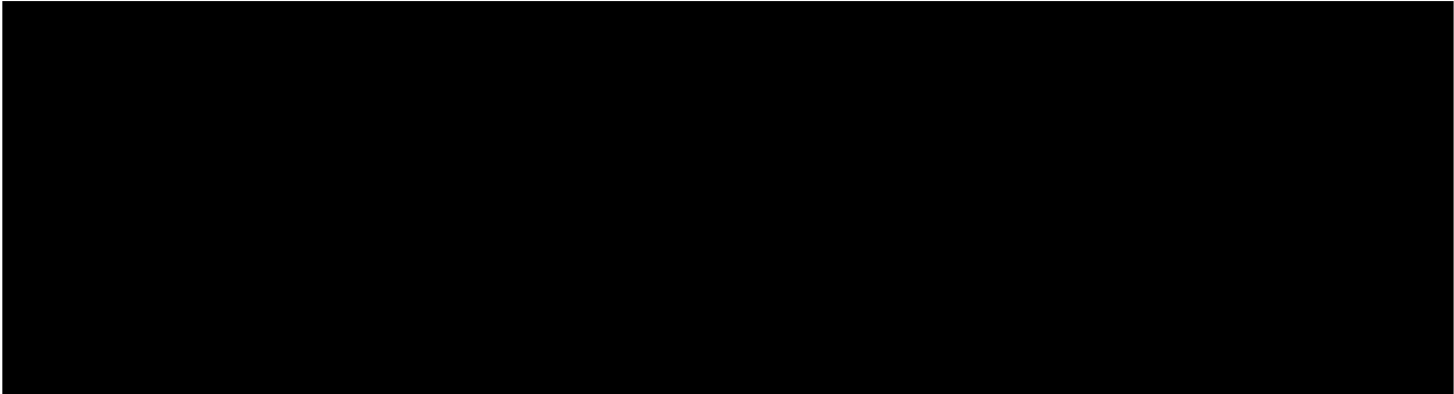




From: Michael Eastham
Sent: 29 September 2017 12:39
To: Planning.Responses
Subject: FW: Stage 1 Road Safety Audit - Development proposals at Land adjacent to Water Lane, Angmering

Please upload on Ocella.

Thanks

Michael

From: Bowie, David [REDACTED]
Sent: 29 September 2017 12:11
To: David Innes; Michael Eastham
Cc: Planning SE; Bown, Kevin; Cleaver, Elizabeth; Franklin, Richard; Tim Wall; Stephen Hunt; 'Matthew Craddy'; 'Stephen Gee'
Subject: RE: Stage 1 Road Safety Audit - Development proposals at Land adjacent to Water Lane, Angmering

For the attention of: Mr. Michael Eastham

Site: Land South of Water Lane Angmering

Development: Outline application with some matters reserved (Access only) for development up to 175 No. residential dwellings, public open space, play areas with associated infrastructure including roads, drainage & landscaping. This application affects the character & appearance of Angmering Conservation Area & the setting of Listed Buildings. This application is a Departure from the Development Plan.

Planning Application No: A/99/17/OUT

Highways England Ref: HAMIS 77987

Dear Michael,

Please find attached for your records documentation of completion of the Road Safety Audit procedure undertaken on the proposed improvements to the A27 junction with the A280 / Titnore Lane roundabout in accordance with DMRB standard HD 19/15.

This is for information only and does not change our view on the proposed application and I attach our previous correspondence to that effect for your ease of reference. I have copied WSCC to my

response so they also have record of the Road Safety Audit procedure. Please note that the report relates to the road widening option.

I notice that WSCC have requested that, if planning consent were to be given, prior to the works commencing the applicant shall provide a Construction Traffic Management Plan. Highways England are entirely in agreement with their position and would respectfully request that we are included in the consultation of that plan at the appropriate time.

I trust that the above is of assistance and if you require any further information please contact me accordingly.

Kind regards

David

David Bowie

Highways England | Bridge House | 1 Walnut Tree Close | Guildford | Surrey | GU1 4LZ



From: Matthew Craddy 

Sent: 18 September 2017 10:21

To: Bowie, David

Cc: Planning SE; Bown, Kevin; Cleaver, Elizabeth; Franklin, Richard; Tim Wall; Stephen Hunt

Subject: FW: Stage 1 Road Safety Audit - Development proposals at Land adjacent to Water Lane, Angmering

David

Please find attached Road Safety Audit Response report for the A280 / A27 / Titnore Lane roundabout proposed improvements – Road Widening Option and associated drawings.

