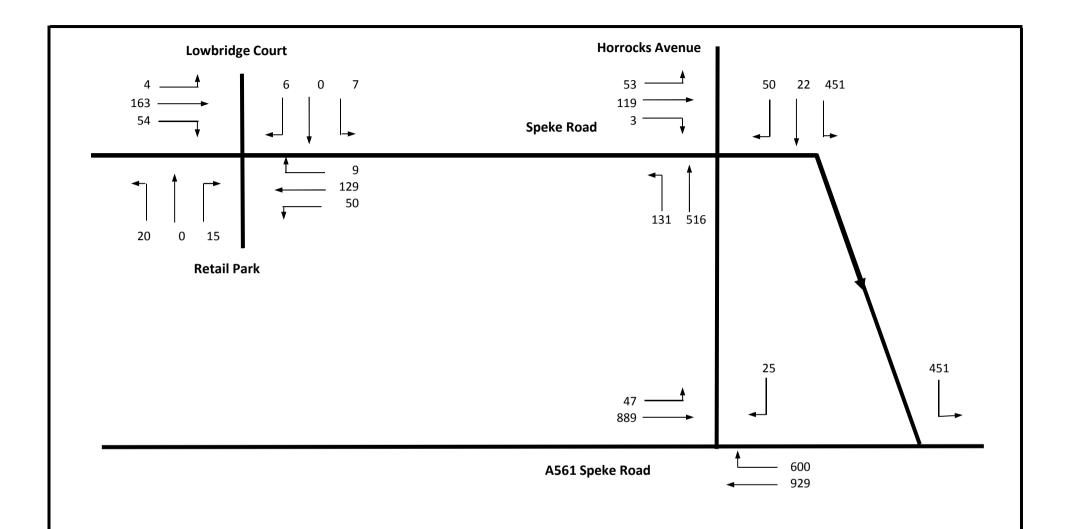


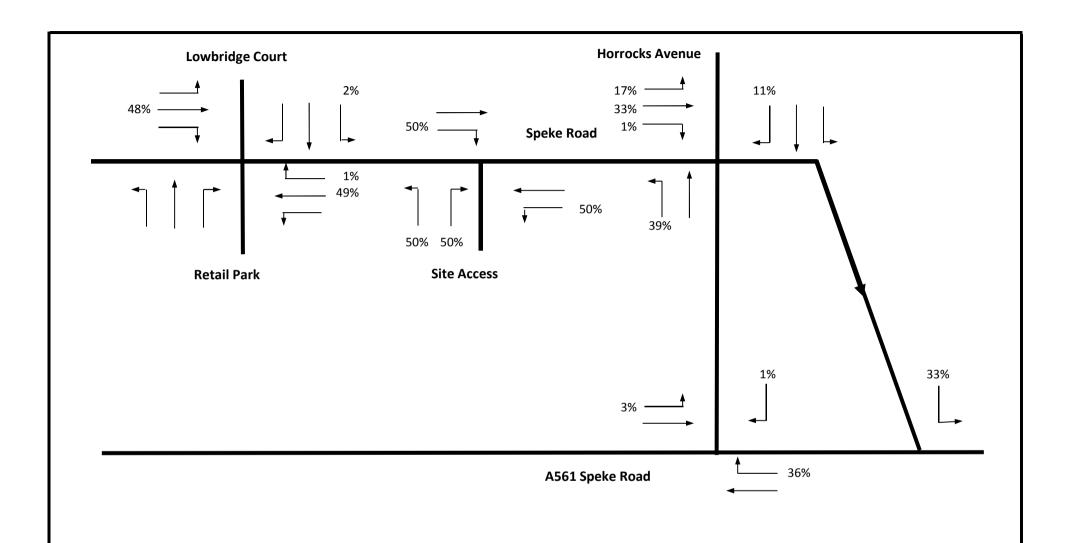
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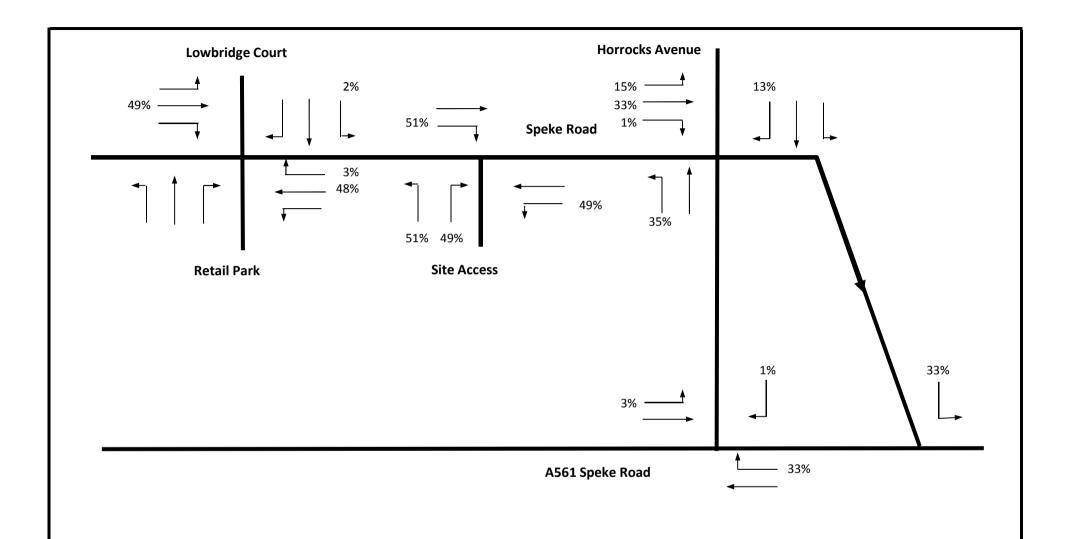
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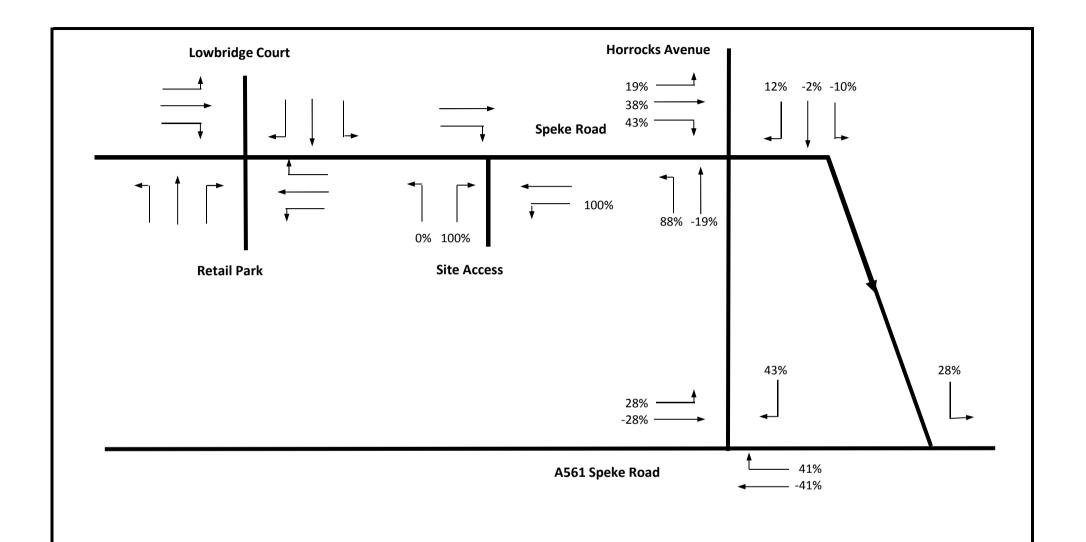
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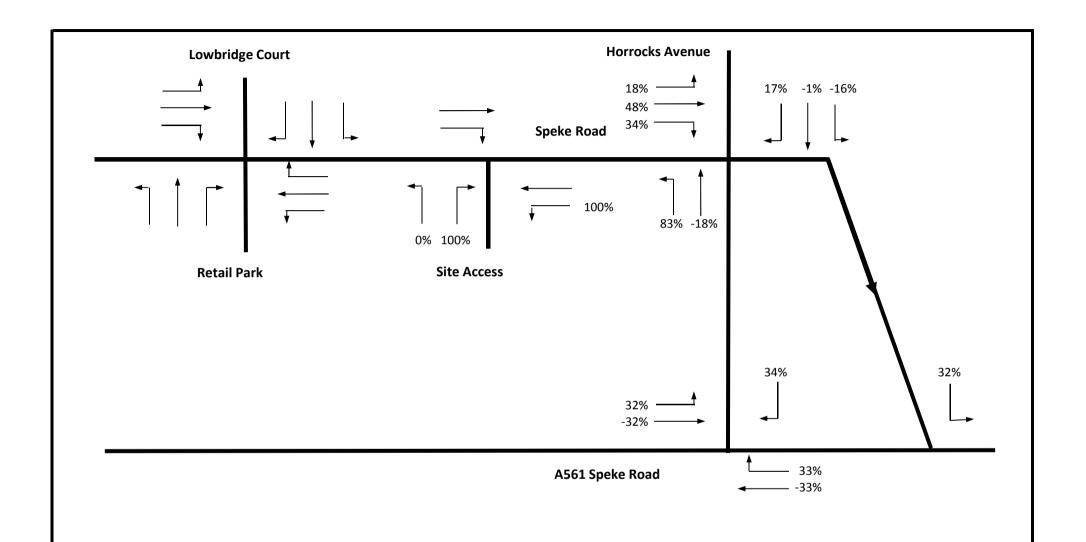
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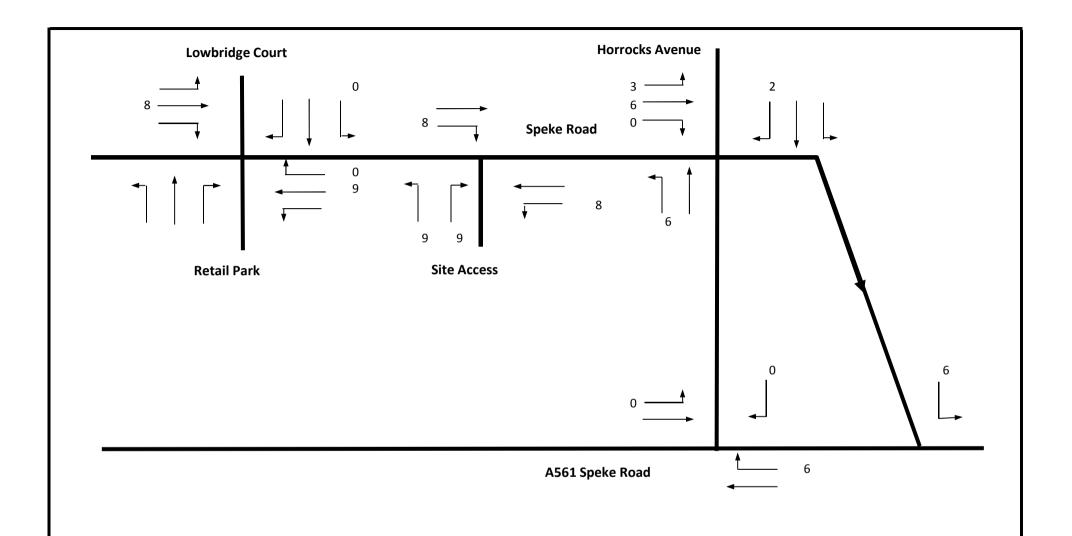
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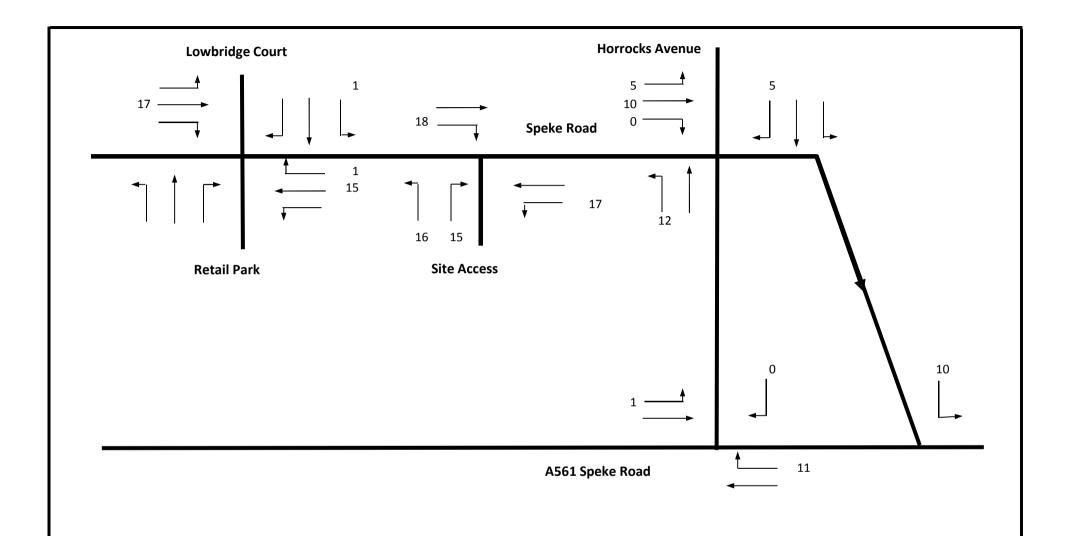
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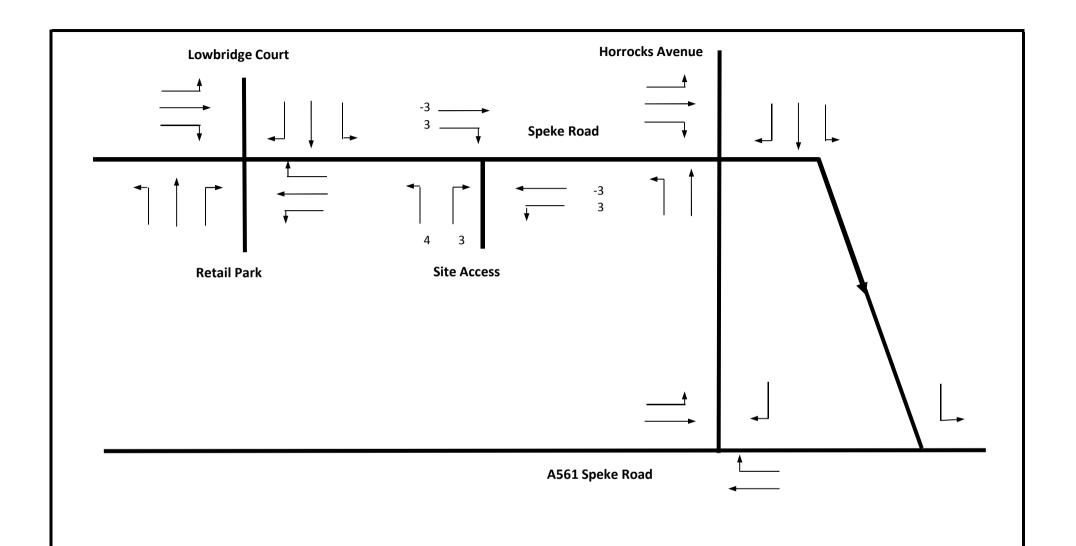
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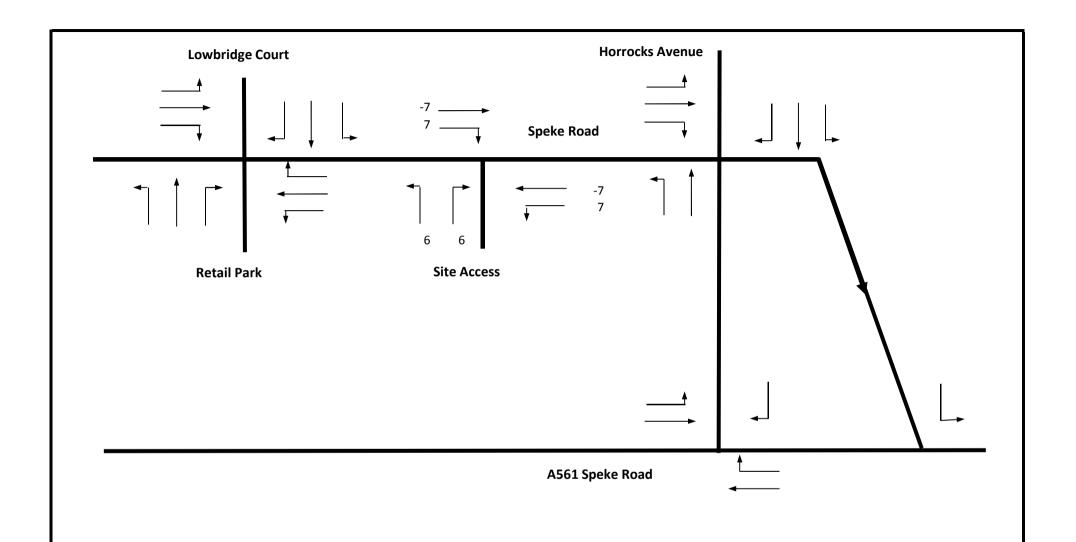
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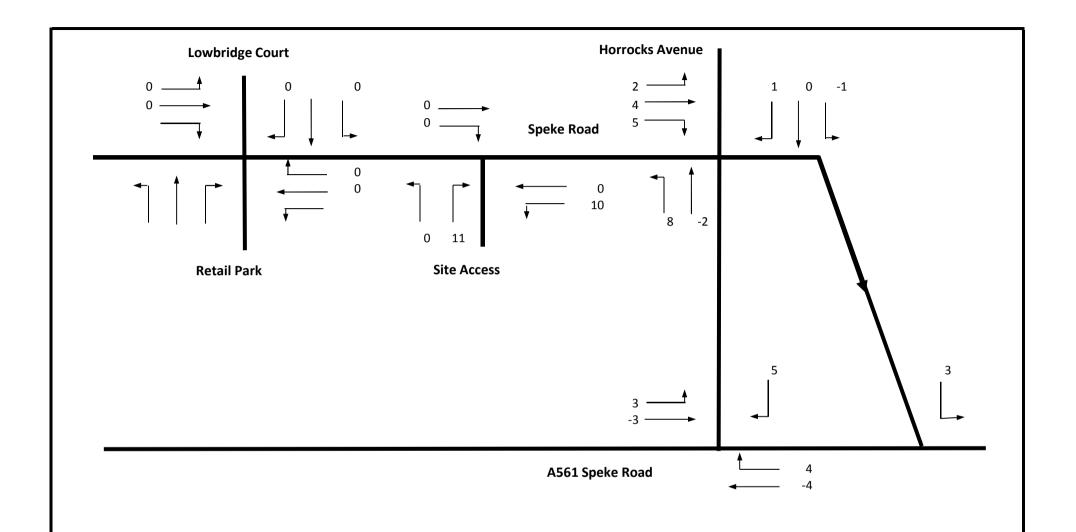
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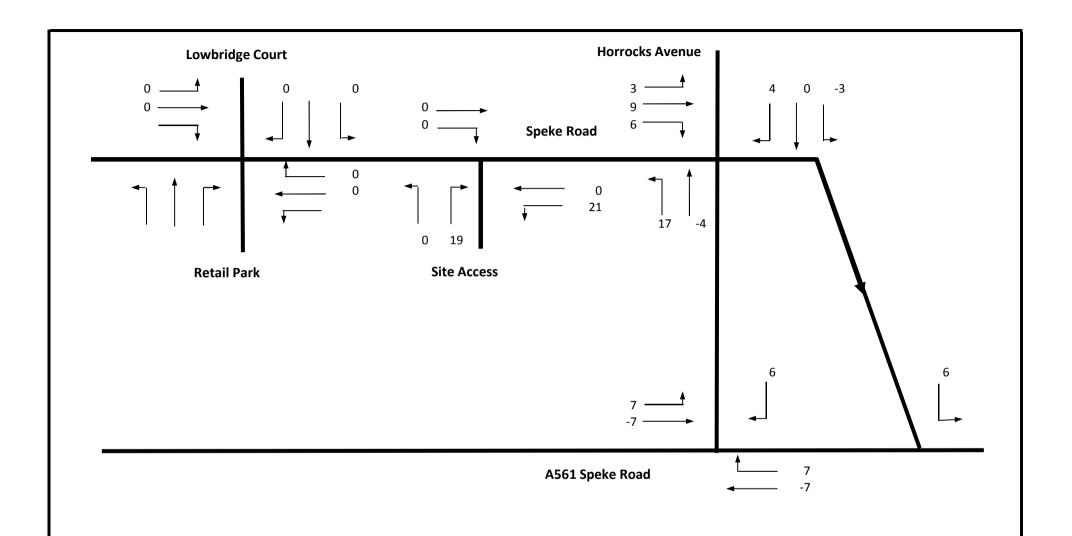
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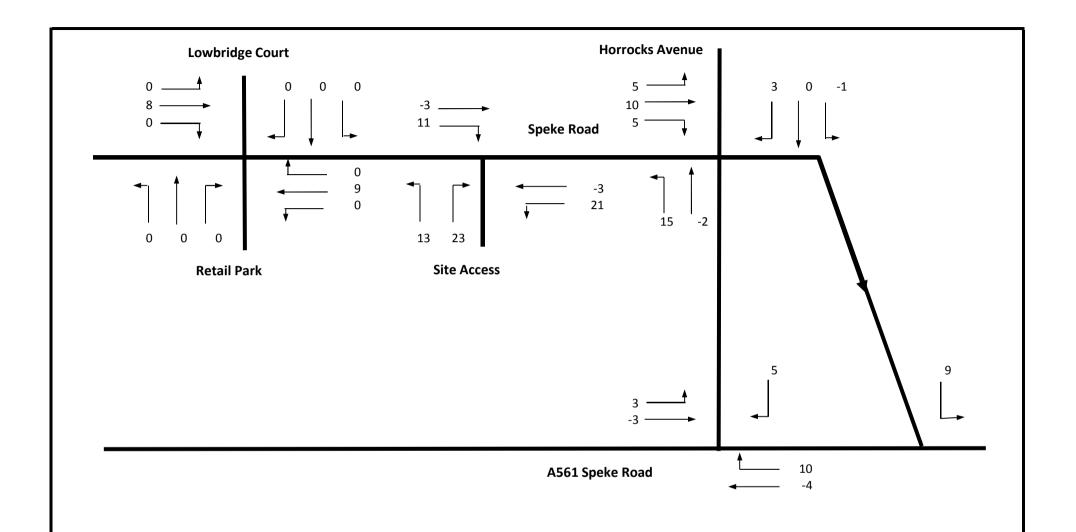
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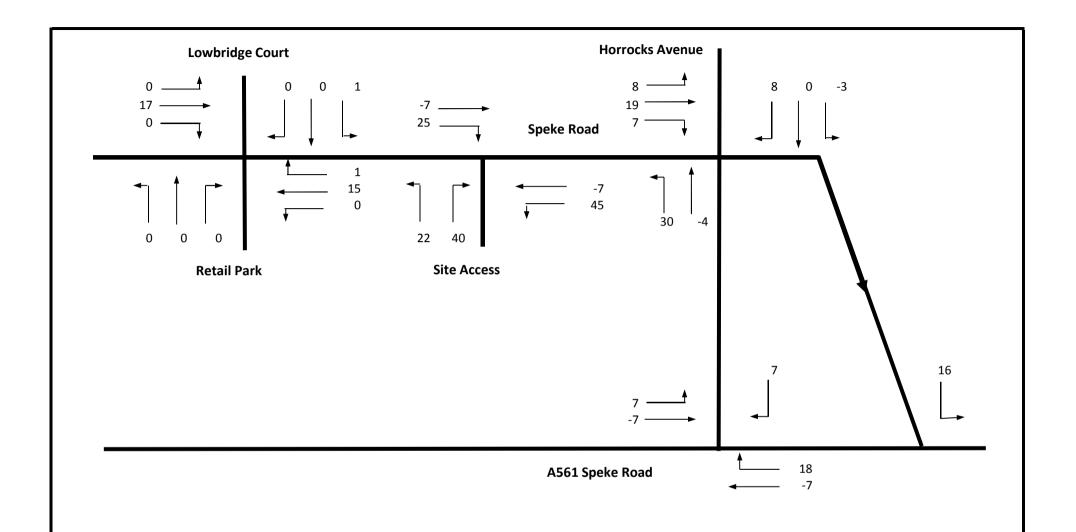
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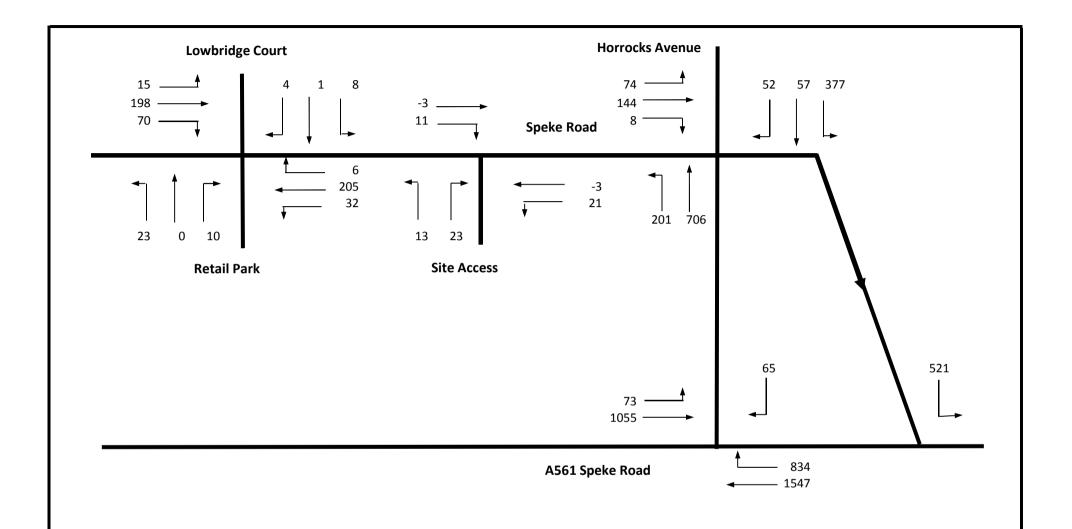
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PM PEAK HOUR (1630 - 1730)





