
GAROB DEVELOPMENTS LIMITED

**PROPOSED CHANGE OF USE, FROMER CO-OP, WELL STREET, CEFN MAWR,
WREXHAM**

TN02 – TRANSPORT TECHNICAL NOTE

6TH JUNE 2023

1.0 Appointment of Connect Consultants

- 1.1 Connect Consultants Limited (Connect) is a firm of transport planning and highway design consultants that have been instructed by GAROB Developments Limited in relation to their proposed change of use from retail to storage and distribution at the former Co-Op store, Well Street, Cefn Mawr, Wrexham.

2.0 Introduction

- 2.1 A planning application (local planning authority reference P/2023/0008) was submitted to Wrexham County Brough Council on 11th January 2023 for the:-

“Change of use of building from Class A1 (Retail) to Class B1 (Business) and B8 (Storage and Distribution) at the Cooperative, Well Street, Cefn Mawr, Wrexham, LL14 3YD.”

- 2.2 The 2023 Change of Use application (P/2023/0008) was accompanied by proposed site layout plans and a Design and Access Statement.
- 2.3 A highways consultation response in relation to the application was received from Wrexham County Brough Council dated 8th March 2023. The response stated that a Transport Statement would be needed to accompany the proposed change of use application.
- 2.4 A Traffic Assessment Statement produced by GAROB Developments Limited, dated 10th March 2023, was subsequently submitted to Wrexham County Brough Council.
- 2.5 Following the submission of the Traffic Assessment Statement, further information has been requested from Wrexham County Brough Council, in an email to GAROB Developments Limited, dated 19th May 2023.
- 2.6 A copy of the Wrexham County Brough Council requests is provided below: -

“In order to establish fully what that fallback position is, please could you provide an assessment (based upon the attached LPGN 16) of the parking requirements for the existing food retail building, and those required for the proposed B1 / B8.

An assessment of the anticipated traffic movements and types of vehicles would be useful for us to assess any changes to site operations including servicing of the site, customer and staff access (i.e. how will this be managed on site?).

Please also provide a detailed existing plan showing the current parking layout, vehicular and pedestrian access, and the circulation / turning areas. Please also show the location of the access from the site to the adjacent community building. Details of the boundary treatments are also required.

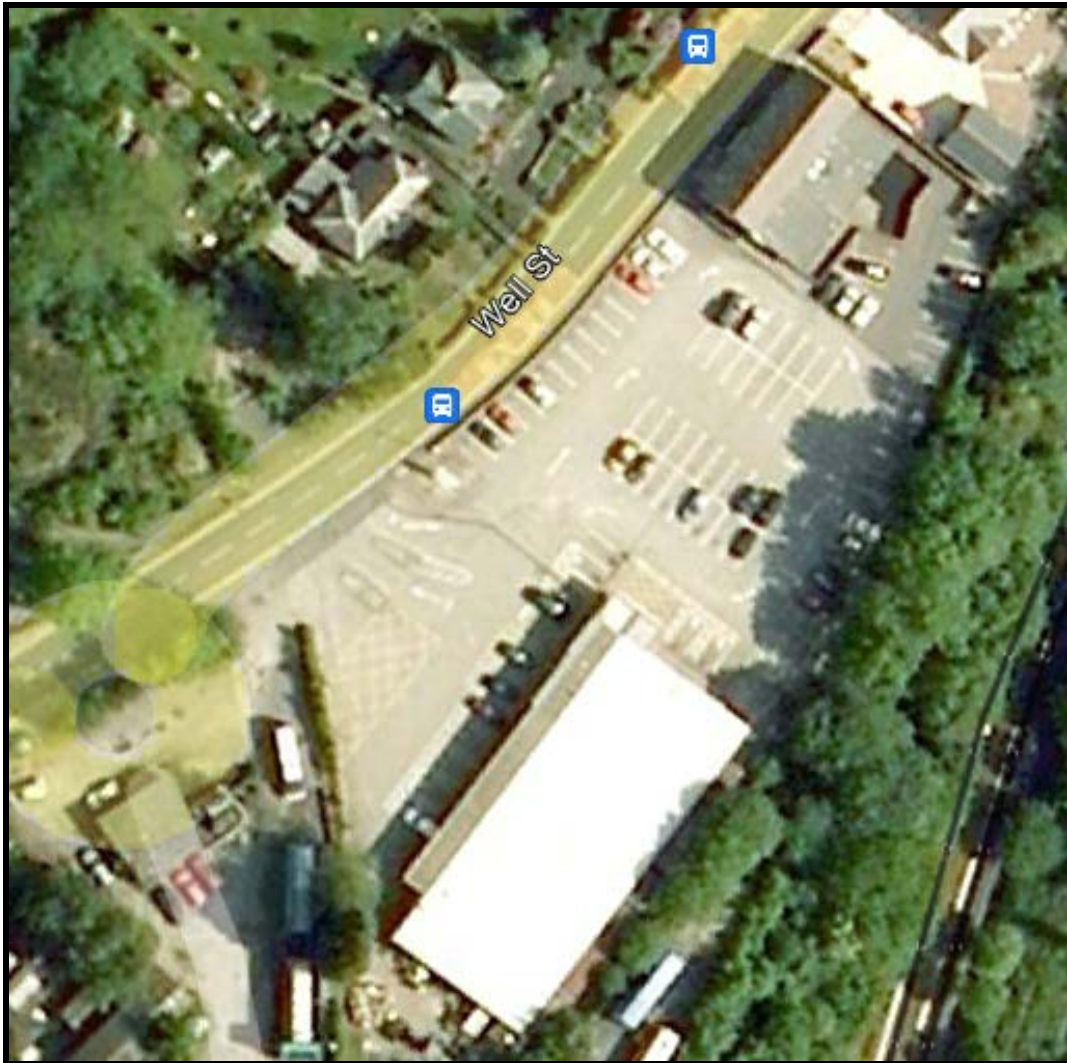
In addition to the above, please submit a detailed proposed site layout plan showing the proposed parking layout (customers / staff / delivers & collections etc.), vehicular and pedestrian access, and the circulation / turning areas. Please also show the retention of the access from the site to the adjacent community building. Details of any proposed / retained boundary treatments are also required."

