

COLEG GWENT, CROSSKEYS CAMPUS PHASE 1 TRANSPORT STATEMENT

Curtins Ref: 86776-CUR-00-XX-T-TP-00001-P01 Revision: 02

Client Name: Coleg Gwent

Issue Date: 16 December 2024

Rev	Description	Issued by	Checked	Date
01	Initial draft for review.	IOR	IOR	11/12/24
02	Updated in line with comments.	IOR	IOR	16/12/24

This report has been prepared for the sole benefit, use, and information for the client. The liability of Curtins Consulting Limited with respect to the information contained in the report will not extend to any third party.

Author	Signature	Date
Georgia Addy MSc BA (Hons) Graduate Transport Planner	G.Adorg	16 December 2024

Reviewed	Signature	Date
Irene O'Riordan MSc BSc (Hons) CMILT Associate	I. levent	16 December 2024

Authorised	Signature	Date
Irene O'Riordan MSc BSc (Hons) CMILT Associate	I. levent	16 December 2024

Transport Statement



Table of contents

1.0	Intro	duction	1
1.1	1	Introduction	1
1.2	2	Site Context	1
1.3	3	Report Structure	5
2.0	Exist	ting Conditions	3
2.7	1	Introduction	5
2.2	2	Existing Site	5
2.3	3	Local Highway Network	3
3.0	Acce	essibility Overview	3
3.⁄	1	Introduction	3
3.2	2	Public Transport Accessibility Index	3
3.3	3	Accessibility to Local Services	3
3.4	4	Cycle Infrastructure)
3.8	5	Bus Services)
3.6	6	National Rail Accessibility)
4.0	Deve	elopment Proposals	I
4.1	1	Introduction11	I
4.2	2	Site Masterplan11	I
4.3	3	Proposed Development	2
4.4	4	Parking	3
4.8	5	Pedestrian Access14	1
4.6	6	Vehicular Access	5
4.7	7	Delivery & Servicing	3
5.0	Trip	Generation17	7
5.2	1	Introduction17	7
5.2	2	Trip Generation	7
6.0	Sum	mary and Conclusion	3

Curtins

Transport Statement

6.1	Summary	. 18
6.2	Conclusion	. 18
Apper	ndix A – BREEAM Calculator	. 19
Apper	ndix B – Swept Path Analysis	1

Figures

Figure 1.1 Campus Boundary Location Plan	5
Figure 2.1 Site Context - OpenStreetMap	6
Figure 3.1- Local Cycle Routes	9
Figure 4.1 – Proposed Site Masterplan	11
Figure 4.2 - Phase 1 RIBA Stage 2 Development Proposals	13
Figure 4.3 - Pedestrian Access	14
Figure 4.4 - Vehicular Access	15
Figure 4.5 – Refuse Vehicular Access	16

Tables

Table 2.1 – Local Highway Network Features	7
Table 3.1 – Local Amenities	8
Table 3.2 – Local Bus Services	10
Table 3.3 – National Rail Services	10

Appendix

Appendix A – BREEAM Calculator

Appendix B – Swept Path Analysis

Curtins

Transport Statement

1.0 Introduction

1.1 Introduction

- 1.1.1 Curtins has been appointed on behalf of Coleg Gwent to produce a Transport Statement (TS) in relation to the proposed development of the Phase 1 building to be known as Block Y which has been developed as part of a new masterplan for the Crosskeys Campus. The Phase 1 development will re-provide academic space consisting of engineering labs, IT classrooms and offices. As part of Phase 1 a new energy centre for the campus is also to be included.
- 1.1.1 The site is located within the jurisdiction of Caerphilly County Borough Council (CBCC) who are the local planning authority and the local highway authority.
- 1.1.2 The development description for the proposed development is set out below:

"Full planning application for Phase 1 of the redevelopment of Coleg Gwent Crosskeys Campus, Risca Road, Crosskeys, NP11 7ZA. This phase includes the construction of a three-storey teaching building and a single-storey energy centre, together with associated access, parking, landscaping works.

