

Proposed Residential Development
Land north of Hookhams Lane
Salph End
Bedford

Revision 0: June 2018
Report Reference: 248-TA-02-0





Report Originator(s)

Director

Revision Record

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Contents

1.0	Introduction	1
1.1	Planning Context	1
2.0	Site Access	1
3.0	Accident Data	2
3.1	Introduction	2
3.2	Junction 1: Hookhams Lane / Norse Road	2
3.3	Junction 2: Wentworth Drive / Putnoe Lane	3
3.4	Junction 3: A4280 St Neots Road / A4280 Goldington Road / Norse Road	3
3.5	Junction 4: A421 / St Neots Road / A4280	4
3.6	Junction 5: Ravensden Rd / Oldways Rd / Church End	4
3.7	Summary	5
4.0	Traffic Analysis for Junctions	6
4.1	Introduction	6
4.2	Junction 2: Wentworth Drive / Putnoe Lane	6
4.3	Junction 4: A421 / St Neots Road / A4280	6
5.0	Access to Local Amenities	7
5.1	Introduction	7
5.2	Existing footway provision	7
5.3	Village Hall and Renhold Primary School	8
5.4	Nursery	8
5.5	Mark Rutherford Secondary School	8
5.6	Summary	9
6.0	Conclusion	10
6.2	Access	10
6.3	Accident Analysis	10
6.4	Traffic Analysis for Junctions	11
6.5	Access to Local Amenities	. 11





Appendices

Appendix A	A
Highway Authority Objection – 1st June 2020	A
Appendix B	В
Hookhams Lane Access	В
MAC drawing no. 248-TA11C	В
and	В
Ravensden Road Access	В
MAC drawing no. 248-TA12C	B
Appendix C	c
Road Safety Audit: Hookhams Lane	C
Appendix D	D
MAC Transport Assessment (Rev B): Accident Data Review	D
Appendix E	Е
Full Accident Data	E
Appendix F	F
J1: Hookhams Lane / Norse Road: Cycleway Improvements	F
MAC drawing no. 248-TA18	F
Appendix G	G
J5: Ravensden Road / Oldways / Church End: Existing Visibility	G
MAC drawing no. 248-TA16	G
Appendix H	Н
Pedestrian and Cyclist Routes to Key Facilities with Improvements	Н
MAC drawing no. 248-TA03	Н
Appendix I	I
Footway Improvements: Ravensden Road	I
MAC drawing no. 248-TA17	I
Appendix J	J
Footway Improvements – South of 43 Hookhams Lane	

Land off north of Hookhams Lane, Salph End



1.0 Introduction

1.1 Planning Context

- 1.1.1 This Transport Assessment Addendum has been prepared in response to the Local Highway Authority's comments on MAC Transport Assessment (248-TA-01-B, March 2020).
- 1.1.2 The highway authority objection dated 1st June 2020 is enclosed in Appendix A. This Addendum should be read in conjunction with the Transport Assessment.

2.0 Site Access

- 2.1.1 As per the Transport Assessment Revision B, the proposed development will provide two number all movement accesses off Hookhams Lane and Ravensden Road. The proposed accesses are shown on the drawings enclosed in Appendices B.
- 2.1.2 The proposed Hookhams Lane access has been subject to a Stage 1 Road Safety Audit (RSA), see Appendix C. The RSA did not raise any significant concerns which could not be addressed at detailed design stage.
- 2.1.3 A planning application at 27 Hookhams Lane for 14 dwellings, planning reference 18/02496/MAF was recently refused. A new revised planning application, ref 20/00349/MAF, for 13 dwellings was submitted after this planning application for 400 dwellings. Therefore, the adjacent development has no planning status and both developments need to be considered on their own merits.

Land off north of Hookhams Lane, Salph End



3.0 Accident Data

3.1 Introduction

3.1.1 For ease of reference the full Transport Assessment review of the accident data is enclosed in Appendix D with the full data enclosed in Appendix E

3.2 Junction 1: Hookhams Lane / Norse Road

3.2.1 It is highlighted by the LHA that two of the three accidents which occurred during the five-year period involved cyclists, both of which resulted in a slight injury. Details of the accidents involving cyclists are summarised below in Table 3.1.

Table 3.1: Accident Summary - J1 Hookhams Lane / Norse Road

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
313804	Slight	Hookhams Ln - NB	Dry	Cyclist crossed between SB queuing traffic and was obscured by van. Vehicle travelling NB collides with cyclist.
67374	Slight	On Roundabout near Norse Road	Dry	Vehicle pulls out and collides with cyclist on roundabout.

- 3.2.2 Accidents 313804 involved a 12-year-old cyclist who was using the shared footway / cycleway located around the northern side of the roundabout. The accident occurred as the cyclist crossed between stationary traffic and was obscured by a van before stepping into the opposite carriageway which was flowing freely.
- 3.2.3 The second accident (67374) occurred when an 81-year-old driver entered the roundabout failing to see a cyclist who was already on the carriageway. Contributory factors for the driver of the vehicle included 405 Failed to look properly and 505 Illness or disability, mental or physical.
- 3.2.4 Both accidents occurred on different areas of the roundabout both with very different circumstances. This would not indicate that the roundabout is unsafe for use by cyclists.
- 3.2.5 There is off carriageway cyclist provision to the north of the roundabout, but there is no provision to the south of the roundabout. This development will deliver or provide a contribution to fund the provision of a shared footway / cycleway around the entirety of the junction. Details of the extent of the new off carriageway are shown on shown drawing enclosed in Appendix F.

Land off north of Hookhams Lane, Salph End



3.3 Junction 2: Wentworth Drive / Putnoe Lane

3.3.1 It is highlighted by the LHA that two of the three accidents which occurred during the five-year period involved "rear end shunts". Details of all accidents at the junction are summarised below in Table 3.2.