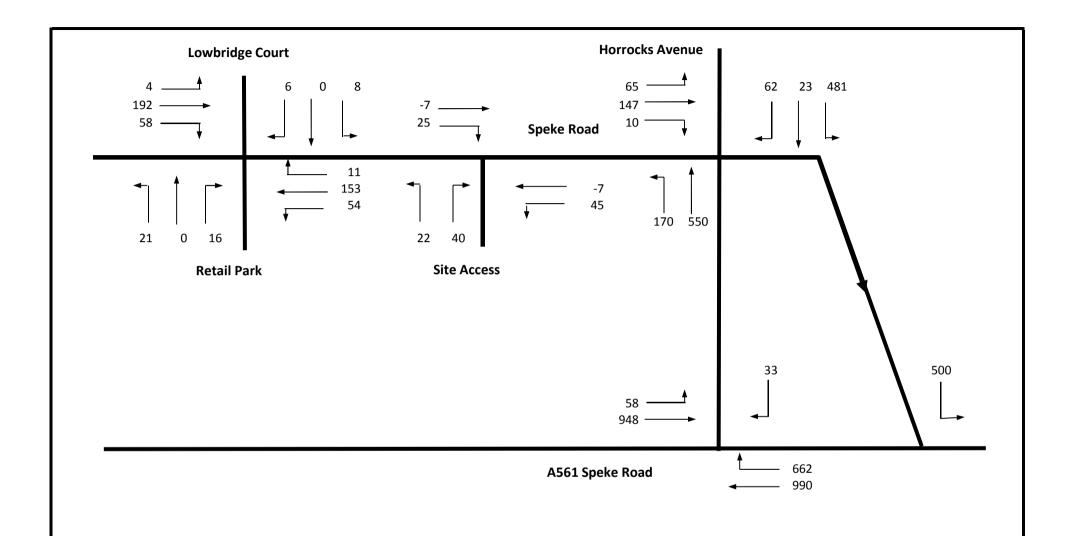
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2020 BASELINE TRIPS WITH DEVELOPMENT (PCUS) PM PEAK HOUR (1630 - 1730)





