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Unit 2
71A Hamilton Road
READING
RG1 3BA

Road Safety Audit Stage 1

14 Aintree Lane
Liverpool
L10 2JL

Location: Bairds Farm Shop / New Care
Home Access A259 Crookthorn Lane,
Littlehampton
Section 278 Highway works

Produced for Brackley Investments

Date 7th March 2018



Prepared by

Peter Ronald, I.Eng., A.M.I.C.E, M.C.I.H.T, M.So.R.S.A (HA RSA CofC)
Wing Lee B.Eng(hons), PG Cert, M.C.I.H.T, M.I.H.E

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DOCUMENT CONTROL SHEET

Project Name: Bairds Farm Shop / Care home access A259

Report Title: Stage 1 Road Safety Audit
Section 278 Highway Works

Date: 7th March 2018

Client: Brackley Investments

Audit Team			
	Name	Position	Date
Audit Team Leader:	Peter Ronald	Director	7/3/2018
Audit Team Member:	Wing Lee	Road Safety Auditor	7/3/2018
Approved By:	Peter Ronald	Director	7/3/2018

Revision History					
Revision	Date	Description	Audit Team Leader	Audit Team Member	Approved
A	7/3/2018	Final	PR	WL	PR

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1. Executive Summary

This scheme is promoted by Brackley Investments. This Stage 1 Road Safety Audit is provided under the provisions of the Safety Audit request dated 26th February 2018.

2. Introduction

This report results from a Stage 1 Road Safety Audit request for a proposal to construct a new residential care home on part of the site occupied by Bairds Farm Shop. Access will be via the existing access from A259 Crookthorn Lane

The Audit Team consisted of:

Peter Ronald, I.Eng., A.M.I.C.E., M.C.I.H.T., M.So.R.S.A. HA RSA Cert of Comp
Wing Lee B.Eng(hons), PGCert, M.C.I.H.T, M.I.H.E

A site visit was made to the site on Wednesday 28th February 2018 between 8.30 am and 9.00 am. Traffic flows were high and no pedestrian/cycle movements were observed. The weather was cloudy and dry. Traffic speeds were perceived to be within the posted 40mph speed limit

The Audit comprised an examination of the drawings provided by Infrastruct and any additional support documents completed by the Audit Team as listed in the Appendices.

The terms of reference of the audit are based on "Guidelines for the Safety Audit of Highway Schemes" published by the Institution of Highways and Transportation, other guidance references and the Traffic Signs Regulations and General Directions 2016, and HD 19/15 Design Manual for Roads & Bridges.

The Auditors have examined and reported only on the road safety implications of the detailed design, as presented in the supplied drawings.

All safety issues are with reference to the specific design details shown on the drawings.

Each of the auditors' responses is classified as either a 'Problem' or a 'Nil Response/Comment'. Items classified as a 'Problem' denote matters likely to result in significant road safety hazards. Items marked as 'Nil Response/Comment' are less serious, but worthy of consideration by the designer and/or by the overseeing organisation.

Although all of the problems identified are considered to be of sufficient importance to require action, the table below shows their relative urgency based on the risk perceived by the Safety Auditors. The level of risk assigned to each problem is largely subjective and is only intended as a guide, to assist the client in determining the priority of the issues raised.

Severity / Risk Level	Probability				
	Frequent	Probable	Occasional	Remote	Improbable
Catastrophic	*** Problem *** (Urgent)				
Critical		** Problem ** (High Risk)			
Major			* Problem * (Medium Risk)		
Minor				* Problem * (Low Risk)	
Negligible					Comment

3. Historical Summary

The site is currently a farm shop and vacant agricultural land

4. Existing Environment

A259 Crookthorn Lane is a single carriageway classified road that links Littlehampton with Bognor Regis. Bairds Farm Shop access is located off the southern side of the carriageway to the east of the junction with Clamping Street

No footway is present to the access along the southern side of the road

A ghost right turn facility is present at the existing access and a 40mph speed limit has been introduced by order along the A259

There is a bus stop layby located north west of the access for buses travelling east

5. Accident / Collision History

No information provided.