Table 3.2: Accident Summary - J2 Wentworth Drive / Putnoe Lane

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
238382	Slight	Outside 36	Dry	Vehicle is access driveway at roundabout
		Wentworth Drive		and collides with cyclist on pavement.
15BA0577	Slight	On Roundabout	Dry	V2 travelling east makes late decision to
				turn right. V1 travelling west enters
				roundabout and collides with V2
15BA0013	Slight	Wentworth Dr - WB	Dry	V1 stops at roundabout selects reverse and
				drives in to V2. Driver of V1 has +ve breath
				test.

- 3.3.2 None of the accidents at this junction involved a rear end shunt with all three accidents happening in very different circumstances. Of the recorded accidents, one involved a driver who recorded a positive breath test (15BA0013) and reversed into the car behind them, one involved a resident accessing their private property which is accessed off the roundabout (238382) and colliding with a cyclist using the shared footway / cycleway. Only one accident occurred on the carriageway where a vehicle took a late decision to turn right and a vehicle entering the roundabout collided with the vehicle already on the carriageway.
- 3.3.3 As there are no common factors, we would consider that the junction currently operates in a safe manner and no improvements are necessary.

3.4 Junction 3: A4280 St Neots Road / A4280 Goldington Road / Norse Road

3.4.1 One accident involving a cyclist occurred at this location, hence, the highway authority, has requested that the cycle network is improved. From the accident data this incident is described thus:

> "Cyclist 2 was cyclist in front of his cyclist [sic] heading west along A4280 towards roundabout with Norse Road. Veh 1 travelling in same direction overtook Cyclist 2 and came to a stop at red pedestrian traffic signals. As signals changed Cyclist 2 rode up the inside of Veh 1 and both vehicles gained speed. Driver of Veh 1 became annoyed with Cyclist 2 and has pulled to the nearside deliberately squeezing him out. Driver of Veh 1 has then braked hard causing Cyclist 2 to collide into the rear."

Land off north of Hookhams Lane, Salph End



3.4.2 This accident was caused by driver behaviour and was not because of any deficiencies in the highway network. It should also be noted that there a shared footway / cycleway on the north side of the junction and no pedestrian or cyclist provision to the south as there is not a requirement for any. Therefore, there are no requirements

3.5 **Junction 4: A421 / St Neots Road / A4280**

3.5.1 As noted by the highway authority three of the five accidents were due to lose of control. This was noted in the TA which said:

"...three of which involved some form of slight collisions with cars on the opposite carriageway and a fourth involved a broken-down vehicle with police in attendance. The accidents are summarised below in **Error! Reference source not found.** below. Whist there are three accidents which result in a broadly similar accident involving a loss of control in damp conditions and hitting vehicles in the opposite direction, only two are in the same direction, they are of such a low frequency with enough differences to not form a pattern."

- 3.5.2 The developer will commit to the following survey and improvement works to investigate any deficiencies with the A4280 arm of the northern roundabout:
 - Undertaken a survey of the surface including skid resistance to identify any deficiencies.
 - If improvements are required to fund provision of a high friction surface topping.
 - If skid resistance is deemed to be appropriate, the developer will fund a TRO application to reduce the speed limit.
- 3.5.3 The cost of any works will be capped at £10,000.

3.6 Junction 5: Ravensden Rd / Oldways Rd / Church End

- 3.6.1 The highway authority in their response state that the accidents were caused as the junction has "a low visibility". The existing visibility has been reviewed, see drawing enclosed in Appendix G. This shows that visibility splays of 2.4m x 120m can be achieved which are appropriate for the 40mph speed limit of the road.
- 3.6.2 The developer will commit to funding speed surveys to determine the actual speed of vehicles. If speeds are significantly in excess of the 40mph speed limit, then the developer will fund measures up to the value of £10,000 aimed at reducing vehicle speeds in the proximity of this junction.

Land off north of Hookhams Lane, Salph End



3.7 Summary

- 3.7.1 A further analysis of the accident data does not highlight any significant existing issues that would be made significantly worse by the development. However, the following improvements or actions are proposed:
 - J1: Hookhams Lane / Norse Road the development will deliver or provide a
 contribution to fund the provision of a shared footway / cycleway around the
 entirety of the junction, see Appendix F.
 - Junction 4: A421 / St Neots Road / A4280 the development will commit to funding the following survey and improvement works up to a value of £10,000.
 - Undertaken a survey of the surface including skid resistance to identify any deficiencies.
 - If improvements are required to fund provision of a high friction surface topping.
 - If skid resistance is deemed to be appropriate to fund a TRO application to reduce the speed limit.
 - Junction 5: Ravensden Rd / Oldways Rd / Church End the development will commit to funding the following survey and improvement works up to a value of £10,000.
 - The developer will commit to funding speed surveys to determine the actual speed of vehicles. If speeds are significantly in excess of the 40mph speed limit then the developer will fund traffic calming measures at reducing vehicle speeds in the proximity of this junction.

Land off north of Hookhams Lane, Salph End



4.0 Traffic Analysis for Junctions

4.1 Introduction

- 4.1.1 Within the Transport Assessment improvements were proposed to Junctions 2 where the development has a minimal adverse impact and Junction 3. Relatively minor geometric improvements were shown to mitigate the impact of the development on both junctions.
- 4.1.2 The local authority has not raised any objections to the improvements proposed to junction 3. Considering the highways authority's comments requesting \$106 contributions rather than works, the development will provide a contribution of £15,000 In lieu of highway works at this junction.
- 4.1.3 The development was also shown to have a small adverse impact on Junction 6, however, no improvement works are viable as described in full in the Transport Assessment. This approach has been accepted by the highway authority.