Outline planning application for Phases 2-4, comprising the phased demolition of existing buildings and their replacement with new buildings, along with associated access parking and landscaping across the campus site."

1.2 Site Context

1.2.1 The Coleg Gwent Crosskeys Campus is situated in the village of Crosskeys, in the county borough of Caerphilly, South Wales. Crosskeys Campus is situated circa 480m to the east of Crosskeys Railway Station.

Curtins

Figure 1.1 Campus Boundary Location Plan



1.3 Report Structure

- Section 2: Existing Conditions This section establishes the baseline transport conditions currently prevailing at the site and the surrounding area. The baseline conditions are identified to understand the existing site context and to define a baseline position against which the proposed development impacts can be evaluated.
- Section 3: Site Accessibility Review This section reviews the site's accessibility credentials with regards to active travel and public transport
- Section 4: Development Proposals This section describes the development proposals with a focus on the transport and highways infrastructure.
- Section 5: Trip Generation This section of the report discusses the vehicular trips to the development via the local transport network, with an emphasis on the network peak hours.
- Section 6: Summary & Conclusions A summary of the salient findings of the report are provided within this section and these are used as an evidence base of an overarching conclusion regarding the suitability of the proposed development.

Transport Statement

Curtins

2.0 Existing Conditions

2.1 Introduction

2.1.1 This section establishes the baseline transport conditions at the site and the surrounding area. The baseline conditions are identified to understand the existing site context and to define a baseline position against which the proposed development's impacts can be evaluated.

2.2 Existing Site

- 2.2.1 The existing site hosts the current Crosskeys Campus. The site is accessible via the B4591 to the north and Waunfawr Park Road to the south.
- 2.2.2 The B4591 connects the A467 to the west with the town of Risca to the east. Waunfawr Park Road leads west to a residential area and east towards Blackvein Road where it connects with the B4591.

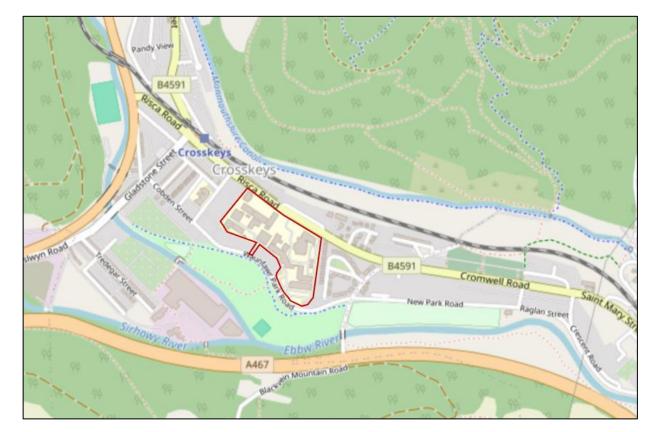


Figure 2.1 Site Context - OpenStreetMap

2.3 Local Highway Network

2.3.1 **Table 2.1** provides a description of the local highway network and its key features.

Name	Classification	Key Features	Speed Limit	Street Lighting
		Pedestrian footway circa 3m wide		
		Traffic light controlled pedestrian		Yes
B4591/Risca Road	B Road	crossing with tactile paving and dropped kerbs	20mph	
		Bus stops on both side of carriageway		
		Intermittent double yellow lines		
		Pedestrian footways circa 1.5m wide		
Waunfawr Park	Unclassified	Pedestrian priority crossing with	30mph Yes	Voc
Road	Unclassified	dropped kerbs and tactile paving		165
		Speed bumps		

3.0 Accessibility Overview

3.1 Introduction

3.1.1 This section of the report will assess the sites accessibility via sustainable modes of travel. Active Trave Wales (2013) seeks to improve access to walking and cycling as a mode of transport across Wales, with the aim to make active travel modes equate for 35% of journeys in Wales by 2040.

