

1 : 100

1 : 50

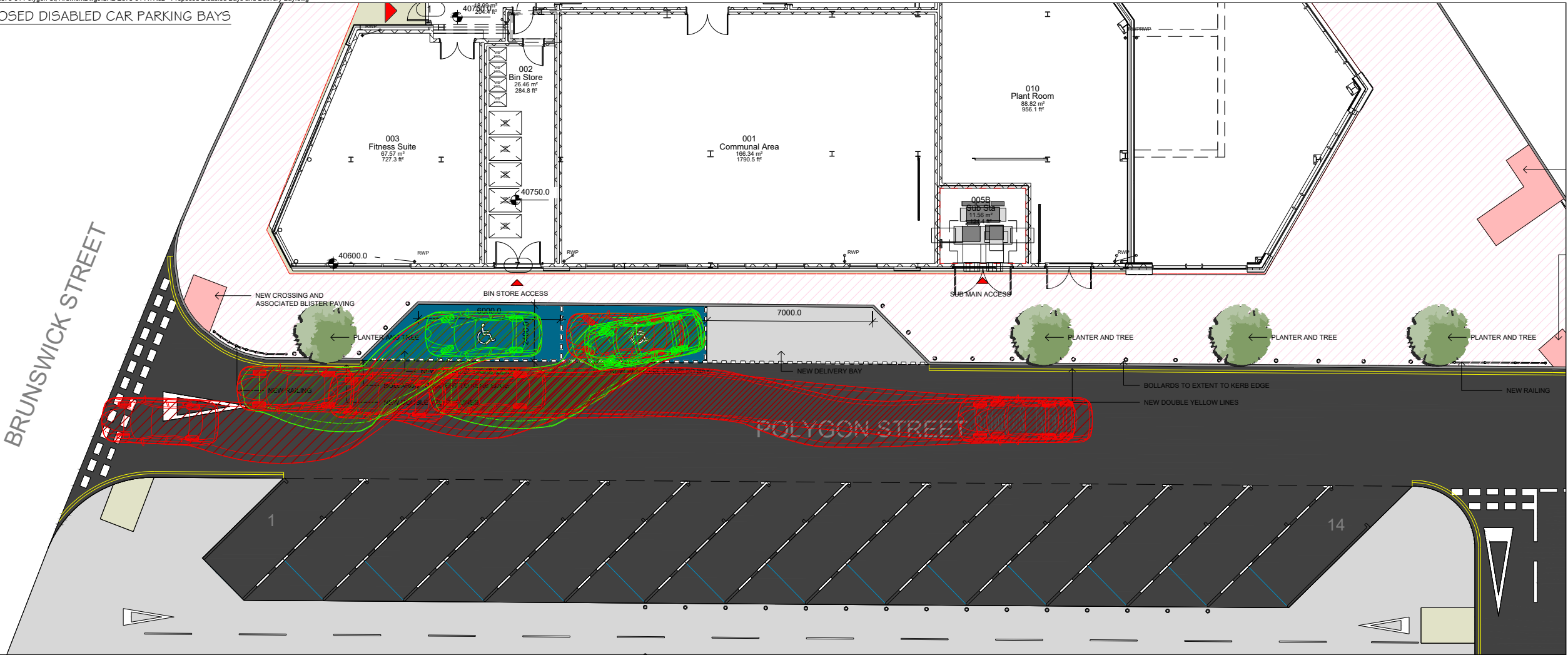
- | | |
|---|--------------------------------|
|  | SITE BOUNDARY |
|  | AREA SUBJECT TO S278 |
|  | BLISTER PAVING LOCATIONS |
|  | 2NO NEW DDA PARKING PROVISIONS |
|  | ENTRANCE / EGRESS POSITIONS |

REV	DATE	COMMENT	
CLIENT			
CERT			
PROJECT			
BRUNSWICK STREET			
DRAWING			
PROPOSED EXTERNAL WORKS			
PROJECT N°	2006	SCALE	As indicated
DRAWING N°	2006-ABWA-ZZ-ZZ-DR-A-(38)-001	CHECKED	GW
		DATE	11/03/21
REV	A1	DATE	11/03/21