- 2.7 This Technical Note (TN02) provides responses to the above requests. A previous similar Technical Note (TN01) provided a response but included reference to a Stage 2 development, this has now been removed from this application.

3.0 Development Overview

- 3.1 The proposal site, the former Co-Op, is located to the northeast of central Cefn-Mawr, immediately northeast of the Well Street / Oxford Street roundabout junction.
- 3.2 The site is bound to the northeast by the Dee Valley Trust CIC Community Enterprise Centre, to the east by woodland and the Wrexham railway line, to the south by a Tesco foodstore and to the west by the Well Street.
- 3.3 Vehicle access to the site is provided via a dropped kerb access junction with Well Street on the site's southwestern boundary. Entry and exit to the site re separated by a kerbed island. The site also provides access to c10 parking spaces serving the Community Enterprise Centre located to the rear of the community building, which will remain unaltered by the proposed development. Pedestrian access to the proposal site is provided via steps from Well Street near to the Community Enterprise Centre, and also via the main access junction.
- 3.4 Well Street is flanked by footways connecting the site to the local pedestrian network. A southbound bus stop is provided along the Well Street site frontage, with the northbound stop c10m north of the northern site boundary. The bus stops are served by the 2, 2A, 2B, and 2C which collectively provide c6 buses per hour each way.
- 3.5 The proposed development is for a change of use from 850 sq.m of retail floorspace formally occupied by Co-Op, to 850 sq.m of business / storage and distribution space to be split into up to seven separate units (c122 sq.m each). No change to the site access arrangements or external space are proposed. A copy of the existing site plan (based on a recent topographical survey) is provided at Appendix 1. The historic layout of the site can be seen from Google Earth imagery (see Figure 2).
- 3.6 No changes are also proposed to the existing boundary treatments which are shown on the plan at Appendix 1.
- 3.7 The site has remained vacant for around 12 years, and the applicant is proposing to bring the dilapidated building back into use to create an employment zone for local people.
- 3.8 The proposal site in context of the local area is shown at Figure 1 below.

Figure 2 – 2006 Google Earth Ariel Photo



Source: Google Earth

- 4.4 The topographical survey at Appendix 1 shows approximately 30 parking spaces including 5 disabled spaces around the edge of the site. 36 parking spaces are possible in the centre of the site where the markings have degraded.
- 4.5 For the proposed business / storage and distribution use the following standards apply: -
- B1 Business and Light Industry: - Maximum of 1 space per 30 sq.m GFA.
 - B8 Storage and Distribution: - Maximum of 1 space per 100 sq.m GFA.
- 4.6 The above equate to a maximum of 9 to 28 spaces depending on use ($850 / 30 = 28.3$, $850 / 100 = 8.5$).
- 4.7 No changes are proposed to the on-site parking provision as part of this application. A plan showing the current proposal is provided at Appendix 1, which is to retain the perimeter parking and utilise the central area of the former car park for HGV turning.

4.8 In terms of cycle parking, for the proposed business / storage and distribution use the following standards apply: -

- B1 Business and Light Industry: - Minimum of 1 cycle per 300 sq.m GFA.
- B8 Storage and Distribution: - Minimum of 1 cycle per 1000 sq.m GFA.

4.9 The above Wrexham standards equate to between 1 and 3 cycle spaces ($850/300 = 2.8$, $850/1000 = 0.85$) for the units. In excess of 3 cycle spaces will serve the proposed seven units within a dedicated cycle store.

4.10 The standards also state that, *"An area suitable for HGVs to load/unload and turn within the site will normally be required for B2 and B8 uses."* There is space within the site for HGVs to load/unload as shown on the existing site layout at Appendix 1 and track plots at Appendix 2 (see below).

5.0 Servicing

5.1 Customer, staff and service vehicle traffic will all utilise the existing site access junction from Well Street.

5.2 Customer and staff vehicles will park within the existing marked parking spaces around the perimeter of the site.

5.3 The existing layout has been assessed for delivery vehicle manoeuvres based on the FTA 16.5m articulated goods vehicle and details of the swept path assessment are provided at Appendix 2. The track plots show that the service route through the car park is satisfactory and that service vehicles would be able to manoeuvre within the site, enabling service vehicles to arrive and depart to / from the site in forward gear.

6.0 Trip Attraction

Former Site Use Trip Attraction

6.1 TRICS version 7.10.1 has been interrogated, using the selection criteria as set out in Table 1 to obtain trip data from developments with similar characteristics to the former Co-Op foodstore. The TRICS outputs are provided at Appendix 3.

6.2 Given the floor area of the Co-Op at c850 sq.m the store could be categorised as a convenience store or as a foodstore. TRICS assessments of both are provided below.

Table 1 – TRICS Database Key Selection Criteria (Co-Op)

Land use and trip rate selection	Foodstore	Convenience Store
Select Land Use By:	Full list Of Active Main/Sub Land Uses	
Main Land Use:	01 - RETAIL	
Sub Land Use:	A - FOOD SUPERSTORE	O - CONVENIENCE STORE
Calculation Options:	Vehicle Trip Rates	
Regions:	England and Wales excluding Greater London	
Primary filtering		
Trip Rate Parameters:	Gross Floor Area (250 – 2,000 sq.m)	
Selected Dates:	01/01/00 to 27/04/22	01/01/00 to 29/09/22
Week days to include:	Weekdays only, Saturday only	
Location Types to include:	Edge of Town Centre, Suburban Area, Edge of Town (to increase survey size)	

