11	35	0.008	11	35	0.024
10:00 - 11:00	11	35	0.003	11	35	0.003	11	35	0.006
11:00 - 12:00	11	35	0.005	11	35	0.003	11	35	0.008
12:00 - 13:00	11	35	0.000	11	35	0.005	11	35	0.005
13:00 - 14:00	11	35	0.003	11	35	0.000	11	35	0.003
14:00 - 15:00	11	35	0.005	11	35	0.005	11	35	0.010
15:00 - 16:00	11	35	0.029	11	35	0.042	11	35	0.071
16:00 - 17:00	11	35	0.005	11	35	0.005	11	35	0.010
17:00 - 18:00	11	35	0.016	11	35	0.003	11	35	0.019
18:00 - 19:00	11	35	0.003	11	35	0.008	11	35	0.011
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.124			0.154			0.278

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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 for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
 MULTI-MODAL TOTAL PEOPLE
 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	11	35	0.130	11	35	0.566	11	35	0.696
08:00 - 09:00	11	35	0.353	11	35	0.904	11	35	1.257
09:00 - 10:00	11	35	0.309	11	35	0.429	11	35	0.738
10:00 - 11:00	11	35	0.335	11	35	0.447	11	35	0.782
11:00 - 12:00	11	35	0.369	11	35	0.301	11	35	0.670
12:00 - 13:00	11	35	0.395	11	35	0.358	11	35	0.753
13:00 - 14:00	11	35	0.286	11	35	0.356	11	35	0.642
14:00 - 15:00	11	35	0.322	11	35	0.403	11	35	0.725
15:00 - 16:00	11	35	0.701	11	35	0.481	11	35	1.182
16:00 - 17:00	11	35	0.639	11	35	0.408	11	35	1.047
17:00 - 18:00	11	35	0.553	11	35	0.366	11	35	0.919
18:00 - 19:00	11	35	0.543	11	35	0.379	11	35	0.922
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			4.935			5.398			10.333

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.

Parameter summary

Trip rate parameter range selected: 6 - 82 (units:)
 Survey date date range: 01/10/01 - 23/10/12
 Number of weekdays (Monday-Friday): 11
 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.