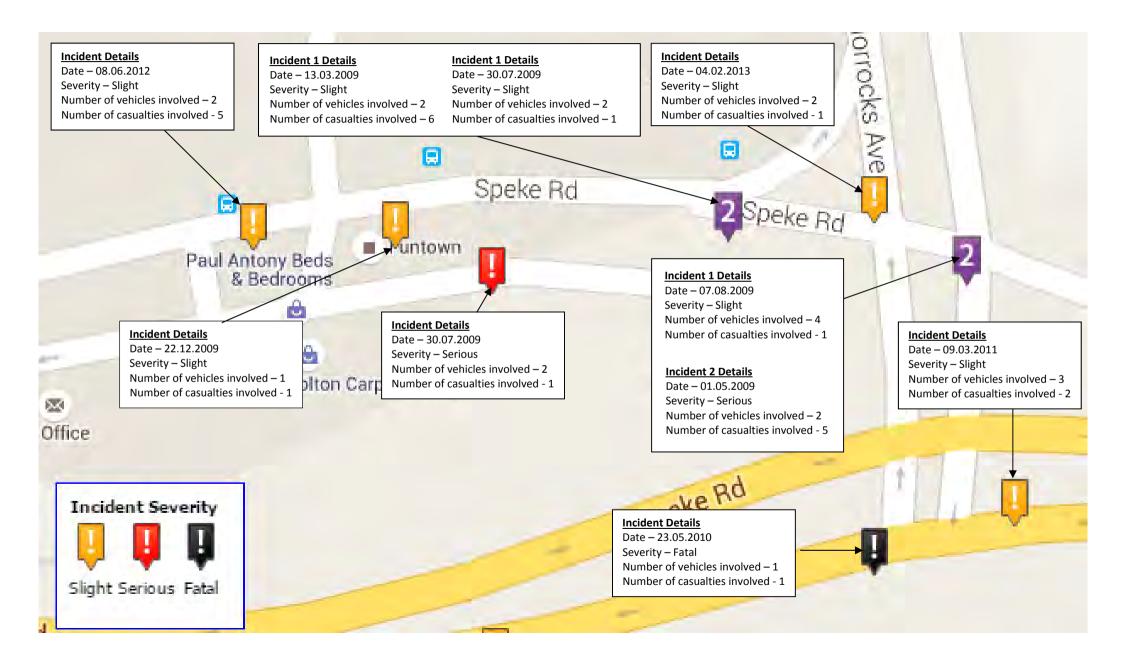
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# **APPENDICES**

# APPENDIX A CRASHMAP ACCIDENT DATA

#### **Garston Accident Plan – Extract from Crashmap.co.uk**



# APPENDIX B ACCESSIBILITY ASSESSMENT

Proposed Netto Fo	odstore accessed off Speke Road, Garston		_	_
Section A: Access D	-			Score Yes/
Has a diagram been submitted which how people move to and through the place and how this links to				
surrounding roads, footpaths and sight lines?  Section B: Access on foot				No Score
Section B. Access o		to and for padest	rians passing	Yes/
Saftey	Is there safe pedestrian access to and within the site, and for pedestrians passing the site? Including footways no less than 2m on both sides of the road?			
Location	Housing development: Is the development within 800 metres of a district or local centre (see Accessibility Map 1 in Appendix H)?  Other development: Is the density of local housing (i.e. within 800 metres) greater than 50 houses per hectare (see Accessibility Map 4 in Appendix H)?	Yes	2 points	2
	Dana lainen latian landa anno incide tha aite	No	0 points	
Internal Layout	Does 'circulation' and access inside the site reflect direct, safe and easy to use pedestrian routes for all, with priority given to pedestrians when they have to cross roads or cycle routes?	Yes	1 point	1
		No	0 points	
External Layout	Are there barriers between site and local facilities or housing, which restrict pedestrian access? (See Merseyside Code of Practice on Access and Mobility), e.g.  - No dropped kerbs at crossing or on desire lines;  - No steep gradients;  - A lack of a formal crossing where there is heavy traffic;  - Security concerns, e.g. as a result of lack of lighting	There are barriers	- 1 point	1
		There are no barriers	1 point	
Other	Links to identified recreational walking network (see Accessibility Map 1)			Yes /
Section B Summary	Minimum Score (from Table 3)			2
	Actual score			4
Comments or action needed to correct any shortfall: No action required				
Section C: Access b	y Cycle			Score
Saftey  Are there safety issues either turning into or out of the site or at road junctions within 400 metres of the site (e.g. dangerous right turns for cyclists due to the level of traffic)?			Yes / No	

Cycle Parking	Does the development meet cycle parking standards in a secure location with natural surveillance? (see table 7) - or where appropriate contribute to communal cycle parking facilities?			
Location	Housing developments: Is the development within 1 mile of a district or local centre (see Accessibility Map 1)  Other development: Is the density of existing local housing (e.g. within 1 mile) more than 50 houses per hectare (see Accessibility Map 4)		2 points	2
		No	0 points	
Internal Layout	Does 'circulation' and access inside the site reflect direct and safe cycle routes, with priority given to cyclists where they meet motor vehicles?  Yes			1
		No	0 points	
External access	The development <b>is</b> within 400 metres of an existing route (see accessibility Map 1) and is connected or create a link to cycle routes, or develop a route	1 point	1	
	The development <b>is not</b> within 400 metres of an exproposed cycle route (see Accessibility Map 1)	- 1 point		
Other	Development includes shower facilities and locker	1 point	1	
Section C summary	Minimum Score (from table 3)	5		
	Actual score		5	
_	Comments or action needed to correct any shortfa	ıll:		•
Section D: Access b			Score	
Location and access to public transport	Is the site within a 200 metre walk of a bus stop and/or within 400 metres of a rail station (see Accessibility Map 2)	Yes	2 points	2
		No	0 points	
	Are these barriers on direct and safe pedestrian routes to bus stops or rail stations, i.e.  - A lack of dropped kerbs  - Pavements less than 2.00 metre wide  - A lack of formal crossings where there is heavy traffic  - Bus access kerbs	There are barriers	0 points	1
		There are no barriers	1 point	
Frequency	High (4 or more services or trains an hour)	•	2 points	2

	Medium (2 or 3 bus services or trains an hour)	1 point		
	Low (less than 2 bus services or trains an hour)	0 points		
Other	The proposal contributes to bus priority measures serving the site	1 point	0	
	The proposal contributes to bus stops, bus interchange or bus or rail stations in the vicinity and/or provides bus stops or bus interchange in the site	1 point		
	The proposal contributes to an existing or supported bus service (Merseytravel or Community Transport)	1 point		
Section D summary	Minimum Score (from Table 3)	5		
•	Actual score	5		
	Comments or action needed to correct any shortfall: No action requi	red		
Section E: Vehicle	Access and Parking	Score		
Vehicle access and circulation	Is there safe access to and from the road?	Yes/ No?		
	Can the site be adequately serviced?	Yes/ No?		
	Is the safety and convenience of other users (pedestrians, cyclists and public transport) affected by the proposal?	Yes/ No?		
	Has access for the emergency services been provided?	Yes/ No?		
	For development, which generates significant freight movements, is the site easily accessed from the road or rail freight route networks(i.e. minimising the impact of traffic on the local roads and neighbourhoods) (see Accessibility Map 3)?	N/A		
Parking	The off-street parking provided is more that advised for that development type	Yes/ No?		
	The off-street parking provided is as advised for that development?	1 point		
	The off-street parking provided is less than 75% of the amount advised for that development type (or shares parking provision with another development)?			
	For development in controlled parking zones:			
	- is it a car free development	1 point		
	- support the control or removal of on-street parking (including the provision of disabled spaces) or contributes to other identified measures in the local parking strategy (including car clubs)?	1 point		
Summary	Minimum Score	3		
	Actual Score	1		
	Comments or action needed to correct any shortfall: No action requi	red		

# APPENDIX C FRAMEWORK TRAVEL PLAN



## **Netto**

# PROPOSED DISCOUNT FOODSTORE, SPEKE ROAD, GARSTON

**Framework Travel Plan** 

VN50523

October 2015



### **REPORT CONTROL**

**Document:** Framework Travel Plan

**Project:** Proposed Discount Foodstore, Speke Road, Garston

**Client:** Netto

Job Number: VN50523

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Plan.docx

# **Document Checking:**

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Review By	Richard Whiting	Initialled:	RW

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1	09/10/15	First Draft	RW
2	22/10/2015	FINAL	RW
3			
4			



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### **PLANS**

Plan TP1 Site Location

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#### 1 INTRODUCTION

#### 1.1 Introduction

1.1.1 This document sets out a framework for a workplace Travel Plan to be submitted to supplement the forthcoming application for a Netto Discount Foodstore on land located off Speke Road in Garston, Liverpool.

#### 1.2 Site Location

1.2.1 The location of the site is shown in **Plan TP1**, whilst its location in relation to the surrounding highway network is shown in **Plan TP2**.

#### 1.3 Development Proposals

- 1.3.1 The planning application proposes the development of a Netto foodstore with a gross internal floor area (GIA) of 1,045 sqm (11,249 sqft), including a net sales area of 833 sqm (8,971 sqft). A layout of the proposed development is show in **Plan TP3**.
- 1.3.2 The development will provide a total of 65 car parking spaces, including 3 which are identified for mobility impaired users and 3 which are allocated for staff parking.
- 1.3.3 Customer and service vehicle access to the site is proposed from a new priority controlled junction with Speke Road.
- 1.3.4 Pedestrian access to the site will be provided from both Speke Road and the adjacent retail park to the west of the site. A zebra crossing will be provided within the site to serve the key pedestrian desire line with Speke Road.
- 1.3.5 The development will also provide 10 customer cycle parking spaces and 4 staff cycle parking spaces. Lockers will also be provided for staff.

#### 1.4 The Travel Plan

1.4.1 The preparation and adoption of a Travel Plan is an important element of managing the demand for travel to all modern developments. The Department for Transport issued a guide on the preparation of such Travel Plans in April 2009 in a document entitled "Good Practice Guidelines – Delivering Travel Plans through the Planning Process".



1.4.2 The National Planning Policy Framework (NPPF) document (March 2012) also highlights the role that Travel Plans can play in facilitating sustainable travel. NPPF stating that:

'All developments which generate significant amounts of movements should be required to provide a Travel Plan'.

- 1.4.3 The foodstore Travel Plan is a long-term strategy for reducing the dependence of staff and customers on travel by private car.
- 1.4.4 It should be noted that this Framework Travel Plan is a working document and is recognised as being the first stage in the Travel Plan process. This is primarily because, as the site is yet to be constructed and the foodstore occupied, it is not desirable to simply list a series of policies to be implemented once the site is operational. Instead, it is preferable to provide a more detailed Travel Plan that takes into account the residential locations of staff and their current modes of travel to work once the store is operational.
- 1.4.5 As such the document will set out the principle strategies of the Travel Plan which will evolve into a formally agreed document once the development is open and the foodstore is occupied.
- 1.4.6 Whilst consideration will be given to promoting sustainable modes to customers, this Travel Plan primarily sets out a framework for the staff who will be employed at the foodstore.

#### 1.5 Travel Plan Aims

- 1.5.1 The aims of the strategy are:
  - To encourage staff and customers to use alternatives to the private car;
  - To increase the awareness of the advantages and potential for travel by more environmentally friendly modes, and
  - To introduce a package of management measures that will facilitate travel by modes of transport other than the private car;
- 1.5.2 The principle strands of the Plan are set out as follows;
  - Appointment of a Travel Plan Co-ordinator;
  - Ensuring travel awareness;



- Ensuring the availability of travel information for staff;
- The promotion of car sharing amongst staff;
- The creation of a Cycle User Group.

#### 1.6 Plan Administration

- 1.6.1 Netto will be required to designate a Travel Plan Co-ordinator for the development. Essentially this person will provide a liaison in implementing the Plan with the local authority.
- 1.6.2 The position of Travel Plan Co-ordinator will be appointed at least 3 months prior to commencement of the operation of the foodstore.
- 1.6.3 Once a staff member is appointed Travel Plan Co-ordinator details of the nominated person will be submitted to the Planning and Highway Authority. Similarly, the Travel Plan Co-ordinator will be advised of appropriate contact personnel at these bodies. Any change in the Travel Plan Co-ordinator will be notified to the pertinent authorities.
- 1.6.4 The Travel Plan Co-ordinator will be the first point of contact for staff and other outside organisations in all matters regarding travel. He/she will maintain an up-to-date file containing all staff to and from staff relating to the Travel Plan.
- 1.6.5 The Travel Plan Co-ordinator position will last a minimum of 5 years beyond commencement of the operation of the foodstore to ensure that the Travel Plan is adopted as an integral part of the site.
- 1.6.6 The key responsibilities of the Travel Plan Co-ordinator are illustrated in **Table 6.1**.



#### 2 ACCESSIBILITY BY SUSTAINABLE MODES OF TRAVEL

#### 2.1 Introduction

- 2.1.1 **Section 2** of the report considers the accessibility of the site by the following modes of transport:
  - Accessibility on foot;
  - Accessibility by cycle;
  - Accessibility by bus;
  - Accessibility by rail.

#### 2.2 Accessibility on Foot

- 2.2.1 The site is exceptionally well located to encourage journeys on foot.
- 2.2.2 The site is located within an extensive pedestrian network, with street lit footpaths provided along both sides of Speke Road, the southern of which connect with the pedestrian access points to the site. Pedestrian movements at all junctions are also supported by dropped kerbs, assisting access for all users.
- 2.2.3 North / south pedestrian movements across Speke Road are very well served by signalised pedestrian crossings located at the Speke Road / Horrocks Lane junction which is situated approximately 100 metres to the east of the proposed pedestrian access to the site. This crossing includes dropped kerbs and tactile paving and dedicated green man crossing provision across the north and part of the western arms.
- 2.2.4 To the west of the proposed site access footways are present aiding pedestrian links towards the Speke Road / Church Road / St Mary's Way signalised junction which includes push button pedestrian provision on all four arms. From this junction pedestrian links are provided to residential areas to the north and west of the site.
- 2.2.5 The Chartered Institution of Highways and Transportation document entitled 'Providing for Journeys on Foot' provides guidance on what are considered to be acceptable walking distances. Table 3.2 of the document states that the acceptable maximum walking distance for commuting trips is 2 kilometres. A maximum distance for pedestrians to town centre facilities such as a foodstore is considered to be 800 metres.