6.3 The resultant trip attractions, during the assumed peak hours, are set out at Table 2 below.

Table 2 – TRICS Data - Former Co-Op

Peak	Average Trip Rates			Traffic Attraction		
	Arrivals	Departures	Total	Arrivals	Departures	Total
Foodstore (850 sq.m)						
AM (08:00-09:00)	3.931	2.933	6.864	33	25	58
PM (17:00 – 18:00)	9.018	8.639	17.657	77	73	150
Weekday Daily (OGV'S)	77.354 (0.18)	77.781 (0.2)	155.135 (0.38)	658 (2)	661 (2)	1,319 (3)
Sat (12:00-13:00)	5.143	4.952	10.095	44	42	86
Saturday Daily (OGV's)	57.027 (0.093)	55.575 (0.076)	112.602 (0.169)	485 (1)	472 (1)	957 (1)
Convenience Store (850 sq.m)						
AM (08:00-09:00)	9.493	9.817	19.31	81	83	164
PM (17:00 – 18:00)	8.091	8.091	16.182	69	69	138
Weekday Daily (OGV'S)	107.278 (1.188)	106.247 (1.188)	213.525 (2.376)	912 (10)	903 (10)	1,815 (20)
Sat (12:00-13:00)	10.29	10.158	20.448	87	86	174
Saturday Daily (OGV's)	109.434 (0.528)	109.262 (0.528)	218.696 (1.056)	930 (4)	929 (4)	1,859 (9)

Proposed Site Use Trip Attraction

- 6.4 TRICS version 7.10.1 has been interrogated, using the selection criteria as set out in Table 3 to obtain trip data from developments with similar characteristics to the proposed business / storage and distribution units. The TRICS outputs are provided at Appendix 4.
- 6.5 The following TRICS categories have been used: -
- Employment – Industrial Unit.
 - Employment – Warehousing (Commercial).

Table 3 – TRICS Database Key Selection Criteria

Land use and trip rate selection	Foodstore	Convenience Store
Select Land Use By:	Full list Of Active Main/Sub Land Uses	
Main Land Use:	02 - EMPLOYMENT	
Sub Land Use:	C - INDUSTRIAL UNIT	
Calculation Options:	Vehicle Trip Rates	
Regions:	England and Wales excluding Greater London	
Primary filtering		
Trip Rate Parameters:	Gross Floor Area (250 – 2,000 sq.m)	
Selected Dates:	01/001/15 to 29/09/22	01/01/00 to 29/09/22
Week days to include:	Weekdays only	
Location Types to include:	Edge of Town Centre, Suburban Area, Edge of Town (to increase survey size)	

- 6.6 The resultant trip attractions, during the assumed peak hours, are set out at Table 4 below.

Table 4 – TRICS Data – Proposed Business / Storage and Distribution Units

Peak	Average Trip Rates			Traffic Attraction		
	Arrivals	Departures	Total	Arrivals	Departures	Total
Industrial Unit (850 sq.m)						
AM (08:00-09:00)	0.653	0.21	0.863	6	2	7
PM (17:00 – 18:00)	0.044	0.545	0.589	0	5	5
Weekday Daily (OGV'S)	3.752 (0.372)	3.654 (0.381)	7.406 (0.753)	32 (3)	31 (3)	63 (6)
Commercial Warehouse (850 sq.m)						
AM (08:00-09:00)	0.928	0.239	1.167	8	2	10
PM (17:00 – 18:00)	0.12	0.808	0.928	1	7	8
Weekday Daily (OGV'S)	3.711 (0.54)	3.521 (0.445)	7.232 (0.985)	32 (5)	30 (4)	61 (8)

- 6.7 The above TRICS assessments shows that the proposed business / storage and distribution units will attract far less overall traffic than the former retail use. This is during the network peak hours and across the day.
- 6.8 In terms of HGV traffic, when compared to the 'foodstore' TRICS category (which seems the most reprehensive in terms of HGV numbers for a Co-Op store) the proposed development will see an increase in daily HGV trips to and from the site, increasing from 3 to 6/8.
- 6.9 Overall, the development will see a reduction in overall traffic, with a negligible increase in HGV trip attraction to the site.
- 6.10 Based on the above traffic effect, no assessment of junction capacity or local collision history has been undertaken.

7.0 Conclusions

- 7.1 The results of this assessment highlight that the proposed change of use is acceptable from a transport perspective.

APPENDIX 1 – EXISTING SITE LAYOUT (TOPO)

N5000

Existing vehicle access for retail use.

Existing boundary treatments

Existing pedestrian access

Existing entrance to the
community building car park

Existing pedestrian access

N4950

FORMER COOP

BUILDING

N4900

E4950

E5000

PERMANENT STATIONS:

S01: E 5000.000	S03: E 4970.890
N 5000.000	N 4966.870
L 100.400	L 100.585
S02: E 4987.140	S05: E 5021.200
N 4986.040	N 4960.675
L 100.325	L 99.335

*** NOTE ***

SURFACE SERVICE FEATURES
& POINTS SURVEYED WHERE
VISIBLE, DUE TO :-

GARDEN DEBRIS & VEGETATION.

STUDY OF EXISTING DRAINAGE
PLANS & A DRAINAGE SURVEY
SHOULD BE CARRIED OUT BEFORE
DESIGN \ EXCAVATION.

REMARKS:

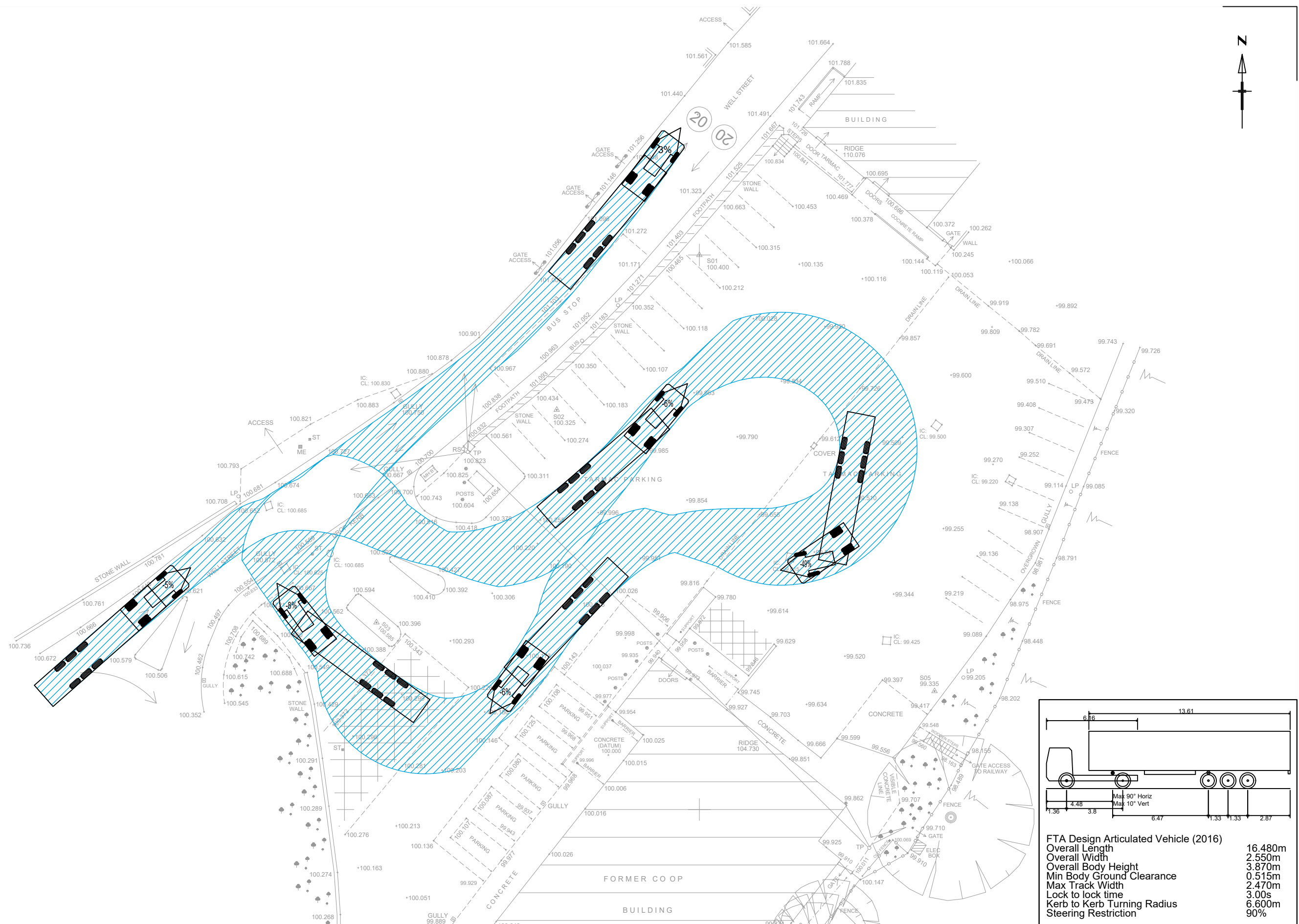
ALL LEVELS RELATED TO AN
ARBITRARY LEVEL - CONCRETE = 100.000m

FOOTPATH \ VERGE LINES
SHOWN IN BROWN.

SMALL TREE \
BUSH \ PLANTING
AREAS

SCALE: PLAN REF:
:200 @ A1 GDL\CO OP\01
SURVEYED: JUNE 2022.

APPENDIX 2 – SWEPT PATH ANALYSIS



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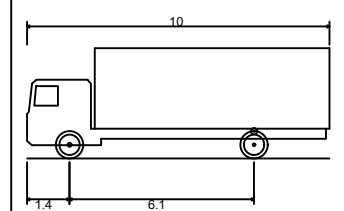
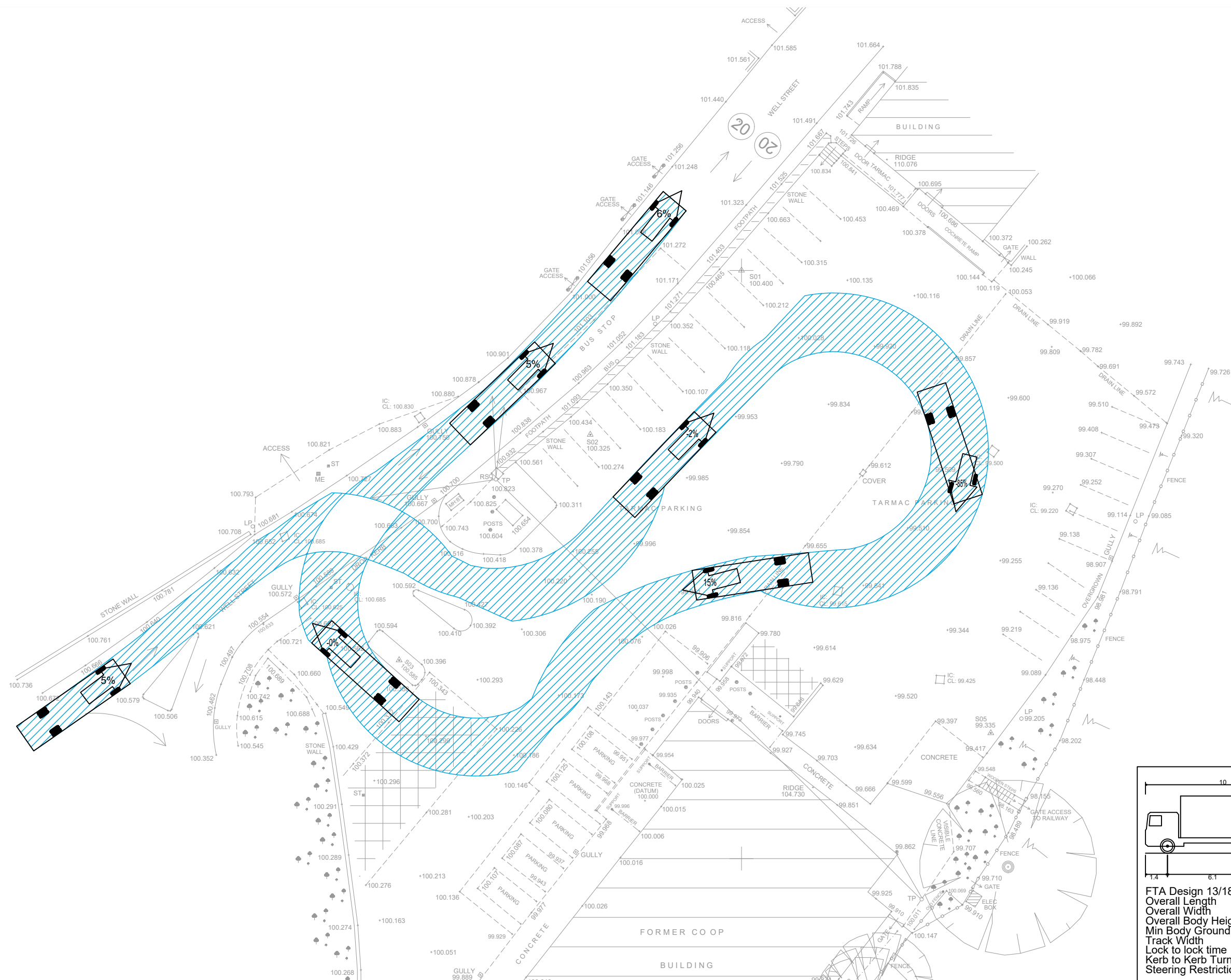