3.2 Public Transport Accessibility Index

- 3.2.1 The BREEAM public transport accessibility index (AI) score has been calculated using the BREEAM calculator tool. The site has an AI score of 13.38.
- 3.2.2 All bus stops located within 650m of the site access were used to inform this calculation. This includes the Crosskeys Station and Coleg Gwent bus stops. Crosskeys Railway Station was also included in the accessibility assessment index.
- 3.2.3 The calculator tool output is provided in **Appendix A**.

3.3 Accessibility to Local Services

3.3.1 To assist in summarising the accessibility of the building, **Table 3.1** presents a selection of key amenities located within 500m walking distance of the site in line with the BREEAM criteria.

Service / Facility	Distance from Site (Approx)	Walking Time (Approx)	Cycling Time (Approx)	
Campus News & Food	40m	2 minutes	>1 minute	
Crosskeys General Store	270m	4 minutes	1 minute	
Crosskeys Fish Bar	400m	4 minutes	1 minute	
Waunfawr Park Children's Playground	500m	7 minutes	3 minutes	

Table 3.1 – Local Amenities

- 3.3.2 Beyond 500m a range of local amenities can be reached in nearby Risca where additional amenities are located including a doctor's surgery, library, supermarket and pharmacy.
- 3.3.3 Local pedestrian infrastructure enables connectivity to local amenities within proximity to the site. There are wide pedestrian footways measuring circa 4m wide along Risca Road adjacent to the Crosskeys

Curtins

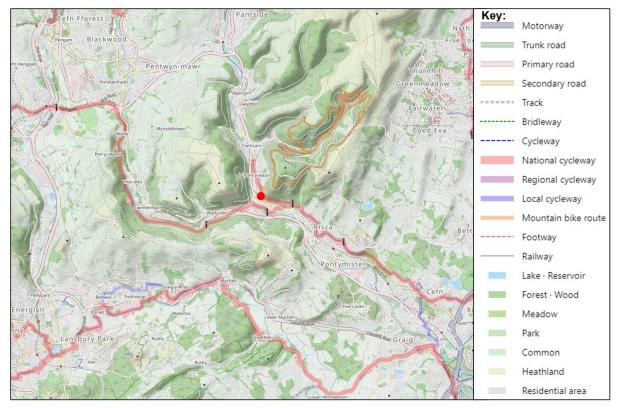
Campus. The connections help to facilitate pedestrian movement between the campus, local amenities, railway station and local bus stops.

- 3.3.4 There is a formal signalised controlled crossing with tactile paving and dropped kerbs situated adjacent to the main entrance to Gwent Coleg on Risca Road. This crossing facilitates safe crossing for pedestrians who are accessing the college.
- 3.3.5 Footpaths within the Crossway Campus are wide, even and well- lit throughout the campus.

3.4 Cycle Infrastructure

- 3.4.1 National Cycleway 465 is located 260m to the north of the site providing connections between Cwmcarn and Newport. National cycleway 47 is located to the south of the site and provides a connection between Port Talbot and Newport.
- 3.4.2 Cycle route 465 is off-road and segregated cycleway which runs parallel to Risca Road. The route provides a connection to local amenities such as Risca and Crosskeys Railway Station.
- 3.4.3 A map showing local cycle infrastructure is provided in **Figure 3.1**.





Transport Statement

3.5 Bus Services

- 3.5.1 There are a number of opportunities to travel via bus to the site. These include services 56, 82, 95C, 151, X15 which provides access to Blackwood, Brynmawr, Pontypool, Newport and Tredegar.
- 3.5.2 Coleg Gwent bus stops benefit from seating, bus shelter and a timetable. There are two bus stops located adjacent to the Coleg Gwent campus, one on either side of Risca Road.
- 3.5.3 **Table 3.2** summarises the local bus services and their peak frequencies.