4.2 Junction 2: Wentworth Drive / Putnoe Lane

- 4.2.1 During the morning peak period the Wentworth Road (W) arm of the junction is operating over capacity. Without development a maximum RFC value of 0.98 is recorded which is increased by 0.02 to 1.00 as a result of the development. The proposed development will also increase vehicle queue length by 3 from 16 to 19. The impact of the development is small.
- 4.2.2 The small impact is further highlighted by the assessment which shows that minor alterations to the white lining would resolve the capacity issues.
- 4.2.3 It is demonstrated that the impact of the development would be relatively small. As per the highway authority's response dated 1 June 2020 the development will contribute of £5000 to cover the cost of the nil detriment improvements required to offset the impact of the proposed development.

4.3 Junction 4: A421 / St Neots Road / A4280

4.3.1 The assessment of this junction within the Transport Assessment shows that it operates within capacity and no improvement works are proposed.

6

Land off north of Hookhams Lane, Salph End



5.0 Access to Local Amenities

5.1 Introduction

- 5.1.1 A review of the development's accessibility and existing footway and cycleway provision was undertaken within the Transport Assessment. Generally, the existing infrastructure is acceptable for use by new residents of the development.
- 5.1.2 As part of the review of accessibility revision B of the Transport Assessment made a commitment to provide the 'missing' section of footway on Hookhams Lane to the south of the site.
- 5.1.3 However, in their latest response the highway authority is still raising concerns about accessibility to the facilities listed below:
 - Village Hall
 - Pre-school nursery
 - Renhold Primary School
 - Mark Rutherford Secondary School
- 5.1.4 Each of these is assessed below building on the information provided in pervious versions of the Transport Assessment.

5.2 Existing footway provision

- 5.2.1 Salph End and Renhold are characterised by single sided footways which are aften found in more rural locations. Where single sided footway provision is found it is generally provided on the south and west of the carriageway thus providing a continuous link.
- 5.2.2 Footway widths vary but is generally around 1.6m to 1.8m near the site reducing in width towards Renhold through rural areas before increasing in width in Renhold. Within Salph End surface quality is generally good and acceptable further afield. The existing provision is appropriate for use by residents of the new development and would not discourage use of more sustainable forms of transport.
- 5.2.3 In areas of higher demand such as to access the local shop, to the secondary school and towards Bedford the footway provision with improvements is provided on both sides of the carriageway.

Land off north of Hookhams Lane, Salph End



5.3 Village Hall and Renhold Primary School

- 5.3.1 A plan of the walking route is enclosed in Appendix H. This shows that there is a continuous footway connection between the development and both the Village Hall and Renhold Primary School.
- 5.3.2 The footway provision is generally adequate; however, new and improved crossing points are to be provided by the development as listed below. The locations of all proposed improvements are shown on the drawing enclosed in Appendix H.
 - New uncontrolled crossing to be provided across Hookhams Lane, see also TA11C in Appendix H.
 - Tactile paving to be provided to existing Wilden Road crossing near Ravensden Road.
 - Dropped kerb and tactile paving to be provided to improve Brickfield Road crossing.
 - Tactile paving to be provided to existing Church End crossing near Wilden Road.
- 5.3.3 These small improvements will improve accessibility for existing and proposed users. As the development will provide a school demand to Renhold Primary School will be relatively low.

5.4 Nursery

An existing private nursery is located to the north of the site. An existing footway is provided on the opposite side of Ravensden Road which would allow access to the nursery. To remove the requirement to cross Ravensden Road twice a new footway will be provided on the south / west side of Ravensden Road to provide a direct access between the development and the nursery. This new footway is shown on the drawings enclosed in Appendices H and I.

5.5 Mark Rutherford Secondary School

5.5.1 The secondary school is located to the south of the site off Wentworth Road. Without improvements there is a continuous footway connection to the school, although this requires users to cross Hookhams Lane twice. Revision B of the Transport Assessment committed to filling the gap in footway provision so pedestrians would not need to cross Hookhams Lane to access the secondary school. This provision would be acceptable and allow residents of the development to access the secondary school safely.

Land off north of Hookhams Lane, Salph End



- The highway authority maintains their concerns regarding the footway provision. Therefore, further improvements are proposed as follows:
 - Existing footway on Hookhams Lane to the south of the site, see Appendix H, will
 be widening removing the carriageway side verge. This will increase the width as
 far as is reasonable thus improving the walking environment for existing and
 proposed users.
 - The new footway, also on Hookhams Lane to the south (Appendix H and J), will be provided with a minimum width of 2.0m as per the previous Transport Assessment.
 Where feasible this will be increased to 3m width to allow the existing footway / cycleway on Hookhams Lane to be extended to the north.

5.6 Summary

- 5.6.1 The existing network of footways within Salph End is generally appropriate for the users of the proposed development to access local facilities. There are some areas of the network which could be approved. The proposed improvements are as follows:
 - New uncontrolled crossing to be provided across Hookhams Lane, see also TA11C in Appendix H.
 - Tactile paving to be provided to existing Wilden Road crossing near Ravensden Road
 - Dropped kerb and tactile paving to be provided to improve Brickfield Road crossing.
 - Tactile paving to be provided to existing Church End crossing near Wilden Road.
 - New footway adjacent to Ravensden Road connecting with the development with the existing nursey to the north.
 - Existing footway on Hookhams Lane to the south of the site will be widening removing the carriageway side verge.
 - The new footway, also on Hookhams Lane to the south will be provided with a minimum width of 2.0m as per previous Transport Assessment. Where feasible this will be increased to 3m width to allow the existing footway / cycleway on Hookhams Lane to be extended to the north.

Land off north of Hookhams Lane, Salph End



6.0 Conclusion

6.1.1 This Transport Assessment Addendum has been prepared in response to the Local Highway Authority's dated 1st June 2020. This Addendum should be read in conjunction with the Transport Assessment.

6.2 Access

- 6.2.1 As per the Transport Assessment Revision B, the proposed development will provide two number all movement accesses off Hookhams Lane and Ravensden Road.
- A planning application at 27 Hookhams Lane for 14 dwellings, planning reference 18/02496/MAF was recently refused. A new revised planning application, ref 20/00349/MAF, for 13 dwellings was submitted after this planning application for 400 dwellings. Therefore, the adjacent development has no planning status and both developments need to be considered on their own merits.