- 2.2.6 In accordance with this guidance **Plan TP4** demonstrates the 800 metre and 2 kilometre pedestrian catchments of the site. This plan demonstrates that the 800 metre catchment of the site encompasses a sizeable residential area of Garston including properties accessed off St Marys Road, Woolton Road and Russel Road. Meanwhile the site's 2 kilometre catchment includes the vast majority of Garston and includes areas of Cressington and Grassendale.
- 2.2.7 **Plan TP4** therefore demonstrates that the site is ideally placed to encourage both retail and employment based trips to be undertaken on foot, with these trips supported by the comprehensive pedestrian infrastructure located in the vicinity of the site.

#### 2.3 Accessibility by Bicycle

- 2.3.1 An alternative mode of travel to the site would be achieved by bicycle.
- 2.3.2 The National Planning Policy Framework (NPPF) replaced all existing planning policy statements. However, the PPG 13 companion guide 'A Guide to Better Transport Reducing the need to travel through land use and transport planning' has not been replaced by the NPPF and as such is still considered to provide relevant guidance. With respect to cycling this document states that "the bicycle is an effective mode for short trips of up to 3 to 5 miles (5-8km)."
- 2.3.3 With this is mind **Plan TP5** displays a 5 kilometre cycle catchment from the site. This would equate to a journey of around 25 minutes using a leisurely cycle speed of 12 kilometres per hour, and based upon the above guidance this catchment represents the lower threshold of the potential cycle catchment of the site.
- 2.3.4 This plan illustrates that the 5 kilometre cycling catchment area encompasses the whole of Garston and encompasses areas of Mossley Hill, Dingle, Belle Vale, Gateacre and Hunts Cross.
- 2.3.5 The highway network in the vicinity of the site is typified by flat, well-lit carriageways, with vehicle speeds on Speke Road relatively low. All these elements are conducive with providing a cycle friendly environment.
- 2.3.6 In addition reference to the SUSTRANS cycle map illustrates that local cycle routes operate on Horrocks Road in close proximity to the site's north-eastern frontage, which provides excellent north / south connectivity. There is also a local cycle route which operates on Island Road and Island Road South approximately 240 metres north of the site.



- 2.3.7 To encourage cycle trips to the site the development will provide 5 Sheffield cycle hoops, which will provide capacity for 10 bicycles. This provision will be conveniently located in a visible location close to the store entrance.
- 2.3.8 The proposed development is therefore considered to be accessible by bicycle.

#### 2.4 Accessibility by Bus

- 2.4.1 The site is very well located for travel by bus, with a total of 10 bus stops located on Speke Road,
  Horrocks Avenue, Church Road and Bank's Road all within 400 metres of the site.
- 2.4.2 All these stops are accessible from the development via the existing pedestrian infrastructure in the vicinity of the site, and are also considered to be accessible based upon the guidelines quoted in the CIHT publication 'Planning for Public Transport in Development'.
- 2.4.3 Of these the closest stops are located on Speke Road. An eastbound bus stop is located directly opposite the site (a further eastbound stop is also located on Speke Road a short distance to the west), while the westbound stop is located only 100 metres from the site access. Both Speke Road stops include a shelter, seating and timetable information and carriageway bus box road markings.
- 2.4.4 A summary of the frequency of bus services located within 400 metres of the site is provided in **Table**2.1.

Service No.		Approximate Frequency (services per hour)					
	Route	Mon-Fri					
		AM Peak	Mid-day	PM Peak	Evening	Sat	Sun
80/80A/ 80D/80E	Liverpool John Lennon Airport  - Liverpool City Centre (Via Liverpool South Parkway)	3	3	3	3	4	2
82/82A/8 2B/82D	Liverpool – Speke (Via Garston)	10	10	10	3	4	4
86/86A/8 6D	Garston to Liverpool (Via Liverpool South Parkway)	4	5	5	5	4	4
166	Garston circular	1	1	1	1	1	1
167	Garston – Grassendale	2	2	2	2	2	0



188	Belle Vale – Liverpool South Parkway - Halewood	1	1	1	1	1	1
201	Royal Liverpool Hospital – Speke	1	1	1	1	1	1
266	Belle Vale – Liverpool South Parkway - Halewood	1	1	1	1	1	1
288	Belle Vale – Halewood - Garston	1	1	1	1	1	1

Table 2.1: Bus Services Operating Within the Site Vicinity

- 2.4.5 **Table 2.1** demonstrates that the services operating on Speke Road, Horrocks Avenue, Church Road and Bank's Road provide 24 services during the weekday morning peak and 25 services during the weekday evening peak, as well as frequent services on weekends. These services provide links to major destinations Liverpool City Centre, St Helens and Speke, together with local stops.
- 2.4.6 It can be seen therefore that there are a number of service that operate within a short walk of the site providing the opportunity for both customers and employees to utilise this mode of travel. The development site is therefore concluded to be highly accessible by bus.

#### 2.5 Accessibility by Rail

- 2.5.1 Liverpool South Parkway Station is located on Station Road approximately 1 kilometre to the southeast of the site. Services from Liverpool South Parkway station are operated by Merseyrail, and the station is accessible from the site via the existing pedestrian network along Horrocks Avenue and Woolton Road.
- 2.5.2 While the distance of the station from the site means it is unlikely customers would use this form of travel, it would provide an opportunity for employees to undertake linked commuting trips. In particular the opportunity exists for employees to undertake linked rail/ cycle journeys, with Merseyrail welcoming passengers with bikes and providing dedicated cycle storage areas at each end of their trains
- 2.5.3 Rail service operated from Liverpool South Parkway Station are summarised in **Table 2.2** below.



Destination	Max. Frequency Monday	γ (Peak Periods) to Friday
Destination	Frequency	Duration
Liverpool Lime Street – Birmingham New Street	30 minutes	1 hour and 35 minutes
Norwich – Liverpool Lime Street	30 minutes	5 hours
Hunts Cross – Southport	20 minutes	1 hour
Liverpool Lime Street – Scarborough	1 hour	3 hours
Manchester Oxford Road  – Liverpool Lime Street	30 minutes	35 minutes

Table 2.2: Rail Services Operating from Liverpool South Parkway Station

- 2.5.4 **Table 2.2** demonstrates that frequent rail services are operated to Manchester Oxford Road, Birmingham New Street, Southport, Liverpool Lime Street and various other locations. More local stops accessible by rail include Cressington, Brunswick, Aigburth and Hunts Cross.
- 2.5.5 It is therefore considered that rail services offer a feasible alternative employment based trips and as such the development site is concluded to be accessible by rail.



#### 3 MANAGEMENT MEASURES

#### 3.1 Introduction

- 3.1.1 The following measures will be delivered through the Travel Plan by the Travel Plan Co-ordinator:
  - Travel Plan Co-ordinator;
  - Travel Awareness;
  - Staff 'Welcome Pack';
  - Car Sharing;
  - Cycle Measures;
  - Walking Measures;
  - Public Transport Measures.

#### 3.2 Travel Plan Co-ordinator

3.2.1 A Travel Plan Co-ordinator will be appointed prior to the foodstore commencing operation. Once appointed the Travel Plan Co-ordinator will contact the relevant personnel at Liverpool City Council.

#### 3.3 Travel Awareness

- 3.3.1 Netto staff will be made aware of the existence of the Travel Plan and a copy of the plan will be made available to the Council.
- 3.3.2 'Welcome Packs' will be given to new staff when they start work at the development.
- 3.3.3 Noticeboards will be located in staff areas to provide up-to-date travel information (such as walking and cycling maps and bus timetable information), and information on useful websites to encourage sustainable travel. The noticeboards will also include contact details for the Travel Plan Co-ordinator and news on any sustainable travel initiatives which the store may be running.
- 3.3.4 Noticeboards will also be provided in public areas for customers, providing information on suggested walking and cycling routes, the locations of local bus stops including bus timetables, and the locations of on-site cycle parking facilities.



#### 3.4 Staff 'Welcome Pack'

- 3.4.1 Prior to commencement of operation of the foodstore a 'Welcome Pack' will be provided to staff starting work at the site. The 'Welcome Pack' will subsequently be provided to all new staff prior to them commencing work at the store.
- 3.4.2 The 'Welcome Pack' will include details on the intentions of the Travel Plan and why the Travel Plan has been produced, as well as contact details for the Travel Plan Co-ordinator.
- 3.4.3 The packs will also include current information on safe walking and cycling routes in the area, and will promote the health benefits of these forms of travel. The pack will also include details on all facilities provided on site to promote these forms of travel, including the locations of cycle parking.
- 3.4.4 The 'Welcome Pack' will also provide information on current bus services, including suggested walking routes to local bus stops, up-to-date timetable information, and website addresses to enable access to real-time travel information.
- 3.4.5 As part of the on-going monitoring process the 'Welcome Pack' will be reviewed and updated where required. Information regarding any changes to the bus services in the area will be passed to staff via leaflets or a company website.

#### 3.5 Car Sharing

- 3.5.1 The Travel Plan Co-ordinator will promote the benefits of car sharing to staff. This will be undertaken by providing information on the benefits of car sharing within the 'Welcome Pack' and on staff noticeboards.
- 3.5.2 Staff will also be provided with details of websites such as <a href="www.liftshare.com">www.liftshare.com</a> which provides assistance for people wishing to car share on certain journeys.

#### 3.6 Cycle Measures

- 3.6.1 Ten customer cycle parking spaces will be provided as part of the development. This provision will be located on the store frontage.
- 3.6.2 An additional four cycle parking spaces will be provided for staff which will be located in the store service located. Staff lockers will also be provided.



- 3.6.3 Staff will be provided with information on suitable cycling routes in the area which will be included within the 'Welcome Pack' and on staff noticeboards. Details of the website <a href="www.wygocycling.com">www.wygocycling.com</a> which provides free cycle training and maintenance training available to businesses will be explored.
- 3.6.4 The Travel Plan Co-ordinator will establish contact with the cycling officers at Liverpool City Council and will retain active contact with officers to ensure that any future improvements to the cycling network and cycling maps are fed through to staff.
- 3.6.5 Netto staff will also be provided with information on the BikeBUDI scheme via the 'Welcome Packs' and on notice boards. Information on the scheme is available on the website www.bikebudi.com.
- 3.6.6 The BikeBUDi scheme is also part of the National Lift Share Group and in much the same way as the WalkBUDi scheme aims to match individuals with others cycling the same journey so they can ride together. The matches are displayed in both table and map format, allowing the user to easily find the most suitable people.

#### 3.7 Walking Measures

- 3.7.1 The health benefits of walking will be promoted to Netto staff.
- 3.7.2 The 'Welcome Pack' will include information on suggested walking routes from the store to the surrounding areas and local bus stops. Where relevant, this will include information on where footways are street lit, and suggested safe crossing points.
- 3.7.3 Netto staff will be provided with information on WalkBUDi scheme through information contained within the 'Welcome Packs' and on noticeboards. Information on the scheme is available on the website www.walkbudi.com.
- 3.7.4 The WalkBUDi scheme is part of the National Lift Share Network and is simple and free to use. It matches individuals with others walking the same way so they can walk together. The matches are displayed in both table and map format, allowing the user to easily find the most suitable people. The WalkBUDi scheme aims to help individuals to meet others wanting to travel the same way.



### 3.8 Public Transport Measures

- 3.8.1 Public transport timetable information will also be provided on noticeboards provided in staff areas, while staff will also be provided with plans showing suggested walking routes to local bus stops. This information will be provided in the staff 'Welcome Pack'.
- 3.8.2 Visitors to the store will also be made aware of the public transport opportunities available for travel to the site. This will be done at the time their meetings are arranged.



#### 4 STAFF TRAVEL SURVEYS

- 4.1.1 To enable the success of the Travel Plan to be established, the Travel Plan Co-ordinator will be responsible for on-going monitoring and regular travel surveys.
- 4.1.2 Staff travel surveys will be undertaken and analysed 'in house'.
- 4.1.3 Within 3 months of the store becoming operational a staff travel survey will be undertaken. The timing of this survey will ensure that a stable workforce is employed at the store, but is considered close enough to the date of store opening to ensure that staff travel habits have not become embedded.
- 4.1.4 The results of the first staff travel survey will be compiled into a travel database which will be used as the Baseline to identify modal shift travel targets.
- 4.1.5 Thereafter in order to assess the travel habits of staff, full staff travel surveys will be completed on a bi-annual basis for a five year period.
- 4.1.6 The results of the bi-annual staff surveys will be summarised in a Review Report. This report will also identify any problems with the current travel surveys, which will be addressed in the Travel Plan as well as in the Review Report.
- 4.1.7 Targets set as part of the Travel Plan will be reviewed in the light of the travel survey results.



#### 5 TARGET SETTING

#### 5.1 Staff Travel Targets

- 5.1.1 For the Travel Plan to be effective it should set targets specifying the aims of the plan for improved non-car use. A timetable setting out the target framework has been produced to establish an indication of staff travel patterns.
- 5.1.2 It is recognised that objectives of the Travel Plan need to be SMART and targets achievable, with particular regard being given to reducing the number of single occupancy vehicle trips to the site. Therefore, without knowledge on existing travel behaviour (as no workforce is currently employed) realistic targets cannot be set at this stage.
- 5.1.3 For the purposes of this initial Travel Plan the four specific target areas and specific aims can be summarised as follows:
  - Reduce the number of single occupancy journeys to and from the site by staff;
  - Increasing pedestrian trips by staff living within an agreed distance of the site;
  - Increasing cycle trips by staff living within an agreed distance of the site;
  - Increasing bus usage by those staff who currently live within a short walk of existing public transport infrastructure.
- 5.1.4 Detailed staff travel targets will be established upon completion of the first travel survey. These targets will be agreed with Liverpool City Council's Travel Plan Officer and included in the final Travel Plan document.
- 5.1.5 Thereafter staff travel targets can be monitored by completing a staff travel survey update on a biannual basis. This will highlight areas where the targets are being achieved as well as allowing revision to parts of the plan which can be further improved on.
- 5.1.6 If the Travel Plan targets are to be maintained at an achievable level they may need to be reduced at the first review date in the light of experience, and then increased again over time as measures employed by this Travel Plan start to have greater effect.



