

STAGE 2 – DETAILED DESIGN

A358 Donyatt (SIS scheme)

HSPR No. : T1004295



Technical & Road Safety Audit Report

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Economic and Community Infrastructure Operations

Infrastructure Programmes Group – PP B2W

Somerset County Council

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1 ROAD SAFETY AUDIT

1.1 INTRODUCTION

1.1.1 Scheme Description

The following report considers the proposed works along the A358 through Donyatt. The following works have been proposed:

- Enhance speed limit gateways including an 85m extension to the southern 30mph;
- Improve conspicuity of existing 40mph limit buffer;
- Central hatching extending from northern gateway through village;
- Replace double white lines through village;
- 2 x informal crossing points on A358 north of Donyatt Hill junction and north of Smithy Cottage; and
- Junction improvements at Church St.

1.1.2 Terms of Reference

The terms of reference for the Road Safety Audit are as described in the Design Manual for Roads and Bridges, Volume 5, section 2, HD 19/15. The road safety auditor has examined and reported only on the road safety implications of the scheme and has not verified the compliance of the designs to any other criteria. However, to clearly explain a safety problem or the recommendation to resolve a problem the auditor may, on occasion, have referred to a Design Standard or other guidance documents.

1.1.3 Recommendations

Any recommendations included within this report should not be regarded as being prescriptive design solutions to the problems identified. They are only to indicate a proportionate and viable means of eliminating or mitigating the identified problem, in accordance with HD19/15, and in no way imply that a formal design process has been undertaken.

There may be alternative measures of addressing a problem which would be equally acceptable or superior in achieving the desired degree of mitigation and these should be considered when responding to this report.

1.1.4 Date and Time of the Audit

A site visit was carried out on 08/08/2018 at 1100hrs. There has been no inspection carried out during the hours of darkness as part of this audit submission.



1.1.5 Weather Conditions

The weather conditions were fine and the road surface dry.

1.1.6 Drawings

The following drawings have been provided for consideration: -

Drawing	No	Rev
Speed Limit Gateway – 1 of 4	101	B
Speed Limit Gateway – 2 of 4	102	B
Speed Limit Gateway – 3 of 4	103	B
Speed Limit Gateway – 4 of 4	104	B
New Uncontrolled Crossing	110	B
Personal Injury Collision (2011-2015)	SK02	-
Construction Details sheet 1 of 2	015	-
Construction Details sheet 2 of 2	016	-

The following additional information has also been provided for consideration: -

- Signage Schedule, drawings 01 to 13

1.1.7 Collision Data

No collision data has been provided to the auditor however the designer has provided a drawing with collision plots.

A check on Somerset County Council's Graphical Information System indicates that there have been four recorded collisions within the limits of this scheme in the previous 5 year period.

1.1.8 Departures from Standard

The auditor has not been advised of any agreed departures or relaxations from Standard for these proposals. The designer should ensure that any departures are documented and approved in accordance with the Atkins publication 'Departures from Standards: Procedures for Local Highway Authorities (September 2011)'.

1.2 ITEMS RAISED AT THE PREVIOUS STAGE 1 AUDIT

The road safety audit team are not aware of a previous Stage 1 Road Safety Audit having been carried out.



1.3 ITEMS RAISED AT THIS STAGE 2 AUDIT

GENERAL

1.3.1 Comment – Post Construction Safety Audits

Road Safety Audit standard HD19/15 states that all Highway Improvement Schemes should be subject to a Stage 3 Road Safety Audit within 1 month of opening. It is recommended that a Stage 3 Road Safety Audit is undertaken within 1 month of coming into operation.

THE ALIGNMENT

No problems or observations have been identified for this section.

THE JUNCTIONS

No problems or observations have been identified for this section.

NON-MOTORISED USERS

1.3.2 Problem

Location: A358 Donyatt Hill (section 2; drawing 102)

Summary: Summary

Proposed uncontrolled crossing on approach to Smithy Cottage is missing from design drawing 70023646-102.

Recommendation

Include on drawing with the next submission.

Road Safety Audit Report Response

Reference to the proposed uncontrolled crossing on approach to Smithy Cottage will be added to drawing as requested - 70023646-102 Rev C attached.



SIGNING, ROAD MARKINGS AND LIGHTING

1.3.3 Problem

Location: General

Summary: Traffic sign design

The design of traffic signs must comply with current legislation (TSRGD) and design standards (TSM). Failure to provide signs that comply with such requirements may result in the road user not receiving the correct information to enable them to make the appropriate judgment.

Inappropriate sign sizes or obstructed forward visibility to sign face may result in inadequate warning, resulting in late decision making.

Traffic signs must be positioned with due consideration for vulnerable road users avoiding any unnecessary obstruction to pedestrians, cyclists etc.

Where appropriate sign posts should be passively safe to ensure they do not present a hazard to the occupants of errant vehicles.

Recommendation

The designer must ensure that the sign design complies with current legislation (TSRGD) and design standards (TSM). Departures from legislation or design standards must be clearly identified and highlighted in the designer's response.

The sign design must include its supports, fixings, specification, foundations/ underground services, location, forward visibility splays appropriate for the speed of approaching traffic, mounting height, lateral clearance(s), illumination requirements, colour, font type, 'x' height (appropriate for the approach speed), sign dimensions, material specification etc. Destinations on directional sign faces must be approved by the SCC area traffic engineer and be designed by a 'competent' sign designer.

Signs that incorporate tourism information must comply with Somerset County Council's Tourism Policy.

The designer must submit a comprehensive set of traffic management drawings and sign schedules for approval by the SCC area traffic engineer. The plan view of



the sign location should include any forward visibility envelopes to demonstrate that the road user has sufficient time to read the information. Where appropriate, a cross sectional drawing should be provided to demonstrate that the sign, posts and foundations fit the site.

Road Safety Audit Report Response

Sign faces to conform with TSRGD 2016. X heights may be below those recommended in the TSM. This is largely influenced by the availability of verge and the environmental impact of providing signs with X heights in excess of 100mm.

Ground conditions are not known at the time of design to determine if the required foundation can be installed at each location. The sign face is however assessed in terms of ensuring that 450mm lateral clearance from the carriageway is achievable.

In general terms retro-reflectivity is specified at the enhanced grade of R3B to ensure optimum visibility.

It is not envisaged that this scheme will include any tourist information signs. However, as a general rule, the Project Sponsor will ensure that signs that incorporate tourism information will comply Somerset County Council's Tourism Policy and these signs be sent to the relevant traffic engineer for approval.

Similar to previous undertaken SCC Road Safety Audits, it has been assumed that the relevant Area Traffic Engineer has been given the opportunity to review proposed signage as part of this SCC Road Safety Audit / Technical review process.

The Designer will ensure that the optimum forward visibility onto each proposed sign is achieved, given the undulating nature of Donyatt in part sections.

1.4 AUDIT TEAM STATEMENT

This section of the Road Safety and Technical Audit Report has been carried out by a Somerset County Council Road Safety Auditor in accordance with HD 19/15 Road Safety Audit.



2 ENVIRONMENTAL MANAGEMENT STATEMENT

Any comments on the subject of environmental issues contained within this report are observations only. This report does not in any way constitute a formal environmental assessment of the proposals submitted.

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