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LAND OFF HERMITAGE PARK, LEPTON

Stage 1 Road Safety Audit

Client: KCS Developments Ltd

03/04/2023

Quality Management

Issue Record

ISSUE	REVISION	DESCRIPTION	DATE	PREPARED BY	CHECKED
1	-	Final	03 April 2023	*M Hedley*	*A Bawn*
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Land off Hermitage Park, Lepton

Stage 1 Road Safety Audit

03/04/2023

Overseeing Organisation

Kirklees Council

Client

KCS Developments Ltd

Design Organisation

Optima Highways and Transportation Consultancy Ltd

Road Safety Audit Team Organisation

Road Safety Initiatives LLP

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1 Introduction

1.1.1 This report results from a Stage 1 Road Safety Audit carried out on the highway improvement works for the proposed development on the land off Hermitage Park, Lepton scheme. This is at the request of Ryan Kinder, Kirklees Council (Overseeing Organisation).

1.1.2 The terms of reference of the Road Safety Audit are as described in DMRB GG 119. The Road Safety Audit Team has examined and reported only on the road safety implications in the scheme as presented and has not examined or verified the compliance of the designs to any other criteria.

1.1.3 The Road Safety Audit Team membership, approved by Ryan Kinder, Kirklees Council (Overseeing Organisation), consisted of:

Team Leader	**Mark Hedley, IEng, MCIHT, MSoRSA, FIHE, RegRSA(IHE)** Certificate of Competency in Road Safety Audit gained in Nov 2013 Partner, Road Safety Initiatives LLP
Team Member	**Alan Bawn, BSc (Hons), CEng, MICE** Consultant, Road Safety Initiatives LLP

1.1.4 The Road Safety Audit was undertaken in accordance with the Road Safety Audit Brief provided by Martin Whittaker, Director (Design Organisation) and approved by Ryan Kinder, Kirklees Council (Overseeing Organisation). The Road Safety Audit comprised an examination of the documents provided and listed in **Appendix A**.

1.1.5 The Road Safety Audit Team visited the site together on Friday 31 March 2023 between 10:50 and 11:25 hours. It was overcast with drizzly rain and the road surfaces were wet at the time of the site visit. During the site visit, traffic flows were moderate, and several pedestrians and no cyclists were observed.

1.1.6 All Road Safety problems are referenced to the design drawings and the locations have been indicated on the plans supplied with the Road Safety Audit Brief in **Appendix B.**

1.1.7 This Road Safety Audit will review the road safety aspects of the highway improvement works for the proposed development on the land off Hermitage Park, Lepton. These included:

- Proposed access arrangements and internal residential development (80 dwellings) on land off Hermitage Park, Lepton.
- Visibility improvements to Rowley Lane/Hermitage Park junction.
- Capacity improvements to A629 Penistone Road/Rowley Lane junction.

1.1.8 The Road Safety Audit Team was not informed of any strategic decision made and agreed by the Overseeing Organisation.

1.1.9 The Road Safety Audit Team was not informed of any Departures from Standard.

2 Items Raised at previous Road Safety Audits

2.1.1 No previous Road Safety Audit has been undertaken on this scheme.

3 Items Raised at this Stage 1 Road Safety Audit

3.1 JUNCTIONS

PROBLEM 3.1.1	
Location	A629 Penistone Road / Rowley Lane Junction.
Summary	Vehicles may encroach into the adjacent lane, leading to subsequent vehicle-to-vehicle collisions.

In order to provide a two-lane approach to Penistone Road, the junction approach is to be realigned with changes to the verge alignment and the relocation of the pedestrian refuge island and hatching. It would appear that it may not be possible for vehicles (particularly large vehicles) to approach the junction side-by-side without encroachment into adjacent lane. Furthermore, the presence of roadside features i.e., trees, raised verge, road lighting and traffic signs may result in nearside 'verge shyness', which may exacerbate the situation.

This could lead to vehicle-to-vehicle collisions, for-example side impact and head-on collisions.

In a similar theme, the warning line bounding the hatched road markings may lead drivers into the traffic island kerbs and result in subsequent loss of control collisions.



RECOMMENDATION

It is recommended that a swept path analysis demonstrates that vehicles can successfully and comfortably approach the junction without encroachment into adjacent lane.

It is also recommended that the warning line should be offset from the traffic island kerb line.

PROBLEM 3.1.2	
Location	Rowley Lane / Hermitage Park Junction.
Summary	Potential for conflicts resulting from obscured visibility.

Inter-visibility between drivers entering Rowley Lane from Hermitage Park and approaching drivers may be restricted by existing vegetation and parked vehicles.

It is acknowledged that vegetation clearance is proposed to provide pedestrian deterrent paving, but the drawing indicates that this is vegetation in the verge and not the overhanging adjacent foliage. In addition, the survey in the Transport Assessment confirms parking occurs momentarily during school 'drop-off' times around the junction. Nevertheless, these may lead to an incident of 'looked but failed to see' and, potentially, a pull-out collision.