6.3 Accident Analysis

- 6.3.1 A further review of the accident data has not identified any safety concern which will be made worse by the proposed development. Although the developer will commit to undertaking or funding the following works / investigations:
 - J1: Hookhams Lane / Norse Road the development will deliver or provide a contribution to fund the provision of a shared footway / cycleway around the entirety of the junction, see Appendix F.
 - Junction 4: A421 / St Neots Road / A4280 the development will commit to funding the following survey and improvement works up to a value of £10,000.
 - Undertaken a survey of the surface including skid resistance to identify any deficiencies.
 - If improvements are required to fund provision of a high friction surface topping.
 - If skid resistance is deemed to be appropriate to fund a TRO application to reduce the speed limit.
 - Junction 5: Ravensden Rd / Oldways Rd / Church End the development will commit to funding the following survey and improvement works up to a value of £10,000.
 - The developer will commit to funding speed surveys to determine the actual speed of vehicles. If speeds are significantly in excess of the 40mph speed limit then the developer will fund traffic calming measures at reducing vehicle speeds in the proximity of this junction.

Land off north of Hookhams Lane, Salph End



6.4 Traffic Analysis for Junctions

6.4.1 The adverse impact of the development at all junctions is insignificant. However, nil determinant improvements have been identified for two junctions. Because of the small impact only minor geometric improvements are necessary. The developer will undertake these works or provide a \$106 contribution of £20,000 in lieu of works.

6.5 Access to Local Amenities

- 6.5.1 The existing network of footways within Salph End is generally appropriate for the users of the proposed development to access local facilities. There are some areas of the network which could be approved. The proposed improvements are as follows:
 - New uncontrolled crossing to be provided across Hookhams Lane, see also TA11C in Appendix H.
 - Tactile paving to be provided to existing Wilden Road crossing near Ravensden Road.
 - Dropped kerb and tactile paving to be provided to improve Brickfield Road crossing.
 - Tactile paving to be provided to existing Church End crossing near Wilden Road.
 - New footway adjacent to Ravensden Road connecting with the development with the existing nursey to the north.
 - Existing footway on Hookhams Lane to the south of the site will be widening removing the carriageway side verge.
 - The new footway, also on Hookhams Lane to the south will be provided with a minimum width of 2.0m as per previous Transport Assessment. Where feasible this will be increased to 3m width to allow the existing footway / cycleway on Hookhams Lane to be extended to the north.





Appendix A

Highway Authority Objection – 1st June 2020

Planning DC 4th Floor Borough Hall Highways Officer:

HDC File Ref:

Address: Highways Development

Control 4th Floor Borough Hall

Fax:

Date: 01 June 2020

APPLICATION 19/01974/MAO

NO: 2nd re-

consultation.

PROPOSAL: Outline application with all matters reserved except access for up

to 400 dwellings, land for a new primary school, open space, drainage, footpath improvements and vehicular access via 25

Hookhams Lane

LOCATION: Land Off Hookhams Lane Renhold Bedfordshire

Dear Mr

Thank you for your second re-consultation on the application for the above proposal which we received on 27 May 2020. On behalf of the Highway Authority I make the following comment:

The Transport Assessment has been revised twice with further information and therefore our response is updated. It is confirmed that Highway Development Control objects to the application as the further information has not been able to address the issues raised. Therefore the information below still stands where there is a lack of information about the internal site layout, the traffic impact of the site and the opportunities for sustainable travel to and from the site. This is our final response for this application.

Any further details to our response are added in italics below:

Site Access

Further information was requested about the two site accesses. A Road Safety Assessment was carried out of the Hookhams Lane access and in particular its distance from the proposed access to a residential development at 27 Hookhams Lane. It concluded that the access was not suitable for vehicles to turn into from Hookhams Lane. It has been proposed that the access is used as an exit from the site only but the Road Safety Assessment did not provide data about whether this would be suitable. It is Bedford Borough Council policy for a housing development of 400 dwellings to have 2 x 2 way accesses and therefore the proposal is not acceptable. This in reference to the Highway Development Control Design Guide 1995, page 3.3. As stated previously it would be logical to negotiate the use of the proposed

neighbouring development at 27 Hookham's Lane. Therefore with the above further information Highway Development Control objects to the lack of two suitable accesses to this site.

Further information has been provided with a two way access from Hookham's Lane. In isolation this plan is suitable for a two way access at the planning stage. It is confirmed that the proposed access from Hookham's Lane at no.27 remains a material consideration. It is also stated that the Hookham's Lane access would be the primary access to the site, whereas a balance of traffic between the two accesses is needed.

Internal Layout

Further information was requested as part of the outline application about the internal network of the site. Although it is understood that this is an Outline application, the internal network to include dwellings, internal road and footways and parking is needed to demonstrate that there is sufficient capacity within the site for the proposal. The further information has not provided details of the internal layout and therefore Highway Development Control objects to the lack of information.

No further information has been provided about the internal layout. Therefore our response remains the same with an objection to the lack of information.

Accident data

Further information was provided as requested for the accident history of five junctions near to the site. Although there have been accidents at or near each junction the assessment considers that there is no pattern. For a residential development of this size it is expected that a more detailed assessment of the accident record would be made and any mitigation measures put forward. For example the speed of vehicles and their navigation of the junctions should be assessed. Therefore the further information provided does not provide all of the information needed for a large residential development and therefore Highway Development Control objects to the lack of information.

Further information was provided for Junction 1 Hookham's Lane/Norse Road where there have been three accidents including two cycle accidents but no further measures are considered. At this location we consider that the cycle network needs to be assessed and upgraded.

For Junction 2, Wentworth Drive and Putnoe Lane there have been two rear end shunts for vehicles turning right. It is proposed to adjust the white lines at the junction for vehicles turning right into Putnoe Lane but this change is considered to be small and an assessment of the junction is needed.