We trust this now addresses the comments raised within the Stage 1 RSA, but should you have any questions/comments please do not hesitate to contact me.

Many Thanks

Matthew Craddy BA (Hons) MCINT

Principal Consultant

for i-Transport LLP



Basingstoke Office: Grove House, Lutyens Close, Chineham Court, Basingstoke, RG24 8AG



We use the word “partner” to refer to a member of i-Transport LLP or an employee or consultant with equivalent standing and qualifications.

Please note that the information in this e-mail is confidential and unless you are (or authorised to receive it for) the intended recipient, you must not disclose, copy, circulate or in any way use the information it contains. If you have received this e-mail in error please inform us and immediately delete all copies from your system. Whilst it is believed that this e-mail and any

attachments are free of any virus or other defect, it is your responsibility to ensure that your computer or IT system are not affected and we accept no responsibility for any loss or damage arising.

i-Transport LLP is a limited liability partnership Registered in England under number OC311185. Registered Office: 3rd Floor, One London Square, Cross Lanes, Guildford, Surrey, GU1 1UN. A list of members is available upon request.

From: mark barrett [REDACTED]
Sent: 11 September 2017 09:13
To: Bowie, David [REDACTED]
Cc: Stephen Hunt [REDACTED]
Subject: Re: Stage 1 Road Safety Audit - Development proposals at Land adjacent to Water Lane, Angmering

David
No problem
Thank you for your comments.
Please find attached final reports as requested.

Kind Regards

Mark

From: "Bowie, David" [REDACTED]
To: [REDACTED]; 'Ian Medd' [REDACTED]
Cc: Planning SE [REDACTED]; "Bown, Kevin" [REDACTED]
"Cleaver, Elizabeth" [REDACTED]; "Franklin, Richard" [REDACTED]
[REDACTED]
Sent: Friday, 8 September 2017, 11:43
Subject: Stage 1 Road Safety Audit - Development proposals at Land adjacent to Water Lane, Angmering

Dear Mark & Ian,

Stage 1 Road Safety Audits - Development proposals at Land adjacent to Water Lane, Angmering

I trust this email finds you both well. Having checked my records I realise that we have not finalised the two stage 1 Road Safety Audits you carried for me on the above development proposals at Water Lane Angmering.

Please find attached your draft Audit Reports with my suggested amendments. The changes I am proposing are purely to bring the reports into total compliance with the requirements of HD 19/15 and I have made no attempt to remove any of the safety matters raised in your reports. You will notice that I have changed the wording of your recommendation in the Widening RSA to reflect how Highways England prefer to have recommendations worded as per guidance given in HD 19/15. I have also suggested removing the two appendices relating to responses as these should be a separate document in their own right as given in HD 19/15.

If you are agreeable to my proposed amendments please issue the reports to me as final documents and at the same time please copy in the design team. If you are not agreeable to the changes we will need to discuss further prior to release of the final reports.

I apologise again for the delay and trust the above is clear and acceptable to you both.

Kind regards

David

David Bowie

Highways England Company Limited | Registered Office: Bridge House, 1 Walnut Tree Close, Guildford GU1 4LZ | Registered in England and Wales No. 9346363

[REDACTED]

This email may contain information which is confidential and is intended only for use of the recipient/s named above. If you are not an intended recipient, you are hereby notified that any copying, distribution, disclosure, reliance upon or other use of the contents of this email is strictly prohibited. If you have received this email in error, please notify the sender and destroy it.

Highways England Company Limited | General enquiries: [REDACTED] / National Traffic Operations Centre, 3 Ridgeway, Quinton Business Park, Birmingham B32 1AF |

[REDACTED]

Registered in England and Wales no 9346363 | Registered Office: Bridge House, 1 Walnut Tree Close, Guildford, Surrey GU1 4LZ

Consider the environment. Please don't print this e-mail unless you really need to.

This email may contain information which is confidential and is intended only for use of the recipient/s named above. If you are not an intended recipient, you are hereby notified that any copying, distribution, disclosure, reliance upon or other use of the contents of this email is strictly prohibited. If you have received this email in error, please notify the sender and destroy it.