Bus Service	Route	Weekday Peak	Saturday	Sunday
56	Tredegar - Blackwood - Newport	Hourly	Hourly	Every 2 hours
82	Pontypool - Hafodyrynys - Crosskeys College	Twice at 08:54am and 16:35pm	N/A	N/A
95C	Newbridge Newbridge School - Crosskeys Coleg Gwent	Twice at 08:00am and 15:07pm	N/A	N/A
151	Blackwood - Newport via Newbridge and Risca	Every 15 minutes	Every 15 minutes	Hourly
X15	Brynmawr - Newport via Newbridge and Abertillery	Hourly	Hourly	Hourly

Table 3.2 – Local Bus Services

3.6 National Rail Accessibility

3.6.1 The closest National Rail station is Crosskeys Railway Station situated approximately a 12-minute walk / 3-minute cycle of the proposed development. The railway station provides direct services to Cardiff Central in less than 45 minutes as well as services to Newport and Ebbw Vale Town.

Table 3.3 – National Rail Services

Destination	Weekday Peak		Saturday	Sunday Peak		
	AM	PM	Peak			
Newport	Hourly	Hourly	Hourly	Every 2 hours		
Ebbw Vale Town	Half hourly	Half hourly	Half hourly	Hourly		
Cardiff Central	Hourly	Hourly	Hourly	Hourly		

Curtins

Transport Statement

4.0 Development Proposals

4.1 Introduction

4.1.1 This section of the TS provides an overview of the development proposals at the site

4.2 Site Masterplan

4.2.1 The proposals are part of a wider site masterplan which has set out a strategy for the campus to achieve net-zero as well as replacing buildings which have reached end of life. The masterplan has been split into phases and further details will be provided on a phase-by-phase basis for each future reserved matters application. The proposed masterplan is set out in Figure 4.1.

Figure 4.1 – Proposed Site Masterplan

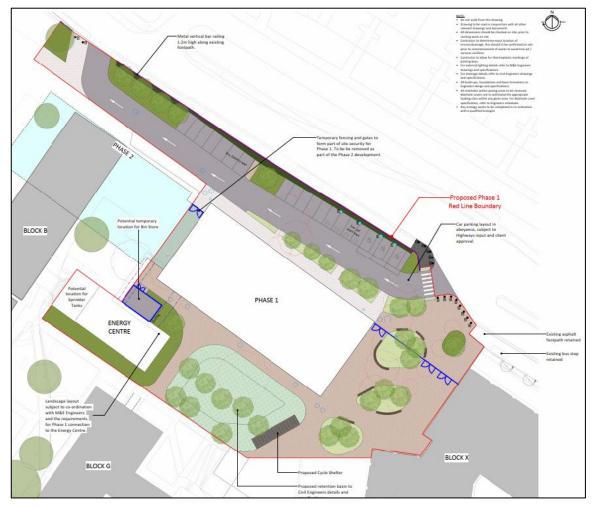


4.3 Proposed Development

- 4.3.1 The proposed development (Phase 1) consists of providing a new academic building known as Block Y and a new energy centre. The Phase 1 building provides replacement academic space on the site of the semi-detached houses. This will enable the decant and demolition of Blocks B and F. A temporary car park will be provided due to spaces lost during the construction of Phase 1.
- 4.3.2 Block Y will consist of engineering labs and exam rooms on the ground floor, IT classrooms on the first floor and staff related rooms and offices on the second floor.
- 4.3.3 A new energy centre will also be provided in Phase 1 which will be located in landscaping to allow for ease of access and maintenance.
- 4.3.4 Improved landscaping along Risca Road is also proposed, with improved wayfinding and a welcome entrance gateway. The bus stop on Risca Road will remain with a new zebra crossing connecting the bus stop to the new entrance.
- 4.3.5 The proposed development will create no increase in student or staff at the site.
- 4.3.6 The proposed development is shown in **Figure 4.2.**

Curtins

Transport Statement





4.4 Parking

Car Parking

- 4.4.1 The masterplan development will provide 527 car parking spaces, 18 pf which are accessible bays.During Phase 1 of the development, a small car park providing 13 spaces will be provided north of Block Y, three of which will be accessible bays.
- 4.4.2 Caerphilly Supplementary Planning Guidance LDP5 Car Parking Standards sets out how many parking spaces should be provided for colleges and higher/further education institutes.
- 4.4.3 The guidance sets out zones to specify parking standards. It is understood that Crosskeys campus would count as Zone 4 Suburban or near urban under the following description:

The outer edges of the largest towns; suburban locations in towns; the whole of smaller settlements offering a range of local facilities. There is an at least hourly bus service to the town centre and there may also be a railway station in the town. Local facilities include a local centre within 400m walking distance. Some other basic amenities such as a doctor's surgery are also available within the same walking distance.