client
GAROB

project
CEFN MAWR
CO-OP

title
EXISTING SITE LAYOUT
SWEEP PATH ANALYSIS
FTA DESIGN ARTICULATED VEHICLE

date MAY 2023	drawn by T.A.S	checked by R.H.L
scale N.T.S	status PLANNING	
drawing number 23078-TR002		rev.



FTA Design 13/18 Tonne Rigid Vehicle (2016)
Overall Length 10.000m
Overall Width 2.550m
Overall Body Height 3.645m
Min Body Ground Clearance 0.440m
Track Width 2.470m
Lock to lock time 3.00s
Kerb to Kerb Turning Radius 11.000m
Steering Restriction 90%

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client
GAROB

project
CEFN MAWR
CO-OP

title
EXISTING SITE LAYOUT
SWEEP PATH ANALYSIS
FTA DESIGN 10M RIGID VEHICLE

date
MAY 2023

scale
N.T.S

drawing number
23078-TR001

status
PLANNING

drawn by
T.A.S

checked by
R.H.L

rev.

APPENDIX 3 – FORMER CO-OP TRICS

Calculation Reference: AUDIT-142301-230523-0518

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
 Category : A - FOOD SUPERSTORE
 TOTAL VEHICLES

Selected regions and areas:

03	SOUTH WEST	
	DC DORSET	1 days
09	NORTH	
	CB CUMBRIA	1 days
10	WALES	
	IA ISLE OF ANGLESEY	1 days

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

Primary 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: Gross floor area
 Actual Range: 1487 to 1825 (units: sqm)
 Range Selected by User: 500 to 2000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/00 to 27/04/22

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Friday	2 days

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

Selected survey types:

Manual count	3 days
Directional ATC Count	0 days

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)	1
Edge of Town	2

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

Selected Location Sub Categories:

Residential Zone	2
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.

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	X days - Selected
Servicing vehicles Excluded	3 days - Selected

Secondary Filtering selection:

Use Class:

E(a) 3 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,001 to 5,000	1 days
5,001 to 10,000	1 days
50,001 to 100,000	1 days

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

Population within 5 miles:

5,001 to 25,000	1 days
25,001 to 50,000	1 days
250,001 to 500,000	1 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	1 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.

Petrol filling station:

PFS is present at the site and is included in the count	0 days
PFS is present at the site but is excluded from the count	0 days
There is no PFS at the site	3 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:

Not Known	1 days
No	2 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	3 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	CB-01-A-07	SOMERFIELD	CUMBRIA
	WIGTON ROAD		
	CARLISLE		
	NEWTOWN		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	1700 sqm	
	Survey date: FRIDAY	05/02/10	Survey Type: MANUAL
2	DC-01-A-13	CO-OP PIONEER	DORSET
	SEA ROAD NORTH		
	BRIDPORT		
	ST ANDREWS WELL		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	1487 sqm	
	Survey date: FRIDAY	07/07/00	Survey Type: MANUAL
3	IA-01-A-01	CO-OP	ISLE OF ANGLESEY
	MONA ROAD		
	MENAI BRIDGE		
	Edge of Town		
	Residential Zone		
	Total Gross floor area:	1825 sqm	
	Survey date: MONDAY	13/07/09	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/A - FOOD SUPERSTORE
TOTAL 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	3	1671	0.559	3	1671	0.180	3	1671	0.739
08:00 - 09:00	3	1671	3.931	3	1671	2.933	3	1671	6.864
09:00 - 10:00	3	1671	4.429	3	1671	3.851	3	1671	8.280
10:00 - 11:00	3	1671	5.926	3	1671	4.609	3	1671	10.535
11:00 - 12:00	3	1671	5.806	3	1671	5.886	3	1671	11.692
12:00 - 13:00	3	1671	5.387	3	1671	5.746	3	1671	11.133
13:00 - 14:00	3	1671	5.247	3	1671	5.646	3	1671	10.893
14:00 - 15:00	3	1671	5.766	3	1671	5.946	3	1671	11.712
15:00 - 16:00	3	1671	6.644	3	1671	6.804	3	1671	13.448
16:00 - 17:00	3	1671	7.702	3	1671	7.562	3	1671	15.264
17:00 - 18:00	3	1671	9.018	3	1671	8.639	3	1671	17.657
18:00 - 19:00	3	1671	6.305	3	1671	7.123	3	1671	13.428
19:00 - 20:00	3	1671	5.287	3	1671	5.946	3	1671	11.233
20:00 - 21:00	3	1671	3.571	3	1671	3.791	3	1671	7.362
21:00 - 22:00	3	1671	1.776	3	1671	2.514	3	1671	4.290
22:00 - 23:00	1	1487	0.000	1	1487	0.605	1	1487	0.605
23:00 - 24:00									
Total Rates:			77.354			77.781			155.135