Highways England Company Limited | General enquiries: [REDACTED] / National Traffic Operations Centre, 3 Ridgeway, Quinton Business Park, Birmingham B32 1AF |

[REDACTED]

Registered in England and Wales no 9346363 | Registered Office: Bridge House, 1 Walnut Tree Close, Guildford, Surrey GU1 4LZ

Consider the environment. Please don't print this e-mail unless you really need to.

ROAD SAFETY AUDIT RESPONSE REPORT

A280 / A27 / TITNORE LANE ROUNDABOUT PROPOSED IMPROVEMENTS ROAD WIDENING OPTION

STAGE 1

15 September 2017

PREPARED BY:

i-Transport for Rydon Homes & Gleeson Developments Ltd
Grove House
Lutyens Close
Chineham Court Business Park
Chineham
Basingstoke
RG24 8AG

On behalf of:

Highways England
Bridge House,
1 Walnut Tree Close,
Guildford
GU1 4LZ

AUTHORISATION SHEET

Project: A280 / A27 / Titnore Lane Roundabout Proposed Improvements – Road Widening Option

Report Title: Stage 1 Road Safety Audit Response Report

PREPARED BY:

Name: Tim Wall

Position: Design Team Leader

Signed: 

Organisation: i-Transport for Wates Developments

Date: 15 September 2017

APPROVED BY:

Name: David Bowie

Position: Project Sponsor

Signed: 

Organisation: Highways England

Date: 29 September 2017

Route Number: A27

Road Name: A280 Water Lane

Scheme: A280 / A27 / Titnore Lane Roundabout Proposed Improvements – Road Widening Option

Road Safety Audit: Stage 1

1 INTRODUCTION

- 1.1 This Road Safety Audit Response Report relates to the Stage 1 Road Safety Audit Report for the A280 / A27 / Titnore Lane Roundabout Proposed Improvements – Road Widening Option. The Stage 1 Road Safety Audit was produced by GM Traffic Consultants Ltd (reference Proposed Improvement Scheme A280/A27/Titnore Lane Roundabout) and is dated 9 September 2017.
- 1.2 The Stage 1 Road Safety Audit Brief comprised of a set of the preliminary design drawings, a summary of the general details of the scheme including traffic flows, 5-year crash data, traffic data, and Audit Reports, assembled by the Design Team for the scheme and sent by the Overseeing Organisation Project Sponsor (David Bowie) to the Road Safety Audit Team for examination. The Road Safety Audit Report was prepared and issued by the Road Safety Audit Team Leader, Mark Barrett of GM Traffic Consultants Ltd.
- 1.3 The proposed scheme comprises widening of the A280 South West Arm to provide a two-lane entry and extended flared approach. This is to address the impacts of the additional traffic generated by the land parcels proposed north and south of Water Lane.
- 1.4 The Design Team have carefully considered the problems and recommendations in the Stage 1 Road Safety Audit Report. This Road Safety Audit Response Report includes all of the problems and recommendations raised by the Road Safety Audit Team, as well as the Design Team's response to these issues.

2 KEY PERSONNEL

- 2.1 Overseeing Organisation
Project Sponsor – David Bowie (Highways England)
- 2.2 **Road Safety Audit Team**
Road Safety Audit Team Leader – Mark Barrett (GM Traffic Consultants Ltd)
Road Safety Audit Team Member – Ian Medd (GM Traffic Consultants Ltd)
- 2.3 **Design Organisation**
Design Team Leader – Tim Wall (i-Transport LLP)
Design Team Member – Matthew Craddy (i-Transport LLP)
Design Team Member – Stephen Hunt (i-Transport LLP)
Design Team Member – Amelia Boron (i-Transport)

3 ITEMS RAISED AT THE STAGE 1 ROAD SAFETY AUDIT

3.1 GENERAL

3.1.1 No Problems Raised

3.2 LOCAL ALIGNMENT

3.2.1 No Problems Raised

3.3 JUNCTIONS

3.3.1 PROBLEM

Location: A280 Water Lane approach to roundabout.

Summary: Risk of overtaking vehicles striking articulated HGVs.

