



West Ashton: Roundabout R5 & Spine Road Road Safety Audit Brief

Persimmon Homes & Barratt Homes

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Date:	22 July 2025

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1. INTRODUCTION

- 1.1. This Road Safety Audit Brief has been produced by PFA Consulting, in its role as the Design Organisation, and concerns the proposed construction of a new fourth arm on the existing Leap Gate/West Ashton Road roundabout, and first 270m of spine road, to serve a new mixed-use development on land south of Trowbridge, Wiltshire.
- 1.2. This Road Safety Audit Brief has been prepared in accordance with DMRB document GG 119 Road safety audit.
- 1.3. Outline planning permission for mixed use development, including associated infrastructure, was submitted in 2015 under Planning Application Reference: 15/04736/OUT, and will soon be granted.
- 1.4. A full scheme detail design package of drawings have been prepared by PFA Consulting, on behalf of Persimmon Homes Wessex and Barratt Homes, Bristol Division ('the developer'), which have been submitted to Wiltshire Council for Technical Approval in its role as local highway authority.
- 1.5. Whilst technical approval was previously issued in 2023, during the planning process the desire was identified to include segregated cycleways and footways around the roundabout and along the spine road in accordance with the guidance set out in LTN 01/20. During the approval of this with Wiltshire Council, further changes to the approved drawings have been forthcoming, comprising the inclusion of bus stops, removal of refuge islands at the toucan crossing on the spine road, and changes to the minor road junction radii at the ghost island junction.
- 1.6. Due to the number of changes, an additional Stage 2 Road Safety Audit should be undertaken, with a Road Safety Audit Response Report to be produced if required..
- 1.7. This Road Safety Audit Brief includes copies of documents and the scheme design drawings as listed on the Contents page.

2. GENERAL DETAILS

General Details				
Highway Scheme Name and Road Number:			West Ashton Road/Leap Gate Roundabout	
Type of Scheme:	Construction of new ghost island right turn lane junction to serve residential development			
RSA stage tick as appropriate	1	2 ✓	3	4
	Interim			
Overseeing Organisation Details		Design Organisation Details		
Wiltshire Council		PFA Consulting Ltd Stratton Park House Wanborough Road Swindon Wiltshire SN3 4HG Contact: Richard Lucas Telephone: 01793 828000 E: rlucas@pfapl.com		
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RSA Team Membership				
TBC				
Terms of Reference				
The Road Safety Audit (RSA) is to be undertaken in accordance with DMRB document GG 119 Road safety audit, as well as the contents of this Road Safety Audit Brief.				

3. SCHEME DETAILS

Scheme Description/Objective
General The proposals include the construction of a new fourth arm on the existing roundabout to serve a large mixed-use development of up to 2,500 dwellings, employment, and schools, and approximately 270m of the spine road into the development, over a proposed bridge of the River Biss. The proposals include a new toucan crossing from the existing Leap Gate shared use path (to be upgraded to segregated as part of the wider works) across West Ashton Road, a ghost island right turn lane into the first parcel off the spine road, with a toucan crossing located on the spine road to serve a new secondary school to the south of the spine road.
Design Standards Applied to the Scheme Design The design standards are those set out in Wiltshire Council's design guidance document entitled: Specification and Notes for Guidance for Highway Works by Developers under Agreement 8th Edition, the Design Manual for Roads and Bridges (DMRB) together with any Interim Advice Notes issued. The standards and requirements include: CD 109 Highway Link Design CD 116 Geometric Design of Roundabout CD 123 Geometric design of at-grade priority and signal-controlled junctions
Speed Limits West Ashton Road, Leap Gate & Roundabout are 40mph limit. Spine Road is 30mph limit.
Traffic Flows Refer to P876-DOC11
Pedestrian, Cyclist and Equestrian Desire Lines Along Leap Gate/Spine Road, and through development parcel to north to proposed secondary school to the south.
Environmental Constraints There are no specific constraints.

4. LOCALITY

Description of Locality
The scheme is on a B-classified road (B3105), immediately to the south of the urban area of Trowbridge.
General Description
Currently rural, although will be urbanised following development.
Relevant factors which may affect road safety
Proposals include a new bridge over the River Biss.

5. ANALYSIS

Collision Data Analysis
Collision data available between 2009 and 2018. No incidents in immediate vicinity of works.
Departures from Standards
None.
Previous Road Safety Audit Stage Reports, Road Safety Audit Response Reports and Evidence of Agreed Actions
RSA-20-045-3, by Fenley, incorporating Designer's Response
Strategic Decisions
None

List of included documents and drawings		
Documents		
Reference	Revision and Date	Title
RSA-20-045-3	Aug 2020	Road Safety Audit
P881-FN01	Aug 2020	Road User Risk Assessment
P876-DOC05	Oct 2019	WCHAR
P876-DOC10	Sept 2023	Traffic Signal Technical Appendix
P876-DOC11	Jan 2024	Updated Traffic Modelling
Drawings		
Drawing No.	Revision	Title
P881/01	E	Site Location Plan
P881/02	P	Proposed Drainage, Levels and Contours Sheet 1 of 2
P881/03	N	Proposed Drainage, Levels and Contours Sheet 2 of 2
P881/04	R	Surface Treatment and External Works Plan Sheet 1 of 2
P881/05	O	Surface Treatment and External Works Plan Sheet 2 of 2
P881/06	G	Traffic Signals Plan Sheet 1 of 2
P881/07	E	Traffic Signals Plan Sheet 2 of 3
P881/08	H	Longitudinal Sections
P881/09	D	Cross Sections
P881/10	J	Construction Details
P881/11	R	Section 278 Agreement Plan
P881/12	E	Proposed Road Signs
P881/13	K	Visibility Analysis
P881/14	H	Swept Path Analysis
A.0223_77-01	AC	Indicative Masterplan
P19372-RB5-01	A	Street Lighting Design
45196-STN-SBR-1441-DR-CB-0101	C01	Crabbe Bridge General Arrangement
All documents listed above are available from the following link: P881 West Ashton R5		

6. CHECKLIST

Tick all that are included and provide reasons for those that are not included			
Site location plan	✓	Scale layout plans	✓
Departures and relaxations from standards	N/A	Construction/typical details	✓
Previous RSA reports	✓	Previous RSA response reports and evidence of agreed actions	✓
Collision data and collision data analysis		Road traffic collision plot	✓
Traffic signal staging	✓	Traffic counts	✓
Speed surveys	N/A	Pedestrian, cyclists and horse riding desire lines and volumes	N/A
Walking, cycling and horse riding assessment and reviews	✓	Items outside the scope of the RSA/strategic decisions	N/A
Other factors that may impact on road safety	✓	Design speeds/speed limits	✓
Design standards used	✓	Adjacent land uses	✓