



TRAVEL PLAN

The Bridgeway Centre,
Site 1 Wrexham Industrial Estate,
Wrexham, Clwyd

Client: FI Real Estate Management



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APPENDICES AVAILABLE IN TRANSPORT ASSESSMENT

1 INTRODUCTION

1.1 Purpose of Report

- 1.1.1 This Framework Travel Plan (TP) has been prepared to accompany the planning application by FI Real Estate Management ('FI Real Estate') for the redevelopment of the Bridgeway Centre, also known as Site 1, in Wrexham Industrial Estate (WIE).
- 1.1.2 The redevelopment will involve the replacement of the majority of the existing industrial units on the site with more modern, fit-for-purpose industrial units along with several food and non-food retail units to serve the wider industrial estate. Several of the units will be retained following refurbishment. Tenants of the units that will be demolished will relocate to Site 4.
- 1.1.3 Wrexham County Borough Council (WCBC) is the Local Highway Authority (LHA) and the Local Planning Authority (LPA). Prime Transport Planning ('Prime') has produced this TP on behalf of the applicant.
- 1.1.4 The document has been prepared in accordance with *Planning Policy Wales* and *Technical Advice Note 18: Transport* as well as a number of local policy documents.
- 1.1.5 This report should not be considered as a definitive document but as the first stage of the TP process, which will continue and evolve over time with input from the developer, future occupiers and WCBC. The focus of this TP is therefore towards ensuring that opportunities to promote and encourage the use of sustainable modes of travel for future staff and visitors are actively in place prior to occupation of the development, and beyond. An earlier version of this document was submitted to WCBC for pre-application review, however the LHA did not provide any comments.
- 1.1.6 This document has been prepared alongside a Transport Assessment (TA) for the development proposal. As many highway and transportation details are pertinent to both documents, there is some repetition between the two and several of the TA Appendices are referenced in this document.
- 1.1.7 The suggestions and recommendations contained herein have been drawn based on information available and obtained in advance of the planning submission to which this report relates.
- 1.1.8 Reasonable checks have been carried out on any third-party information used in the preparation of this report but, nonetheless, Prime Transport Planning accepts no liability for the accuracy or otherwise of this data.
- 1.1.9 Third-party rights are excluded for the use of information contained within this report.

1.2 Scope of Report

- 1.2.1 Following this introduction, the remainder of this report is structured as follows:

- **Section 2** describes the relevant local and national TP policy and guidance and presents the objectives of this TP;
- **Section 3** describes the existing situation in terms of the site and local highway network;
- **Section 4** details the development proposals including the trip generation;
- **Section 5** details access to the site by sustainable modes of transport which includes walking, cycling and public transport;
- **Section 6** is a Transport Implementation Plan (TIS), which describes the measures to be employed to promote the sustainability of the site, discusses TP management and describes how TPs should be monitored and reviewed.

2 TRANSPORT POLICY AND GUIDANCE

2.1 Introduction

- 2.1.1 It is important that any new developments conform to and complement national and local planning policy. This section details the policies that are relevant to this development.

2.2 Planning Policy Wales

- 2.2.1 The document *Planning Policy Wales* (PPW) sets out the land use planning policies of the Welsh Government and is supported by a series of Technical Advice Notes (TANs). The most recent version of PPW is Edition 11, published in February 2021.

- 2.2.2 Transport is considered in Chapter 3, Chapter 4 and Chapter 5 of PPW. The document sets out a primary objective, *‘to ensure that the planning system contributes towards the delivery of sustainable development and improves the social, economic, environmental and cultural well-being of Wales’*.

- 2.2.3 Chapter 3 outlines the importance of strategic placemaking, with early decisions having the greatest impact on contributing towards a sustainable development. The chapter continues to state:

‘Good design is about avoiding the creation of car-based developments. It contributes to minimising the need to travel and reliance on the car, whilst maximising opportunities for people to make sustainable and healthy travel choices for their daily journeys.’

- 2.2.4 The chapter addresses place-making within rural areas, with it being acknowledged that for rural areas, *‘opportunities for reducing car use and increasing walking, cycling and use of public transport are more limited than in urban areas’*.

- 2.2.5 Chapter 4 highlights the importance of cohesive communities, with such considerations through placemaking contributing towards a *‘prosperous’, ‘resilient’ and ‘healthier’* Wales. The chapter discusses transport in detail, with the need for the people to access jobs and services through *‘shorter, more efficient and sustainable journeys, by walking, cycling and public transport’*.

- 2.2.6 Chapter 4 also addresses the following:

- Integrated planning and transport strategies;
- Sustainable transport and reduction in private car reliance;
- Active/social streets designed to be publicly orientated;
- Active travel and the encouragement of walking/cycling;
- Public transport and its availability;
- The encouragement of ultra-low emission vehicles;
- Traffic management and improved forecasting;
- The availability of car parking; and

- Transport Assessments as an important mechanism for considering traffic impact.

2.2.7 Chapter 5 discusses the economic components of placemaking and the creation of ‘*productive and enterprising places*’. The chapter continues to state that such enterprising places are ‘*designed and sited to promote healthy lifestyles*’ with this being done by making them ‘*easy to walk and cycle to and around*’, and easy to access by public transport.

2.2.8 Transport infrastructure is discussed in detail, with the importance of such infrastructure towards sustainable development stated below:

‘The provision of sustainable transport infrastructure is essential in order to build prosperity, tackle the climate emergency, reduce airborne pollution and to improve the social, economic, environmental and cultural well-being of Wales. The planning system should facilitate the delivery, decarbonisation and improvement of transport infrastructure in a way which reduces the need to travel, particularly by private vehicles, and facilitates and increases the use of active and sustainable transport.’

2.2.9 Accordingly, this TA has been structured to include an assessment of accessibility by sustainable modes including walking, cycling and public transport, road safety and the impacts of the development on the local highway network.

2.3 Technical Advice Note 18: Transport

2.3.1 TAN 18 (2007) outlines the need for, and the required content of TAs, for some classifications and scales of development in Wales. The document outlines the following aims to be considered when producing a TA:

- Understand the transport impacts of the development;
- Clearly communicate the impacts to assist the decision-making process;
- Demonstrate the development is sited in a location that will produce a desired and predicted output (for example in terms of target modal split);
- Mitigate negative transport impacts through the design process and secure through planning conditions or obligations; and
- Maximise the accessibility of the development by non-car mode

2.3.2 TAN 18 provides detailed guidance on visibility standards, and essentially provides for visibility to be based upon the standards in the *Design Manual for Roads and Bridges* (DMRB) for roads where actual road speeds are unknown or where the speed limit is >60kph (37mph), and the standards in Manual for Streets (MfS) where speeds are known and are <60kph (37mph).

2.3.3 In relation to accessibility, TAN 18 emphasises the utility of using ‘*accessibility profiles*’, which consider whether a site has the potential to minimise travel by the private car. In accordance with this, GIS software has been utilised to generate accessibility isochrones for walking and cycling trips, while the

site's accessibility by public transport has been considered in the context of timetabled services in the area.

- 2.3.4 TAN 18 goes on to outline the requirement for a 'Transport Implementation Strategy' (TIS) to be produced as an output of the TP. The document summarises the requirements of the TIS as follows:

'[The TIS] should set objectives and targets relating to managing travel demand for the development and set out the infrastructure, demand management measures and financial contributions necessary to achieve them. The TIS should set a framework for monitoring the objectives and targets, including the future modal split of transport to development sites.'

- 2.3.5 In relation to how a TIS interfaces with the production of a TA and TP, the guidance states that:

'TISs resulting from the TA process are intended to incorporate all the components of a travel plan and ensure these are integrated with design elements of the new development.'

- 2.3.6 In the light of the above, a TIS is included within the contents of the Framework TP which has been produced to accompany this TA, and draws upon the findings and conclusions of this TA, in addition to the potential sustainable travel measures described within the TP.