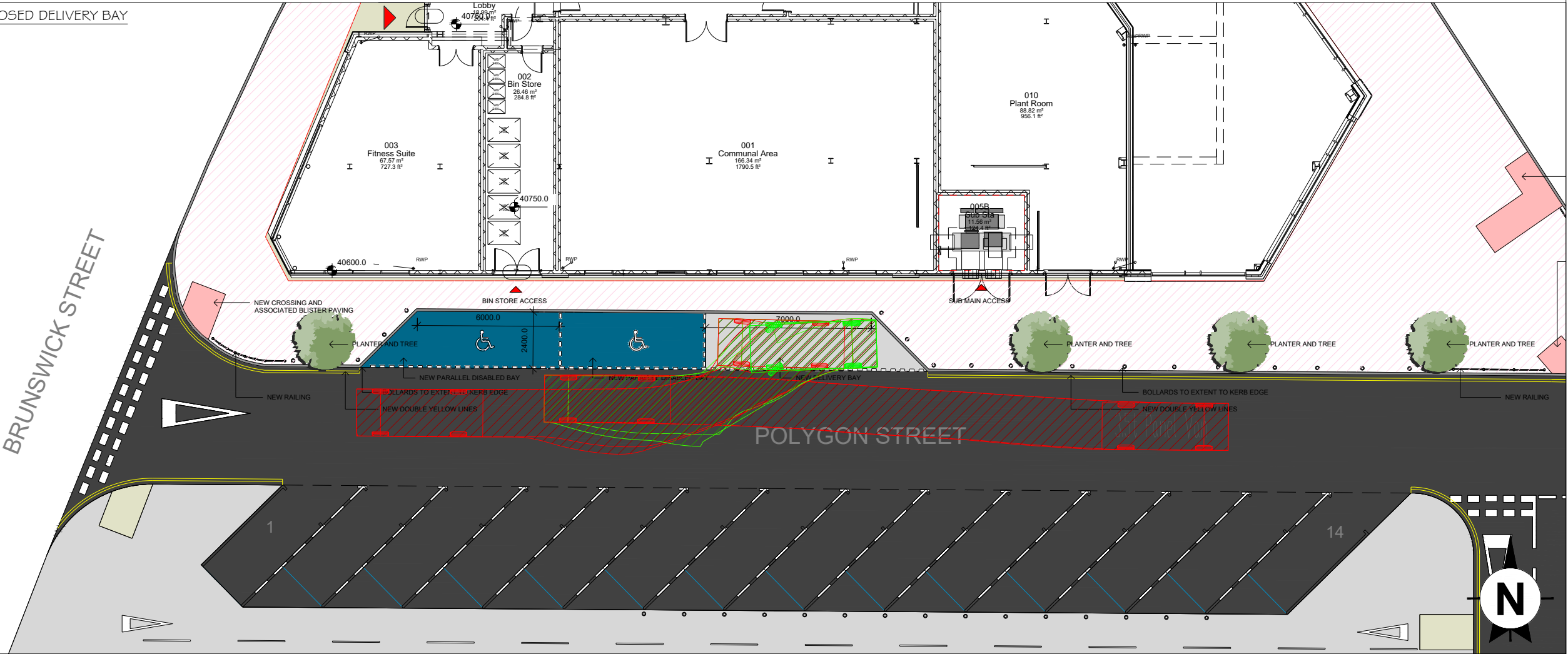
AUDERIEBW
ARCHITECTS

APPENDIX C – DRAWING NUMBER 2875-01-ATR02

PROPOSED DISABLED CAR PARKING BAYS



PROPOSED DELIVERY BAY

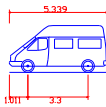


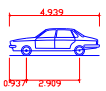
This drawing is the copyright of AXIS P.E.D Limited and may not be loaned, copied or reproduced in any way -or used for any offer, quote, tender or construction purposes without written consent of the company to do so

Follow any figured dimensions - do not scale for construction purposes. IF IN DOUBT ASK.