The proposed widening scheme will allow cars and other smaller vehicles to access lane two on the approach to the roundabout alongside articulated HGVs in lane one. The swept path analysis shows HGV's will require to enter lane 2 when positioning themselves on the approach to the roundabout in order to access the first or second exits from the roundabout. This will increase the risk of side swipe type collisions or vehicles in lane 2 having to brake heavily risking tail end shunts when the HGV swings into lane two to manoeuvre for access.

Recommendation:

The widening should be reduced the on the approach such that other traffic is not provided with an opportunity to gain access to lane two prior to articulated HGVs taking up position on approach to the roundabout. Alternatively, the entry should be realigned to allow cars to pass safely.

Design Team Response:

Agreed – To reduce the risk of side swipe type collisions the approach has been realigned to allow cars to pass an HGV's safely. This has been provided on Drawing ITB9105-GA-024 Rev B. Swept path analysis has been undertaken to demonstrate that a car can pass an HGV safely as illustrated in Drawing ITB9105-GA-035 Rev A.

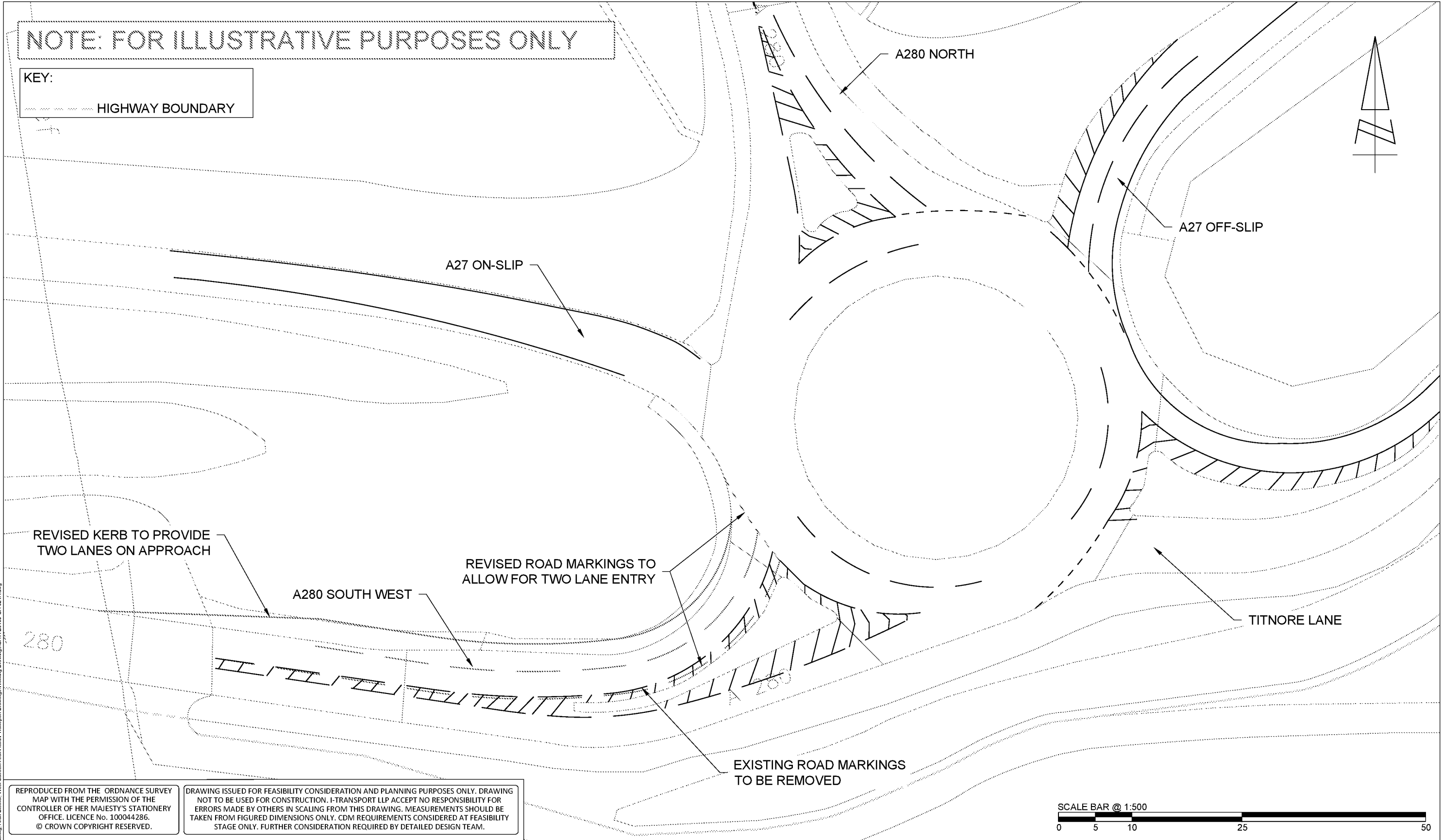
3.4 ROAD SIGNS, CARRIAGEWAY MARKINGS AND LIGHTING