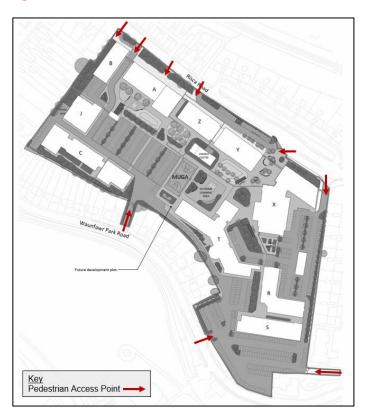
4.4.4 The guidance states that higher educational land uses zones 2-4 should provide 1 commercial vehicle space, 1 space per each member of teaching staff, 1 space per 2 ancillary staff, 1 space per 3 students and 5 visitor specific spaces.

Cycle Parking

- 4.4.5 A cycle shelter will be installed south of the Y-Block in line with guidance. The parking is sheltered and benefits from passive surveillance.
- 4.4.6 Caerphilly Supplementary Planning Guidance details cycle parking requirements for places of education. For long stay parking, there should be provision of 1 stand per 5 staff and 1 stand per 6 students 17+. For short stay parking, there should be 1 stand per 100 students.

4.5 Pedestrian Access

Figure 4.3 - Pedestrian Access



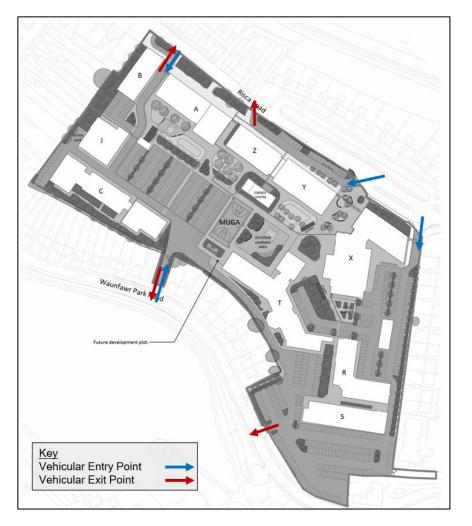
Curtins

Transport Statement

4.5.1 Pedestrian access to the site can be achieved via Waunfawr Park Road to the south, Waunfawr Gardens to the east and Risca Road/B4591 to the north. Staff and students arriving by bus will access the site via Risca Road where northbound and southbound bus stops are located, as well as those arriving by train.

4.6 Vehicular Access

Figure 4.4 - Vehicular Access



- 4.6.1 Vehicles can enter and exit the site on Waunfawr Road and Risca Road. Two of the entry points on Risca Road are entry only, with vehicles able to exit at alternative points.
- 4.6.2 There are four car parking areas totalling 527 car parking spaces.
- 4.6.3 Previous tracking has been carried out to ensure minibuses can enter and egress the site. This was undertaken by Atkins and is provided in **Appendix B**.

Transport Statement

Curtins

4.7 Delivery & Servicing

- 4.7.1 A turning circle for deliveries will be provided to the western permitter of the Phase 1 boundary. Delivery vehicles can enter and exit the site via Risca Road.
- 4.7.2 Tracking for a large refuse vehicle entering and egressing the site from Risca road has been undertaken and displayed in Figure 4.5 and Appendix B.