#### 6 TRAVEL PLAN REVIEW REPORT

#### 6.1 Travel Plan Review Report

- 6.1.1 Following the bi-annual staff travel survey a review of the Travel Plan will be undertaken. This will culminate in a Travel Plan Review Report which will be provided to Liverpool City Council.
- 6.1.2 The Review Report will detail the results of the preceding staff travel surveys with regards to targets, budgets, general effectiveness and current initiatives. The report will also summarise the results of any other on-going monitoring undertaken as part of the Travel Plan. The Review Report is to be submitted for approval no later than one month following the completion of the staff travel surveys.
- 6.1.3 Informed by the results of the staff surveys and other monitoring measures the Review Report will also include the action plan for the next period and detail any proposed changes to the Plan.
- 6.1.4 The action plan for the following period will clearly set out the tasks to be undertaken during this period to work towards achieving the agreed Travel Plan targets, the approximate dates that by which measures which may be introduced will be implemented, and the nominated person(s) responsible for undertaking these tasks.
- 6.1.5 The findings of the Review Report will allow effective measures to be promoted and increased while ineffective measures can be revised and rectified. New initiatives for the coming period will also be contained within the report. Liverpool City Council will be consulted during this review process.

#### 6.2 Travel Plan Framework

6.2.1 **Table 6.1** below provides a summary framework and guidance as to timescales for the issues to be introduced as part of the Travel Plan. The measures outlined in this table will be the responsibility of the Travel Plan Co-ordinator.



Date	Action
	Appoint a Travel Plan Co-ordinator.
	Collate sustainable travel information and other information to be provided in
3 – 0 months	'Welcome Pack'.
before	Issue staff 'Welcome Pack' (thereafter pack issued to all new starters).
commencement	Cycle parking infrastructure introduced.
of operation	Travel Information boards installed in staff and public areas of the store.
	Travel Plan Co-ordinator establishes contact with officers from Liverpool City
	Council.
	Travel Plan measures promoted throughout development via noticeboards, email
0-3 Months	and posters.
after	Complete staff travel surveys.
commencement	In house analysis of travel survey results.
of operation	Define Travel Plan targets based upon travel survey results.
	Formal Travel Plan document to be submitted to and agreed with Liverpool City
	Council.
	Review, update and reissue of marketing and new starter information (including
3-24 Months	public transport service information) as required (suggested at anniversary of
3-24 MONTHS	adoption of the Travel Plan).
	Continuous monitoring of usage of sustainable travel modes and infrastructure.
	Complete second staff travel survey (24 months following first occupation).
	Staff travel targets to be reviewed as required.
24 Months	Production of action plan based upon survey results.
24 Months	Production of Review Report (after Travel Surveys).
	Review of Travel Plan in conjunction with the local authority; a revised Travel
	Plan will be submitted if required.
24 60 14 - 11 -	Review, update and reissue of marketing, induction and new starter information
24-60 Months	(including public transport service information) as required (at 12 month

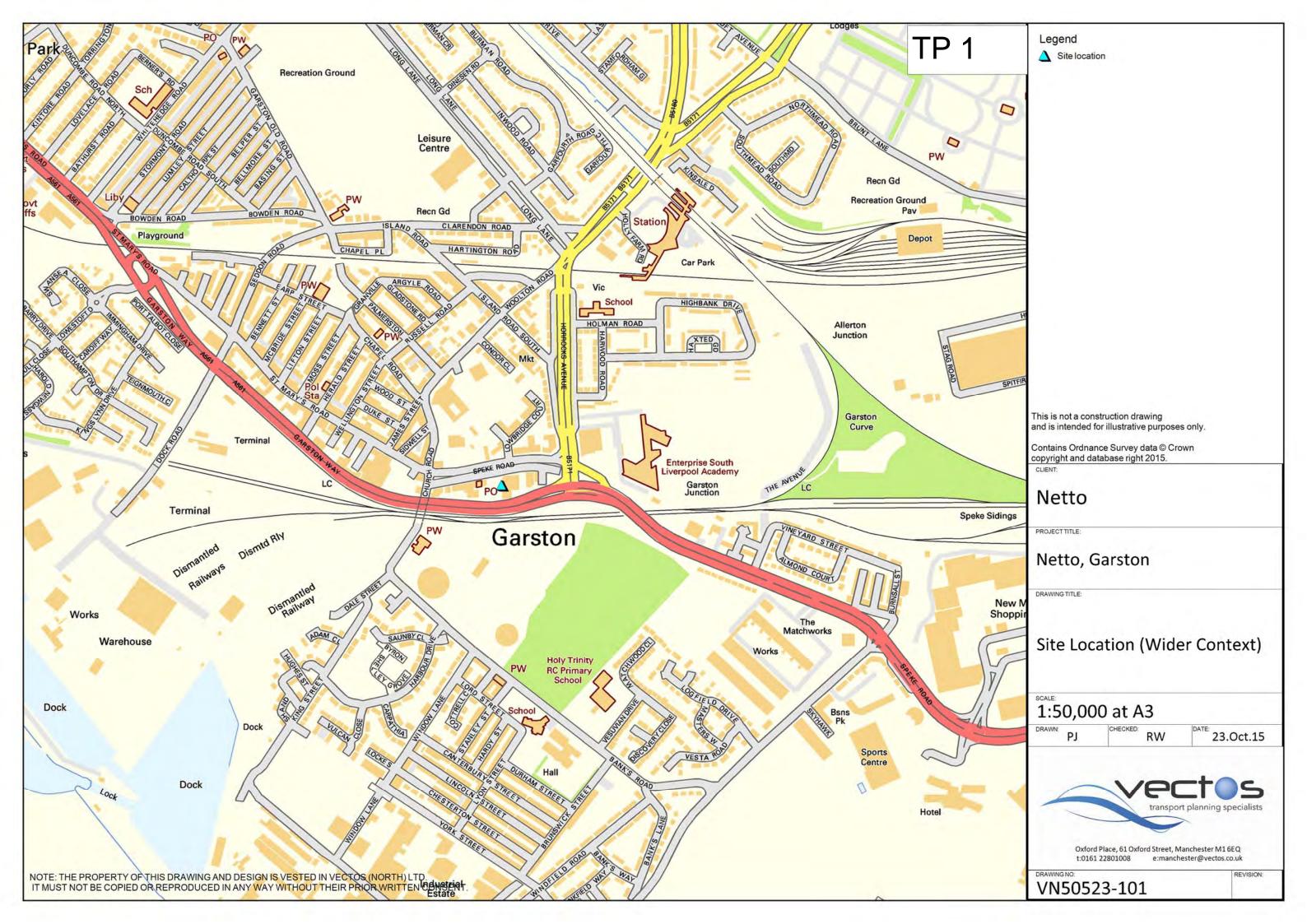


intervals).
Continuous monitoring of usage of sustainable travel modes and infrastructure.
Update and monitor travel questionnaire bi-annually.
Bi-annual staff travel surveys.
Action Plan and Review Report undertaken in conjunction with staff travel
surveys.
The Travel Plan will be in place for the life of the development.

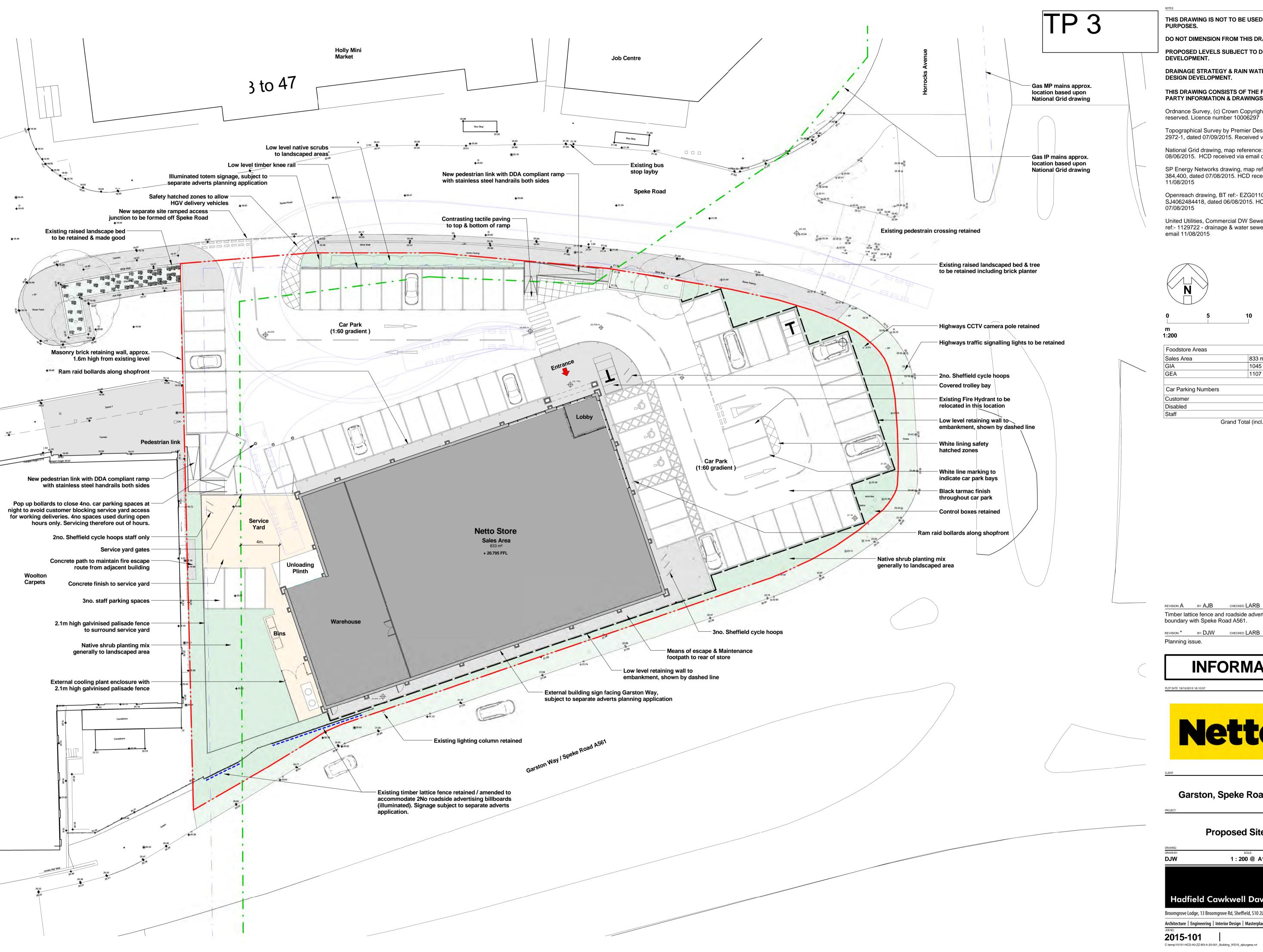
Table 6.1 – Travel Plan Framework Timescales

6.2.2 The Review of the Travel Plan will be undertaken for a 5 year period. Thereafter the strategy for its continuation will be discussed between Netto and Liverpool City Council.

### **PLANS**







THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION

DO NOT DIMENSION FROM THIS DRAWING.

PROPOSED LEVELS SUBJECT TO DESIGN

DRAINAGE STRATEGY & RAIN WATER PIPES SUBJECT TO

THIS DRAWING CONSISTS OF THE FOLLOWING THIRD PARTY INFORMATION & DRAWINGS;-

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Topographical Survey by Premier Design Surveys, drawing: 2972-1, dated 07/09/2015. Received via email: 09/09/15.

National Grid drawing, map reference:- SJ4084, dated 08/06/2015. HCD received via email on 07/08/15.

SP Energy Networks drawing, map reference:- 340,622 384,400, dated 07/08/2015. HCD received via email on

Openreach drawing, BT ref:- EZG01106Y, map ref:-SJ4062484418, dated 06/08/2015. HCD received via email on

United Utilities, Commercial DW Sewer & Water Record, UU ref:- 1129722 - drainage & water sewerage. HCD received via

Foodstore Areas			
Sales Area	833 m²	8971 ft <sup>2</sup>	
GIA	1045 m²	11249 ft <sup>2</sup>	
GEA	1107 m <sup>2</sup>	11916 ft <sup>2</sup>	
	·	·	
Car Parking Numbers			
D 1		50	

Grand Total (incl. staff): 65

REVISION: A BY: AJB CHECKED: LARB DATE: 19/10/2015 Timber lattice fence and roadside advertising billboards added to