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:

1487 - 1825 (units: sqm)

Survey date range:

01/01/00 - 27/04/22

Number of weekdays (Monday-Friday):

3

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 show. 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-142301-230523-0509

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
 Category : O - CONVENIENCE STORE
 TOTAL VEHICLES

Selected regions and areas:

03	SOUTH WEST	
	SD SWINDON	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	1 days
09	NORTH	
	TW TYNE & WEAR	1 days

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

Primary 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: Gross floor area
 Actual Range: 292 to 330 (units: sqm)
 Range Selected by User: 250 to 2000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 29/09/22

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Friday	2 days

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

Selected survey types:

Manual count	3 days
Directional ATC Count	0 days

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)	3
------------------------------------	---

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

Selected Location Sub Categories:

Residential Zone	3
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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.

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	X days - Selected
Servicing vehicles Excluded	3 days - Selected

Secondary Filtering selection:

Use Class:

E(a) 3 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

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

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

Population within 5 miles:

5,001 to 25,000	1 days
125,001 to 250,000	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	2 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.

Petrol filling station:

Included in the survey count	0 days
Excluded from count or no filling station	3 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	3 days
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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	3 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	NY-01-O-03 FOREST ROAD NORTHALLERTON	CO-OPERATIVE		NORTH YORKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Gross floor area:	305 sqm		
	Survey date: MONDAY	19/09/16		Survey Type: MANUAL
2	SD-01-O-01 THE CIRCLE SWINDON	ONE STOP		SWINDON
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Gross floor area:	292 sqm		
	Survey date: FRIDAY	23/09/16		Survey Type: MANUAL
3	TW-01-O-02 ETHEL TERRACE SUNDERLAND CASTLETOWN	CO-OPERATIVE		TYNE & WEAR
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Gross floor area:	330 sqm		
	Survey date: FRIDAY	07/04/17		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/O - CONVENIENCE STORE
TOTAL 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	1	305	5.574	1	305	5.574	1	305	11.148
07:00 - 08:00	3	309	8.522	3	309	8.198	3	309	16.720
08:00 - 09:00	3	309	9.493	3	309	9.817	3	309	19.310
09:00 - 10:00	3	309	7.012	3	309	6.472	3	309	13.484
10:00 - 11:00	3	309	5.502	3	309	5.394	3	309	10.896
11:00 - 12:00	3	309	5.394	3	309	5.717	3	309	11.111
12:00 - 13:00	3	309	7.767	3	309	7.443	3	309	15.210
13:00 - 14:00	3	309	5.933	3	309	5.825	3	309	11.758
14:00 - 15:00	3	309	5.717	3	309	5.933	3	309	11.650
15:00 - 16:00	3	309	6.041	3	309	5.933	3	309	11.974
16:00 - 17:00	3	309	7.767	3	309	7.659	3	309	15.426
17:00 - 18:00	3	309	8.091	3	309	8.091	3	309	16.182
18:00 - 19:00	3	309	10.356	3	309	10.140	3	309	20.496
19:00 - 20:00	3	309	9.385	3	309	9.169	3	309	18.554
20:00 - 21:00	2	318	2.992	2	318	2.992	2	318	5.984
21:00 - 22:00	2	318	1.732	2	318	1.890	2	318	3.622
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			107.278			106.247			213.525

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:

292 - 330 (units: sqm)

Survey date date range:

01/01/15 - 29/09/22

Number of weekdays (Monday-Friday):

3

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 show. 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-142301-230523-0530

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
 Category : A - FOOD SUPERSTORE
 TOTAL VEHICLES

Selected regions and areas:

08	NORTH WEST	
	GM GREATER MANCHESTER	1 days
09	NORTH	
	DH DURHAM	1 days

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

Primary 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: Gross floor area
 Actual Range: 800 to 1825 (units: sqm)
 Range Selected by User: 500 to 2000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/00 to 27/04/22

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Saturday 2 days

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

Selected survey types:

Manual count 2 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:

Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	1

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	1
Built-Up Zone	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.

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	X days - Selected
Servicing vehicles Excluded	2 days - Selected

Secondary Filtering selection:

Use Class:

E(a) 2 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,001 to 5,000 1 days

25,001 to 50,000 1 days

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

Population within 5 miles:

75,001 to 100,000 1 days

250,001 to 500,000 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 1 days

1.6 to 2.0 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.

Petrol filling station:

PFS is present at the site and is included in the count 0 days

PFS is present at the site but is excluded from the count 0 days

There is no PFS at the site 2 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 2 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 2 days

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

LIST OF SITES relevant to selection parameters

1	DH-01-A-02	SAINSBURY'S	DURHAM
	SUNDERLAND ROAD		
	DURHAM		
	GILESGATE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	800 sqm	
	Survey date: SATURDAY	25/10/08	Survey Type: MANUAL
2	GM-01-A-25	MARKS AND SPENCER	GREATER MANCHESTER
	WASHWAY ROAD		
	SALE		
	Edge of Town Centre		
	Built-Up Zone		
	Total Gross floor area:	1825 sqm	
	Survey date: SATURDAY	22/05/04	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/A - FOOD SUPERSTORE
TOTAL 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	1	1825	0.438	1	1825	0.110	1	1825	0.548
07:00 - 08:00	2	1313	0.648	2	1313	0.495	2	1313	1.143
08:00 - 09:00	2	1313	2.971	2	1313	1.524	2	1313	4.495
09:00 - 10:00	2	1313	4.343	2	1313	3.505	2	1313	7.848
10:00 - 11:00	2	1313	4.990	2	1313	4.229	2	1313	9.219
11:00 - 12:00	2	1313	5.105	2	1313	5.257	2	1313	10.362
12:00 - 13:00	2	1313	5.143	2	1313	4.952	2	1313	10.095
13:00 - 14:00	2	1313	5.829	2	1313	6.095	2	1313	11.924
14:00 - 15:00	2	1313	5.219	2	1313	5.714	2	1313	10.933
15:00 - 16:00	2	1313	5.257	2	1313	3.771	2	1313	9.028
16:00 - 17:00	2	1313	4.686	2	1313	5.219	2	1313	9.905
17:00 - 18:00	2	1313	4.648	2	1313	5.105	2	1313	9.753
18:00 - 19:00	2	1313	2.895	2	1313	3.314	2	1313	6.209
19:00 - 20:00	2	1313	1.105	2	1313	1.410	2	1313	2.515
20:00 - 21:00	1	800	2.375	1	800	3.125	1	800	5.500
21:00 - 22:00	1	800	1.375	1	800	1.750	1	800	3.125
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			57.027			55.575			112.602