6. Survey Information

No information provided

7. Project

To construct a new residential care home accessed via the existing access for Bairds Farm Shop

8. Stage 1 - Audit Assessment

The table below summarises the findings from this audit, which are described in detail on following pages.

	Item	Comments	Notes
A1	General		
A1.1	Departures from Standards		None reported
A1.2	Cross-sections		
A1.3	Cross-sectional Variation		
A1.4	Drainage		
A1.5	Landscaping		
A1.6	Public Utilities/Services Apparatus		
A1.7	Lay-bys		
A1.8	Access		
A1.9	Emergency Vehicles		
A1.10	Future Widening		
A1.11	Adjacent Development		
A1.12	Basic Design Principles		
A2	Local Alignment		
A2.1	Visibility		
A2.2	New/Existing Road Interface		
A2.3	Vertical Alignment		
A3	Junctions		
A3.1	Layout	Problems	(8.1) Only edge line give way marking, no centre line marking present on side road access (8.2) Carriageway layout needs to be managed by marking at new junction to care home within site to ensure no vehicles tail back onto main carriageway. Care home traffic to give way to farm shop traffic
A3.2	Visibility	Problem	(8.3) Reduced visibility at new junction from care home onto access road to farm shop
A4	Non-Motorised User Provision		
A4.1	Adjacent land		
A4.2	Pedestrian/cycle routes provided	Problems	(8.4) No pedestrian path to access development or farm shop along A259 from bus stop crossing point or Climping Street

			(8.5) New length of footway from development out onto A259 leads to central island with no pedestrian crossing facility
A4.3	Facilities adequate		
A4.4	Separation from carriageway		
A4.5	Special requirements elderly/young infirm		
A4.6	Tactile paving/guardrails		
A4.7	Junctions		
A4.8	Routes clear of obstruction		
A4.9	Equestrians		
A5	Road Signs, Carriageway Markings And Lighting		
A5.1	Signs		
A5.2	Lighting		
A5.3	Poles and Columns		
A5.4	Road Markings		

8.1 *Problem* (item A3.1)

Location: A259/Farm Shop access



Summary: No centre line marking on approach to junction

Description: The existing access only has an edge of carriageway give way marking and no centre line on the side road approaches. The give way marking needs to be changed to the

standard marking and centre warning lines provided on the approach from the shop car park past the new access from the care home up to the A259 to ensure opposing vehicles keep to the left and not block the path of vehicles coming in the opposite direction

Type of conflict/collision: Head on collisions due to vehicles not keeping to the left

Recommendation: Provide appropriate give way markings and centre line on approach from farm shop

8.2 *Problem* (item A 3.1)

Location: Internal junction from care home with farm shop traffic

Summary: Junction give way marking with yellow box marking needs to be provided at the new internal junction to ensure vehicles exiting from A259 have priority

Description: A new internal junction is detailed into the care home immediately after you exit from the A259. Appropriate give way markings with box junction needs to be provided to ensure vehicles exiting from the A259 have priority and to avoid vehicles tailing back onto the A259.

Type of conflict/collision: Collisions due to vehicles tailing back onto A 259

Recommendation: Provide junction give way marking

8.3 *Problem* (item A3.2)

Location: Internal junction from care home



Summary: Fence, vegetation, and gate combine to obstruct visibility from care home

Description: A new side road junction is detailed within the site immediately after you exit from A259. There is a gate, fence, and vegetation that obstructs visibility of vehicles accessing the site from the A259 for vehicles exiting from the care home. These need to be removed and appropriate clear visibility splays provided

Type of conflict/collision: Collisions at internal junction due to reduced visibility

Recommendation: Ensure clear visibility at internal junction

8.4 *Problem* (item A4.2)

Location: A259 /Farm shop access



Summary: No pedestrian access into site from west

Description: A new care home is being provided. It is likely that pedestrians will want to access the new development. There is no footway link from the existing pedestrian crossing point that services the bus stop on the northern side of A259 to the development site. The new development will generate some pedestrian visitors/workers who will travel by bus. A footway link needs to be provided across the farm access and along the A259 to link up with the existing path.