Revision History	Date

VEHICLES USED IN TRACKING:

	5.339m
3.5t Panel Van	5.339m
Overall Length	1.935m
Overall Width	2.565m
Min Body Ground Clearance	0.338m
Track Width	1.935m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	6.400m

	4.939m
Jaguar S-Type	4.939m
Overall Length	1.875m
Overall Width	1.474m
Min Body Ground Clearance	0.259m
Max Track Width	1.544m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	6.000m

Chester Office: Well House Barns Bruton CH4 9DH South Manchester Office: Canal House 76 Water Lane Wilmslow SK9 9BB axis	
client:	GGC Polygon Manchester Limited
project:	Redevelopment of No. 2-10 Stockport Road, Ardwick
drawing title:	Swept Path Analysis - Proposed On-street Disabled Parking Bays and Delivery Bay
date:	December 2021
drawing number:	2875-01-ATRO2
scale(s):	1:200@A3
drawn by:	AB
checked:	--
status:	--
rev:	--
planning	environment
design	

APPENDIX D – TRICS OUTPUT (RESIDENTIAL)

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

MULTI-MODAL VEHICLESSelected regions and areas:

02 SOUTH EAST	
SC SURREY	1 days
03 SOUTH WEST	
DC DORSET	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
GM GREATER MANCHESTER	2 days
10 WALES	
FS FLINTSHIRE	1 days
11 SCOTLAND	
HI HIGHLAND	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: 12 to 154 (units:)
 Range Selected by User: 8 to 154 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 18/10/11

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	1 days
Wednesday	2 days
Thursday	1 days
Friday	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:

Town Centre	3
Edge of Town Centre	6

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
Built-Up Zone	4
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.

Filtering Stage 3 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:

10,001 to 15,000

3 days

15,001 to 20,000

1 days

20,001 to 25,000

2 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

2 days

75,001 to 100,000

1 days

125,001 to 250,000

2 days

250,001 to 500,000

2 days

500,001 or More

2 days

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

Car ownership within 5 miles:

0.6 to 1.0

2 days

1.1 to 1.5

7 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.

LIST OF SITES relevant to selection parameters

1	CH-03-C-01	BLOCKS OF FLATS		CHESHIRE
	NEW CRANE STREET			
	CHESTER			
	Edge of Town Centre			
	Residential Zone			
	Total Number of dwellings:	60		
	Survey date: <i>FRIDAY</i>	17/10/08		Survey Type: <i>MANUAL</i>
2	DC-03-C-01	BLOCKS OF FLATS		DORSET
	ABBOTSBURY ROAD			
	WEYMOUTH			
	Edge of Town Centre			
	Residential Zone			
	Total Number of dwellings:	27		
	Survey date: <i>TUESDAY</i>	08/07/08		Survey Type: <i>MANUAL</i>
3	FS-03-C-01	BLOCK OF FLATS		FLINTSHIRE
	WREXHAM STREET			
	MOLD			
	Edge of Town Centre			
	Built-Up Zone			
	Total Number of dwellings:	30		
	Survey date: <i>MONDAY</i>	06/07/09		Survey Type: <i>MANUAL</i>
4	GM-03-C-02	BLOCK OF FLATS		GREATER MANCHESTER
	WHITWORTH STREET W.			
	MANCHESTER			
	Town Centre			
	Built-Up Zone			
	Total Number of dwellings:	154		
	Survey date: <i>THURSDAY</i>	13/10/11		Survey Type: <i>MANUAL</i>
5	GM-03-C-03	BLOCK OF FLATS		GREATER MANCHESTER
	FAIRFIELD STREET			
	MANCHESTER			
	Town Centre			
	Built-Up Zone			
	Total Number of dwellings:	20		
	Survey date: <i>FRIDAY</i>	14/10/11		Survey Type: <i>MANUAL</i>
6	HI-03-C-01	FLATS		HIGHLAND
	SHORE STREET			
	INVERNESS			
	Town Centre			
	Residential Zone			
	Total Number of dwellings:	38		
	Survey date: <i>WEDNESDAY</i>	20/05/09		Survey Type: <i>MANUAL</i>
7	SC-03-C-01	FLATS		SURREY
	HEATHCOTE ROAD			
	CAMBERLEY			
	Edge of Town Centre			
	Residential Zone			
	Total Number of dwellings:	140		
	Survey date: <i>MONDAY</i>	21/07/08		Survey Type: <i>MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