2.4 North Wales Joint Local Transport Plan 2015

- 2.4.1 The North Wales Joint Local Transport Plan (LTP) was prepared by the North Wales Local Authorities in response to the Welsh Government requirement for LTPs to be submitted by the end of January 2015. The LTP's stated 'vision' is to 'remove barriers by delivering safe, sustainable, affordable and effective transport networks'.

- 2.4.2 The LTP aims to address the following key issues for North Wales:

- The ability of the strategic road and rail corridors to provide the necessary good connectivity, for people and freight, within North Wales, to the ports and to the rest of the UK to support the economy and jobs, including tourism;
- The lack of resilience of the road and rail networks to planned and unplanned events including extreme weather;
- The need for good access to and between the three Enterprise Zones in North Wales;
- The lack of viable and affordable alternatives to the car to access key employment sites and other services; and
- The need for good road links to / from the trunk road network into the rural areas to help retain the viability of local businesses and support the Welsh language and culture.

- 2.4.3 This Plan therefore provides the strategic baseline for considering developments that have a transportation element within the wider area. In terms of the proposed/refurbished industrial and retail units within this application, consideration will be made of the wider integration within the highways network and access by sustainable modes.

2.5 Wrexham Unitary Development Plan (1996-2011)

- 2.5.1 The Unitary Development Plan (UDP) 1996 - 2011 was adopted by WCBC in February 2005. The document reflects the council's corporate vision for the County Borough's future based on:

- Aspiring city status, with Wrexham centre as its civic hub;
- Rural revitalised distinct towns and villages and attractive viable hinterland;
- Modern robust economy across all sectors;
- Improve quality of life for residents with an emphasis on supporting access to a variety of education and employment opportunities; and
- Institutions of growing stature: for example, the Council itself.

- 2.5.2 Part 1 of the strategic policies within this document outlines policies PS1, PS2, PS3, PS4. These policies outline the broad locations of where developments should be sought as follows:

- **Policy PS1:** New development for housing, employment, and community services will be directed to within defined settlement limits/employment areas;
- **Policy PS2:** Development must not materially detrimentally affect countryside, landscape/townscape character, open space, or the quality of the natural environment;
- **Policy PS3:** Development should use previously developed brownfield land comprising vacant, derelict or underused land in preference to the use of greenfield land, wherever possible, particularly so where greenfield land is of ecological, landscape or amenity value, or comprises agricultural land of grades 1, 2 or 3a quality; and
- **Policy PS4:** Development should maintain the existing settlement pattern and character and be integrated with the existing transport network to help reduce the overall need to travel and encourage the use of alternatives to the car.

- 2.5.3 In addition to these, Policy PS8 outlines the development targets for transportation:

- **Policy PS8:** The transport network will be developed by providing an integrated range of travel options to and from principal residential, commercial, employment and education centres by making the best use of the existing road and rail network, including, where necessary, the provision of facilities for both passenger and freight interchange and by the encouragement of public transport, cycling and walking.

- 2.5.4 It is noted that the Unitary Development Plan (1996-2011) is currently outdated, however, the Wrexham Local Development Plan 2 (2013-2028) is still undergoing consultation and is yet to be

released. As such, the Unitary Development Plan (1996-2011), as the only document available, shall be used for reference when completing this TA.

2.6 Wrexham Local Development Plan 2 (2013-2028)

2.6.1 WCBC is preparing the Local Development Plan (LDP) which will replace the current adopted Unitary Development Plan. The LDP will be a long-term land use and development strategy focused on achieving sustainable development and will:

- Guide development for housing, employment, retail and other uses;
- Set out policies that will be used to decide planning applications; and
- Safeguard areas of land requiring protection or enhancement.

2.7 Local Planning Guidance Note 16 - Parking Standards

2.7.1 This guidance note explains the parking standards the Council applies to new development. It amplifies Unitary Development Plan (UDP 1996-2011) policies and will be a material consideration in the determination of planning applications. This guidance note was revised by the Council in July 2011, subject to external consultation in September 2011 and was formally adopted for use by the Executive Board in November 2011.

2.7.2 Through a review of this document, the parking standards required for the B1 (now use class 'E'), B2 and B8 land uses proposed for the development are noted. Given that this application is for outline planning permission and the final mix of development is not known and subject to future submissions, meaning that calculations relating to parking provision are liable to change.

2.7.3 Reserved Matters applications will be expected to provide sufficient parking to comply with the relevant standards at the time of submission. These standards can be seen below within Table 2.1 The expected final mix of parking provision is further discussed within Section 4 of this report and is also included with any site plans submitted for this application.

Table 2.1 Parking Standards

Type of Development		Parking Standard	Cycle Parking Standard
B1 Business and light industry		1 car space per 30m ² gross floor space	1 cycle space per 300m ² gross floor space
B2 General Industry		1 car space per 50m ² gross floor space	1 cycle space per 500m ² gross floor space
B8 Storage and Distribution		1 car space per 100m ² gross floor space	1 cycle space per 1000m ² gross floor space
An area suitable for HGVs to load/unload and turn within the site will normally be required for B2 and B8 uses, particularly for sites accessed from a classified road. Any extensions to industrial or warehouse premises should not result in the loss of HGV loading/unloading/turning spaces unless an adequate alternative can be provided within the site.			
Type of Development		Parking Standard	Cycle Parking Standard
A1 Shops	Small shops of up to 300 m ² gross floor space	1 car space per 15m ² gross floor space	1 cycle space per 150m ² gross floor space
	Food retail in excess of 300 m ² floor space.	1 car space per 14m ² gross floor space	1 cycle space per 140m ² gross floor space
	Non Food Retail in excess of 300 m ² floor space.	1 car space per 20m ² gross floor space	1 cycle space per 200m ² gross floor space
Retail developments should provide an adequate area for delivery vehicles to unload and to turn within the site, particularly those accessed from a classified road. Extensions to retail premises should not result in the loss of this space unless an adequate alternative can be provided within the site.			
A2 Financial & Professional Services		1 car space per 20m ² gross floor space	1 cycle space per 200m ² gross floor space
A3 Pubs, restaurants and cafes and hot food takeaways		1 car space per 4m ² public floor space	1 cycle space per 40m ² public floor space
For hot food takeaways and restaurants offering takeaway services, there will need to be short stay parking on site or a short distance of the premises. Rear services yards are unlikely to be suitable to meet the parking requirements for this type of business.			

2.8 Wrexham Connected: Our Sustainable Urban Mobility Plan 2016

2.8.1 The *Wrexham Connected* document sets a clear vision for the future of transport for the area. It brings together the Council's overall direction of transport planning.

2.8.2 The document outlines the importance of the council's *Sustainable Urban Mobility Plan* (SUMP). This is discussed in specific reference to WIE, and the Council's concern for the public's ability to connect in and around the town centre, as well as corridors outside of the town.

2.8.3 Stated within the document are the *Wrexham Connected* objectives, which are set to maximise how the Council can contribute to the national well-being goals contained within the *Future Generations Act*, being that they support a cohesive Wales and more resilient Wales. The objectives are as follows:

- **Safer Places** – working with partners to create safer environments for people to live, work and play;
- **Sustainable Places** – will embrace a 'sustainable', transport-first approach to new development;
- **Healthy Places** – reduce the impacts of air and noise pollution;

- **Affordable Places** – stimulate inward investment and regeneration that leads to job creation; and
- **Well Connected Places** – enhance connectivity to, from and within Wrexham to improve the attractiveness and quality of the area.

2.9 Summary

- 2.9.1 This section has outlined national and local transport policies and guidance which are applicable to the development site. The production of this TP is consistent with the requirement for TPs set out in PPW, TAN 18 and the UDP for Wrexham. How the site conforms to and complements the other policies and guidance described above is discussed in the following sections of this report, where relevant.