For Junction 3, St Neots Road/Goldington Road/Norse Road there has been one cyclist accident. In this location the cycle network needs to be improved as part of improvements to the junction for capacity, see below.

For Junction 4 A421/St Neots Road/A4280 there have been five accidents where three accidents were due to losing control. We consider that this shows that the speed limit and the road surface need to be assessed. There is a footpath around the junction where a shared use cycleway/footpath would assist cyclists at a busy junction.

For Junction 5 Ravensden Road / Oldways / Church End there have been three accidents with one severe which involved right hand turns at the junction. No further measures are put forward. We consider that as the junction has a low visibility and therefore the junction needs to be assessed for an increased use.

For Junction 6, B660, Oldways, Thurleigh Road there were no recorded accidents. For the capacity of the junction see below.

With the further information provided about the accident data it is considered that the response to the accident data for each junction could have considered the evidence and recommended appropriate action. Therefore the Highway Development Control objection due to a lack of information has not changed.

Traffic analysis for junctions

Further information was provided where a manual traffic count took place on 27/11/2020 for 5 junctions near to the site which are in Appendix L of the Transport Assessment. It was found that 3 of the junctions are currently running at an overcapacity level but it was considered that the development would not have a further impact on these junctions. For a residential development of this size an assessment of the junctions running at overcapacity should be made to analyse the issues and to put forward mitigation measures to improve the junctions. The three junctions running at overcapacity are Wentworth Drive/Putnoe Lane, St Neots Road/Goldington Road/Norse Road and B660/Oldways/Thurleigh. Therefore with the further information provided Highway Development Control objects to the lack of information about how to address the overcapacity issues at the nearby junctions.

The most recent further information provides some mitigation for the three junctions which are running at overcapacity.

Junction 2, Wentworth Drive/Putnoe Lane, a small change to the white lines at the mini roundabout junction are proposed to adjust the width of the carriageway. It is considered that this would not assist with the overcapacity of the junction or the right hand turn accidents, see above. For the a development of this size which is likely to have a further impact on this junction, to access local facilities in Bedford, an assessment of the junction and appropriate highway safety measures need to be proposed.

Junction 4 A421/St Neots Road/A4280 is part of the primary network which has significant overcapacity where new development is likely to cause further traffic delays. Bedford Borough Council considers that the junction needs to be upgraded to accommodate any new development in this area. Therefore the proposal to change the white lines of one lane would not make a significant improvement to this junction.

For Junction 6, B660, Oldways, Thurleigh Road, this junction runs at an overcapacity and small measures are proposed but no information is given in the Transport Assessment. The Transport Assessment considers that the junction is too narrow for right hand turn lanes or roundabouts and therefore improvements are limited.

The junction has previously had some safety measures installed with the staggered junction to reduce traffic speeds. There is a high capacity of traffic moving from East to West as a key route for traffic from the North of the Borough to Bedford and back. It is observed that as this junction has been previously improved and due to the space at the junction there is limited scope for improvement, especially as the safety measures need to be kept in place.

Mitigation to address overcapacity and safety of nearby junctions

The further information demonstrates that further measures are needed for the nearby junctions to address overcapacity and safety. For a development for 400 dwellings, Highway Development Control considers that an overall s106 contribution is more suitable for off-site traffic mitigations. This would be for the cost of the minor works to be delivered or as a contribution to any Bedford Borough Council schemes which come forward to address issues at the junctions listed above.

Access to local amenities

Further information was requested about access to local amenities and for the developer to assess and put forward sustainable travel measures such as improved footways, the establishment of cycleways to include access on foot or cycle to local amenities and the regular bus network. Here it was previous stated that the regular bus network is at Norse Road and the bus service at Salph End is considered to be infrequent.

In particular information was requested about access to local amenities within Renhold and Ravensden, such as the village hall and the pre-school nursery. Information was requested about school travel, such as the catchment for the proposed on site school and how children from outside the development would travel to school. It is also important to have current standard walking and cycling links to Mark Rutherford Secondary School and to Renhold Primary School as not all children within the site would attend the on-site school. Further information was also requested about travel to and from the proposed on site sports facility.

The further information received considers that the existing network is sufficient for walking, cycling and bus travel. Where the current provision is for Salph End which is one end of the village of Renhold, it is considered that the infrastructure is not suitable for a new housing development. Therefore Highway Development Control objects to the lack of information with regard to improvements to the walking, cycling and bus network.

The most recent further information received proposes a 2m wide footway to fill in the gap in the existing footway on Hookham's Lane towards Norse Road which is adjacent to the site. This is shown in Appendix X. This does not address the fact the existing footway on Hookham's Lane is substandard in width and has an uneven surface. The whole footway needs to be upgraded for access to mobility scooters and cycles. Therefore access has not been provided to the frequent buses on Norse Road or to the local amenities in Putnoe. This does provide a suitable pedestrian/cycle link to Mark Rutherford Secondary School where the route is also unlit.

The further information suggests that the on-site school would provide provision for pupils from the site or Salph End. As previously stated access by foot/cycle would need to be provided with safe routes to school for the whole of the Renhold parish which has not been shown.

It is stated that there is a footway from the site to Renhold Village Hall. There is a gap in the footway network with no footway leading up to the village hall. The available footway is substandard in width and crosses the road with no pedestrian crossing provision.

It is also stated that there is a footway to the local nursery which is near to the proposed Ravensden Road access. There is no footway adjacent to the site between the

Ravensden Road access and the nursery access which would provide a safe route to the nursery school.

There is no further information about the provision of lighting for the pedestrian routes to amenities within Renhold and therefore they are unlikely to be used for travel after dark and in poor visibility. The network of paths in Renhold are narrow and are substandard for increased use by the development.

Therefore the Highway Development Control objection to the lack of information about sustainable travel links to schools and local amenities remains.