Figure 4.5 – Refuse Vehicular Access

Transport Statement

Curtins

5.0 Trip Generation

5.1 Introduction

5.1.1 This section of the report presents the anticipated trip generation associated with the future development.

5.2 Trip Generation

- 5.2.1 The proposals to Crosskey Campus do not entail an increase in capacity of staff or students at the site. Most recent student figures available show there are currently 2,125 students enrolled at the college, composing of 715 part-time students and 1,410 full-time students.
- 5.2.2 Staff at the college are separated into full-time, part-time and cover staff. The total number of full-time and part-time staff employed on campus is 285, separated into 188 full-time staff and 97 part-time staff.
- 5.2.3 As a result in no uplift in staff and student numbers, no additional car parking is proposed on site. This means no additional vehicular trips, negating the need to assess the impact on the local highway network.
- 5.2.4 Arrivals and departures to the college are spread across the day due to the nature of the site and the courses it teaches, ranging from higher education, full-time courses and part-time courses. The college also operates in the evenings and on weekends, meaning numerous arrivals and departures from the site will occur outside of the standard network morning and evening peaks.

6.0 Summary and Conclusion

6.1 Summary

- 6.1.1 To conclude, Curtins have been appointed by Coleg Gwent to produce a Transport Statement (TS) relating to the proposed development of the Phase 1 building to be known as Block Y which has been developed as part of a new masterplan for the Crosskeys Campus.
- 6.1.2 This TS has established the baseline conditions prevailing at the site and demonstrated the site's accessibility by sustainable modes of transport.
- 6.1.3 The development proposals have been outlined in line with regional policy to ensure compliance to local standards.
- 6.1.4 The proposed development does not provide an increase in car parking and staff and student numbers at the college will remain unchanged, negating the need to analyse the effect on the local highway network as vehicle trips to the site will be in line with current movements.

6.2 Conclusion

- 6.2.1 This TS has demonstrated that the site is easily accessible by public transport and active travel modes. It has also demonstrated that the proposed development will not have a significant adverse effect on the operation of the highway, public transport or pedestrian and cycle network in the vicinity of the iste.
- 6.2.2 In conclusion, it is considered that the development proposals are reasonable and appropriate for the location and that there are not reasons why the development proposal should not be granted planning permission on traffic and transport grounds.