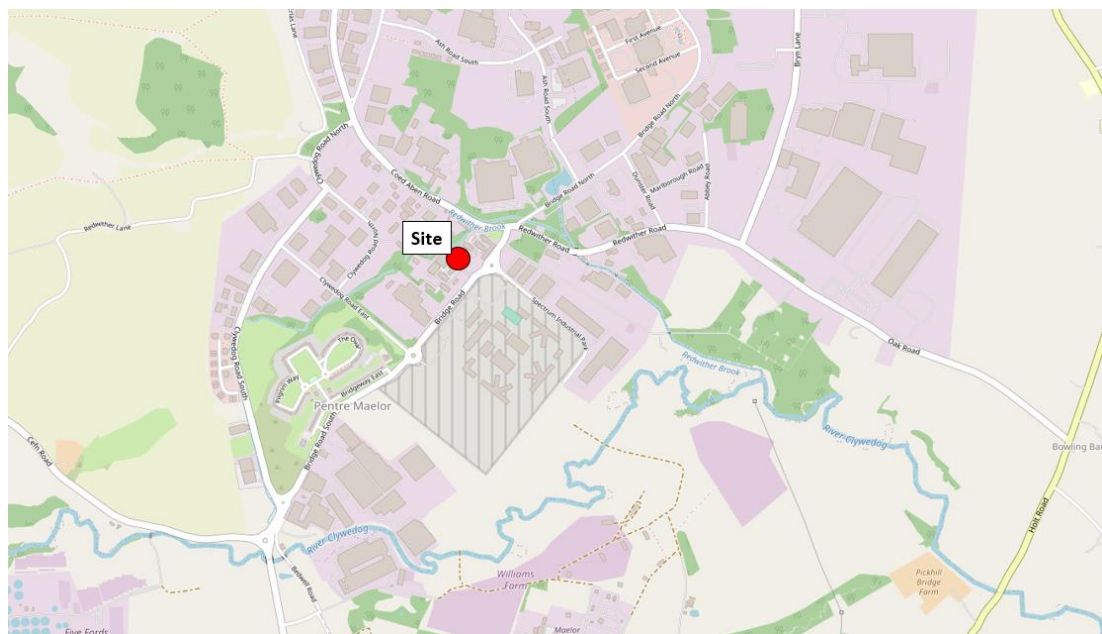
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3 EXISTING SITUATION

3.1 Site Description

- 3.1.1 The site is located on the corner of Bridge Road to the east and Coed Aben Road to the north. To the west the site is bounded by existing industrial units and open land. The site can be accessed from two points on Bridge Road, with a third access being taken from Coed Aben Road. All three accesses are simple priority controlled junctions. The frontage to Bridge Road is approximately 270m long.
- 3.1.2 Wrexham Industrial Estate is circa 3.5km east of Wrexham town centre, circa 4km north of Bangor-on-Dee and approximately 6km south-west of Farndon. The location of the site in the context of WIE and the local highway network is illustrated in Image 3.1.

Image 3.1: Site Location Plan



3.2 Existing Use

- 3.2.1 The application site is currently in use by a mixture of light industrial and manufacturing businesses along with some small retailers, a diner (Unit 26 & 27), a café (Unit 29) and a Greggs hot and cold food takeaway (Unit 28). A summary of the existing units and their associated gross floor area (GFA) is provided in Table 3.1.

Table 3.1: Summary of Existing Units

Property	Use	Gross Floor Area	
		m ²	ft ²
Unit 1	B1-B8	187	2,017
Unit 2	B1-B8	223	2,403
Unit 3	B1-B8	224	2,409
Unit 4	B1-B8	56	606
Unit 5	B1-B8	56	608
Unit 6	B1-B8	81	870
Unit 7	B1-B8	70	755
Unit 8	B1-B8	56	600
Unit 9	B1-B8	83	890
Unit 13	B1-B8	230	2,472
Unit 14	B1-B8	222	2,393
Unit 15 & 16	B1-B8	453	4,874
Unit 17	B1-B8	499	5,368
Unit 19	B1-B8	239	2,576
Unit 20	B1-B8	239	2,576
Unit 21	B1-B8	246	2,651
Unit 22	B1-B8	316	3,402
Unit 23	A2 (IT repair)	27	290
Unit 24	A2 (farm veterinarian)	52	565
Unit 25	A1 (vape shop)	55	597
Unit 26 & 27	A3 (diner)	143	1,540
Unit 28	A3 (Greggs takeaway)	84	902
Unit 29	A3 (café)	170	1,830
Unit 30	B1-B8	527	5,669
Total		4,538	48,863

3.2.2 The light industrial/manufacturing units total a GFA of 4,007m² while the retail units total 531m².

3.3 Local Highway Network

Bridge Road

3.3.1 Bridge Road is two-way single carriageway local distributor, running in a generally north-east to south-west alignment along the frontage of the site, with a circa 12m width. The site takes access approximately 60m south from the from the Coed Aben Road/Redwither Road priority junction to Bridge Road, with this point serving the local 'Gourmet Café' and other local shops. The second access from Bridge Road is then taken approximately 150m further south from the first, with this point serving the main hub of the site and the current industrial units. The road is subject to a 40mph speed limit enforcement with two 3-arm roundabouts in proximity to the site. One roundabout exists circa 320m south of the second site access, connecting to Bridge Road South, Clywedog Road East and HMP Berwyn (which opened in 2017). The second roundabout exists to the north, circa 60m south of the first site access, providing access to Spectrum Business Park and a continuation of Bridge Road to the priority junction mentioned previously.

- 3.3.2 Bridge road is circa 530m in length, with an approximate 2m wide footway along its southern verge. A similar width footway exists along the northern verge, separated from the carriageway by a section of grass verge, this being approximately 3m in width. Street lighting is present.
- 3.3.3 A large industrial building, occupied by Hydro Aluminium Deeside Ltd, to the south of the proposed site, also takes access via Bridge Road.
- 3.3.4 Two pairs of bus stops exist along the length of Bridge Road. A northbound and southbound stop exists to the south of Coed Aben Road, circa 60m from the junction, known as 'Barclays Bank' bus stops. The second pair exists to the south of the proposed site, circa 50m north from the southern roundabout. These stops are known as 'Bridge Road'.

Coed Aben Road/Abenbury Way/Redwither Road

- 3.3.5 Coed Aben Road runs through the centre of WIE. The road is approximately 670m in length, with Bridge Road meeting at its south-eastern tip in a priority junction, and Clywedog Road North meeting at its north-western tip in a similar manner. To the east of the Bridge Road junction, Coed Aben Road becomes Redwither Road, while north of the Clywedog Road North junction the road becomes Abenbury Way.
- 3.3.6 The road is approximately 9m in width, with street lighting present. Footway exists along both sides of the carriageway for the length of the road, at an approximate width of 2m. Numerous industrial/business/manufacturing units take access from the road.
- 3.3.7 Abenbury Way is slightly narrower, with an approximate 7m carriageway and footway only existing within its southern verge, though the footway maintains its width from Coed Aben Road of circa 2m. Both Coed Aben Road and Abenbury Way have the same speed limit of 40mph with street lighting present.

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4 DEVELOPMENT PROPOSAL

4.1 Development Description

- 4.1.1 The planning application is a hybrid application with FIREM seeking a mix of outline and detailed/full planning permission for the redevelopment of The Bridgeway Centre in Wrexham Industrial Estate. The details of the plots seeking either detailed or outline planning permissions are discussed in more detail below.
- 4.1.2 Whilst the site is active and well-occupied by tenants predominantly engaged in light industrial use with some retail, many of the units are no longer fit-for-purpose and will be demolished to enable their replacement with more modern premises. The retail units (23-29 totalling 531m²) are to be retained and refurbished but with no increase in floor area.
- 4.1.3 For planning purposes, FIREM are seeking permission for use classes B1, B2 and B8 to allow for a degree of commercial flexibility, however it is important to note that the units will be predominantly light industrial as per the existing use, and therefore B2 and B8 in nature; any B1 elements will simply be ancillary to the main B2 and B8 uses and be 'light industrial' rather than 'office'.
- 4.1.4 The proposed layout can be seen in the Proposed Site Plan produced by MCAU which highlights the areas seeking outline and full planning permissions. A summary of the proposed units and associated floor areas is shown in Table 4.1.