8	WM-03-C-03	FLATS	WEST MIDLANDS
	LODE LANE		
	SOLIHULL		
	Edge of Town Centre		
	No Sub Category		
	Total Number of dwellings:	60	
	Survey date: FRIDAY	21/09/07	Survey Type: MANUAL
9	WY-03-C-02	BLOCK OF FLATS	WEST YORKSHIRE
	KINGS MILL LANE		
	ASPLEY		
	HUDDERSFIELD		
	Edge of Town Centre		
	Built-Up Zone		
	Total Number of dwellings:	12	
	Survey date: WEDNESDAY	13/09/06	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/C - FLATS 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	9	60	0.022	9	60	0.118	9	60	0.140
08:00 - 09:00	9	60	0.052	9	60	0.185	9	60	0.237
09:00 - 10:00	9	60	0.050	9	60	0.065	9	60	0.115
10:00 - 11:00	9	60	0.063	9	60	0.046	9	60	0.109
11:00 - 12:00	9	60	0.043	9	60	0.039	9	60	0.082
12:00 - 13:00	9	60	0.043	9	60	0.065	9	60	0.108
13:00 - 14:00	9	60	0.052	9	60	0.074	9	60	0.126
14:00 - 15:00	9	60	0.059	9	60	0.057	9	60	0.116
15:00 - 16:00	9	60	0.085	9	60	0.055	9	60	0.140
16:00 - 17:00	9	60	0.085	9	60	0.070	9	60	0.155
17:00 - 18:00	9	60	0.153	9	60	0.083	9	60	0.236
18:00 - 19:00	9	60	0.109	9	60	0.048	9	60	0.157
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.816			0.905			1.721

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: 12 - 154 (units:)
 Survey date range: 01/01/05 - 18/10/11
 Number of weekdays (Monday-Friday): 9
 Number of Saturdays: 0
 Number of Sundays: 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.

OFF-LINE VERSION SCP 2 Mount St Manchester

Licence No: 726001

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS 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	9	60	0.004	9	60	0.009	9	60	0.013
08:00 - 09:00	9	60	0.000	9	60	0.006	9	60	0.006
09:00 - 10:00	9	60	0.004	9	60	0.007	9	60	0.011
10:00 - 11:00	9	60	0.004	9	60	0.002	9	60	0.006
11:00 - 12:00	9	60	0.002	9	60	0.002	9	60	0.004
12:00 - 13:00	9	60	0.000	9	60	0.006	9	60	0.006
13:00 - 14:00	9	60	0.002	9	60	0.006	9	60	0.008
14:00 - 15:00	9	60	0.004	9	60	0.002	9	60	0.006
15:00 - 16:00	9	60	0.004	9	60	0.004	9	60	0.008
16:00 - 17:00	9	60	0.000	9	60	0.000	9	60	0.000
17:00 - 18:00	9	60	0.018	9	60	0.004	9	60	0.022
18:00 - 19:00	9	60	0.007	9	60	0.002	9	60	0.009
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.049			0.050			0.099

