

WORKINGHAM MAJOR HIGHWAYS PROGRAMME- SOUTH WORKINGHAM DISTRIBUTOR ROAD (SWDR) WESTERN GATEWAY PHASE 2 STAGE 2 ROAD SAFETY AUDIT

SA 3290

August 2021

Waterman Aspen
5th Floor
1 Cornwall Street
Birmingham
B3 2DX
T: +44 (0)121 212 7700
F: +44 (0)121 212 7701

www.watermanaspen.co.uk

REV	ISSUE STATUS	PREPARED BY/DATE	CHECKED BY/DATE	APPROVED BY/DATE
1	DRAFT	UF 12 th August 2021	UF 12 th August 2021	
2	FINAL	DG 16 th August 2021	DG 16 th August 2021	ASD 18 August 2021

Our Markets



Property & Buildings



Transport & Infrastructure



Energy & Utilities



Environment

Disclaimer Note

The client has confirmed that it is entering into the agreement under which this report is being prepared on its own behalf and not on behalf of, or for the benefit of any other party and has agreed that in any event of any claim arising out of or in connection with that agreement and/or the report itself it shall be entitled to recover from Waterman Aspen Limited only the losses, if any, it has itself suffered.

This report therefore is for the private and confidential use of the client for whom it was prepared solely for the purposes requested by the client. It should not be reproduced in whole or in part or relied upon by any third party for any use whatsoever without the express written authority of Waterman Aspen Limited.

CONTENTS

1.0	INTRODUCTION	2
2.0	PROPOSALS	3
3.0	ACCIDENT INFORMATION	3
4.0	DEPARTURES FROM STANDARD	3

AUDITOR'S EVALUATION

5.0	MATTERS ARISING FROM PREVIOUS ROAD SAFETY AUDITS	4
6.0	MATTERS ARISING FROM THIS STAGE 2 ROAD SAFETY AUDIT	5
7.0	ISSUES OUTSIDE THE TERMS OF REFERENCE	6

APPENDICES

APPENDIX ONE		7
8.0	ROAD SAFETY AUDIT TEAM STATEMENT	
APPENDIX TWO		9
9.0	LIST OF DRAWINGS AND DOCUMENTS PROVIDED TO THE AUDIT TEAM	
APPENDIX THREE		11
10.0	PROBLEM LOCATION PLAN	

1 INTRODUCTION

- 1.1 This report is a Stage 2 Road Safety Audit (RSA) carried out on proposed roundabout improvement works at the junction Finchampstead Road and Molly Millars Lane, Wokingham at the request of Waterman Infrastructure and Environment.
- 1.2 The RSA team, staff members from Waterman Aspen, present at the RSA were:

Darren Gotch
Audit Team Leader

Umer Farooq
Audit Team Member
- 1.3 We confirm that no member of the Audit Team has been involved with the design process and that at least one member of the Audit Team holds the Highways England Certificate of Competency.
- 1.4 The site visit was carried out on the afternoon of Tuesday 10th August 2021 between the hours of 17:00pm and 18:00pm. The weather during the site visit was fine and the carriageway surface was dry.
- 1.5 The RSA brief issued to the team comprised of various elements listed at Appendix Two.
- 1.6 The scheme has been examined and this report compiled only with regard to the safety implications for road users of the scheme as presented. It has not been examined or verified for compliance with any other Standards or criteria. However, in order to clearly explain a safety problem or the recommendation to resolve a problem, the Audit Team may on occasion have referred to a design standard for information only. Any audit comments should not be construed as implying that a technical audit has been undertaken in any respect.
- 1.7 All of the problems described in this report are considered by the RSA team to require action in order to improve the safety of the scheme and minimise collision occurrence. However, if any of the problems or recommendations within this Road Safety Audit report are not accepted, a copy of the signed exception report from the Overseeing Organisation should be sent to the Road Safety Audit Team Leader.
- 1.8 Any recommendations included within this report should not be regarded as being prescriptive design solutions to the problems raised. They are intended only to indicate a proportionate and viable means of eliminating or mitigating the identified problem, in accordance with GG119, and in no way imply that a formal design process has been undertaken. There may be alternative methods of addressing a problem which would be equally acceptable in achieving the desired elimination or mitigation and these should be considered when responding to this report.

2 PROPOSALS

- 2.1 The project consists of the realignment and widening of the existing carriageway along Finchampstead Road and Molly Millars Lane including the construction of a new offline roundabout to replace the existing mini roundabout demolition of 81 and 83/85 Finchampstead Road, also provide the signalised and uncontrolled crossing facilities.