**INFORMATION** 



Garston, Speke Road, Liverpool

**Proposed Site Plan** 

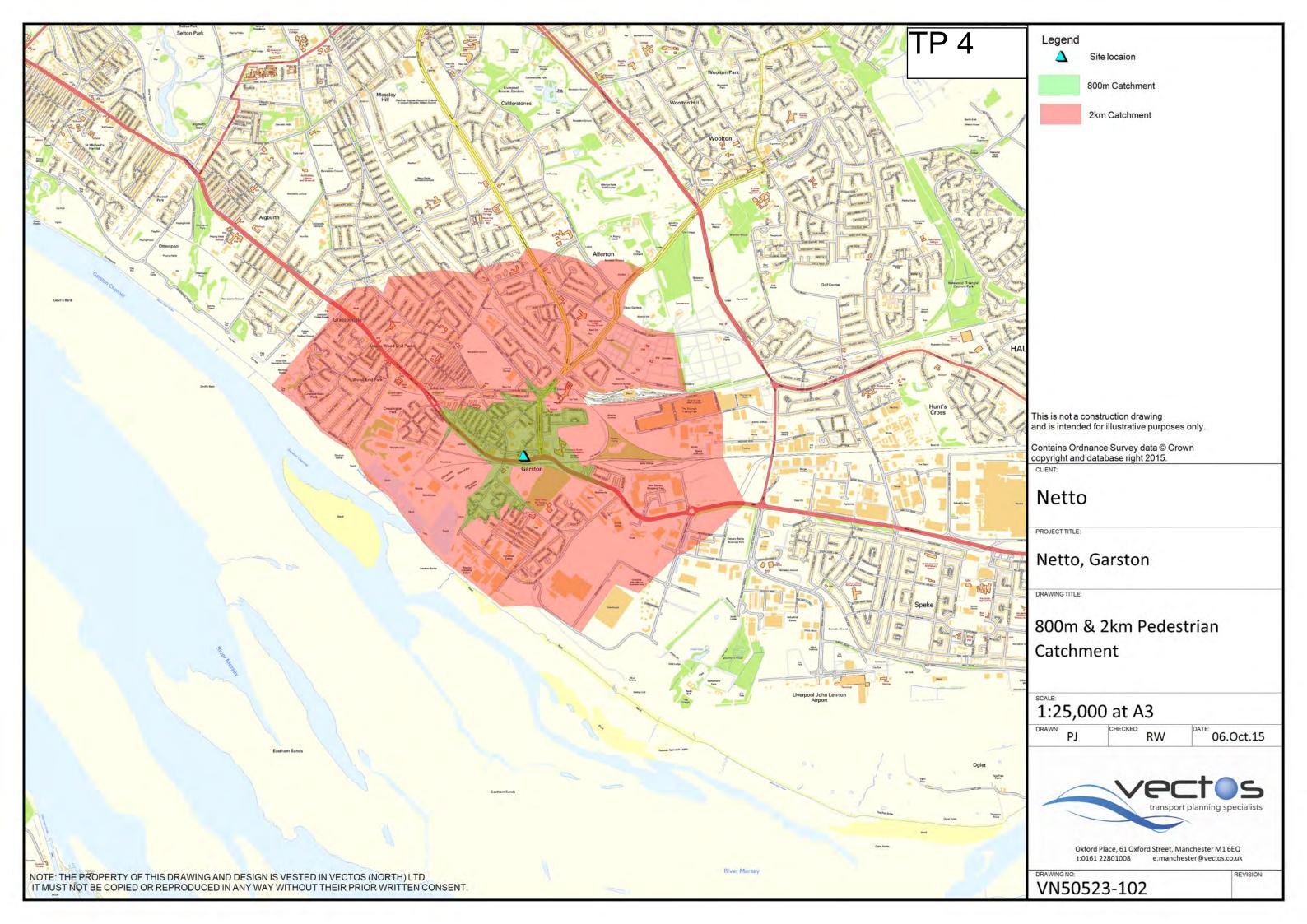
1:200 @ A1

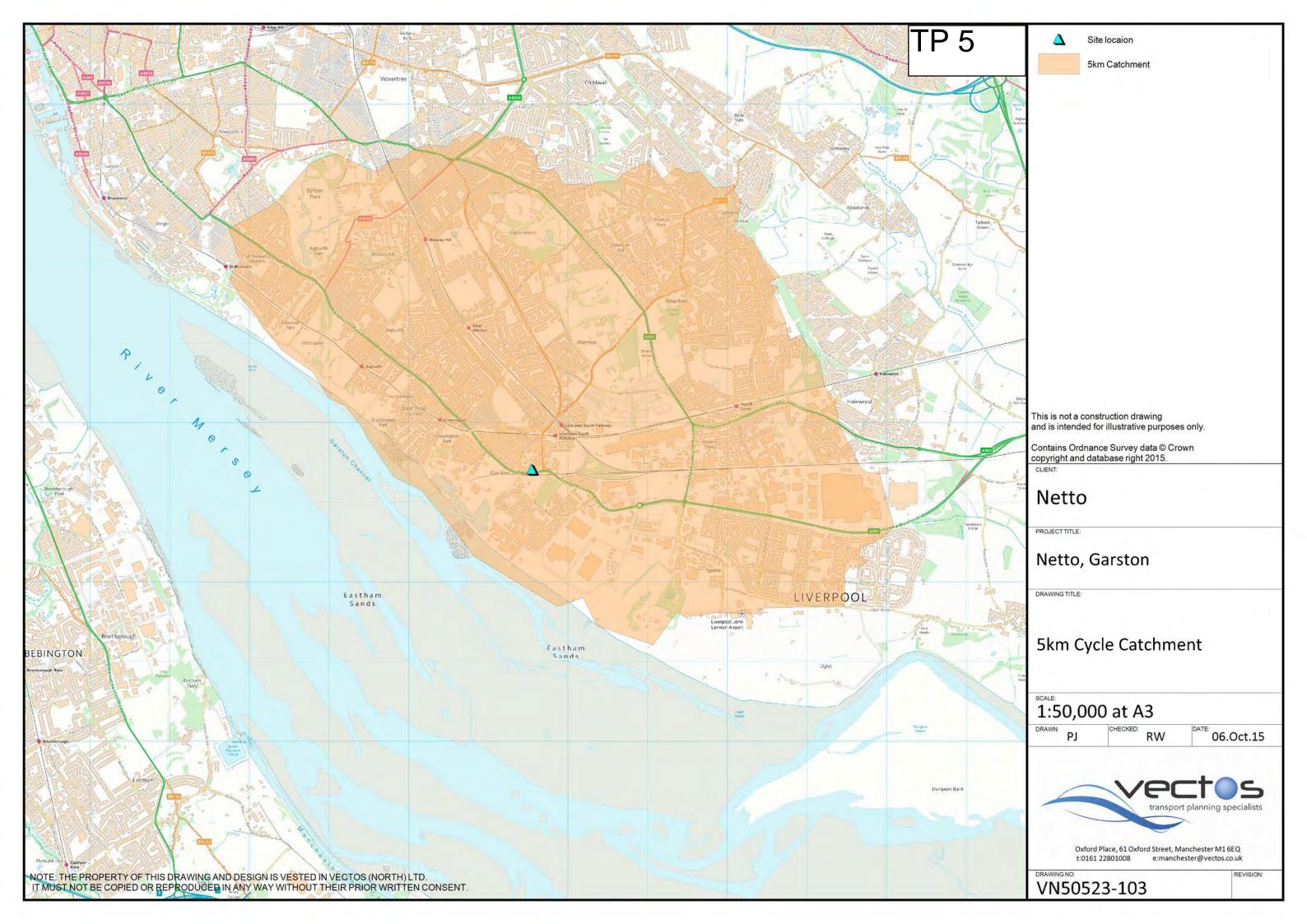
**Hadfield Cawkwell Davidson** 

Broomgrove Lodge, 13 Broomgrove Rd, Sheffield, S10 2LZ T 0114 266 8181 www.hcd.co.uk Architecture | Engineering | Interior Design | Masterplanning | Urban Design

A-PL-103 | A

Oct 2015

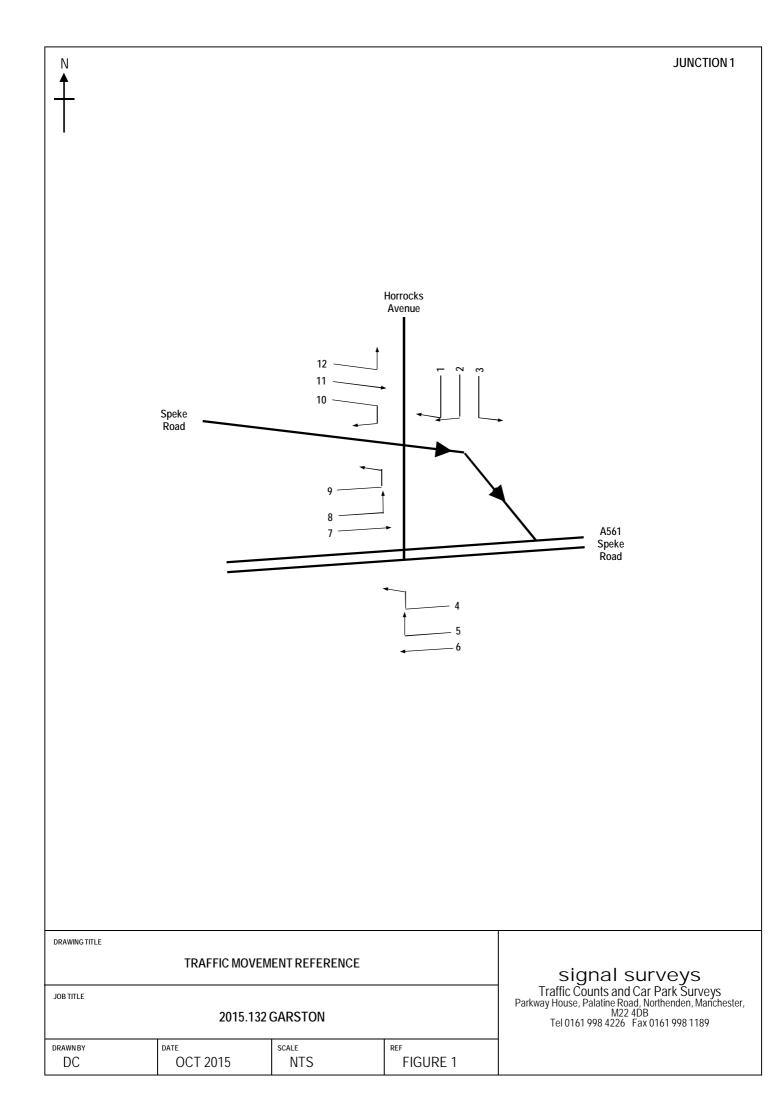




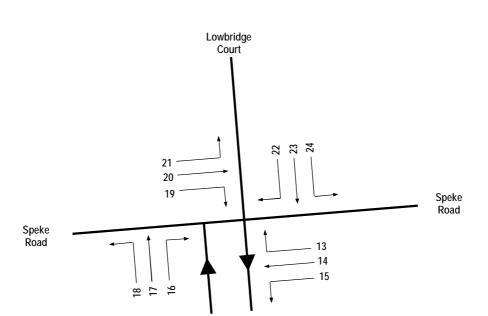
## APPENDIX D TRAFFIC SURVEY DATA

### SURVEY CONTROL

Client:	Vectos
Client Contact:	Richard Whiting
Survey Location:	Garston
Date(s) of Survey:	Thursday 1 October 2015 Saturday 3 October 2015
Notes:	
On Site Supervisor:	David Cheng
Data Checking:	David Cheng
Survey Reference:	2015.132 Garston
Status:	Final
Date of Issue:	8 October 2015







DRAWING TITLE			
	TRAFFIC MOV	EMENT REFERENCE	
JOB TITLE			
	2015.1	32 GARSTON	
DRAWN BY DC	OCT 2015	scale NTS	FIGURE 2

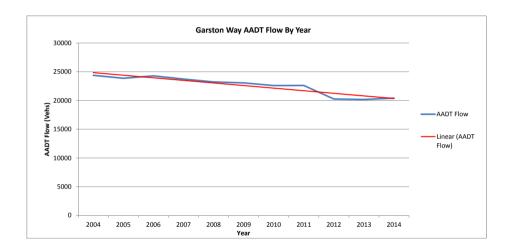
Signal surveys
Traffic Counts and Car Park Surveys
Parkway House, Palatine Road, Northenden, Manchester,
M22 4DB
Tel 0161 998 4226 Fax 0161 998 1189

									A561 Sp	eke Roa	ad/Horro	cks Ave	enue - T	hursday	1 Octo	ber 201	5							
Time Beginning		1		2	;	3		4		5		5		7		8		9	1	10	1	1	1	2
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1600	13	3	13	0	82	0	33	3	120	1	222	19	220	24	8	0	2	0	0	0	21	5	6	4
1615	6	1	13	0	89	1	31	4	93	3	261	8	221	12	9	1	6	0	1	0	18	4	10	4
1630	6	4	12	0	90	2	44	2	115	2	313	9	210	5	9	1	6	0	0	0	18	4	10	3
1645	7	2	10	3	75	2	27	7	143	1	314	12	257	13	10	2	1	0	2	0	19	5	3	4
1700	6	3	8	1	89	1	31	3	187	2	375	10	227	7	17	0	2	0	0	0	19	4	7	3
1715	3	3	15	0	86	1	28	4	148	1	374	3	217	12	12	0	2	0	1	0	33	5	12	6
1730	6	1	13	0	100	2	25	3	143	0	335	4	243	5	10	1	2	0	0	0	28	4	5	1
1745	5	1	14	0	86	1	20	2	108	1	312	7	211	3	13	0	1	0	2	0	20	5	10	6
1800	4	2	10	0	75	1	18	3	121	2	318	2	241	4	12	0	3	0	1	0	21	5	8	2
1815	7	2	10	0	78	1	18	2	85	1	275	5	214	6	8	0	5	0	0	0	16	8	4	3
1830	3	1	9	0	79	0	19	2	98	1	251	3	191	4	8	0	2	0	0	0	25	4	4	3
1845	3	1	12	0	70	0	26	3	100	14	259	6	194	5	11	0	3	0	0	0	27	5	1	1
									A561 Sp	oeke Ro	ad/Horro	cks Av	enue - S	aturday	3 Octol	ber 2015	5							
Time Beginning				2		3		4		5		6		7		8		9	10			1	_	2
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1100	7	2	6	0	103	1	26	3	77	1	173	7	172	4	4	0	1	0	0	0	25	4	13	3
1115	8	2	7	0	102	0	20	1	75	1	180	4	205	4	9	0	6	0	0	0	21	2	10	2
1130	7	1	7	0	115	0	21	2	97	2	161	3	215	5	11	0	2	0	1	0	31	5	8	4
1145	7	1	8	0	138	1	31	3	93	1	195	3	201	5	8	0	2	0	1	0	27	2	7	3
1200	9	2	4	0	124	2	24	3	95	1	185	4	186	3	13	1	7	0	1	0	41	4	8	2
1215	8	2	5	0	123	0	24	2	75	2	215	2	204	4	7	1	2	0	0	0	20	3	7	3
1230	8	1	8	0	128	2	18	3	79	1	183	2	183	5	12	0	5	0	0	0	21	4	8	4
1245	8	2	13	0	100	0	30	1	83	1	215	2	220	3	6	0	2	0	0	0	36	3	9	3
1300	9	1	9	0	107	1	22	4	101	1	223	4	222	1	10	0	2	1	1	0	21	4	3	2
1315	6	2	8	0	140	2	21	1	98	1	207	2	220	3	9	1	0	0	1	0	20	2	11	3
1330 1345	9	1	5 3	0	120 118	0	26 24	3	103 99	1	232	6	207 173	1	15 10	0	2	0	0	0	23 29	3	12 5	3
1400	5	2	7	0	122		34	2			208	3	217	1		0	2	0	2	0	29	4	7	4
1400	10	2	7	0	107	0	23	3	112 118	1	263	3	203	3	11 7	0	5	0	0	0	29	2	5	2
1415	14	1	4	0	107	3	18	2	122	2	191	4	203	3	7	0	0	0	1	0	18	4	8	2
1430	9	1	4	0	108	0	26	3	117		203	3	216	4	12	0	3	0	0	0	22	4	9	4
1500	11	2	6	1	111	1	20	2	117	1	185	5 5	207	2	5	0	3	0	0	0	28	2	7	2
1515	7	2	3	0	107	2	31	2	104	1	188	5 1	194	1	6	0	5	0	3	0	26	4	11	3
1530	2	1	9	0	112	1	15	2	96	1	161	3	194	7	8	1	3	0	0	0	20	3	12	3
1545	4	1	8	0	97	2	21	4	112	1	226	0	189	3	8	0	3	0	0	0	22	3	14	2
טדטו	7	ı	U	v	//	_	۷1	7	112	'	220	U	107	J	U	U	J	U	U	U	۷/	J	17	۷.