3.4.1 No Problems Raised

3.5 NON-MOTORISED USER PROVISION

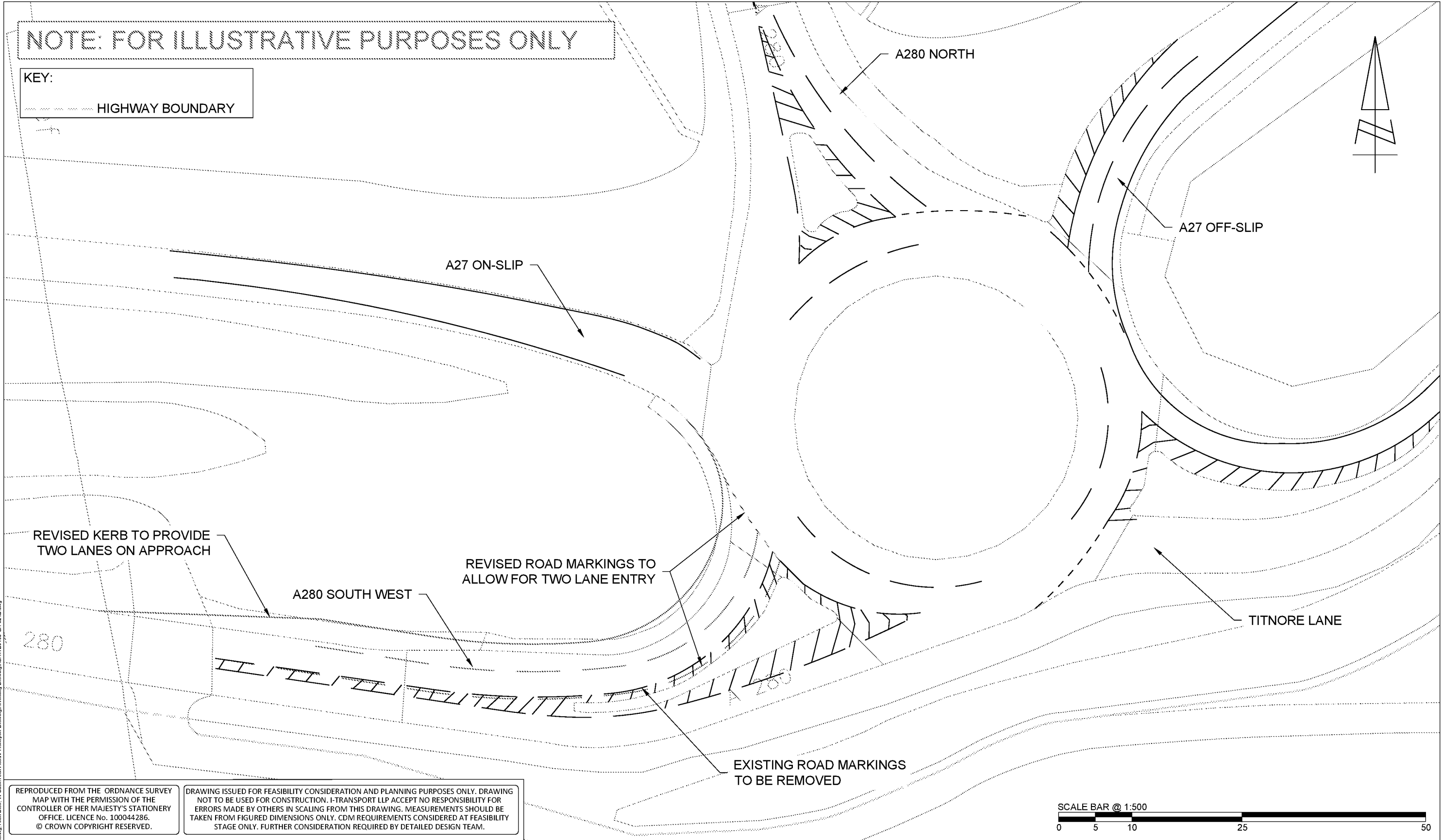
3.5.1 No Problems Raised

APPENDIX A PROBLEM LOCATIONS PLAN FROM STAGE 1 ROAD SAFETY AUDIT



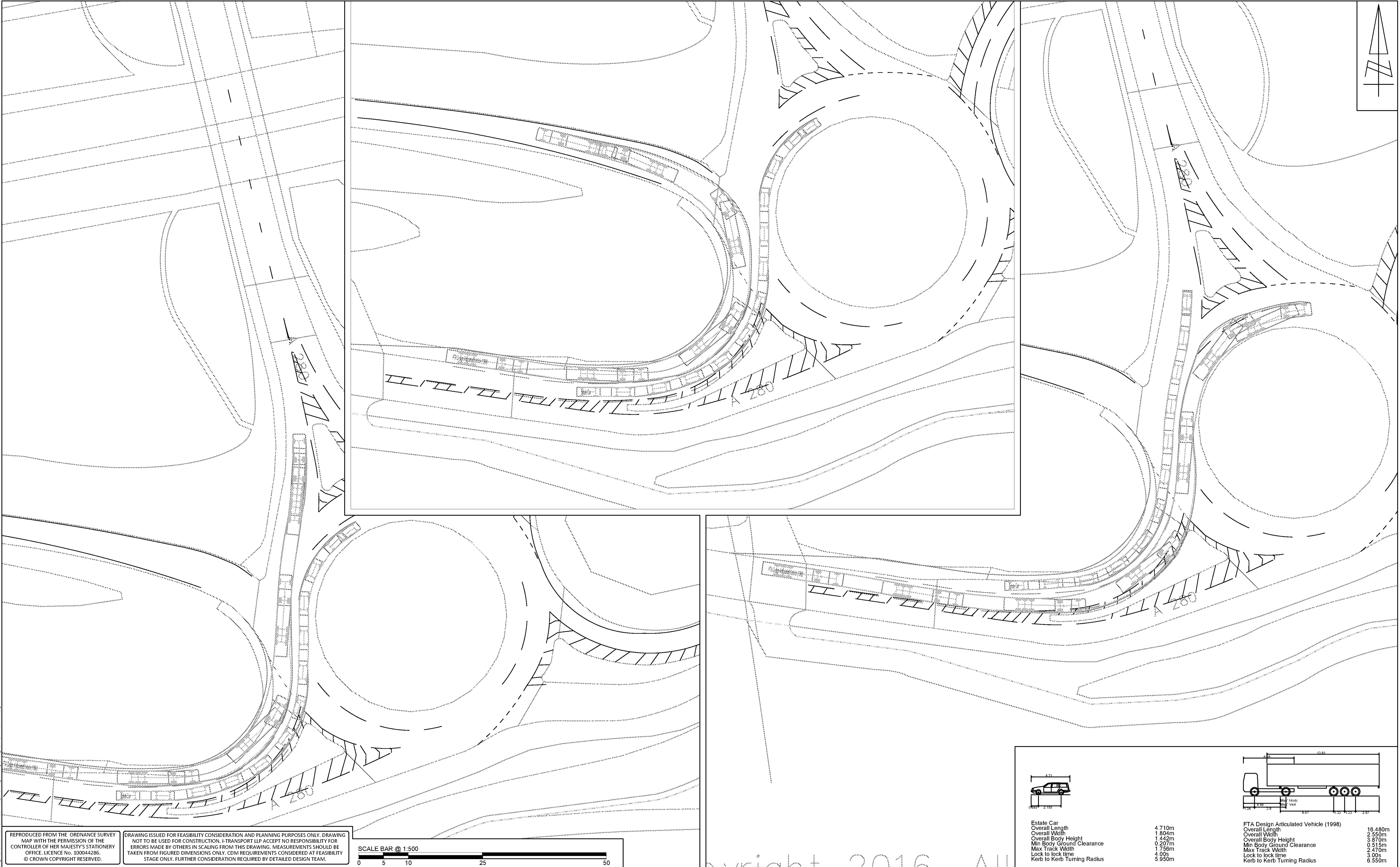
 Grove House, Lutyens Close, Chineham Basingstoke, Hampshire, RG24 8AG Tel: 01256 338640 Fax: 01256 338644 www.i-transport.co.uk							TITLE: PROPOSED IMPROVEMENT SCHEME TO A280 / A27 / TITNORE LANE ROUNDABOUT		SCALE @ A3: 1:500	CHECKED: TW	APPROVED: TW
	A	04.11.16	MC	MINOR AMENDMENTS	TW	TW			FILE REF: ITB9105-GA-024	DRAWN: MC	DATE: 14.07.16
	REV	DATE	BY	DESCRIPTION	CHK	APD	PROJECT:		DRAWING No:		
							LAND SOUTH OF WATER LANE, ANGMERING		RYDON HOMES, GLEESON DEVELOPMENTS LTD		
	STATUS:								PROJECT No:		
	FOR INFORMATION								ITB9105		
								REV: A			