Conclusion

Highway Development Control objects to this application where the further information requested did not fulfil the questions raised about the proposed housing development with school and sports pitches. Therefore Highway Development Control objects for the following reasons:

- There are not 2 x 2 way accesses required for a 400 dwelling site.
- There is a lack of information about the internal layout, the accident record and mitigation, the overcapacity of nearby junctions and their mitigation and access to local amenities and schools via the walking, cycling and bus network.

The most recent information received does not address the points raised as detailed above in italics. Therefore our conclusion of objection to the application remains as above.

Reasons for objection

1RG14 LACK OF INFORMATION

Insufficient information has been provided by the applicant to enable an accurate assessment to be made of the highway safety/traffic impact implications of the development. The application as submitted is therefore contrary to saved Policy 31 of the Bedford Borough Local Plan 2030.

1RG9 ADDITIONAL ACCESS POINTS

The proposed access would increase the number of points at which vehicles enter and leave the public highway. This additional access point would unnecessarily add to the danger and inconvenience inherent in accesses to the highway and would have an adverse effect on road safety and the flow of traffic. The development is therefore contrary to saved Policy 31 of the Bedford Borough Local Plan 2030.

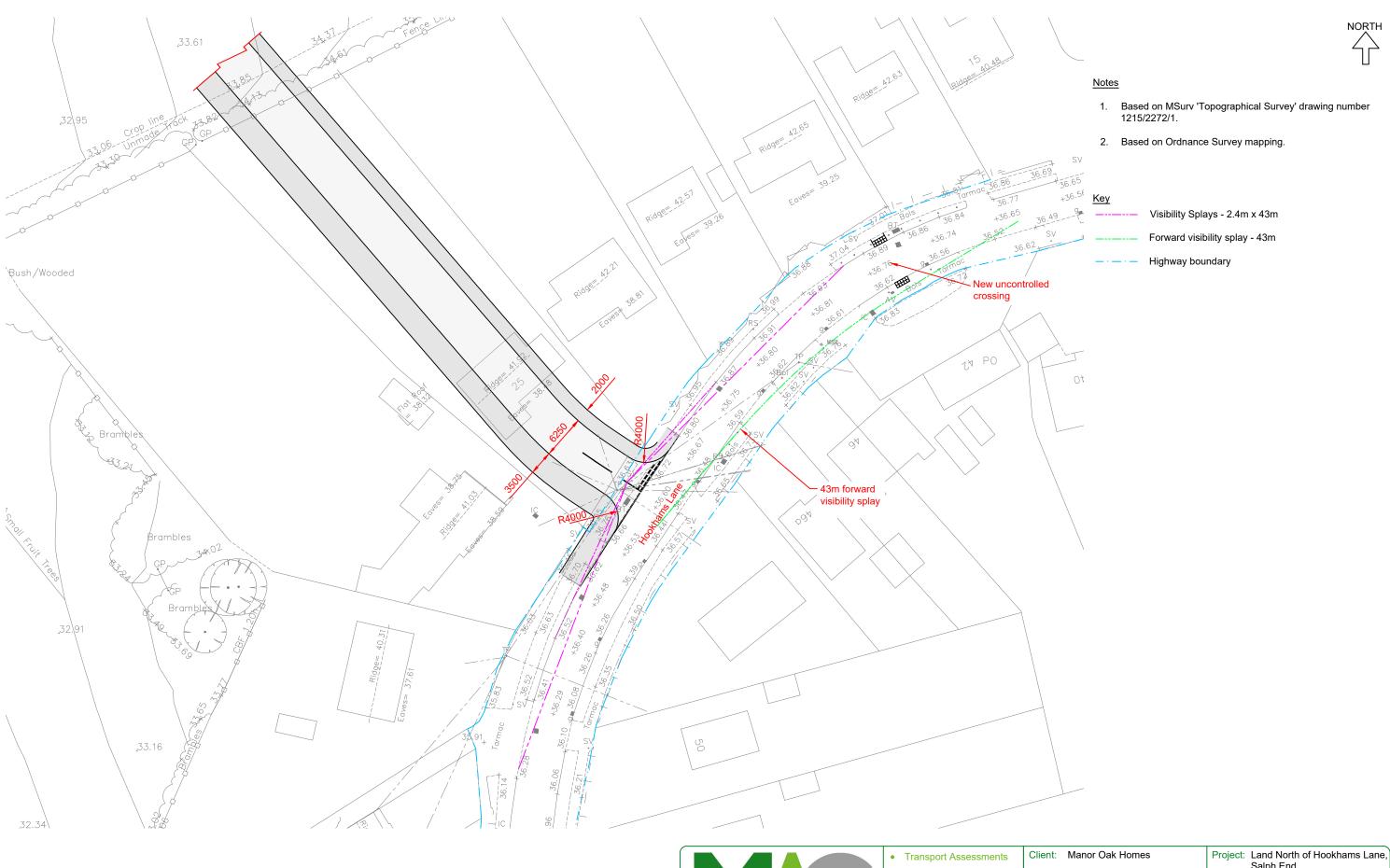
Regards



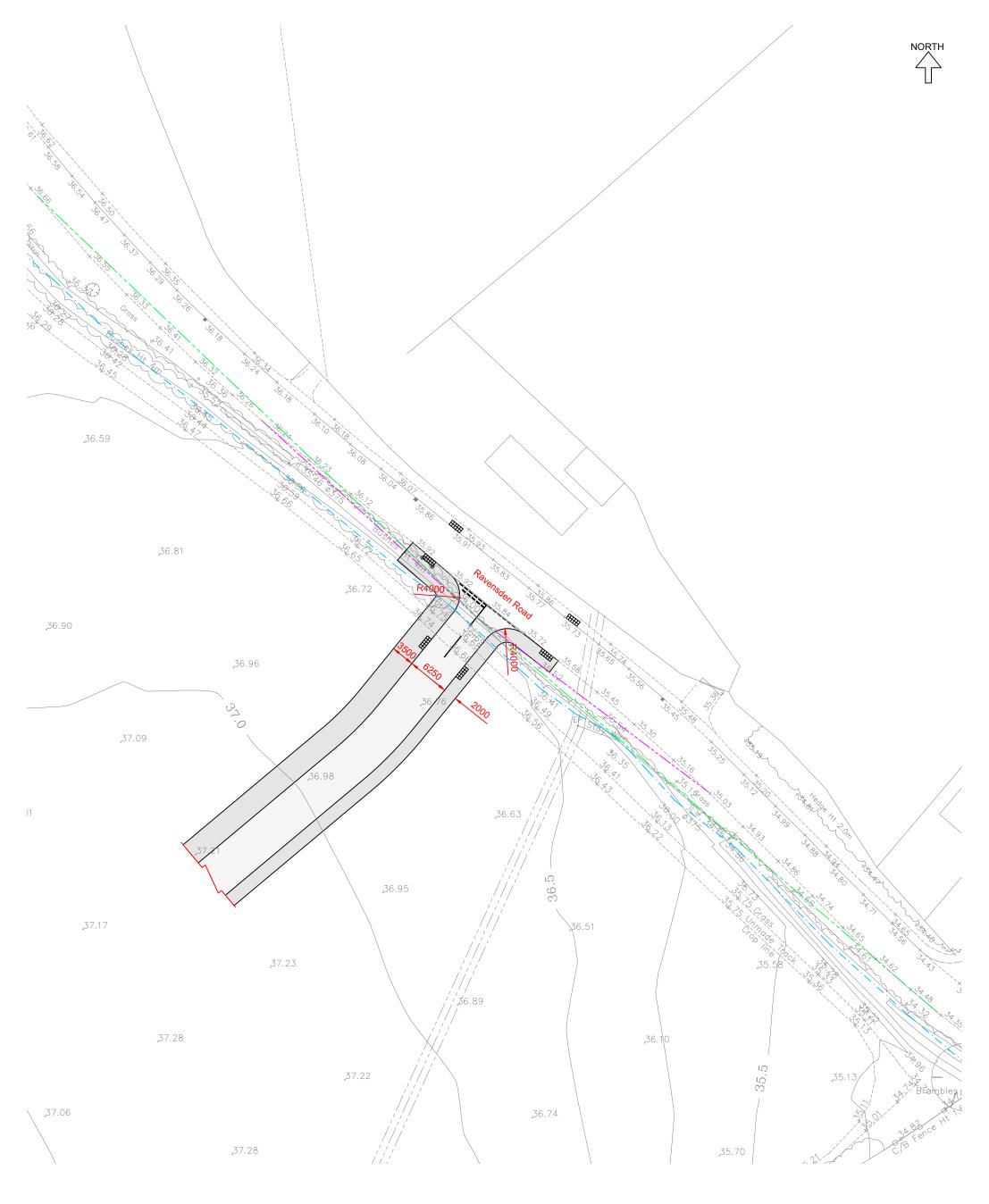


Appendix B

Hookhams Lane Access
MAC drawing no. 248-TA11C
and
Ravensden Road Access
MAC drawing no. 248-TA12C







Notes

- Based on MSurv 'Topographical Survey' drawing number 1215/2272/1.
- 2. Based on Ordnance Survey mapping.

Key

Visibility Splays - 2.4m x 43m
Visibility Splays - 2.4m x 90m
Highway Boundary



- Transport Assessments
 Fleed Bigly Assessments
- Flood Risk Assessments
- Highway Advice
- Access Design
- Drainage Strategies

Vehicle tracking

Client:	Manor Oak Homes	Project: Land North of Hookhams Lane Salph End
Title.	Davis and David Assess	D. t. 40/04/00
Title:	Ravensden Road Access	Date: 19/01/20

itle: Ravensden Road Access

Date: 19/01

Drw: MJA

Chk: MJA

Drawing No: 248-TA11





Appendix C