Table 4.1: Floor Area Summary

Block	Planning Permission	Units	Use	Ground Floor Area (m ²)
Block B	Full	5	Retail	674
Block C	Full	13	B1-B8	1525
Block D	Full	7	B1-B8	694
Block E	Full	13	B1-B8	1192
Block F	Outline	7	B1-B8	3042
Block G	Outline	4	B1-B8	540
Block H	Outline	2	B1-B8	808
Block I	Outline	5	B1-B8	1726
Block J	Outline	1	B1-B8	780
Total				10981

- 4.1.5 The total unit floor area for the site is 10,981m², however 674m² (Block B) will be retained and refurbished. The existing total unit floor area of the site, minus the 674m² to be retained, is 3,864m². The development proposals therefore equate to an increase of 6,443m² B1-B8 (but predominantly B2 and B8 with B1 being ancillary to these uses).

4.2 Access Arrangement

- 4.2.1 The site has two existing access points from Bridge Road, hereon referred to as the central and southern accesses, with a third, referred to as the northern access, adjoining to Coed Aben Road. These three accesses will be retained to serve the development however the site will be split into two main parcels, with the more northern parcel afforded access via Coed Aben Road and the central Bridge Road access, with the southern parcel afforded access via the southern Bridge Road access point. The two main parcels will no longer have an internal vehicular access between them. The site plan and access points are shown on Drawing P20030-001A in Appendix B of the TA.

Blocks A-E

- 4.2.2 The existing central access to the north of the Bridge Road/Spectrum Business Park roundabout and the existing access off Coed Aben Road will serve Blocks A, B, C, D and E. The majority of the internal layout for this section will form part of the detailed planning application, other than Block A which will be outline.
- 4.2.3 Whilst both of these access points currently serve a number of units, there is likely be in increase in larger vehicles such as transit vans and service vehicles which will require access to this part of the site. It is therefore proposed that the northern Bridge Road access will be modified to comprise a circa 7.0m wide access with 10m radii to assist with these vehicle movements, while the existing access dimensions off Coed Aben Road will be retained. The footways and existing tapers at Coed Aben Road afford the existing site access with a good level of visibility, as does the existing footway and verges at the Bridge Road access. Any vegetation will be cut back to ensure adequate visibility can be maintained as per the existing arrangements.
- 4.2.4 The two northern parcel accesses will be connected internally, so it will be down to the visitors and employees to choose what is the most appropriate access for them, however it is anticipated that HGV access from Coed Aben Road will be restricted. Welcome signage will also likely have a bearing on this and will indicate the most appropriate access for employees/ visitors to use. The internal connection will provide direct access to Block A located towards the north of the site, as well as a loop style arrangement to the south which will provide access to the rear of Block B, as well as Blocks C, D and E. The internal roads will measure at least 6.0m wide between parking spaces and footpaths measuring circa 1.8m - 2.0m wide will traverse each building throughout.
- 4.2.5 Blocks C-E will all have loading bays capable of accommodating Transit size vans and Block A indicatively will have a service bay located at its internal egress which can accommodate a refuse vehicle.

Blocks F-J

- 4.2.6 The existing access to the south of the Bridge Road/Spectrum Business Park roundabout will serve Blocks F, G, H, I, and J, as well as the existing units to the rear of the site, with the two existing internal

accesses to these units maintained. The internal layout for this section of the site will be outline with all matters reserved except for the main vehicular access.

- 4.2.7 The existing access off Bridge Road will be upgraded to consist of a circa 7.3m wide access with 15m radii, with these geometric parameters being suitable for the largest vehicles expected to access the site, specifically 16.5m long HGVs. Whilst the access can clearly already accommodate HGVs, larger radii will assist with the intensification of use on the site. The footways and wide grass verge along this section of Bridge Road afford the existing site access with a good level of visibility
- 4.2.8 The internal access road for Blocks F – J will travel through 2 x 90° bends, providing access to parking and loading bays associated with each unit, as well as a dedicated service yard and turning area associated with Block J. The access road will be 7.3m wide with localised widening on the bends to enable cars and HGVs to pass. Blocks C-I will all have loading bays capable of accommodating Transit size vans while Block J will be capable of accommodating a 16.5m long articulated lorry in the service yard with an adequate turning area.

4.3 Parking Provision

- 4.3.1 The level of parking proposed has been carefully considered by the applicant using their detailed knowledge and experience as one of the largest industrial and commercial property, asset and facilities management companies in the UK. Providing a sufficient level of parking is important to them and their future tenants.
- 4.3.2 As stated above, whilst planning permission for the employment elements is being sought for open B1-B8 use; any B1 use will be 'light industrial' and ancillary to the main B2 and B8 use rather than dedicated B1 'office' use.
- 4.3.3 A summary of the proposed parking provision is as follows:
- Total car parking spaces = 228;
 - Total standard car parking spaces = 204;
 - Total accessible/disabled parking spaces = 24;
 - Total electric vehicle (EV) charging spaces = 6; and
 - 2 x cycle stores 44 bicycles in total).
- 4.3.4 It is not envisaged at this stage that parking will be allocated to particular units, but the site layout provides 38 car spaces (including 3 accessible spaces) for the retail element (Block B) with the cycle stores located to the west and east of the block. We believe these number to be sufficient for the retail element based on the calculated provided in Table 4.2 below, which is the total requirement based on WCBC's parking standards.

Table 4.2: Retail Use Parking Calculation

Block/Unit	GFA (m ²)	Public FA (m ²)	Land Use	Space Requirement	
				Car	Cycle
B: Unit 23	27	-	A2 (IT repair)	1	0
B: Unit 24	52	-	A2 (farm veterinarian)	3	0
B: Unit 25	55	-	A1 (vape shop)	4	0
B: Unit 26 & 27	143	42.9	A3 (diner)	11	1
B: Unit 28	84	16.8	A3 (Greggs takeaway)	4	0
B: Unit 29	170	51	A3 (café)	13	1
Total				35	3

- 4.3.5 The assumptions have been made that 30% of the floor area of the A3 units will be publicly accessible with the exception of the Greggs takeaway where the figure will be 20%. It is important to note that there may be some cross-visitation between the retail units, plus the duration of stay for many of the A3 unit customers will be short as they will involve takeaway dining and the peak times of some of the units will differ to that of their neighbours.
- 4.3.6 FIREM envisage their tenants engaging in around 60% B2 use and 40% B8 for the light industrial uses on the site, which would equate to 166 spaces required for Blocks C-J in accordance with WCBC's parking standards for B2 (1 space per 50m²) and B8 (1 space per 100m²) use. As mentioned previously, it is not envisaged at this stage that parking will be allocated to particular units, but the site layout provides 85 spaces for Units C, D and E, and 109 spaces for Units F, G, H, I and J, making an overall total of 194 for the industrial units on site, which is clearly sufficient for the proposed quantum of B2/B8 development as well as offering a degree of flexibility with the end use.
- 4.3.7 A summary of the required parking for the retail units and industrial units split between the detailed and outline boundaries are summarised in Table 4.3 below, with the required parking standards based on WCBC's parking standards and Table 4.2 above.

Table 4.3: Comparison of Required Spaces and Proposed Spaces

Area	Blocks	Spaces Req	Spaces Shown	Difference
Retail	B	35	38	3
East Employment	C-E	55	85	30
West Employment	F-J	111	105	-6
Total	All	201	228	27

- 4.3.8 As Table 4.3 shows, there will be an overprovision of 27 spaces in total, therefore there will clearly be sufficient parking for all propose uses on site.
- 4.3.9 44 cycle parking spaces will be provided which is greater than the 19 spaces which the local parking standards require. The extra provision proposed will help to encourage a greater number of staff to travel by bicycle.