									Spek	e Road/	Lowbrid	lge Cou	rt - Thur	sday 1	October	2015								
Time Beginning	ng 13 14			14 15		16		1	17	1	8	1	9	2	.0	2	!1	2	22	2	23	2	24	
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
1600	3	0	28	6	14	0	0	0	0	0	2	0	14	0	29	11	0	0	0	0	0	0	1	0
1615	2	0	29	5	16	0	2	0	0	0	1	0	18	0	25	6	3	0	1	0	1	0	0	0
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1730	3	0	28	5	4	0	1	0	0	0	3	0	12	0	35	5	5	0	1	0	1	0	1	0
1745	6	0	11	3	5	0	5	0	0	0	5	0	4	0	27	10	4	0	1	0	1	0	2	0
1800	0	0	26	5	2	0	1	0	0	0	0	0	5	0	27	8	6	0	3	0	0	0	1	0
1815	2	0	25	3	3	0	1	0	0	0	0	0	8	0	19	11	1	0	3	0	0	0	0	0
1830	0	0	23	4	2	0	1	0	0	0	0	0	5	0	29	8	1	0	1	0	0	0	1	0
1845	2	0	29	4	0	0	1	0	0	0	3	0	4	0	23	5	3	0	0	0	1	0	2	0
						Speke Road/Lowbridge Court -			rt - Satu	t - Saturday 3 October 2015							II							
Time Beginning		3		14	_	5		6		7		8		9		.0		1	22			23		24
	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV	LV	HV
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1215	2	0	25	3	8	1	4	1	0	0	3	0	15	0	23	5	1	0	0	0	0	0	0	0
1230 1245	4	0	18	4	12	0	2	0	0	0	2	0	13	0	22	6 7	2	0	0	0	1	0	4	0
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1545	2	0	20	4	8	0	4	0	0	0	7	0	16	0	41	6	3	0	1	0	0	0	1	0

# APPENDIX E DfT MATRIX TRAFFIC FLOWS

AADFYear	CP	Region LocalAuthc Road	RoadCateg Ea	sting	Northing St	tartJuncti: EndJunc	ctio LinkLength Lir	nkLength P	edalCycle Mo	torcycle C	arsTaxis	BusesCoacl Li	ghtGoods V	2AxleRigi: V3A	AxleRigi: V4	or5AxleFV3	or4Axle/V5	AxleArti، V6	orMore#All	HGVs /	AllMotorVehicles	
2000	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.47	45	191	16447	178	2072	427	77	151	108	266	239	1268	20156	99%
2001	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	50	206	19084	238	2163	538	97	72	120	334	363	1524	23215	114%
2002	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	54	126	17569	224	1761	557	78	73	107	271	389	1475	21155	104%
2003	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	26	119	19019	170	2123	521	68	70	82	204	411	1356	22787	112%
2004	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	65	169	20292	223	2189	595	80	157	71	343	258	1504	24377	119%
2005	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	55	171	19784	219	2246	572	76	160	63	299	271	1441	23861	117%
2006	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	27	134	20375	198	2216	463	75	90	105	300	330	1363	24286	119%
2007	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.47	78	198	19732	240	2424	414	55	74	62	265	257	1127	23721	116%
2008	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	77	141	19663	166	2352	338	58	111	30	206	163	906	23228	114%
2009	27297	North Wes Liverpool A561	PU	340000	384640 A	.5058 A562	5.6	3.47	77	133	19349	162	2547	326	60	111	28	181	161	867	23058	113%
2010	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.47	77	123	18943	170	2560	324	56	90	30	158	149	807	22603	111%
2011	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.47	85	130	18848	170	2640	322	60	101	23	156	158	820	22608	111%
2012	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.47	49	115	16529	131	2057	568	89	154	16	306	284	1418	20249	99%
2013	27297	North Wes Liverpool A561	PU	340000	384640 A	5058 A562	5.6	3.5	48	115	16436	123	2080	567	96	174	12	286	285	1420	20174	99%
2014	27297	MersevsideLiverpool A561	PU	340000	384640 A	5058 A562	5.6	3.48	47	122	16265	131	2369	599	110	196	12	280	321	1518	20405	100%



# APPENDIX F PROPOSED FOODSTORE TRICS OUTPUT FILES

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

#### TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL

Category : C - DISCOUNT FOOD STORES

MULTI-MODAL VEHICLES

#### Selected regions and areas:

1 days 1 days
1 days
1 days
1 days
1 days
2 days
1 days
1 days
1 days
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: 1150 to 1900 (units: sqm)
Range Selected by User: 900 to 1900 (units: sqm)

#### Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/06 to 27/11/12

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 4 days Wednesday 3 days Friday 1 days

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

#### Selected survey types:

Manual count 10 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 undertaking using machines.

#### **Selected Locations:**

Edge of Town Centre	6
Suburban Area (PPS6 Out of Centre)	2
Edge of Town	1
Neighbourhood Centre (PPS6 Local 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:

Industrial Zone

3rd Floor, Oxford Place, 61 Oxford St Vectos (North) Limited Manchester

> 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:

Not Known 1 days Α1 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:

5,001 to 10,000	3 days
10,001 to 15,000	2 days
15,001 to 20,000	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:

5,001 to 25,000	3 days
25,001 to 50,000	2 days
50,001 to 75,000	1 days
100,001 to 125,000	1 days
125,001 to 250,000	1 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	8 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	10 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:

Yes	1 days
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.

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Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester Licence No: 715001

#### LIST OF SITES relevant to selection parameters

GW-01-C-01 LIDL **GWYNEDD** 

HIGH STREET

**BANGOR** 

Edge of Town Centre No Sub Category

Total Gross floor area: 1310 sqm

Survey date: FRIDAY 10/07/09 Survey Type: MANUAL

HI-01-C-01 LIDL **HIGHLAND** 

CAMANACHD CRESCENT

FORT WILLIAM Edge of Town Centre Retail Zone

Total Gross floor area: 1285 sqm

Survey date: TUESDAY 19/05/09 Survey Type: MANUAL

KC-01-C-02 3 ALDI **KENT** 

WELL ROAD

**MAIDSTONE** 

Edge of Town Centre

Built-Up Zone

Total Gross floor area: 1407 sqm

Survey date: TUESDAY 27/11/12 Survey Type: MANUAL

**MERSEYSIDE** MS-01-C-02 ALDI

SMITHDOWN ROAD

WAVERTREE LIVERPOOL

Neighbourhood Centre (PPS6 Local Centre)

Residential Zone

Total Gross floor area: 1200 sqm

Survey date: MONDAY 18/06/07 Survey Type: MANUAL

MS-01-C-03 **ALDI MERSEYSIDE** 

LAUREL ROAD **ELM PARK** LIVERPOOL

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Gross floor area: 1165 sqm

Survey date: WEDNESDAY 20/06/07 Survey Type: MANUAL **NORTHAMPTONSHIRE** 

NR-01-C-01 **ALDI** 

DALTON ROAD

**CORBY** Edge of Town **Industrial Zone** 

Total Gross floor area: 1345 sqm

Survey date: WEDNESDAY 19/11/08 Survey Type: MANUAL

7 NY-01-C-02 NORTH YORKSHIRE LIDI

STATION ROAD

**THIRSK** 

Edge of Town Centre No Sub Category

Total Gross floor area: 1527 sqm

> Survey date: TUESDAY 11/10/11 Survey Type: MANUAL

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Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester Licence No: 715001

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

8 PK-01-C-01 ALDI PERTH & KINROSS

GLASGOW ROAD

PERTH

Edge of Town Centre

Retail Zone

Total Gross floor area: 1400 sqm

Survey date: WEDNESDAY 11/05/11 Survey Type: MANUAL

PS-01-C-01 ALDI POWYS

**RICH WAY** 

**BRECON** 

Edge of Town Centre No Sub Category

Total Gross floor area: 1150 sqm

Survey date: MONDAY 15/09/08 Survey Type: MANUAL

10 SH-01-C-01 LIDL SHROPSHIRE

CASTLE STREET HADLEY TELFORD

Suburban Area (PPS6 Out of Centre)

No Sub Category

Total Gross floor area: 1900 sqm

Survey date: TUESDAY 16/06/09 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.

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

MULTI-MODAL VEHICLES
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS			Į.	DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	6	1417	0.282	6	1417	0.094	6	1417	0.376	
08:00 - 09:00	10	1369	0.928	10	1369	0.526	10	1369	1.454	
09:00 - 10:00	10	1369	2.265	10	1369	1.666	10	1369	3.931	
10:00 - 11:00	10	1369	3.521	10	1369	3.032	10	1369	6.553	
11:00 - 12:00	10	1369	3.331	10	1369	3.214	10	1369	6.545	
12:00 - 13:00	10	1369	3.280	10	1369	3.404	10	1369	6.684	
13:00 - 14:00	10	1369	3.207	10	1369	3.192	10	1369	6.399	
14:00 - 15:00	10	1369	3.959	10	1369	3.726	10	1369	7.685	
15:00 - 16:00	10	1369	3.631	10	1369	3.843	10	1369	7.474	
16:00 - 17:00	10	1369	3.170	10	1369	3.346	10	1369	6.516	
17:00 - 18:00	10	1369	2.907	10	1369	3.499	10	1369	6.406	
18:00 - 19:00	10	1369	2.148	10	1369	2.528	10	1369	4.676	
19:00 - 20:00	10	1369	0.906	10	1369	1.308	10	1369	2.214	
20:00 - 21:00	4	1411	0.266	4	1411	0.390	4	1411	0.656	
21:00 - 22:00	2	1404	0.143	2	1404	0.392	2	1404	0.535	
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			33.944			34.160			68.104	

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 1

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

MULTI-MODAL CYCLISTS
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		[	DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	6	1417	0.000	6	1417	0.000	6	1417	0.000	
08:00 - 09:00	10	1369	0.015	10	1369	0.022	10	1369	0.037	
09:00 - 10:00	10	1369	0.051	10	1369	0.058	10	1369	0.109	
10:00 - 11:00	10	1369	0.029	10	1369	0.029	10	1369	0.058	
11:00 - 12:00	10	1369	0.051	10	1369	0.022	10	1369	0.073	
12:00 - 13:00	10	1369	0.037	10	1369	0.037	10	1369	0.074	
13:00 - 14:00	10	1369	0.051	10	1369	0.051	10	1369	0.102	
14:00 - 15:00	10	1369	0.073	10	1369	0.073	10	1369	0.146	
15:00 - 16:00	10	1369	0.051	10	1369	0.037	10	1369	0.088	
16:00 - 17:00	10	1369	0.073	10	1369	0.080	10	1369	0.153	
17:00 - 18:00	10	1369	0.095	10	1369	0.110	10	1369	0.205	
18:00 - 19:00	10	1369	0.015	10	1369	0.007	10	1369	0.022	
19:00 - 20:00	10	1369	0.015	10	1369	0.022	10	1369	0.037	
20:00 - 21:00	4	1411	0.000	4	1411	0.018	4	1411	0.018	
21:00 - 22:00	2	1404	0.000	2	1404	0.000	2	1404	0.000	
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.556			0.566			1.122	

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 1

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES MULTI-MODAL PEDESTRIANS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		[	DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	6	1417	0.153	6	1417	0.035	6	1417	0.188	
08:00 - 09:00	10	1369	0.329	10	1369	0.205	10	1369	0.534	
09:00 - 10:00	10	1369	0.877	10	1369	0.774	10	1369	1.651	
10:00 - 11:00	10	1369	1.563	10	1369	1.293	10	1369	2.856	
11:00 - 12:00	10	1369	1.454	10	1369	1.300	10	1369	2.754	
12:00 - 13:00	10	1369	1.512	10	1369	1.600	10	1369	3.112	
13:00 - 14:00	10	1369	1.227	10	1369	1.198	10	1369	2.425	
14:00 - 15:00	10	1369	1.154	10	1369	1.315	10	1369	2.469	
15:00 - 16:00	10	1369	1.490	10	1369	1.410	10	1369	2.900	
16:00 - 17:00	10	1369	1.498	10	1369	1.388	10	1369	2.886	
17:00 - 18:00	10	1369	1.220	10	1369	1.381	10	1369	2.601	
18:00 - 19:00	10	1369	0.964	10	1369	1.256	10	1369	2.220	
19:00 - 20:00	10	1369	0.453	10	1369	0.475	10	1369	0.928	
20:00 - 21:00	4	1411	0.018	4	1411	0.106	4	1411	0.124	
21:00 - 22:00	2	1404	0.000	2	1404	0.000	2	1404	0.000	
22:00 - 23:00							·		·	
23:00 - 24:00										
Total Rates:			13.912			13.736			27.648	

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 1

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

		ARRIVALS		[	DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	6	1417	0.035	6	1417	0.000	6	1417	0.035	
08:00 - 09:00	10	1369	0.124	10	1369	0.088	10	1369	0.212	
09:00 - 10:00	10	1369	0.153	10	1369	0.117	10	1369	0.270	
10:00 - 11:00	10	1369	0.336	10	1369	0.321	10	1369	0.657	
11:00 - 12:00	10	1369	0.190	10	1369	0.205	10	1369	0.395	
12:00 - 13:00	10	1369	0.278	10	1369	0.292	10	1369	0.570	
13:00 - 14:00	10	1369	0.190	10	1369	0.183	10	1369	0.373	
14:00 - 15:00	10	1369	0.124	10	1369	0.205	10	1369	0.329	
15:00 - 16:00	10	1369	0.314	10	1369	0.197	10	1369	0.511	
16:00 - 17:00	10	1369	0.153	10	1369	0.263	10	1369	0.416	
17:00 - 18:00	10	1369	0.110	10	1369	0.139	10	1369	0.249	
18:00 - 19:00	10	1369	0.051	10	1369	0.073	10	1369	0.124	
19:00 - 20:00	10	1369	0.007	10	1369	0.022	10	1369	0.029	
20:00 - 21:00	4	1411	0.000	4	1411	0.000	4	1411	0.000	
21:00 - 22:00	2	1404	0.000	2	1404	0.000	2	1404	0.000	
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			2.065			2.105			4.170	

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 1

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Weekend Discount Foodstore

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

Licence No: 715001

Page 1

Monday 26/01/15

#### TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL

Category : C - DISCOUNT FOOD STORES

**HEREFORDSHIRE** 

MULTI-MODAL VEHICLES

Selected regions and areas:

06 WEST MIDLANDS

HF

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: 1150 to 1900 (units: sqm)
Range Selected by User: 900 to 1900 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/06 to 27/11/12

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:

Saturday 1 days

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

Selected survey types:

Manual count 1 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 undertaking using machines.