3 RECORDED INJURY ACCIDENT HISTORY

- 3.1 No recorded injury accident data has been submitted to the Audit Team.

4 DEPARTURES FROM STANDARD

- 4.1 The Brief supplied to the Audit Team notes that a departure from standards WMHP-TG-WG2-RP-HI-002 is applied for the stopping sight distance at the toucan crossing on the southern arm of the proposed roundabout which will be below standard (43m).

5 MATTERS ARISING FROM PREVIOUS ROAD SAFETY AUDITS

5.1 No previous Road Safety Audits have been undertaken for the proposed works.

6 MATTERS ARISING FROM THIS STAGE 1 ROAD SAFETY AUDIT

6.1 Problem

Location: Uncontrolled pedestrian crossing point on Molly Millars Lane

Summary: Pedestrian and vehicle conflict at uncontrolled crossing point

Details: The design proposes to provide an uncontrolled pedestrian crossing point on the exit from the proposed roundabout on Molly Millars Lane. In addition, it is proposed to introduce a toucan crossing facility on each of the arms, linking the various shared footways.

The Audit Team are concerned that when vehicles are exiting the roundabout onto Molly Millars Lane the driver will be looking to the right to ensure they can safely enter onto the roundabout and then having to negotiate a pedestrian walking into the carriageway, which they may not expect after just having to driver through a Toucan Crossing facility and having to brake sharply. This could lead to either a conflict between the vehicle and the pedestrian, or a rear end shunt type collision when having to stop suddenly.

Recommendation:

It is recommended remove the uncontrolled pedestrian crossing point and guide pedestrians to use the Toucan Crossing facilities at the location.

6.2 Problem

Location: Vehicular access for property no. 92 at eastern arm of proposed roundabout.

Summary: Pedestrian and vehicle conflict.

Details: The design proposes to construct a new refuge island at the eastern arm of roundabout opposite property no.92. The swept path analysis drawings provided to the Audit Team doesn't show any tracking information at this location.

The Audit Team are concerned that vehicles exiting from the crossover will not have sufficient room without mounting the footway at the location and coming into conflict with pedestrians.

Recommendation:

It is recommended that the design is such that vehicles can safely access the crossover without mounting the footway.

7 ISSUES OUTSIDE THE TERMS OF REFERENCE

7.1 No general comments are raised by the Audit Team.

APPENDIX ONE

8 AUDIT TEAM STATEMENT

AUDIT TEAM STATEMENT

We certify that the audit has been carried out in accordance with the requirements set out in GG119. The problems identified have been noted in this report together with associated safety improvement suggestions which we recommend should be studied for implementation.

AUDIT TEAM LEADER

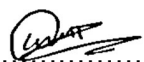
Darren Gotch MCIHT
Senior Traffic Engineer
Waterman Aspen
5th Floor
1 Cornwall Street
Birmingham
B3 2DX

Signed: .....

Date: 12th August 2021

AUDIT TEAM MEMBER

Umer Farooq
Traffic Engineer
Waterman Aspen
5th Floor
1 Cornwall Street
Birmingham

Signed: .....

Date: 12th August 2021

APPENDIX TWO

9 LIST OF DRAWINGS AND DOCUMENTS PROVIDED TO THE AUDIT TEAM

Documents

Document Number	Document Title
WMHP-TG-WG2-CA-LI-1301	LIGHTING DESIGN CALCULATIONS
WMHP-TG-WG2-CA-SP-1301	SPECIFICATION APPENDICES 1300 SERIES- ROAD LIGHTING, COLUMNS AND BRACKETS, CCTV MASTS AND CANTILEVER MASTS
WMHP-TG-WG2-CA-DD-0501	SPECIFICATION APPENDICES-MICRO DRAINAGE RESULTS
WMHP-TG-WG2-SP-HI-1205	SPECIFICATION APPENDIX 12/5
WMHP-TG-WG2-SP-HI-1101	SPECIFICATION APPENDICES-KERB, FOOTWAY AND PAVED AREAS
WMHP-TG-WG2-SP-HI-0702	SPECIFICATION APPENDICES PAVEMENTS
WMHP-TG-WG2-SP-HI-1201	SPECIFICATION APPENDICES TRAFFIC SIGNS
WMHP-TG-WG2-SP-GE-0601	SPECIFICATION APPENDICES-0600 SERIES EARTHWORKS
WMHP-TG-WG2-SP-GE-0201	SPECIFICATION APPENDICES-SITE CLEARANCE
WMHP-TG-WG2-SP-HI-0301	SPECIFICATION APPENDICES FENCING
WMHP-TG-WG2-SP-DD-0501	SPECIFICATION APPENDICES DRAINAGE AND SERVICES DUCTS
WMHP-TG-WG2-SH-HS-0701	DESIGNERS CDM REVIEW