4.4 Vehicular Trip Generation

Industrial Use

- 4.4.1 The proposed trip rates and associated trip generation were derived from a recent TRICS interrogation in line with best-practice advice and were presented to WCBC during scoping discussions. We feel that the use of mixed industrial estate trip rates are the most appropriate for the employment elements given the clear industrial estate nature of the development i.e. a collection of generally small scale light industrial units, with some trade counter use, some B8 distribution and probably some interaction between neighbouring units, unlike the existing which is largely B2 use. The proposed industrial estate trip rates and resultant trip generation is shown in Table 4.4 with the TRICS report output included in TA Appendix D.

Table 4.4: Vehicular Trip Rates & Generation – Proposed Employment Use

Time	Trip Rates			Trip Generation		
	Arrivals	Departures	Totals	Arrivals	Departures	Totals
07:00-08:00	0.502	0.137	0.639	52	14	66
08:00-09:00	0.606	0.376	0.982	62	39	101
09:00-10:00	0.539	0.403	0.942	56	42	98
10:00-11:00	0.498	0.468	0.966	51	48	99
11:00-12:00	0.493	0.520	1.013	51	54	105
12:00-13:00	0.485	0.531	1.016	50	55	105
13:00-14:00	0.502	0.501	1.003	52	52	104
14:00-15:00	0.448	0.478	0.926	46	49	95
15:00-16:00	0.389	0.478	0.867	40	49	89
16:00-17:00	0.451	0.624	1.075	46	64	110
17:00-18:00	0.271	0.543	0.814	28	56	84
18:00-19:00	0.091	0.235	0.326	9	24	33
Daily (12hr)	5.275	5.294	10.569	543	546	1089
HGVs included in the above						
08:00-09:00	0.031	0.039	0.070	3	4	7
16:00-17:00	0.013	0.014	0.027	1	1	2

- 4.4.2 The industrial uses are therefore likely to generate in the order of 101 and 110 two-way trips in the network peak hours, which are equivalent to just under two trips per minute.
- 4.4.3 It is important to note that the site has existing extant permission for industrial estate use, however the existing tenants are to transfer to Site 4 (Clywedog Rd N) which has planning permission for 35,015ft² (3,253m²) B2. Therefore all employment based trips to the redeveloped Bridgeway Centre will be new trips, with the existing trips remaining on the network but continuing to Site 4. The retail units and their tenants will remain in place as will their associated trips.

Retail Use

- 4.4.4 The existing retail units which will be refurbished with no increase in floor area include a diner, café, Greggs takeaway, vape retailer, farm veterinarian and IT repair shop. Clearly the three A3 uses and vape shop are likely to be well-visited by employees and visitors to the site and wider WIE, most likely as part of a linked trip to their place of work or visit to an industrial unit, or an impulse related pass-by trip; it is very unlikely that such uses will attract dedicated trips from outside of WIE. The other two occupiers are more specialist and are likely to attract dedicated trips from the Wrexham area, though these associated trip numbers are likely to be relatively very few. It is expected that these characteristics and level of trip generation will remain the same, or at least in line with their extant permission. As these trips are already on the local highway network, there is no need to provide additional trip generation calculations.

4.5 Multimodal Trip Generation

- 4.5.1 The number of non-car trips has been forecast using 2011 census Method of Travel to Work (MTW) data for the local mid layer super output (MSOA) area Wrexham 020 (W02000420) as a workplace destination. Factors have been derived by dividing the TRICS car/van trips (total vehicles minus HGVs) by the census equivalent, with these factors (0.0087 AM and 0.0100 PM) applied to the other census travel modes to forecast the site's likely modal split. As HGV (OGV) trips were calculated using TRICS and do not appear in the census data, the TRICS values have been shown, as have the TRICS values for cars/vans. A summary of these multimodal trips is shown in Table 4.5.

Table 4.5: Forecast Multimodal Person Trips

Method	Census Trips	Modal Split	AM Trips	PM Trips
Driving a car or van	10760	79.1%	94	108
Passenger in a car or van	1406	10.3%	12	14
Bus, minibus or coach	478	3.5%	4	5
On foot	414	3.0%	4	4
Bicycle	307	2.3%	3	3
Motorcycle/ scooter/ moped	142	1.0%	1	1
Taxi	58	0.4%	1	1
Train	44	0.3%	0	0
Total travel to work	13609	100.0%	119	136
<i>Factors</i>			<i>0.0087</i>	<i>0.0100</i>
HGVs	-	-	7	2
Total Trips	-	-	126	138

- 4.5.2 The above suggests that the proposed development will generate 126 and 138 total person trips in the respective AM and PM peak hours. Following driving as being the most popular mode, 12 and 14 trips will be as car/van passengers, 7 and 2 will be HGV drivers, 4 and 5 will be bus passengers, 4 will

travel on foot, 3 via bicycle, 1 via motorcycle/scooter and 1 via taxi. It is hoped that the Travel Plan measures suggested in Section 6 will help to increase the use of the non-car driver modes.

4.6 Summary

- 4.6.1 The development is proposed to be split into two main parcels, with the more northern parcel utilising the existing accesses off Coed Aben Road and Bridge Road (northern access), and the southern parcel utilising the existing access off Bridge Road (southern access).
- 4.6.2 All existing accesses will be upgraded, and it has been demonstrated that the site is able to accommodate all likely vehicle types which will regularly access the development.
- 4.6.3 The suggested car and cycle parking provision to be delivered as part of the scheme has been shown to slightly exceed WCB's parking requirements and is considered appropriate for the size and layout of the proposed development.

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5 ACCESS BY SUSTAINABLE MODES

5.1 Introduction

- 5.1.1 National and local transport planning policy centres on the importance of sustainable development, meaning that new developments should be located in areas where there is access to sustainable modes of travel, or where sustainable modes of travel can be introduced. The *National Design Guide* (2021) defines sustainable transport modes as:

‘Any efficient, safe and accessible means of transport with overall low impact on the environment, including walking and cycling, low and ultra low emission vehicles, car sharing and public transport.’

- 5.1.2 Walking, cycling and public transport are commonly regarded to be the most sustainable modes of transportation. This section of the report will describe how the site can be accessed by these modes.

5.2 Access by Foot

- 5.2.1 As described in **Section 3** above, the site takes access approximately 60m south from the from the Coed Aben Road/Redwither Road priority junction to Bridge Road, with this point serving the local ‘Gourmet Café’ and other local shops. The second access from Bridge Road is then taken approximately 150m further south from the first, with this point serving the main hub of the site and the current industrial units. A third access is taken from Coed Aben Road, allowing an alternative access to the main site, as well as the local shops to the north-east portion of the site. Footway provision and street lighting exist along the site frontage of Bridge Road and Coed Aben Road, with some footway extending within the site, though this ceases circa 35m from the main access point along Bridge Road.
- 5.2.2 Research has indicated that acceptable walking distances depend on several factors, including the quality of the street environment, the type of amenity offered, the surrounding area, and other local facilities. The Chartered Institution of Highways and Transportation (CIHT) document entitled *Providing for Journeys on Foot* (2000) suggests walking distances which are relevant to this application. These distances are shown in **Table 5.1**.