APPENDIX B UPDATED DESIGN DRAWINGS TO REFLECT DESIGNERS RESPONSE



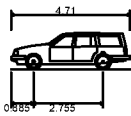
 Grove House, Lutyens Close, Chineham Basingstoke, Hampshire, RG24 8AG Tel: 01256 338640 Fax: 01256 338644 www.i-transport.co.uk		B	12.09.17	MC	UPDATED AS PER STAGE 1 RSA COMMENTS	TW	TW	TITLE: PROPOSED IMPROVEMENT SCHEME TO A280 / A27 / TITNORE LANE ROUNDABOUT		SCALE @ A3: 1:500	CHECKED: TW	APPROVED: TW
		A	04.11.16	MC	MINOR AMENDMENTS	TW	TW			FILE REF: ITB9105-GA-024	DRAWN: MC	DATE: 14.07.16
		REV	DATE	BY	DESCRIPTION	CHK	APD	PROJECT: LAND SOUTH OF WATER LANE, ANGMERING	CLIENT: RYDON HOMES, GLEESON DEVELOPMENTS LTD	DRAWING No: ITB9105-GA-024		
		STATUS: FOR INFORMATION								PROJECT No: ITB9105		

APPENDIX C SWEPT PATH ANALYSIS TO REFLECT LATEST DESIGN



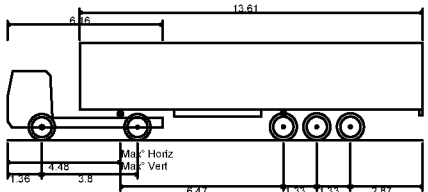
REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. LICENCE No. 100044286 © CROWN COPYRIGHT RESERVED.

DRAWING ISSUED FOR FEASIBILITY CONSIDERATION AND PLANNING PURPOSES ONLY. DRAWING NOT TO BE USED FOR CONSTRUCTION. I-TRANSPORT LLP ACCEPT NO RESPONSIBILITY FOR ERRORS MADE BY OTHERS IN SCALING FROM THIS DRAWING. MEASUREMENTS SHOULD BE TAKEN FROM FIGURED DIMENSIONS ONLY. CDM REQUIREMENTS CONSIDERED AT FEASIBILITY STAGE ONLY. FURTHER CONSIDERATION REQUIRED BY DETAILED DESIGN TEAM.



Estate Car
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Max Track Width
Lock to lock time
Kerb to Kerb Turning Radius

4.710m
1.804m
1.442m
0.207m
1.758m
4.00s
5.950m



FTA Design Articulated Vehicle (1998)
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Max Track Width
Lock to lock time
Kerb to Kerb Turning Radius