Document Number	Document Title
WMHP-TG-WG2-SH-HS-1301	DESIGNERS CDM REVIEW
WMHP-TG-WG2-SH-HS-0601	DESIGNERS CDM REVIEW
WMHP-TG-WG2-SH-HS-1203	MOLLY MILLARS LANE TOUCAN CROSSING TIMING SCHEDULE
WMHP-TG-WG2-SH-HS-1201	FINCHAMPSTEAD ROAD SOUTH PEDESTRIANS CROSSING TIMING SCHEDULE
WMHP-TG-WG2-SH-HS-1201	FINCHAMPSTEAD ROAD NORTH PEDESTRIANS CROSSING TIMING SCHEDULE
WMHP-TG-WG2-SH-DD-0501	SPECIFICATION APPENDICES DRAINAGE SCHEDULE
WMHP-TG-WG2-DR-HI-1101	ROUNABOUT ENHANCEMENT KERB AND FOOTWAYS AND PAVED AREAS PLAN
WMHP-TG-WG2-DR-HI-0152	ROUNABOUT ENHANCEMENT ALIGNMENT SCHEME LAYOUT
WMHP-TG-WG2-DR-HI-0102	ALIGNMENT PROFILE
WMHP-TG-WG2-DR-HI-0101	ALIGNMENT PLAN
WMHP-TG-WG2-DR-HI-0602	EARTH WORKS CROSS SECTIONS
WMHP-TG-WG2-DR-0511	DRAINAGE DETAILS
WMHP-TG-WG2-DR-DD-0501	DRAINAGE PLAN
WMHP-TG-WG2-DR-LI-1311	LIGHTING DETAILS
WMHP-TG-WG2-DR-LI-1301	LIGHTING PLAN
WMHP-TG-WG2-DR-HI-1236	DUCTING LAYOUT
WMHP-TG-WG2-DR-HI-1235	SIGNALS LAYOUT

Document Number	Document Title
WMHP-TG-WG2-DR-HI-1234	DUCTING LAYOUT
WMHP-TG-WG2-DR-HI-1233	SIGNALS LAYOUT
WMHP-TG-WG2-DR-HI-1232	DUCTING LAYOUT
WMHP-TG-WG2-DR-HI-1231	SIGNALS LAYOUT
WMHP-TG-WG2-DR-HI-1201	TRAFFIC SIGNS PLAN
WMHP-TG-WG2-DR-HI-1221	ROAD MARKING PLAN
WMHP-TG-WG2-DR-HI-1211	TRAFFIC SIGNS DETAILS
WMHP-TG-WG2-DR-HI-1111	KERB FOOTWAY PAVED AREA DETAILS
WMHP-TG-WG2-DR-HI-0702	CARRIAGEWAY PAVEMENT
WMHP-TG-WG2-DR-HI-1112	KERB FOOTWAY PAVED AREA DETAILS
WMHP-TG-WG2-DR-HI-0711	PAVEMENT DETAILS
WMHP-TG-WG2-DR-HI-0701	PAVEMENT PLAN
WMHP-TG-WG2-DR-HI-0301	FENCING PLAN
WMHP-TG-WG2-DR-HI-0201	SITE CLEARANCE PLAN
WMHP-TG-WG2-DR-HI-0131	ALIGNMENT ISOPACHYTE PLAN
WMHP-TG-WG2-DR-HI-0124	ALIGNMENT TYPICAL CROSS SECTION
WMHP-TG-WG2-DR-HI-0115	SWEPT PATHS
WMHP-TG-WG2-DR-HI-0121	CROSS SECTIONS
WMHP-TG-WG2-DR-HI-0114	SWEPT PATH
WMHP-TG-WG2-DR-HI-0108	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0113	SWEPT PATH
WMHP-TG-WG2-DR-HI-0112	SWEPT PATH

Document Number	Document Title
WMHP-TG-WG2-DR-HI-0111	SWEPTH PATH
WMHP-TG-WG2-DR-HI-0110	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0109	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0107	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0105	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0106	VISIBILITY ANALYSIS
WMHP-TG-WG2-DR-HI-0104	ALIGNMENT PROFILE
WMHP-TG-WG2-DR-HI-0103	ALIGNMENT PROFILE

10 PROBLEM LOCATION PLAN