Table 5.1: Suggested Acceptable Walking Distances

Criteria	Commuting (m)	Local Services (m)
Desirable	500	400
Acceptable	1000	800
Preferred Maximum	2000	1200

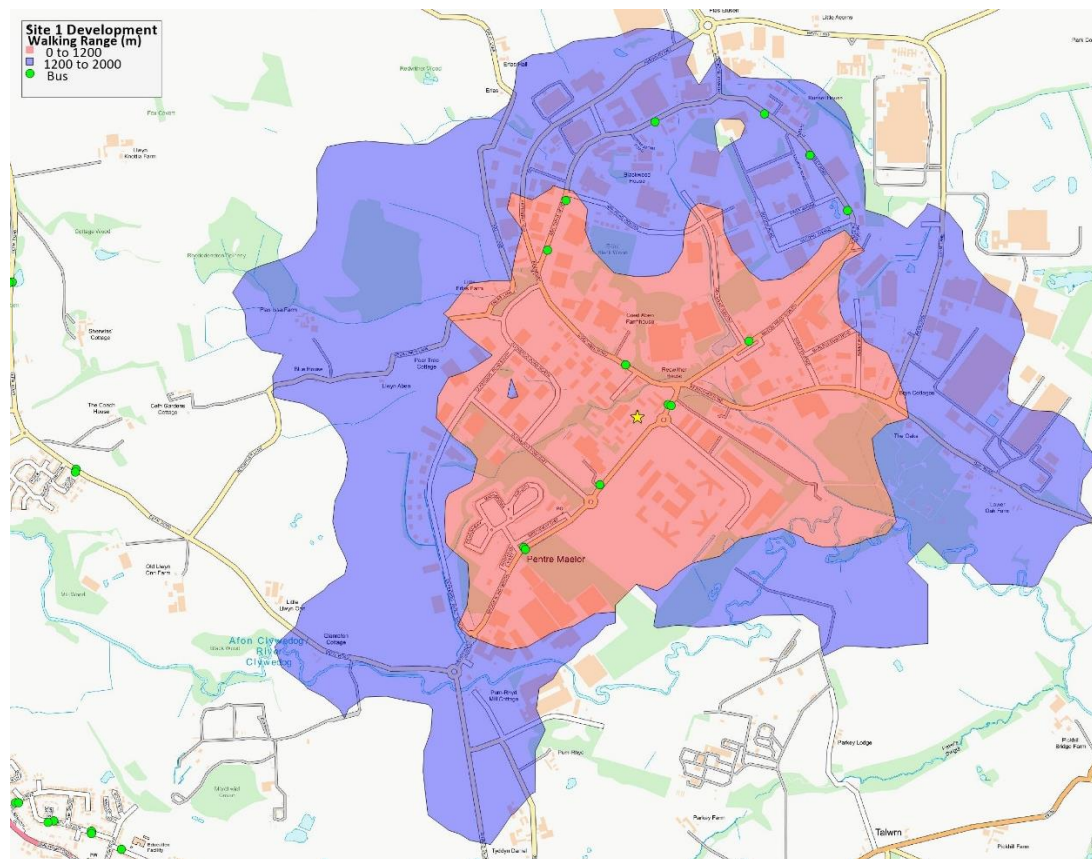
Source: CIHT Document ‘Providing for Journeys on Foot’ (2000)

5.2.3 Whilst **Table 5.1** provides useful guidance on walking distances, *Manual for Streets* provides a context for interpreting them. *Manual for Streets* states that:

'The propensity to walk is influenced not only by distance, but also by the quality of the walking experience. A 20-minute walk alongside a busy highway can seem endless, yet in a rich and stimulating street... it can pass without noticing.'

5.2.4 The accessibility for pedestrians to and from the site, in relation to WIE, has been considered in the above context. In order to highlight the site's accessibility on foot, an indicative walking isochrone has been produced using the Geographic Information System (GIS) software Visography TRACC. Figure 5.1 represents the site's walking catchment with the CIHT's 'Preferred Maximum' distances of 1200m and 2000m for local service and commuting trips respectively illustrated.

Figure 5.1: Walking Isochrone – 1200m and 2000m ranges



5.2.5 Seen within Figure 5.1, the site is accessible by the vast majority of WIE, with only a handful of units falling outside of the 2000m walking range, this being the preferred CIHT maximum distance.

5.2.6 The refurbished retail units on the site are particularly important in serving the employment elements, not only of the site, but of the wider estate. Having such local amenities reduces the trip numbers and distances for ancillary retail use, such as lunchtime meals, tea/coffee breaks and convenience shopping, leading to higher levels of trip containment within the site, which is more

sustainable than staff and visitors having to travel further distances, particularly by car, for such trip types.

5.2.7 The local bus stops are highlighted within Figure 5.1, with the nearest pairs of stops located on Bridge Road adjacent to the northern site access and with additional stops to the south and on Coed Aben Road, all of which are a 400m walk of the site which is the CIHT's recommend distance as per its document *Planning for Public Transport in Development*. The services provided by these bus stops are further detailed in **Section 5.3** below.

5.2.8 All footways, as seen within **Section 3**, are of reasonable width and quality. Pedestrian dropped kerbs exist at the majority of junctions to aid in pedestrian movements.

5.2.9 Given the evidence presented above, walking can be considered a realistic method of travel to/from the site to access the surrounding area of WIE and vice versa.

5.3 Access by Cycle

5.3.1 It is widely recognised that cycling can offer an attractive alternative to short car trips, particularly those under 5km, but also as part of longer journeys by public transport.

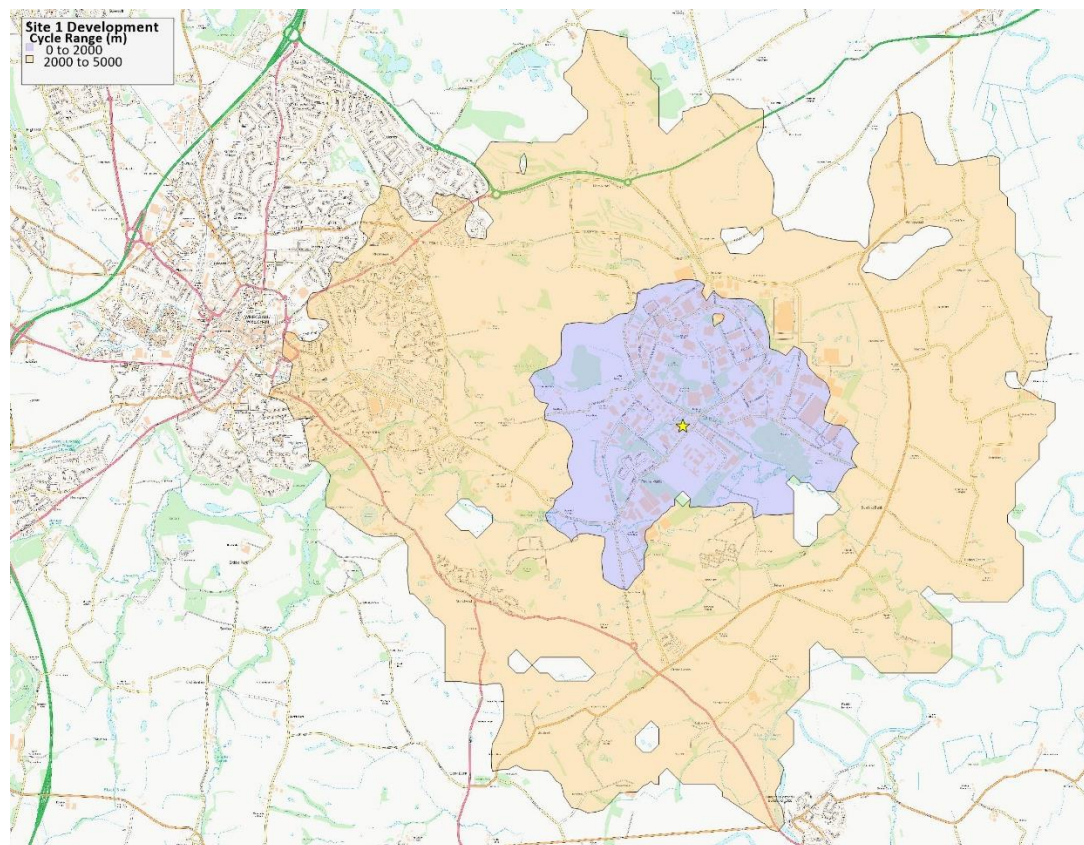
5.3.2 The CIHT document *Cycle Friendly Infrastructure* (2004) states in paragraph 2.3 that:

'Three quarters of journeys by all modes of travel are less than five miles (8km) and half under two miles (3.2km) (DoT 1993, table 2a). These are distances that can be cycled comfortably by a reasonably fit person.'