RECOMMENDATION

It is recommended that that vegetation and branches are trimmed back to such an extent that regular maintenance will not be required to ensure adequate inter-visibility is provided. In addition, provide 'no waiting' restrictions to protect the visibility splays at the junction.

3.2 WALKING, CYCLING AND HORSE RIDING

PROBLEM 3.2.1	
Location	Rowley Lane / Hermitage Park Junction – Pedestrian crossing.
Summary	Inadequate visibility of pedestrians may lead to collisions.

Existing vegetation may result in inadequate inter-visibility between drivers and pedestrians using the proposed crossing.

It is acknowledged that vegetation clearance is proposed to provide pedestrian deterrent paving, but the drawing indicates that this is vegetation in the verge and not the overhanging adjacent foliage. In addition, the survey in the Transport Assessment confirms parking occurs momentarily during school 'drop-off' times around the junction. Nevertheless, a pedestrian crossing the road must be able to see and be seen by approaching traffic. If inadequate visibility is achieved, then there is a risk of pedestrian collisions with approaching traffic.



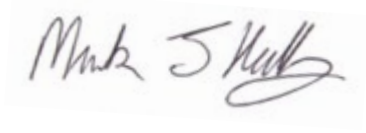
RECOMMENDATION

It is recommended that that vegetation and branches are trimmed back to such an extent that regular maintenance will not be required to ensure adequate inter-visibility is provided. In addition, provide 'no waiting' restrictions to protect the pedestrian visibility splays.

****** END OF IDENTIFIED PROBLEMS AND RECOMMENDATIONS MADE AT THIS STAGE 1 ROAD SAFETY AUDIT ******

4 Audit Team Statement

We certify that this Road Safety Audit has been carried out in accordance with GG 119.

ROAD SAFETY AUDIT TEAM LEADER	
Name:	Mark Hedley
Signed:	
Position:	Partner
Organisation:	Road Safety Initiatives LLP
Date:	03 April 2023
ROAD SAFETY AUDIT TEAM MEMBER	
Name:	Alan Bawn
Signed:	
Position:	Consultant
Organisation:	Road Safety Initiatives LLP
Date:	03 April 2023

Appendices, Figures and Tables

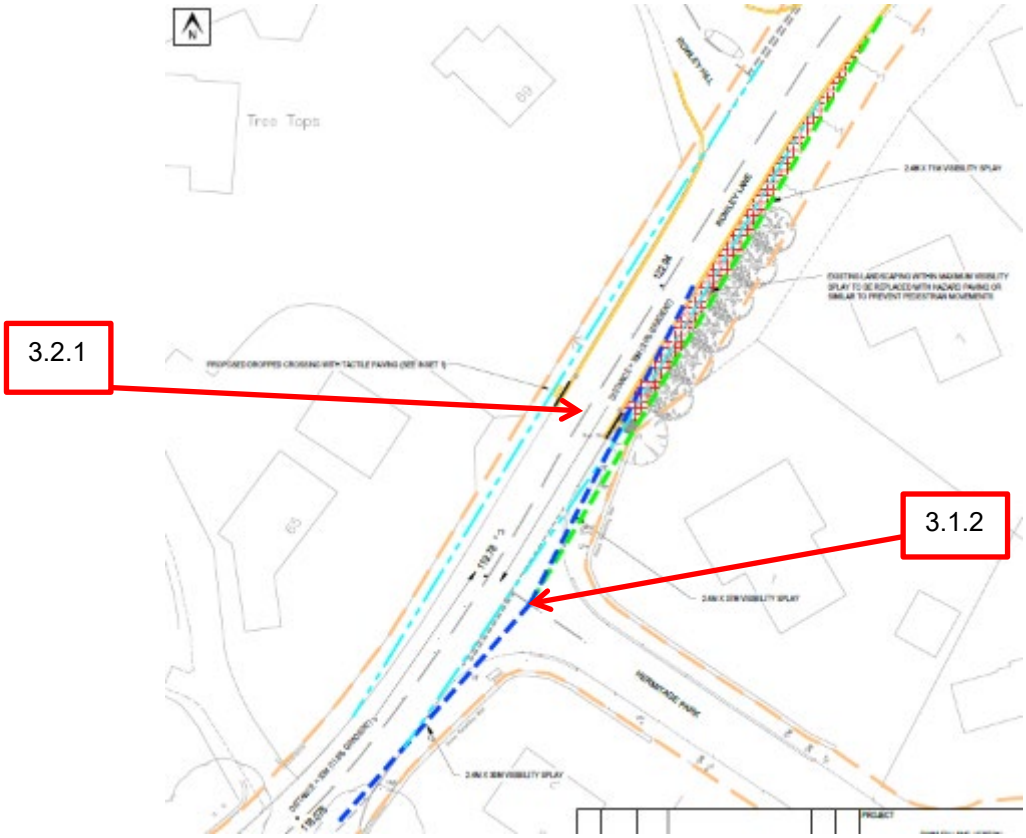
Appendix A: Scheme Documents Issued for Road Safety Audit