16.480m
2.550m
3.870m
0.515m
2.470m
3.00s
6.550m



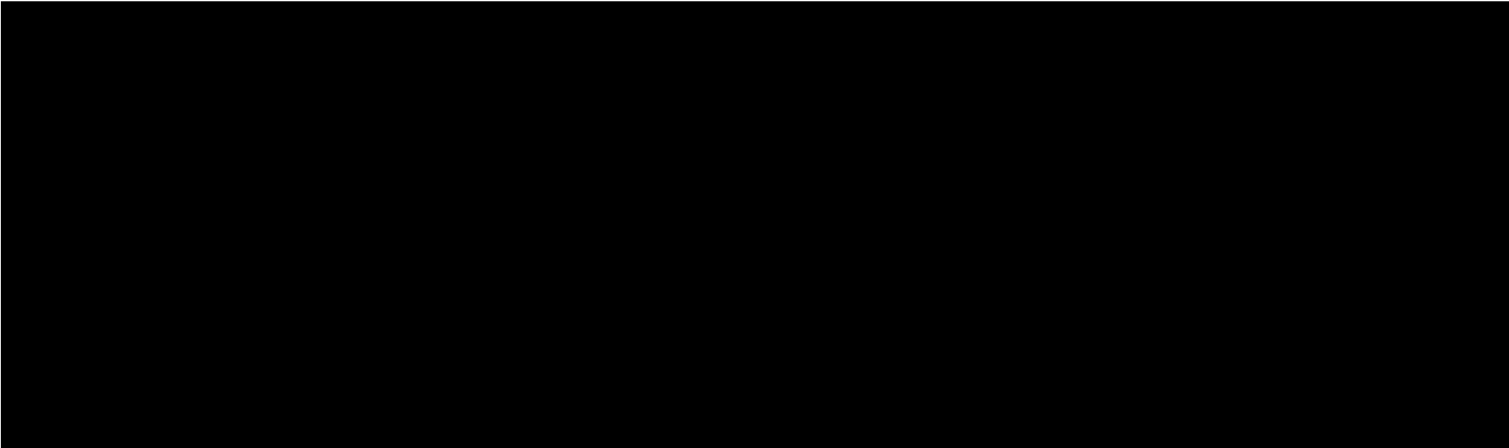
Grove House, Lutyens Close, Chineham
Basingstoke, Hampshire, RG24 8AG

Tel: 01256 338640
Fax: 01256 338644

www.i-transport.co.uk

A	12.09.17	MC	SWEPT PATHS UPDATED	TW	TW
REV	DATE	BY	DESCRIPTION	CHK	APD
STATUS:			ISSUE		

TITLE: SWEPT PATH ANALYSIS - MAX LEGAL ARTICULATED VEHICLE		SCALE @ A2: 1:500	CHECKED: SIH	APPROVED: TW
PROJECT: LAND SOUTH OF WATER LANE, ANGEMERING		FILE REF: ITB9105	DRAWN: AB	DATE: 09.03.17
CLIENT: RYDON HOMES AND GLEESON DEVELOPMENTS LTD		DRAWING No: ITB9105-GA-035		
PROJECT No: ITB9105				REV: A



For the attention of: Mr David Innes

Site: Land South of Water Lane Angmering

Development: Outline application with some matters reserved (Access only) for development up to 175 No. residential dwellings, public open space, play areas with associated infrastructure including roads, drainage & landscaping. This application affects the character & appearance of Angmering Conservation Area & the setting of Listed Buildings. This application is a Departure from the Development Plan.

Planning Application No: A/99/17/OUT

Highways England Ref: HAMIS 77987

Dear David,

Thank you for your consultation of 30 May 2017 regarding the above planning application.

Highways England has been appointed by the Secretary of State for Transport as strategic highway company under the provisions of the Infrastructure Act 2015 and is the highway authority, traffic authority and street authority for the Strategic Road Network (SRN). The SRN is a critical national asset and as such Highways England works to ensure that it operates and is managed in the public interest, both in respect of current activities and needs as well as in providing effective stewardship of its long-term operation and integrity. Highways England will be concerned with proposals that have the potential to impact on the safe and efficient operation of the SRN, in this case the A27.

As part of pre-application discussions with the applicant's transport consultant, Highways England received the attached note reference ITB9105-013 TN. It is noted that this document has not been submitted in support of the planning application. However, on the basis of the note provided, Highways England does not object to the proposed development but recommends that conditions are attached to any planning permission that you may be minded to granted. I attach our formal response in this regard along with the highway improvement drawing related to the condition.

If you need any further information please contact me again.

Kind regards,

David

David Bowie

Highways England | Bridge House | 1 Walnut Tree Close | Guildford | Surrey | GU1 4LZ

A large black rectangular redaction box covering several lines of text.