5.3.3 *Local Transport Note 1/20 Cycle Infrastructure Design* states similar, that *'Two out of every three personal trips are less than five miles [8km] in length – an achievable distance to cycle for most people'*.

5.3.4 It is noted that although no physical cycling infrastructure exists around WIE, the roads are wide, with the majority being a minimum 8m in width.

5.3.5 A cycling isochrone showing the site's catchment has also been produced using TRACC and is shown as **Figure 5.2**. The figure illustrates 2000m and 5000m catchment ranges, which equate to 10-minute and 25-minute journey times respectively which are based on the somewhat conservative cycle speed of 12kph. Commuting cyclists are in fact more typically considered to travel at speeds between 15-20kph so a greater catchment may be more realistic.

Figure 5.2: Cycling Isochrone – 2000m and 5000m ranges

5.3.6 It is clear that the whole of WIE, eastern parts of Wrexham, Marchwiel and smaller residential areas such as Nant Clwyd Park are within the 5000m catchment. Whilst parts of Wrexham are outside of the 5000m distance, the site may still be within a reasonable cycling distance for many staff who live there given the CIHT and DfT advice.

5.3.7 It is considered that commuting to the site via cycling is a viable option for future employees. Appropriate levels of cycle parking will be provided in line with local standards.

5.4 Access by Public Transport

5.4.1 The nearest bus stops are known as the 'Barclays Bank' stops and provide services both northbound and southbound towards Wrexham and around the industrial estate. They are located on Bridge Road within the vicinity of Barclays Bank and circa 200m north from the centre of the site. It is acknowledged that these are within of the recommended CIHT distance, with the route between the stops and the site conducive to walking.

5.4.2 The southbound stop provides a shelter, seating and timetable information, with the northbound stop being informal with no infrastructure provided. Dropped kerbs along the footways to the stops help to facilitate pedestrian movements.

- 5.4.3 A summary of the bus service available from these stops is provided in Table 5.2 with a copy of the timetable referenced at the time of writing provided in Appendix C of the TA.

Table 5.2: Summary of Bus Services from 'Barclays Bank' stop

Bus Service	Route	Weekday Period	Weekend
			Saturday
41a	Redwither Tower - Wrexham	06:08 – 18:15 Approx. 1 service/hr	06:08 – 18:15 Approx. 1 service/hr
	Wrexham – Redwither Tower	05:46 – 17:57 Approx. 1 service/hr	05:46 – 17:42 Approx. 1 service/hr

- 5.4.4 The 41a bus route shown in Table 5.2 above provides services to and from Wrexham with a frequent service of approximately one every hour on both weekdays and Saturdays and would be a viable option for commuters and visitors. Wrexham town centre can be reached in circa 20 minutes from the 'Barclays Bank' stop, with a similar journey time from the town to Wrexham Industrial Estate.
- 5.4.5 In light of existing service times and frequencies, it is considered that existing bus services provide a realistic travel option for staff at the proposed development to travel to work during typical weekday working hours and also on a Saturday if it's a requirement for the continual operation.
- 5.4.6 In respect of rail travel, Wrexham General train station can be reached via the abovementioned services with a short, circa 7-minute, walk from Wrexham bus station. The train station provides access to a wider range of locations, with Cardiff Central, Holyhead, Bidston, Birmingham International, Shrewsbury, Chester and Manchester all having services from this station. The station provides 20 bicycle storage spaces with 68 car parking spaces also provided¹.
- 5.4.7 The North Wales Metro project intends to enhance rail service frequencies across North Wales, with significant improvements to Wrexham's stations being part of the plans, which should further encourage travel by rail in the area.
- 5.4.8 In summary, both bus and rail services, combined with walking/cycling as part of a multimodal commute are likely to provide realistic travel options for commuters and visitors to the site at peak times and throughout the day.

5.5 Summary

- 5.5.1 This section of the report has demonstrated that the site is in a reasonably sustainable location where access to public transport is available and where local amenities fall within reasonable walking and cycling distances. The vast majority of WIE falls within a reasonable walking distance, indicating that the proposed amenities for this site will be accessible by the majority of workers on the estate rather than having to travel further afield by car for hot/cold food and convenience shopping.

¹ <https://www.nationalrail.co.uk/stations/WRX/details.html> accessed 10/09/21

- 5.5.2 The site is accessible via bicycle from the wider WIE and surrounding residential areas including Wrexham and Marchwiel.
- 5.5.3 The local bus service provide connections both locally around the site and towards Wrexham town centre at traditional working times and throughout the day, making bus travel a viable option to and from the proposed development. As such, the development proposals accord with the context and thinking as outlined in *Wrexham Connected: Our Sustainable Urban Mobility Plan* (2016) and the *Wrexham Unitary Development Plan* (1996-2011)
- 5.5.4 In light of the location of the site and the existing walking, cycling and public transport infrastructure, it is considered that there are opportunities to access to the site by sustainable modes of travel.

6 TRANSPORT IMPLEMENTATION PLAN

6.1 Introduction

- 6.1.1 It is important that TP measures are appropriate for the developments and have realistic potential to influence the increased uptake of sustainable modes of transportation. It is also important that they can influence people in the short, medium and long term.
- 6.1.2 Not only should measures be realistic but it is important that resources are made available to help deliver them. Therefore, the roles and responsibilities of all parties involved, particularly WCBC Highways and the eventual Travel Plan Co-ordinator for the site, should be presented, discussed and agreed at the earliest opportunity.
- 6.1.3 This section presents potential measures to help maximise the accessibility of the site by sustainable model of travel. Some of these measures are collective and apply to all modes of sustainable transport while others are specific to each mode.

6.2 Welcome Packs

- 6.2.1 Welcome Packs will be provided for all staff upon first occupation of the developments These will be produced by FIREM (or their consultant) with input from the WCBC Sustainable Travel team. Such packs will be essential to educating and informing future staff of both the sustainable transport modes available to them and the benefits they can have for them and their families including time and cost savings, supporting a healthy lifestyle and minimising their carbon footprint. They are therefore essential to the promotion of what this Framework TP aims to achieve.
- 6.2.2 Typically, the content a Welcome Pack would include:
- Introduction to the TP concept dealing with objectives and benefits;
 - Educational literature on the health benefits of walking and cycling and the environmental benefits of sustainable modes of transport;
 - Maps highlighting local walking and cycling routes and catchment plans indicating typical walking and cycling times to key destinations;
 - Public transport route maps and timetables; and
 - Details of the appropriate TP Co-ordinator.

6.3 Other Methods of Awareness Raising and Marketing

- 6.3.1 Aside from Welcome Packs, there are other effective ways to raise the awareness of and market the benefits of sustainable travel including:
- Personalised travel planning for individuals/staff, often arranged by a TP Co-ordinator;

- Establishment of local sustainable transport forums or groups where issues can be shared and solutions discussed. This could be at physical meeting or by using social media with website such as Twitter, Facebook and Streetlife having mass appeal and membership, yet having localised content and discussion groups;
- Set-up of travel notice boards in communal areas displaying information such as lists of sustainable travel websites, local taxi services and car clubs; and
- Promotion of events such as National Bike Week and Living Street's series of walking events including Walk to Work Week and Walk to School Week.

6.4 Measures to Encourage Walking

6.4.1 Walking is considered to be the most sustainable and accessible mode of travel. It also has the benefit of zero carbon emissions and significant health benefits, with doctors recommending 150 minutes of activity per week to keep your body healthy and prevent illness including heart disease, cancer and diabetes (<https://www.nhs.uk/live-well/exercise/>). The 150 minutes could be achieved by walking leisurely for 30 minutes per day, five days a week, or briskly for 10 minutes per day (<https://www.nhs.uk/live-well/exercise/walking-for-health/>). Furthermore, recent research from the University of Cambridge has discovered that just a brisk 20-minute walk each day, burning between 90 and 110 calories, could reduce the risk of premature death by between 16-30% for inactive individuals (<http://www.cam.ac.uk/research/news/lack-of-exercise-responsible-for-twice-as-many-deaths-as-obesity>).