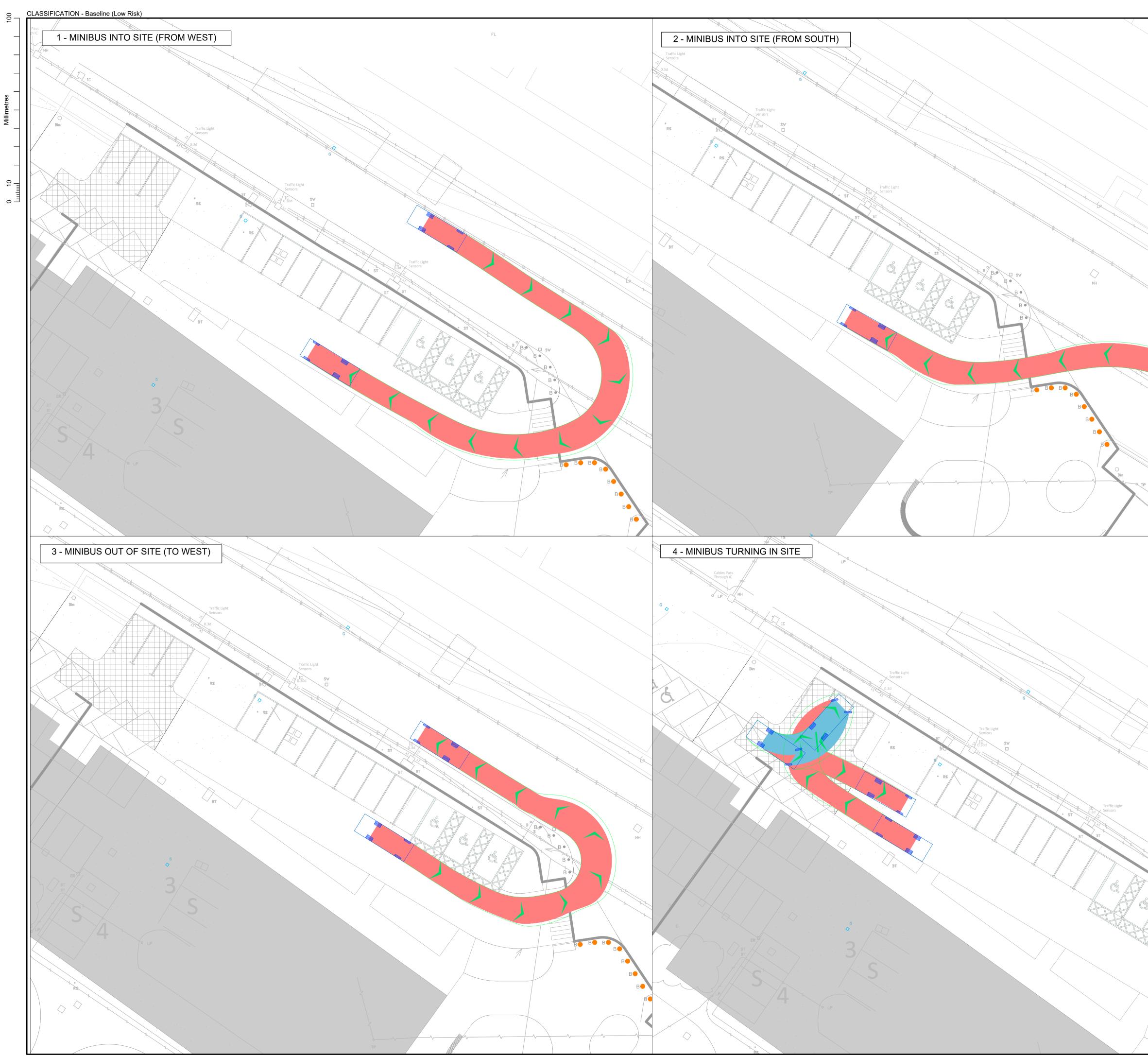
Appendix A – BREEAM Calculator

BREEAM 2018 Tra01/02 Accessibility Index calculator								BREEAM [®] UK delivered by bre		
Using the drop down boxes make t	he relevant s	elections and pr	ress the 'Selec	t' button						
Building type	Further Education	n College		•	•					
No. nodes required	4				Selec	Select				
Coleg Gwert										
Public transport type	Bus									
Distance to node (m)	70									
Average frequency per hour	Service 1 5	Service 2 2	Service 3	Service 4	Service 5	Service 6	Service 7	Service 8	Service 9	Service 10
Average frequency per nour	5	2	1							
Coleg Gwert										
Public transport type	Bus									
Distance to node (m)	70									
Average frequency per hour	Service 1 5	Service 2 2	Service 3	Service 4	Service 5	Service 6	Service 7	Service 8	Service 9	Service 10
Average frequency per nour	5	2	1							
Railway										
Public transport type	Rail									
Distance to node (m)	270									
	Service 1	Service 2	Service 3	Service 4	Service 5	Service 6	Service 7	Service 8	Service 9	Service 10
Average frequency per hour	1	2	1	1						
NODE 4										
Public transport type	Bus									
Distance to node (m)	270									
	Service 1	Service 2	Service 3	Service 4	Service 5	Service 6	Service 7	Service 8	Service 9	Service 10
Average frequency per hour	6	4	1							