Type of conflict/collision: Pedestrian visitors /workers having to walk along verge to access development

Recommendation: Provide new length of footway and crossing point across access along A 259

8.5 *Problem* (item A4.2)

Location: New development footway onto A259



Summary: No pedestrian crossing facility at end of new footway across A259

Description: A new footway is detailed from the development out onto the A259. There is no central pedestrian refuge island on the A259 to enable pedestrians to cross the road only a central island. This island needs to be changed to a pedestrian refuge and appropriate dropped kerb /tactile paving crossing point provided

Type of conflict/collision: Pedestrians having to cross full height kerbs and stand on central hatching to cross road

Recommendation: Provide appropriate refuge island and crossing point at end of new footway

9. Nil response/Comments

No comment

10. Non-Motorised User Report

The report indicates problems that the Audit Team believes need consideration.

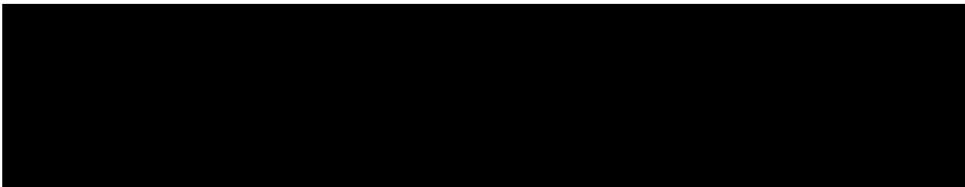
11. Auditors' Statement

Auditors Statement

We certify that we have examined the drawings listed in Appendix A and that the site has been inspected. The examination has been carried out with the sole purpose of identifying those features the design that can be modified in order to improve the safety of the scheme.

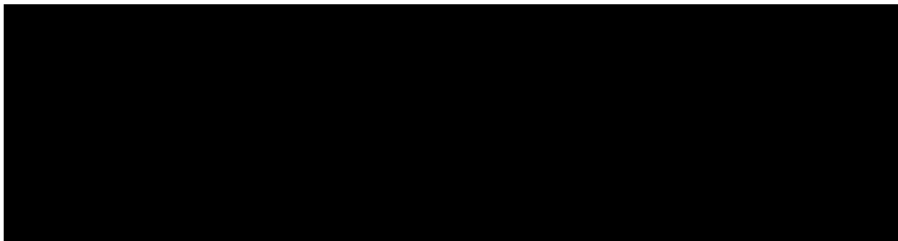
The problems identified have been noted in the report together with associated safety improvement suggestions that we recommend should be studied for implementation.

We can confirm that we have not been involved with the scheme design.



Peter Ronald
Senior Safety Auditor (Team Leader)

Date 7th March 2018



Wing Lee
Safety Auditor (Team Member)

Stage Road Safety Audit SAFETY AUDIT EXCEPTION RESPONSE		
Scheme Name: Bairds Farm Shop		
The issues categorised in the safety audit as 'Problem' matters are those causing serious concern and are summarised below. The purpose of this form is for the scheme designer or Overseeing Organisation to respond to the 'Problem' matters. Responses should be returned to Traffic Management Consultants. 'Comments' in the report are made for the benefit of the designer, and are not referred to below.		
Paragraph	Summary of Problem	Designer's response
8.1	No centre line marking on approach to junction	
8.2	Junction give way marking needs to be provided at the new internal junction to ensure vehicles exiting from A259 have priority	
8.3	Fence, vegetation, and gate combine to obstruct visibility from care home	
8.4	No pedestrian access into site from west	
8.5	No pedestrian crossing facility at end of new footway across A259	

Please complete Designer's response and return to Traffic Management Consultants Ltd.

Audit Team Comments

- 8.1
- 8.2
- 8.3
- 8.4
- 8.5

Appendix A

Drawing Numbers:

ICS 2868-BCH-ICS-PHI-XX-DR-V-005 -P3 Refuse vehicle tracking
M9316 ASK0006 D Site Plan

RSA 1 Plan