6.4.2 Potential measures to encourage walking include the following:

- Raise awareness of the health benefits of walking for all ages of people of fair health, emphasising how it is a cost-effective alternative to other exercise methods such as gym membership and does not involve a considerable change to people's day-to-day lifestyles;
- Promote the local walking routes available (through Welcome Packs and notice boards) including off-road public rights of way;
- Ensure the clear signage of pedestrian routes within and adjacent to the site;
- Provision of discount vouchers for redemption at local outdoor wear retailers; and
- Promotion of a 'walking buddy' scheme (through Welcome Packs, notice boards and social media).

6.5 Measures to Promote Cycling

6.5.1 Like walking, cycling is sustainable and accessible. It has the benefits of zero carbon emissions and has significant health benefits.

6.5.2 The NHS website (<https://www.nhs.uk/live-well/exercise/cycling-for-beginners/>) outlines the health benefits of cycling stating that, 'For health benefits, adults and older adults should do at least 2 hours

and 30 minutes (150 minutes) of moderate-intensity activity each week...A 30-minute ride will count towards your recommended weekly activity target’.

6.5.3 The website also makes the pertinent point that cycling has broad appeal with young and old, the able-bodied and people with disabilities who can all enjoy cycling with the right equipment.

6.5.4 Potential measures to encourage cycling include the following:

- Raise awareness of the health benefits of cycling for all ages of people with fair health, again emphasising how it is a cost-effective alternative to other exercise methods and promoting the ‘fun’ element of cycling;
- Promote the local cycling routes available and cycle storage facilities at key destinations such as in district centres (through Welcome Packs and notice boards);
- Promotion of events such as National Bike Week (www.bikeweek.org.uk);
- Promotion of a Bicycle User Group (BUG) (through Welcome Packs, notice boards and social media) which could include cycle proficiency courses; and
- Discounts on cycles and cycle accessories.

6.6 Measures to Encourage Public Transport

6.6.1 Public transport use and accessibility is an important element of TPs. Public transport can often be effective options for many trip types, particularly mid to long distance journeys. Section 5 of this report has demonstrated that bus travel should be a suitable and convenient mode of transport for visitors/staff travelling to/from the site. Rail, in conjunction with another mode may also be convenient for some longer distance staff and visitor trips particularly following the completion of the North Wales Metro project.

6.6.2 The key measure to promote bus and rail use will be through the provision of route and timetable information in Welcome Packs, on notice boards and at the stops themselves. Discount tickets or other fare incentives, as mentioned above, could be provided in Welcome Packs for a period of time.

6.7 Measures to Reduce Single Occupancy Car Trips

6.7.1 Car/lift sharing can be an effective way to reduce single occupancy car trips. These trips can often be arranged between friends and neighbours or by using lift sharing websites including the following:

- Liftshare (<https://liftshare.com/uk>); and
- GoCarShare (<http://gocarshare.com>).

6.7.2 The Liftshare websites enable users to register and search for lifts in their area. Users typically have to be over 18 years of age but do not always have to have driving licences (as passengers). Websites such as these can be promoted through Welcome Packs, notice boards and social media.

- 6.7.3 Staff could also manage their own lift sharing as many staff are likely to travel to and from destinations within close proximity of each other. There is potential for the TP Co-ordinator to co-ordinate this through the provision of a database containing staff address details, mode of travel to work, and their willingness to car share, collected for all existing staff and new joiners.

6.8 Reducing the Need and Distance to Travel

- 6.8.1 Section 5 of this TP has described how the site is well-located in terms of being within walking and cycling distance to existing residential areas. It also demonstrated how public transport services may provide a viable and convenient mode of travel.

- 6.8.2 The mix of uses on the site, particularly the presence of the retail units, will provide staff from the employment uses with convenience food and goods shopping, helping to contain trips for such purposes within the site.

6.9 Management

- 6.9.1 The overall responsibility for TP implementation will lie with future occupant of the various units, who would appoint a member of staff to take on the role of TP Co-ordinator. The appointment and role of a TP Co-ordinator is covered more in Section 6.10. The TP Co-ordinator will take ownership of the Travel Plan, ensuring the measures and initiative outlined herein are implemented and staff encouraged/ incentivised to travel by alternative modes of transport to the private car.

- 6.9.2 The TP co-ordinator of the site will be expected to be the point of contact with the local planning/ highway authority who together will ensure the continual progression of the TP.

6.10 Appointment of a Travel Plan Co-ordinator

- 6.10.1 It is envisaged that FIREM will appoint a Travel Plan Co-ordinator (TPC) prior to opening of the initial phase of the development. It is likely that the individual appointed to undertake the role would be a member of the company's management team as they will be a key decision maker on day-to-day matters of the TP implementation. The management level status of the TPC will also ensure that credibility is given to the adoption of measures that are implemented to encourage use of non-car modes. Each of the occupiers of the individual units may appoint their own liaison who will work with the TPC at a company level.

- 6.10.2 The role of the TPC is likely to include but not be exclusive to the following:

- To promote and encourage the use of travel modes other than the car, including the distribution of publicity material;
- To provide a point of contact and travel information for staff;
- To ensure that all relevant information is provided to all new members of staff and that up to date information is clearly displayed on the Travel Plan boards;

- To ensure that relevant information is made available to customers via the customer travel notice board (if applicable) and updated as necessary;
- To co-ordinate any lift-sharing scheme, bicycle user group and walking buddy scheme;
- To arrange for travel surveys to be undertaken where necessary; and
- To provide a point of contact with transport operators and officers of the council.

6.10.3 It is difficult to estimate the resource requirement for the TPC and what proportion of their working time will be required for the management of the TP, as much of the input will be required on an intermittent basis. Therefore, for the first year of the plan's operation it is proposed that the TPC will review and programme necessary TP work in conjunction with their other responsibilities on a monthly basis. The success of this approach will be evaluated as part of the first annual review of the plan.

6.11 Monitoring and Review

6.11.1 It is important that TP implementation is monitored at regular intervals to assess success and help to evolve TP measures. It is envisaged that the TPC of the site will monitor the TP at regular intervals over a period of time and will most likely be post 100% occupation. Following the agreed 'trigger point' described above, this should be undertaken on an ongoing basis by the TPC for each individual element of the site.

6.11.2 The most effective form of review will be the undertaking of staff travel surveys which would not only ask how individuals travel to work at that time but also if they have considered the use of other modes previously or would consider them in the future. The main purpose of the surveys is to gain an understanding of the numbers travelling by the various modes of transport but also to ascertain what barriers exist to using more sustainable modes of travel. Understanding the barriers is helpful in determining if there are solutions to those barriers being removed.

6.11.3 The TP will need to be reviewed at regular intervals after monitoring is complete, looking at the take-up of each measure and progress against modal share targets. The review should entail the removal any unsuccessful incentives and replace them with measures that will help to achieve the TP targets. If a TP is shown to be underachieving, a remedial strategy will need to be outlined which should consider measures to address any failing aspects of the TP. Any changes to a TP will need to be made in agreement with WCBC.

6.12 Interim Action Plan

6.12.1 We have produced an interim action plan of actions likely to be undertaken prior to and following the occupation of the site. It should however be noted that this is only indicative at this stage as FIREM should produce a Full Travel Plan following occupation, which should provide more detailed information on the TP actions and measures.

Table 6.1: Interim Action Plan

Stage	Action
3 months prior to occupation	Appoint Travel Plan Coordinator (TPC) and inform WCBC of contact details
	Prepare Welcome Packs and arrange printing
Occupation of unit	Arrange for Welcome Packs to be presented to new owners with keys to units
	Provide sustainable travel vouchers on request and collate information on feedback forms
3 months after occupation	Undertake travel surveys and collate and report results to WCBC
Annually for five years	Repeat travel surveys and if targets not met provide further sustainable travel vouchers and personal travel planning advice