Road Safety Audit: Hookhams Lane





(Drawing No. 248-TA11)

Road Safety Audit Stage 1

on behalf of Martin Andrews Consulting Ltd (Manor Oak Homes)

TMS reference no: 15386

Date: 9th December 2019









Land North of Hookhams Lane, Renhold Lane, Bedford

Drawing No. 248-TA11

Road Safety Audit Stage 1

1. Introduction

- 1.1 This report describes a Stage 1 Road Safety Audit carried out on a proposed priority junction at Land North of Hookhams Lane, Renhold, Bedford, on behalf of Martin Andrews Consulting Ltd (Manor Oak Homes). This audit relates to drawing number 248-TA11. The audit was carried out on 9th December 2019 in the offices of TMS Consultancy.
- 1.2 The audit team members were as follows:

Audit Team Leader



- The audit comprised an examination of the documents listed in 1.3 Appendix A.
- The site was visited by the Audit Team on 9th December 2019 at 11.25 1.4 am. The weather was fine and dry. Traffic flows were very light. No pedestrian and cycle flows were observed.
- 1.5 The terms of reference of the Road Safety Audit are as described in GG 119 (GG 119 superseded HD 19/15 in November 2018). The team has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the design to any other criteria.
- 1.6 All of the problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise collision occurrence.

- 1.7 A scheme drawing is included in **Appendix B**, where the locations of specific problems are referenced. A location plan of the scheme is also included in this Appendix.
- 1.8 The scheme consists of proposed priority junction access for land at 25 Hookhams Lane, Renhold, Bedford consisting of 400 dwellings and a two-form entry Primary School.

1.9 Road Safety Audit Response Report

Following the completion of the road safety audit, the design team should prepare a road safety audit response report in collaboration with the Overseeing Organisation.

The response report should incorporate the following:

- **Decision Log** spreadsheet, where each Problem and Recommendation in the Safety Audit report is reiterated
- In the Decision Log, a response should be provided by the Design Team and Overseeing Organisation for each problem raised in the RSA report, together with an agreed action

Further information is provided in **GG 119 Sections 4.11 to 4.19** and **Appendix F** (where a road safety audit response report template is available).