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:

800 - 1825 (units: sqm)

Survey date range:

01/01/00 - 27/04/22

Number of weekdays (Monday-Friday):

0

Number of Saturdays:

2

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

APPENDIX 4 – PROPOSED UNITS TRICS

Calculation Reference: AUDIT-142301-230523-0559

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : C - INDUSTRIAL UNIT
 TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	BO BEDFORD	1 days
03	SOUTH WEST	
	BR BRISTOL CITY	1 days
	GS GLOUCESTERSHIRE	1 days
04	EAST ANGLIA	
	NF NORFOLK	2 days
	PB PETERBOROUGH	1 days
05	EAST MIDLANDS	
	NN NORTH NORTHAMPTONSHIRE	1 days
06	WEST MIDLANDS	
	WM WEST MIDLANDS	1 days
08	NORTH WEST	
	BP BLACKPOOL	1 days
	LC LANCASHIRE	2 days
09	NORTH	
	CB CUMBRIA	1 days
	TV TEES VALLEY	1 days
10	WALES	
	VG VALE OF GLAMORGAN	1 days

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

Primary 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: Gross floor area
 Actual Range: 256 to 1772 (units: sqm)
 Range Selected by User: 250 to 2000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 29/09/22

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Tuesday	1 days
Wednesday	1 days
Thursday	8 days
Friday	3 days

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

Selected survey types:

Manual count	14 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	10

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:

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.

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	1 days - Selected
Servicing vehicles Excluded	13 days - Selected

Secondary Filtering selection:

Use Class:

Not Known	14 days
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This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Filter by Site Operations Breakdown:

All Surveys Included

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,001 to 5,000	2 days
5,001 to 10,000	2 days
10,001 to 15,000	5 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
100,001 to 125,000	1 days
125,001 to 250,000	8 days
250,001 to 500,000	1 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	9 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.

Travel Plan:

No	14 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	14 days
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This data displays the number of selected surveys with PTAL Ratings.

Covid-19 Restrictions	Yes	At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions
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LIST OF SITES relevant to selection parameters

1	BO-02-C-01 POSTLEY ROAD BEDFORD KEMPSTON Edge of Town Industrial Zone Total Gross floor area: 1045 sqm Survey date: THURSDAY 15/10/20	PUMPS, MOTORS & FANS	BEDFORD	Survey Type: MANUAL
2	BP-02-C-01 CHORLEY ROAD BLACKPOOL LITTLE CARLETON Edge of Town Industrial Zone Total Gross floor area: 1010 sqm Survey date: THURSDAY 20/06/19	POWDER COATINGS	BLACKPOOL	Survey Type: MANUAL
3	BR-02-C-02 SOUTH LIBERTY LANE BRISTOL Edge of Town Industrial Zone Total Gross floor area: 1475 sqm Survey date: TUESDAY 22/09/15	STAINLESS FITTINGS	BRISTOL CITY	Survey Type: MANUAL
4	CB-02-C-02 BLACKDYKE ROAD CARLISLE KINGSTOWN IND. ESTATE Edge of Town Industrial Zone Total Gross floor area: 715 sqm Survey date: FRIDAY 15/10/21	STEEL FABRICATION	CUMBRIA	Survey Type: MANUAL
5	GS-02-C-02 DAVY WAY GLOUCESTER HARDWICKE Edge of Town Industrial Zone Total Gross floor area: 1630 sqm Survey date: FRIDAY 23/04/21	MARINE ENGINE PRODUCTION	GLOUCESTERSHIRE	Survey Type: MANUAL
6	LC-02-C-05 FURNESS DRIVE POULTON-LE-FYLDE Edge of Town Industrial Zone Total Gross floor area: 775 sqm Survey date: WEDNESDAY 30/06/21	NUTRITION MANUFACTURE	LANCASHIRE	Survey Type: MANUAL
7	LC-02-C-06 TOLLGATE ROAD BURSCOUGH Edge of Town Industrial Zone Total Gross floor area: 700 sqm Survey date: THURSDAY 21/04/22	STEEL FABRICATION	LANCASHIRE	Survey Type: MANUAL
8	NF-02-C-03 ELVIN WAY NORWICH HELLESDON Edge of Town Industrial Zone Total Gross floor area: 260 sqm Survey date: THURSDAY 07/11/19	SHEET METAL CONTRACTOR	NORFOLK	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	NF-02-C-04 FLETCHER WAY NORWICH UPPER HELLESDON Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: 690 sqm Survey date: THURSDAY 14/11/19	EXHIBITION DESIGN & MANUF.	NORFOLK	Survey Type: MANUAL
10	NN-02-C-01 TREVITHICK ROAD CORBY Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: 702 sqm Survey date: THURSDAY 22/10/20	RENEWABLE ENGINEERING	NORTH NORTHAMPTONSHIRE	Survey Type: MANUAL
11	PB-02-C-01 NEWARK ROAD PETERBOROUGH FENGATE Edge of Town Industrial Zone Total Gross floor area: 1772 sqm Survey date: THURSDAY 29/09/22	STEEL FABRICATOR	PETERBOROUGH	Survey Type: MANUAL
12	TV-02-C-02 PARKVIEW ROAD WEST HARTLEPOOL Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: 1050 sqm Survey date: FRIDAY 04/09/20	FLUID ENGINEERING	TEES VALLEY	Survey Type: MANUAL
13	VG-02-C-01 VERLON CLOSE BARRY Edge of Town Industrial Zone Total Gross floor area: 1500 sqm Survey date: THURSDAY 06/05/21	ALCOHOL ANALYSIS PRODUCTS	VALE OF GLAMORGAN	Survey Type: MANUAL
14	WM-02-C-05 ICKNIELD STREET BIRMINGHAM HOCKLEY Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: 256 sqm Survey date: MONDAY 22/11/21	INDIAN CATERING	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 02 - EMPLOYMENT/C - INDUSTRIAL UNIT