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: 12 - 154 (units:)
 Survey date range: 01/01/05 - 18/10/11
 Number of weekdays (Monday-Friday): 9
 Number of Saturdays: 0
 Number of Sundays: 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/C - FLATS 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	9	60	0.026	9	60	0.089	9	60	0.115
08:00 - 09:00	9	60	0.043	9	60	0.198	9	60	0.241
09:00 - 10:00	9	60	0.039	9	60	0.139	9	60	0.178
10:00 - 11:00	9	60	0.074	9	60	0.083	9	60	0.157
11:00 - 12:00	9	60	0.059	9	60	0.126	9	60	0.185
12:00 - 13:00	9	60	0.116	9	60	0.122	9	60	0.238
13:00 - 14:00	9	60	0.116	9	60	0.089	9	60	0.205
14:00 - 15:00	9	60	0.094	9	60	0.085	9	60	0.179
15:00 - 16:00	9	60	0.129	9	60	0.081	9	60	0.210
16:00 - 17:00	9	60	0.189	9	60	0.135	9	60	0.324
17:00 - 18:00	9	60	0.240	9	60	0.096	9	60	0.336
18:00 - 19:00	9	60	0.133	9	60	0.033	9	60	0.166
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.258			1.276			2.534

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: 12 - 154 (units:)
 Survey date range: 01/01/05 - 18/10/11
 Number of weekdays (Monday-Friday): 9
 Number of Saturdays: 0
 Number of Sundays: 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/C - FLATS 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	9	60	0.000	9	60	0.033	9	60	0.033
08:00 - 09:00	9	60	0.002	9	60	0.067	9	60	0.069
09:00 - 10:00	9	60	0.002	9	60	0.028	9	60	0.030
10:00 - 11:00	9	60	0.004	9	60	0.009	9	60	0.013
11:00 - 12:00	9	60	0.006	9	60	0.013	9	60	0.019
12:00 - 13:00	9	60	0.007	9	60	0.020	9	60	0.027
13:00 - 14:00	9	60	0.007	9	60	0.013	9	60	0.020
14:00 - 15:00	9	60	0.013	9	60	0.002	9	60	0.015
15:00 - 16:00	9	60	0.031	9	60	0.007	9	60	0.038
16:00 - 17:00	9	60	0.024	9	60	0.017	9	60	0.041
17:00 - 18:00	9	60	0.067	9	60	0.006	9	60	0.073
18:00 - 19:00	9	60	0.022	9	60	0.002	9	60	0.024
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.185			0.217			0.402

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: 12 - 154 (units:)
 Survey date range: 01/01/05 - 18/10/11
 Number of weekdays (Monday-Friday): 9
 Number of Saturdays: 0
 Number of Sundays: 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 E – TRICS OUTPUTS (RETAIL)

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
Category : I - SHOPPING CENTRE - LOCAL SHOPS

MULTI-MODAL VEHICLES

Selected regions and areas:

03	SOUTH WEST	
	GS GLOUCESTERSHIRE	1 days
	SG SOUTH GLOUCESTERSHIRE	1 days
05	EAST MIDLANDS	
	LE LEICESTERSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	WM WEST MIDLANDS	2 days
10	WALES	
	CF CARDIFF	1 days
11	SCOTLAND	
	EB CITY OF EDINBURGH	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: Gross floor area
Actual Range: 240 to 1550 (units: sqm)
Range Selected by User: 240 to 2500 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 21/11/12

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:

Monday	2 days
Tuesday	1 days
Wednesday	2 days
Thursday	2 days
Friday	1 days

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

Selected survey types:

Manual count	8 days
Directional ATC Count	0 days

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
Edge of Town	4

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:

Commercial Zone	1
Residential Zone	6
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

Filtering Stage 3 selection:

Use Class:

A1	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:

10,001 to 15,000	1 days
15,001 to 20,000	3 days
25,001 to 50,000	3 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	2 days
250,001 to 500,000	5 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	5 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.