Accessibility Index 13.58



Appendix B – Swept Path Analysis



DO NOT SCALE	<u> </u>							USE
	Mini Bus Overall Length Overall Width							
• RS • FS • FH								Filename: \\wsatkins.com\project\GBBSB\PDG\NOVA PROJECTS\BRISTOL PROJECTS\5228425 -
BT CC CO	RELEVAI SAFETY PRE-CON 2. THE DRA ONLY AN INFORMA ATKINSF	FORWARD M REVERSE MA ES: G TO BE READ NT PROJECT D INFORMATION II NSTRUCTION II WING SHALL E ID THIS DRAWI ATION PROVIDI REALIS DO NOT ATION. DIMENS	ANOEUVRE IN CONJUNC RAWINGS AN PROVIDED A NFORMATION BE USED FOR ING HAS BEE ED BY OTHER WARRANT T SIONS SHALL	ID WITH TI ND/OR WI THE INTE N BASED (R PARTIES THE ACCUI NOT BE S	HE HE ITHIN ENDED ON S AND RACY CALEI	ALTH THE PURI OF TH	AND POSE HIS	125 - Coleg Gwent - Phase 1 Crosskeys Campus\01 WIP\CE\DR\8425-ATK-XX-XX-DR-C-0100 Vehicle Tracking.dwg
FL	DIMENSI ARE SUE	FOR THE ACTU ONS MARKED BJECT TO CON THE WORKS C	DIMENSIONS	S TO BE SI	TE CH	IECKE	D'	R-C-U1UU Vehicle I racking.dwg
						1		
	P01 08/10/2024 Rev. Date		RK STAGE 1 ISSUE		МН Ву	SF Chk'd	CS App'd	
	Drawing Status SUITAB	LE FOR	INFORI	MATI	DN	Suitabi	ility	
	CAtkinsRéalis2nd Floor No 2 Capital Quarter Tyndall Street Cardiff CF10 4BZTel: +44 (0)2920 485159 Fax: +44 (0)2920 485138 www.atkinsrealis.comCC </th <th></th>							
. 51								
B° B° B° B° B° B° B° B°	Project Title PHA	ASE 1 CR	OSSKEY	S CAN	1PU	S		
	Drawing Title	VEHICI	LE TRAC	KING				
	Scale 1:200	Designed	Drawn MH	Checked SF	/	Authorise C		
	Original Size	Date 09/05/24	Date 13/05/24	Date 16/05/2		Date 16/05	5/24	
	Drawing Number 5228425	- 5-ATK-XX-	XX-DR-(C-9001	00	Revisio	^{on} 201	
1								۲

CLASSIFICATION - Baseline (Low Risk)



Q4

Our Locations

Birmingham

2 The Wharf Bridge Street Birmingham B1 2JS T. 0121 643 4694 birmingham@curtins.com

Bristol

Quayside 40-58 Hotwell Road Bristol BS8 4UQ T. 0117 302 7560 bristol@curtins.com

Cambridge 50 Cambridge Place Cambridge

CB2 1NS T. 01223 631 799 cambridge@curtins.com

Cardiff

3 Cwrt-y-Parc Earlswood Road Cardiff CF14 5GH T. 029 2068 0900 cardiff@curtins.com

Douglas

Varley House 29-31 Duke Street Douglas Isle of Man IM1 2AZ T. 01624 624 585 douglas@curtins.com

Dublin

11 Pembroke Lane Dublin 2 Ireland T. 00353 1 507 9447 dublin@curtins.com

Edinburgh

1a Belford Road Edinburgh EH4 3BL T. 0131 225 2175 edinburgh@curtins.com

Glasgow

Queens House 29 St Vincent Place Glasgow G1 2DT T. 0141 319 8777 glasgow@curtins.com

Kendal

28 Lowther Street Kendal Cumbria LA9 4DH T. 01539 724 823 kendal@curtins.com

Leeds

Rose Wharf Ground Floor Leeds L29 8EE T. 0113 274 8509 leeds@curtins.com

Liverpool

51-55 Tithebarn Street Liverpool L2 2SB T. 0151 726 2000 liverpool@curtins.com

London

40 Compton Street London EC1V 0BD T. 020 7324 2240 Iondon@curtins.com

Manchester

Merchant Exchange 17-19 Whitworth Street West Manchester M1 5WG T. 0161 236 2394 manchester@curtins.com

Nottingham

56 The Ropewalk Nottingham NG1 5DW T. 0115 941 5551 nottingham@curtins.com

Curtins

Curtins Consulting Ltd registered in England and Wales No: 2054159 Registered office: 51-55 Tithebarn Street, Liverpool, L2 2SB