TOTAL 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	4	987	0.025	4	987	0.000	4	987	0.025
06:00 - 07:00	5	1115	0.251	5	1115	0.072	5	1115	0.323
07:00 - 08:00	13	1025	0.503	13	1025	0.068	13	1025	0.571
08:00 - 09:00	13	1025	0.653	13	1025	0.210	13	1025	0.863
09:00 - 10:00	14	970	0.331	14	970	0.265	14	970	0.596
10:00 - 11:00	14	970	0.390	14	970	0.287	14	970	0.677
11:00 - 12:00	14	970	0.272	14	970	0.280	14	970	0.552
12:00 - 13:00	14	970	0.272	14	970	0.353	14	970	0.625
13:00 - 14:00	14	970	0.309	14	970	0.376	14	970	0.685
14:00 - 15:00	14	970	0.258	14	970	0.236	14	970	0.494
15:00 - 16:00	14	970	0.243	14	970	0.398	14	970	0.641
16:00 - 17:00	14	970	0.140	14	970	0.427	14	970	0.567
17:00 - 18:00	14	970	0.044	14	970	0.545	14	970	0.589
18:00 - 19:00	14	970	0.037	14	970	0.066	14	970	0.103
19:00 - 20:00	5	841	0.024	5	841	0.071	5	841	0.095
20:00 - 21:00	4	987	0.000	4	987	0.000	4	987	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.752			3.654			7.406

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:	256 - 1772 (units: sqm)
Survey date range:	01/01/15 - 29/09/22
Number of weekdays (Monday-Friday):	14
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-142301-230523-0523

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : F - WAREHOUSING (COMMERCIAL)
TOTAL VEHICLES

Selected regions and areas:

07	YORKSHIRE & NORTH LINCOLNSHIRE	
	WY WEST YORKSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
09	NORTH	
	TV TEES VALLEY	1 days

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

Primary 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: Gross floor area
 Actual Range: 634 to 1507 (units: sqm)
 Range Selected by User: 250 to 2000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/00 to 19/09/16

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	1 days
Tuesday	1 days
Friday	1 days

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

Selected survey types:

Manual count	3 days
Directional ATC Count	0 days

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:

Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	2

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

Selected Location Sub Categories:

Industrial Zone	1
Residential Zone	1
Built-Up Zone	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.

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	X days - Selected
Servicing vehicles Excluded	3 days - Selected

Secondary Filtering selection:

Use Class:

B8 3 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Filter by Site Operations Breakdown:

All Surveys Included

Population within 500m Range:

All Surveys Included

Population within 1 mile:

5,001 to 10,000 1 days

10,001 to 15,000 2 days

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

Population within 5 miles:

25,001 to 50,000 1 days

125,001 to 250,000 1 days

250,001 to 500,000 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 2 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 3 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 3 days

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

LIST OF SITES relevant to selection parameters

1	LC-02-F-02	WAREHOUSING	LANCASHIRE
	CHORLEY ROAD		
	PRESTON		
	WALTON-LE-DALE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	1200 sqm	
	Survey date: FRIDAY	22/06/07	Survey Type: MANUAL
2	TV-02-F-03	ELECTRICAL COMPONENTS	TEES VALLEY
	UNIT 8,NAVIGATOR COURT		
	STOCKTON-ON-TEES		
	Suburban Area (PPS6 Out of Centre)		
	Industrial Zone		
	Total Gross floor area:	634 sqm	
	Survey date: TUESDAY	28/06/11	Survey Type: MANUAL
3	WY-02-F-01	ELECTRONICS DISTRIBUTION	WEST YORKSHIRE
	MORTIMER STREET		
	CLECKHEATON		
	Edge of Town Centre		
	Built-Up Zone		
	Total Gross floor area:	1507 sqm	
	Survey date: MONDAY	19/09/16	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 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)

TOTAL 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	3	1114	0.329	3	1114	0.120	3	1114	0.449
08:00 - 09:00	3	1114	0.928	3	1114	0.239	3	1114	1.167
09:00 - 10:00	3	1114	0.239	3	1114	0.180	3	1114	0.419
10:00 - 11:00	3	1114	0.449	3	1114	0.389	3	1114	0.838
11:00 - 12:00	3	1114	0.299	3	1114	0.299	3	1114	0.598
12:00 - 13:00	3	1114	0.329	3	1114	0.389	3	1114	0.718
13:00 - 14:00	3	1114	0.269	3	1114	0.120	3	1114	0.389
14:00 - 15:00	3	1114	0.210	3	1114	0.269	3	1114	0.479
15:00 - 16:00	3	1114	0.180	3	1114	0.210	3	1114	0.390
16:00 - 17:00	3	1114	0.359	3	1114	0.389	3	1114	0.748
17:00 - 18:00	3	1114	0.120	3	1114	0.808	3	1114	0.928
18:00 - 19:00	2	917	0.000	2	917	0.109	2	917	0.109
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.711			3.521			7.232

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Parameter summary

Trip rate parameter range selected:	634 - 1507 (units: sqm)
Survey date range:	01/01/00 - 19/09/16
Number of weekdays (Monday-Friday):	3
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.