Petrol filling station:

Included in the survey count	0 days
Excluded from count or no filling station	8 days

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No	8 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	CF-01-I-01	LOCAL SHOPS	CARDIFF
	MICHAELSTON ROAD		
	CARDIFF		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	500 sqm	
	Survey date: MONDAY	08/10/07	Survey Type: MANUAL
2	EB-01-I-01	LOCAL SHOPS	CITY OF EDINBURGH
	COLINTON ROAD		
	CRAIGLOCKHART		
	EDINBURGH		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	825 sqm	
	Survey date: THURSDAY	28/10/10	Survey Type: MANUAL
3	GS-01-I-01	LOCAL SHOPS	GLOUCESTERSHIRE
	SALISBURY AVENUE		
	WARDEN HILL		
	CHELTENHAM		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	525 sqm	
	Survey date: MONDAY	26/04/10	Survey Type: MANUAL
4	LE-01-I-01	LOCAL SHOPS	LEICESTERSHIRE
	RYDER ROAD		
	BRAUNSTONE FRITH		
	LEICESTER		
	Edge of Town		
	Residential Zone		
	Total Gross floor area:	606 sqm	
	Survey date: WEDNESDAY	26/09/12	Survey Type: MANUAL
5	SG-01-I-01	LOCAL SHOPS	SOUTH GLOUCESTERSHIRE
	BURLEY GROVE		
	KINGSWOOD		
	BRISTOL		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	240 sqm	
	Survey date: FRIDAY	06/10/06	Survey Type: MANUAL
6	SH-01-I-01	LOCAL SHOPS	SHROPSHIRE
	WREKIN DRIVE		
	DONNINGTON		
	TELFORD		
	Edge of Town		
	Residential Zone		
	Total Gross floor area:	820 sqm	
	Survey date: WEDNESDAY	24/06/09	Survey Type: MANUAL
7	WM-01-I-01	LOCAL SHOPS	WEST MIDLANDS
	HOLYHEAD ROAD		
	COVENTRY		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	1550 sqm	
	Survey date: THURSDAY	27/09/07	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont..)

8 WM-01-I-02 LOCAL SHOPS MARSHALL LAKE ROAD SHIRLEY SOLIHULL Edge of Town Commercial Zone Total Gross floor area: 515 sqm Survey date: TUESDAY 18/09/07	WEST MIDLANDS 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 01 - RETAIL/I - SHOPPING CENTRE - LOCAL SHOPS

MULTI-MODAL VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	698	3.530	8	698	3.386	8	698	6.916
08:00 - 09:00	8	698	4.282	8	698	3.763	8	698	8.045
09:00 - 10:00	8	698	4.336	8	698	3.978	8	698	8.314
10:00 - 11:00	8	698	4.318	8	698	3.870	8	698	8.188
11:00 - 12:00	8	698	3.637	8	698	3.333	8	698	6.970
12:00 - 13:00	8	698	5.125	8	698	5.178	8	698	10.303
13:00 - 14:00	8	698	4.408	8	698	5.035	8	698	9.443
14:00 - 15:00	8	698	3.870	8	698	3.745	8	698	7.615
15:00 - 16:00	8	698	3.906	8	698	4.229	8	698	8.135
16:00 - 17:00	8	698	4.282	8	698	4.515	8	698	8.797
17:00 - 18:00	8	698	4.515	8	698	4.085	8	698	8.600
18:00 - 19:00	8	698	4.264	8	698	4.533	8	698	8.797
19:00 - 20:00	8	698	3.386	8	698	3.369	8	698	6.755
20:00 - 21:00	7	763	1.741	7	763	2.322	7	763	4.063
21:00 - 22:00	3	650	2.460	3	650	2.614	3	650	5.074
22:00 - 23:00									
23:00 - 24:00									
Total Rates:	58.060			57.955			116.015		

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: 240 - 1550 (units: sqm)
 Survey date range: 01/01/05 - 21/11/12
 Number of weekdays (Monday-Friday): 8
 Number of Saturdays: 0
 Number of Sundays: 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.

