

LAND AT HAVANT ROAD EMSWORTH

SIGNAL JUNCTION & PEDESTRIAN CROSSING

STAGE 1 ROAD SAFETY AUDIT

APRIL 2017

Revision Status	Prepared by: (Name)	Checked by: (Name)	Approved by: (Signature)	Date Approved:
Original	Mark Barrett	Ian Medd		24 April 2017
Designer's Response				
Authority's Response				
Audit Response				

Client:
PBA

Engineer:
GM
Traffic Consultants Ltd
33 Riverside Gardens
Romsey
SO51 8HN

Date: 24 April 2017

TABLE OF CONTENTS

1.0	INTRODUCTION	3
2.0	ITEMS CONSIDERED	4
3.0	MATTERS ARISING FROM THIS STAGE 1 RSA.....	5
4.0	GENERAL	6
5.0	AUDITOR STATEMENT	7

APPENDIX A	Location Plan
APPENDIX B	Designers Response
APPENDIX C	Local Highway Authority Response

1.0 INTRODUCTION

1.1 General

- 1.1.1 This report results from a Stage 1 Road Safety Audit (RSA) carried out on the proposed access arrangements for a residential development on land on the north side of the A259 Havant Road in Emsworth. The access, which will be located west of Selangor Avenue, will take the form of a 3 arm traffic signal controlled junction. There will be no pedestrian crossing facilities across Havant Road at the new access. A new Toucan Crossing will be provided to cater for pedestrians wishing to cross Havant Road and this will be located to the east of the development access.
- 1.1.2 The RSA was carried out at the request of PBA.
- 1.1.3 GM Traffic Consultants Ltd carried out the Audit between 23rd April and 24th April 2017. The Auditors were:

Mark Barrett Highways England Cert. of Comp.
Ian Medd FSoRSA
- 1.1.4 The Audit Team are independent of the project design team and undertook a RSA 1 of an alternative design in July 2016. They have had no other involvement with design the project.
- 1.1.5 The report has been prepared in accordance with the Design Manual for Roads and Bridges (DMRB) Highways Directive (HD) 19/15.
- 1.1.6 Whilst reference is made to certain design standards, where safety may be compromised by a reduction in standard, this report is not intended to provide a design check. The Auditors have only reported on matters that might have an adverse effect on road safety in the context of the chosen design. No attempt has been made to comment on the justification of the scheme or the appropriateness of the design. Consequently, the Auditors accept no responsibility for the design or construction of the scheme.
- 1.1.7 The Audit consisted of a desktop study and a site visit, which was carried out on Monday 24th April 2017 at 10:30 where traffic was moderate and weather dry.
- 1.1.8 The recommendations in this report are aimed at addressing the road safety problems; however there may be other alternative acceptable ways to overcome a specific problem, when other practical issues are considered. The recommendations contained herein do not absolve the Designer of his/her responsibilities.
- 1.1.9 The Auditors would be pleased to discuss the acceptability of alternative solutions to problems identified during the Audit, and would encourage the Designer to consult them on this matter.
- 1.1.10 The LHA response to the RSA should be formally recorded and reported to the Designer and the RSA Team so that a record of the Audit process is contained in the *As Built* design pack to be provided and retained by the LHA on final completion.

2.0 ITEMS CONSIDERED

- 2.1 The Road Safety Audit was undertaken on the scheme detailed in the following documentation.

Drawing No.	Rev	Title
041.0025.009	D	Proposed Signal Junction Arrangement & Refuse Vehicle Tracking
041.0025.012	-	Havant Road Signal Junction & Pedestrian Crossing

- 2.2 The Audit Team have not been informed of any Departure from Standards.

3.0 MATTERS ARISING FROM THIS STAGE 1 RSA

3.1 PROBLEM

LOCATION: Approaches to proposed Toucan Crossing

SUMMARY: Insufficient skidding resistance

It is unclear if resurfacing is planned on the approaches to the new crossing. A lack of skid resistance on the approaches to the crossing will result in an increased risk of vehicles skidding on the approaches and over shooting the stop line. This will increase the risk of vehicles striking pedestrians on the crossing.

RECOMMENDATION

High friction surfacing, or a surface course material with a PSV value of 68+, should be provided.

3.2 PROBLEM

LOCATION: Havant Road westbound approach to Toucan Crossing

SUMMARY: No markings to advise cyclists where to exit Havant Road to use Toucan Crossing

There are no road markings to highlight where cyclists should exit Havant Road when travelling west to use the Toucan Crossing. This may result in cyclists attempting to exit Havant Road prematurely and losing control on the full height kerbs.

RECOMMENDATION

Provide a turn left arrow and cycle symbol on the carriageway to highlight where cyclists should exit the carriageway to use the Toucan Crossing.

3.3 PROBLEM

LOCATION: Havant Road westbound approach to Toucan Crossing

SUMMARY: Risk of cyclists exiting carriageway at wrong location

It is unclear from the information provided if the existing map type sign is to be replaced. Failure to replace and relocate the sign may result in cyclists exiting Havant Road at the access to Nore Farm Meadows and use the footway to access the Toucan which may lead to collisions with pedestrians.

RECOMMENDATION

Replace the sign with one informing cyclists to use the Toucan Crossing and relocate closer to the crossing.



4.0 GENERAL

- 4.1 The change in status of the southern footway/cycleway to footway only will result in the existing hazard paving being superfluous. These should be removed as part of the detailed design.

5.0 AUDITOR STATEMENT

5.1 I certify that this audit has been carried out in compliance with HD 19/15.

AUDIT TEAM LEADER

Mark Barrett

GM Traffic Consultants Ltd

Signed: ..



TEL: 07787 158 834

AUDIT TEAM MEMBER

Ian Medd

Signed:



Date: 24 April 2017

APPENDIX A: LOCATION PLAN



APPENDIX B: DESIGNERS RESPONSE

Auditors: Mark Barrett (Team Leader) and Ian Medd (Team Member)

Scheme: Land at Havant Road, Emsworth - Signal Junction & Pedestrian Crossing

Date Audit Completed: 24 April 2017

This response is to a Stage 1 Road Safety Audit to the design standard detailed within HD19/15 of Volume 5, Section 2, Part 2, of the Design Manual for Roads and Bridges, as detailed by the Highways Agency.

Problem no. in safety audit report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measure (detail description)
3.1	Yes	Yes	An annotation regarding the need for higher PSV value surface course has been added to the design drawings, and will be carried through into the Section 278 design works
3.2	Yes	Yes	The road markings have been added to the design drawings, and will be carried through into the Section 278 design works
3.3	Yes	Yes	Whilst the comment is accepted, details of directional/advisory signage will be picked up at the Section 278 stage

APPENDIX C: LOCAL HIGHWAY AUTHORITY RESPONSE

Principal Engineer's Statement:

Road Safety Audit for Land at Havant Road, Emsworth - Signal Junction & Pedestrian Crossing

I certify that I have considered the items that have arisen in the Stage 1 Road Safety Audit Report and I am content to accept all of its recommendations except for the ones listed above. I have stated my reasons for not accepting them and I seek the Chief Engineer's endorsement of my proposals.

..... Date.....

Principal Engineer

Chief Engineer's Decision:

I accept these proposals by the Principal Engineer.

..... Date.....

Chief Engineer