Selected Locations:

Edge of Town Centre

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.

1

**Selected Location Sub Categories:** 

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.

Filtering Stage 3 selection:

Use Class:

A1 1 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®.

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Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester Licence No: 715001

Filtering Stage 3 selection (Cont.):

Population within 1 mile:

20,001 to 25,000 1 days

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

Population within 5 miles:

50,001 to 75,000 1 days

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

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 1 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 1 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.

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Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester Licence No: 715001

# LIST OF SITES relevant to selection parameters

1 HE-01-C-01 ALDI HEREFORDSHIRE

EIGN STREET

HEREFORD Edge of Town Centre Built-Up Zone

Total Gross floor area: 1219 sqm

Survey date: SATURDAY 04/03/06 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.

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

MULTI-MODAL VEHICLES
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS		[	DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	1	1219	0.246	1	1219	0.082	1	1219	0.328
08:00 - 09:00	1	1219	2.461	1	1219	0.820	1	1219	3.281
09:00 - 10:00	1	1219	5.332	1	1219	3.938	1	1219	9.270
10:00 - 11:00	1	1219	6.973	1	1219	5.989	1	1219	12.962
11:00 - 12:00	1	1219	7.547	1	1219	7.957	1	1219	15.504
12:00 - 13:00	1	1219	7.547	1	1219	7.055	1	1219	14.602
13:00 - 14:00	1	1219	6.891	1	1219	8.039	1	1219	14.930
14:00 - 15:00	1	1219	6.645	1	1219	5.906	1	1219	12.551
15:00 - 16:00	1	1219	5.004	1	1219	5.496	1	1219	10.500
16:00 - 17:00	1	1219	4.430	1	1219	6.235	1	1219	10.665
17:00 - 18:00	1	1219	3.281	1	1219	3.938	1	1219	7.219
18:00 - 19:00	1	1219	2.133	1	1219	3.035	1	1219	5.168
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			58.490			58.490			116.980

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 10

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES

MULTI-MODAL CYCLISTS
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS		[	DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	1	1219	0.000	1	1219	0.000	1	1219	0.000
08:00 - 09:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
09:00 - 10:00	1	1219	0.246	1	1219	0.082	1	1219	0.328
10:00 - 11:00	1	1219	0.246	1	1219	0.246	1	1219	0.492
11:00 - 12:00	1	1219	0.000	1	1219	0.164	1	1219	0.164
12:00 - 13:00	1	1219	0.000	1	1219	0.082	1	1219	0.082
13:00 - 14:00	1	1219	0.328	1	1219	0.164	1	1219	0.492
14:00 - 15:00	1	1219	0.246	1	1219	0.164	1	1219	0.410
15:00 - 16:00	1	1219	0.656	1	1219	0.410	1	1219	1.066
16:00 - 17:00	1	1219	0.082	1	1219	0.246	1	1219	0.328
17:00 - 18:00	1	1219	0.164	1	1219	0.410	1	1219	0.574
18:00 - 19:00	1	1219	0.082	1	1219	0.082	1	1219	0.164
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.050			2.050			4.100

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 10

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES MULTI-MODAL PEDESTRIANS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS		[	DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	1	1219	0.164	1	1219	0.164	1	1219	0.328
08:00 - 09:00	1	1219	0.574	1	1219	0.246	1	1219	0.820
09:00 - 10:00	1	1219	0.902	1	1219	1.641	1	1219	2.543
10:00 - 11:00	1	1219	4.184	1	1219	3.774	1	1219	7.958
11:00 - 12:00	1	1219	4.020	1	1219	4.758	1	1219	8.778
12:00 - 13:00	1	1219	4.184	1	1219	5.660	1	1219	9.844
13:00 - 14:00	1	1219	4.266	1	1219	3.938	1	1219	8.204
14:00 - 15:00	1	1219	5.742	1	1219	5.496	1	1219	11.238
15:00 - 16:00	1	1219	4.594	1	1219	5.004	1	1219	9.598
16:00 - 17:00	1	1219	3.035	1	1219	4.102	1	1219	7.137
17:00 - 18:00	1	1219	2.215	1	1219	3.281	1	1219	5.496
18:00 - 19:00	1	1219	2.871	1	1219	2.215	1	1219	5.086
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			36.751			40.279			77.030

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: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 10

Vectos (North) Limited 3rd Floor, Oxford Place, 61 Oxford St Manchester

TRIP RATE for Land Use 01 - RETAIL/C - DISCOUNT FOOD STORES MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

	ARRIVALS		[	DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	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	1	1219	0.000	1	1219	0.000	1	1219	0.000
08:00 - 09:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
09:00 - 10:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
10:00 - 11:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
11:00 - 12:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
12:00 - 13:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
13:00 - 14:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
14:00 - 15:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
15:00 - 16:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
16:00 - 17:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
17:00 - 18:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
18:00 - 19:00	1	1219	0.000	1	1219	0.000	1	1219	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.000			0.000			0.000

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

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

### Parameter summary

Trip rate parameter range selected: 1150 - 1900 (units: sqm) Survey date date range: 01/01/06 - 27/11/12

Number of weekdays (Monday-Friday): 10
Number of Saturdays: 1
Number of Sundays: 0
Surveys manually removed from selection: 10

# APPENDIX G SPEKE ROAD/SITE ACCESS PICARDY MODELLING OUTPUTS

### **PICADY**

GUI Version: 5.1 AE Analysis Program Release: 5.0 (MAY 2010)

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The user of this computer program for the solution of an engineering problem is in no way relieved of their responsibility for the correctness of the solution

# **Run Analysis**

Parameter	Values
File Run	N:\Vectos Job Data\2015\VN50523 Netto, Garston\Picady\Netto Access PM + SAT.vpi
Date Run	23 October 2015
Time Run	10:48:48
Driving Side	Drive On The Left

# **Arm Names and Flow Scaling Factors**

Arm	Arm Name	Flow Scaling Factor (%)
Arm A	Speke Rd East	100
Arm B	Netto Access	100
Arm C	Speke Rd West	100

### **Stream Labelling Convention**

Stream A-B contains traffic going from A to B etc.

### **Run Information**

Parameter	Values
Run Title	Garston Netto - Car Park Access Junction
Location	-
Date	13 October 2015
Enumerator	James.Whitton [VTPC11]
Job Number	-
Status	-
Client	-
Description	-

# **Errors and Warnings**

Parameter	Values			
Warning	No Errors Or Warnings			

# **Geometric Data**

### **Geometric Parameters**

Parameter	Minor Arm B
Major Road Carriageway Width (m)	6.70
Major Road Kerbed Central Reserve Width (m)	0.00
Major Road Right Turning Lane Width (m)	2.20
Minor Road First Lane Width (m)	2.80
Minor Road Visibility To Right (m)	15
Minor Road Visibility To Left (m)	16
Major Road Right Turn Visibility (m)	75
Major Road Right Turn Blocks Traffic	Yes (if over 1 veh)

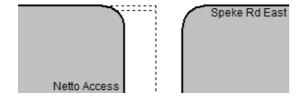
### **Slope and Intercept Values**

Stream	Intercept for Stream	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	480.386	0.085	0.214	0.135	0.306
В-С	620.697	0.092	0.233	_	-
С-В	617.396	0.232	0.232	-	-

Note: Streams may be combined in which case capacity will be adjusted These values do not allow for any site-specific corrections

# **Junction Diagram**





### **Demand Data**

# **Modelling Periods**

Parameter	Period	Duration (min)	Segment Length (min)
First Modelling Period	16:15-17:45	90	15
Second Modelling Period	13:45-15:15	90	15

# **ODTAB Turning Counts**

**Demand Set:** Garston Netto - Car Park Access Junction WEEKDAY PM **Modelling Period:** 16:15-17:45

From/To	Arm A	Arm B	Arm C
Arm A	0.0	21.0	234.0
Arm B	23.0	0.0	13.0
Arm C	198.0	11.0	0.0

Demand Set: Garston Netto - Car Park Access Junction Demand Set SATURDAY

Modelling Period: 13:45-15:15

From/To	Arm A	Arm B	Arm C		
Arm A	0.0	45.0	212.0		
Arm B	40.0	0.0	22.0		
Arm C	196.0	25.0	0.0		

# **ODTAB Synthesised Flows**

**Demand Set:** Garston Netto - Car Park Access Junction WEEKDAY PM

Modelling Period: 16:15-17:45

Arm	Rising Time	Rising Flow (veh/min)	Peak Time	Peak Flow (veh/min)	Falling Time	Falling Flow (veh/min)
Arm A	16:30	3.188	17:00	4.781	17:30	3.188
Arm B	16:30	0.450	17:00	0.675	17:30	0.450
Arm C	16:30	2.612	17:00	3.919	17:30	2.612

# **Heavy Vehicles Percentages**

**Demand Set:** Garston Netto - Car Park Access Junction WEEKDAY PM **Modelling Period:** 16:15-17:45

From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	0.0
Arm B	0.0	-	0.0
Arm C	0.0	0.0	-

Demand Set: Garston Netto - Car Park Access Junction Demand Set SATURDAY

Modelling Period: 13:45-15:15

From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	0.0
Arm B	0.0	-	0.0
Arm C	0.0	0.0	_

# **Queues & Delays**

**Demand Set:** Sum of Demand Sets for Modelling Period: 16:15 - 17:45 **Modelling Period:** 16:15-17:45

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.45	7.75	0.058	-	0.00	0.06	-	0.9	0.14
	C-AB	0.14	9.55	0.014	-	0.00	0.01	-	0.2	0.11
16:15- 16:30	C-A	-	-	-	-	-	-	-	-	-
10.30	А-В	0.26	-	-	-	-	-	-	-	-
	A-C	2.94	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.54	7.56	0.071	-	0.06	0.08	-	1.1	0.14
	C-AB	0.16	9.40	0.018	-	0.01	0.02	-	0.3	0.11
16:30- 16:45	C-A	-	-	-	-	-	-	-	-	-
10.43	A-B	0.31	-	-	-	-	-	-	-	-
	A-C	3.51	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.66	7.30	0.091	-	0.08	0.10	-	1.4	0.15
	C-AB	0.20	9.20	0.022	-	0.02	0.02	-	0.3	0.11
16:45- 17:00	C-A	-	-	-	-	-	-	-	-	-
17:00	А-В	0.39	-	-	-	-	-	-	-	-
	A-C	4.29	-	-	_	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.66	7.30	0.091	-	0.10	0.10	-	1.5	0.15
17.00	C-AB	0.20	9.20	0.022	-	0.02	0.02	-	0.3	0.11
17:00- 17:15	C-A	-	-	-	-	-	-	-	-	-
17.13	А-В	0.39	-	-	-	-	-	-	-	-
	A-C	4.29	-	-	_	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.54	7.56	0.071	-	0.10	0.08	-	1.2	0.14
	C-AB	0.16	9.40	0.018	-	0.02	0.02	-	0.3	0.11
17:15- 17:30	C-A	-	-	-	-	-	-	-	-	-
17.50	A-B	0.31	-	-	-	-	-	-	-	-
	A-C	3.51	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.45	7.75	0.058	-	0.08	0.06	-	1.0	0.14
	C-AB	0.14	9.55	0.014	-	0.02	0.01	-	0.2	0.11
17:30- 17:45	C-A	-	-	-	-	-	-	-	-	-
17.43	А-В	0.26	-	-	-	-	-	-	-	-
	A-C	2.94	-	-	-	-	-	-	-	-

**Demand Set:** Sum of Demand Sets for Modelling Period: 13:45 - 15:15 **Modelling Period:** 13:45-15:15

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.78	7.73	0.101	-	0.00	0.11	-	1.6	0.14
	C-AB	0.31	9.54	0.033	-	0.00	0.03	-	0.5	0.11
13:45- 14:00	C-A	-	-	-	-	-	-	-	-	-
14.00	А-В	0.56	-	-	-	-	-	-	-	-
	A-C	2.66	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
	B-AC	0.93	7.54	0.123	-	0.11	0.14	-	2.0	0.15
	C-AB	0.37	9.40	0.040	-	0.03	0.04	-	0.6	0.11
14:00- 14:15	C-A	-	-	-	-	-	-	-	-	-
11.13	А-В	0.67	-	-	-	-	-	-	-	-
	A-C	3.18	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
14:15- 14:30	B-AC	1.14	7.27	0.156	-	0.14	0.18	-	2.7	0.16
	C-AB	0.46	9.20	0.050	-	0.04	0.05	-	0.8	0.11
	C-A	-	-	-	-	-	-	-	-	-
	А-В	0.83	-	-	-	-	-	-	-	-
	A-C	3.89	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
14:30- 14:45	B-AC	1.14	7.27	0.156	-	0.18	0.18	-	2.8	0.16
	C-AB	0.46	9.20	0.050	-	0.05	0.05	-	0.8	0.11
	C-A	-	-	-	-	-	-	-	-	-
	А-В	0.83	-	-	-	-	-	-	-	-
	A-C	3.89	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
14:45- 15:00	B-AC	0.93	7.54	0.123	-	0.18	0.14	-	2.2	0.15
	C-AB	0.37	9.40	0.040	-	0.05	0.04	-	0.6	0.11
	C-A	-	-	-	-	-	-	-	-	-
	А-В	0.67	-	-	-	-	-	-	-	-
	A-C	3.18	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
15:00- 15:15	B-AC	0.78	7.73	0.101	-	0.14	0.11	-	1.7	0.14
	C-AB	0.31	9.54	0.033	-	0.04	0.03	-	0.5	0.11
	C-A	-	-	-	-	-	-	-	-	-
	А-В	0.56	-	-	-	-	-	-	-	-
	A-C	2.66	-	-	-	-	-	-	-	-

Entry capacities marked with an '(X)' are dominated by a pedestrian crossing in that time segment. In time segments marked with a '(B)', traffic leaving the junction may block back from a crossing so impairing normal operation of the junction.

Delays marked with '##' could not be calculated.

# **PICADY 5 Run Successful**