OFF-LINE VERSION SCP 2 Mount St Manchester

Licence No: 726001

TRIP RATE for Land Use 01 - RETAIL/I - SHOPPING CENTRE - LOCAL SHOPS

MULTI-MODAL CYCLISTS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	698	0.197	8	698	0.143	8	698	0.340
08:00 - 09:00	8	698	0.197	8	698	0.108	8	698	0.305
09:00 - 10:00	8	698	0.125	8	698	0.125	8	698	0.250
10:00 - 11:00	8	698	0.072	8	698	0.072	8	698	0.144
11:00 - 12:00	8	698	0.161	8	698	0.143	8	698	0.304
12:00 - 13:00	8	698	0.036	8	698	0.090	8	698	0.126
13:00 - 14:00	8	698	0.143	8	698	0.143	8	698	0.286
14:00 - 15:00	8	698	0.090	8	698	0.108	8	698	0.198
15:00 - 16:00	8	698	0.125	8	698	0.161	8	698	0.286
16:00 - 17:00	8	698	0.430	8	698	0.340	8	698	0.770
17:00 - 18:00	8	698	0.143	8	698	0.197	8	698	0.340
18:00 - 19:00	8	698	0.233	8	698	0.269	8	698	0.502
19:00 - 20:00	8	698	0.036	8	698	0.072	8	698	0.108
20:00 - 21:00	7	763	0.019	7	763	0.037	7	763	0.056
21:00 - 22:00	3	650	0.000	3	650	0.000	3	650	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.007			2.008			4.015

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: 240 - 1550 (units: sqm)
 Survey date range: 01/01/05 - 21/11/12
 Number of weekdays (Monday-Friday): 8
 Number of Saturdays: 0
 Number of Sundays: 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 01 - RETAIL/I - SHOPPING CENTRE - LOCAL SHOPS

MULTI-MODAL PEDESTRIANS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	698	2.222	8	698	1.899	8	698	4.121
08:00 - 09:00	8	698	6.397	8	698	5.698	8	698	12.095
09:00 - 10:00	8	698	5.555	8	698	5.178	8	698	10.733
10:00 - 11:00	8	698	4.802	8	698	4.372	8	698	9.174
11:00 - 12:00	8	698	4.981	8	698	5.125	8	698	10.106
12:00 - 13:00	8	698	5.304	8	698	4.910	8	698	10.214
13:00 - 14:00	8	698	3.817	8	698	3.763	8	698	7.580
14:00 - 15:00	8	698	2.956	8	698	3.351	8	698	6.307
15:00 - 16:00	8	698	7.418	8	698	8.224	8	698	15.642
16:00 - 17:00	8	698	4.605	8	698	4.426	8	698	9.031
17:00 - 18:00	8	698	3.333	8	698	3.530	8	698	6.863
18:00 - 19:00	8	698	2.598	8	698	3.082	8	698	5.680
19:00 - 20:00	8	698	2.061	8	698	2.168	8	698	4.229
20:00 - 21:00	7	763	1.011	7	763	1.198	7	763	2.209
21:00 - 22:00	3	650	1.333	3	650	1.333	3	650	2.666
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			58.393			58.257			116.650

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: 240 - 1550 (units: sqm)
 Survey date range: 01/01/05 - 21/11/12
 Number of weekdays (Monday-Friday): 8
 Number of Saturdays: 0
 Number of Sundays: 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 01 - RETAIL/I - SHOPPING CENTRE - LOCAL SHOPS

MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	698	0.108	8	698	0.036	8	698	0.144
08:00 - 09:00	8	698	0.125	8	698	0.090	8	698	0.215
09:00 - 10:00	8	698	0.125	8	698	0.143	8	698	0.268
10:00 - 11:00	8	698	0.143	8	698	0.072	8	698	0.215
11:00 - 12:00	8	698	0.143	8	698	0.125	8	698	0.268
12:00 - 13:00	8	698	0.179	8	698	0.108	8	698	0.287
13:00 - 14:00	8	698	0.161	8	698	0.197	8	698	0.358
14:00 - 15:00	8	698	0.090	8	698	0.215	8	698	0.305
15:00 - 16:00	8	698	0.555	8	698	0.108	8	698	0.663
16:00 - 17:00	8	698	0.054	8	698	0.108	8	698	0.162
17:00 - 18:00	8	698	0.072	8	698	0.125	8	698	0.197
18:00 - 19:00	8	698	0.036	8	698	0.108	8	698	0.144
19:00 - 20:00	8	698	0.018	8	698	0.000	8	698	0.018
20:00 - 21:00	7	763	0.000	7	763	0.000	7	763	0.000
21:00 - 22:00	3	650	0.000	3	650	0.000	3	650	0.000
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.809			1.435			3.244