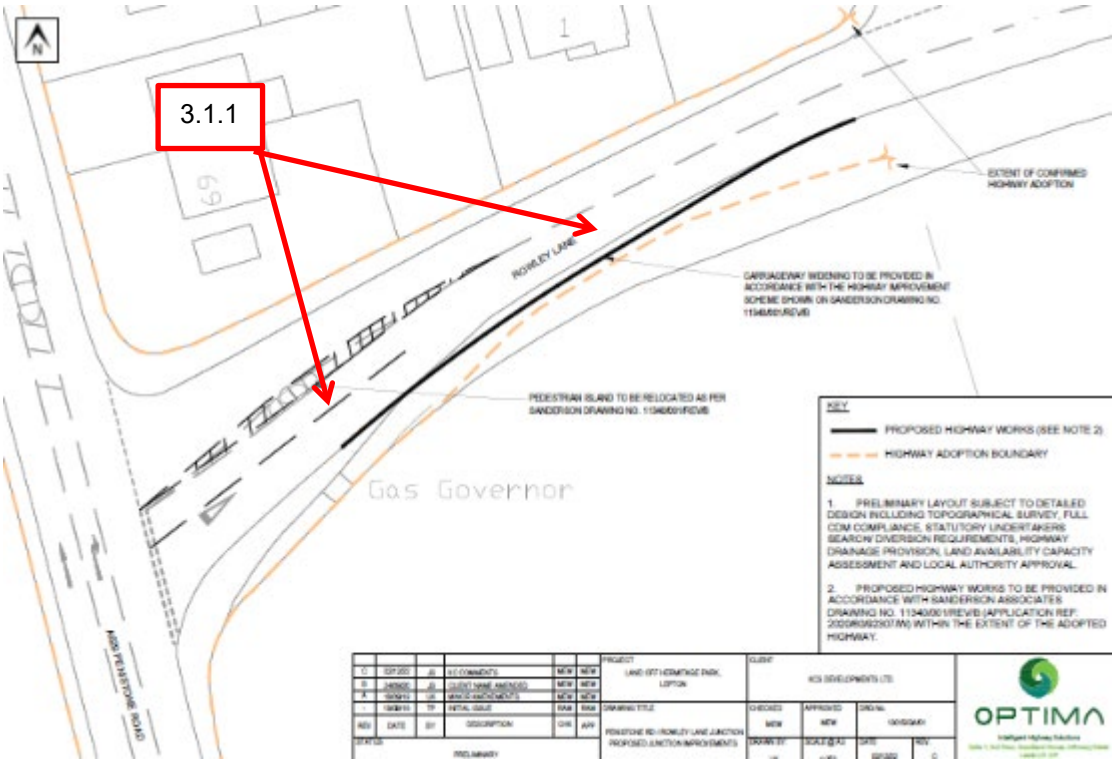
DRAWING NUMBER	REV	TITLE
3284-0-002 HH	HH	Proposed Site Layout
13015/GA/08	B	Rowley Lane/Hermitage Park Proposed Junction Improvements
13015/GA/01	C	Penistone Road/Rowley Lane Junction Proposed Junction Improvements
13015/IN/09	E	Intervisibility Analysis
13015/ATR/06	F	Swept Path Analysis
230327 Stage 1 Road Safety Audit Brief	27/03/23	Stage 1 RSA Brief

Appendix B: Location Plans

Numbers refer to problems identified in the text.




3.2.1
3.1.2
Tree Tops
ROWLEY LANE
HERMITAGE PARK


3.1.1
ROWLEY LANE
EXTENT OF CONFIRMED HIGHWAY ADOPTION
CARRIAGEWAY WIDENING TO BE PROVIDED IN ACCORDANCE WITH THE HIGHWAY IMPROVEMENT SCHEME SHOWN ON SANDERSON DRAWING NO. 1134/001/REV/B
PEDESTRIAN ISLAND TO BE RELOCATED AS PER SANDERSON DRAWING NO. 1134/001/REV/B
Gas Governor
KEY
PROPOSED HIGHWAY WORKS (SEE NOTE 2)
HIGHWAY ADOPTION BOUNDARY
NOTES
1. PRELIMINARY LAYOUT SUBJECT TO DETAILED DESIGN INCLUDING TOPOGRAPHICAL SURVEY, FULL CDM COMPLIANCE, STATUTORY UNDERTAKERS SEARCH/ DIVERSION REQUIREMENTS, HIGHWAY DRAINAGE PROVISION, LAND AVAILABILITY CAPACITY ASSESSMENT AND LOCAL AUTHORITY APPROVAL.
2. PROPOSED HIGHWAY WORKS TO BE PROVIDED IN ACCORDANCE WITH SANDERSON ASSOCIATES DRAWING NO. 1134/001/REV/B (APPLICATION REF. 2020/0922/07/M) WITHIN THE EXTENT OF THE ADOPTED HIGHWAY.
OPTIMA

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