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: 240 - 1550 (units: sqm)
 Survey date range: 01/01/05 - 21/11/12
 Number of weekdays (Monday-Friday): 8
 Number of Saturdays: 0
 Number of Sundays: 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 – RESIDENTIAL TRIP GENERATION

1. The search criteria used to obtain the trip rates for the approved residential development is set out as follows:

Land Use: Residential
 Sub-Land Use: Privately owned flats
 Survey type: Multi-modal sites only
 Regions: All except Greater London and Ireland / Northern Ireland
 Selection by: Number of dwellings
 Periods: Weekdays only
 Locations: Town Centre, 'Edge of Town Centre' sites only

2. Application of the above criteria results in the following multi-modal trip rates (per 1 dwelling):

MULTI-MODAL TRIP RATES (PER 1 DWELLING)						
Mode	WEEKDAY AM PEAK 08:00 - 09:00		WEEKDAY PM PEAK 16:00 - 17:00		DAILY 07:00 - 19:00	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Vehicles	0.052	0.185	0.085	0.070	0.816	0.905
Cyclists	0	0.006	0	0	0.049	0.05
Pedestrians	0.043	0.198	0.189	0.135	1.258	1.276
Public Transport Users	0.002	0.067	0.024	0.017	0.185	0.217
Total	0.097	0.456	0.298	0.222	2.308	2.448

3. The table below sets out the resultant trip generation forecasts when these trip rates are applied to the proposal for 45 dwellings.

MULTI-MODAL TRIP RATES APPLIED TO PROPOSAL FOR 45 DWELLS						
Mode	WEEKDAY AM PEAK 08:00 - 09:00		WEEKDAY PM PEAK 16:00 - 17:00		DAILY 07:00 - 19:00	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Vehicles	2	8	4	3	37	41
Cyclists	0	0	0	0	2	2
Pedestrians	2	9	9	6	57	57
Public Transport Users	0	3	1	1	8	10
Total	4	21	13	10	104	110

4. However, due to the fact that the proposed residential development will effectively be 'car free', the comparison with the TRICS-based trip rates from those sites will not yield representative traffic forecasts because the TRICS-based comparator sites have a higher level of available parking provision.

Therefore, the total vehicular trip rates derived from TRICS have been redistributed proportionally to the other non-vehicular modes of transport.

5. To do so, the weekday peak hour and daily trip rates for the non-vehicular modes of transport are set out as a proportion of the total non-vehicular trip rates as follows:

PROPORTIONS						
Mode	WEEKDAY AM PEAK 08:00 - 09:00		WEEKDAY PM PEAK 16:00 - 17:00		DAILY 07:00 - 19:00	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Cyclists	0%	2%	0%	0%	3%	3%
Pedestrians	96%	73%	89%	89%	84%	83%
Public Transport Users	4%	25%	11%	11%	12%	14%
Total	100%	100%	100%	100%	100%	100%

6. When the vehicular trip generation forecasts are redistributed in accordance with the above proportions, the forecast multi-modal trip generation of the proposed development is therefore as follows:

TOTAL FORECAST MULTI-MODAL TRIP GENERATION						
Mode	WEEKDAY AM PEAK 08:00 - 09:00		WEEKDAY PM PEAK 16:00 - 17:00		DAILY 07:00 - 19:00	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
Vehicles	0	0	0	0	0	0
Cyclists	0	0	0	0	3	4
Pedestrians	4	15	12	9	88	91
Public Transport Users	0	5	2	1	13	15
Total	4	21	13	10	104	110



Forecast Multi-Modal Trip Generation - Proposed Residential Use

Proposed Mixed-use Development, 2-10 Stockport Road, Ardwick, Manchester

December 2021

Job Number - 2875-01

Appendix F