The response report should be produced and finalised within *one month* of the issue of the RSA report. A copy of the response report should be issued to the Safety Audit Team for information.

Road Safety Audit Stage 1

2. Items resulting from this Stage 1 Audit

2.1 PROBLEM

Location – Hookhams Lane; site access junction

Summary: Potential darkness related vehicle collisions

There is no existing street lighting within the vicinity of the proposed site access at No. 25 Hookhams Lane. Given the introduction of the junction and a significant amount of additional traffic (and new turning manoeuvres), the lack of illumination may increase the potential for darkness related vehicle collisions.

RECOMMENDATION

At the detailed design stage, the site access junction should be illuminated.

2.2 PROBLEM

Location - Hookhams Lane

Summary: Potential trip hazard to pedestrians

There are shops on the south side of Hookhams Lane within the vicinity of the proposed site access junction, which is likely to introduce a pedestrian desire line to and from the development. Pedestrians wishing to cross Hookhams Lane will have to do so via full height kerbs, which may be a potential trip hazard to pedestrians, particularly to those with visual and mobility impairments.

RECOMMENDATION

At the detailed design stage, an uncontrolled pedestrian crossing point with dropped kerbs and tactile paving should be provided across Hookhams Lane adjacent to the site access junction.

Also, at the detailed design stage, an uncontrolled pedestrian crossing should be provided across the site access road adjacent to the junction with Hookhams Lane.



2.3 OTHER ISSUE

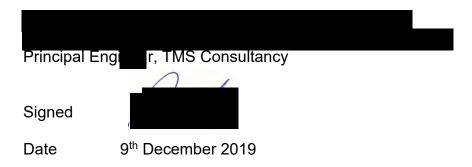
There is an existing BT cover and telegraph pole within the footway that will both be located within the proposed junction area. At the detailed design stage, both the service cover and telegraph poles should be appropriately relocated out of the carriageway into the footway.



Audit Team Statement 3.

We certify that the terms of reference of the road safety audit are as described in GG 119 (formerly HD 19/15).

Audit Team Leader



Audit Team Member



TMS Consultancy

Unit 1b, Sovereign Court 2, University of Warwick Science Park Sir William Lyons Road Coventry, CV4 7EZ

+ 44 (0)24 7669 0900 info@tmsconsultancy.co.uk \bowtie www.tmsconsultancy.co.uk



Appendix A

Documents Examined:

- 248-TA13-Hookhams Access--Both Accesses.pdf
- Salph End ACCIDENT PLAN.pdf
- Salph End ACCIDENT REPORTS.pdf
- 18+02496+MAF+V13-Transport Statement.pdf
- 18+02496+MAF+V26..pdf
- 18+02496+MAF+V26A..pdf
- 18+02496+MAF+V27..pdf
- 248-TA-01-0-Salph End.pdf
- 248-TA01A-Location Plan.pdf
- 248-TA11A-No. 25 Hookhams Lane Access Option 1.pdf

Other Information Provided:

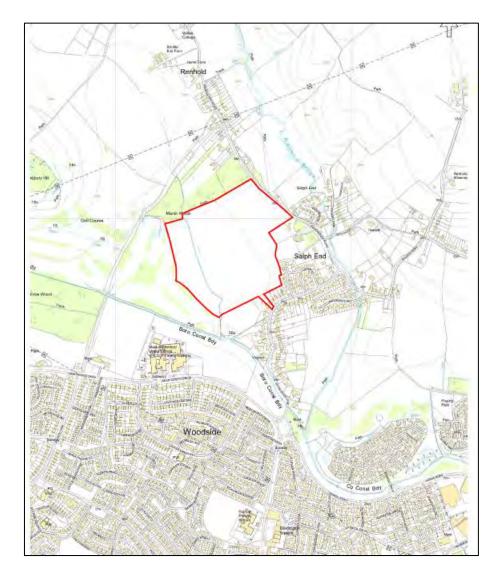
RSA1 - Checklist of Information Required.docx



Appendix B

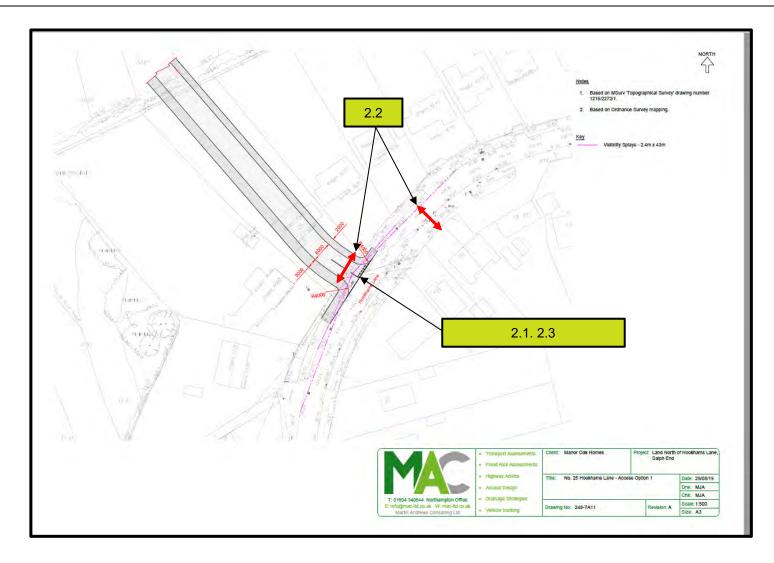
Please refer to the following page for a plan illustrating the locations of the problems identified as part of this audit (location numbers refer to paragraph numbers in the report).

The location of the scheme is shown below:



Client: Martin Andrews Consulting Ltd (Manor Oak Homes)

Scheme: Land North of Hookhams Lane, Renhold, Bedford







Appendix D

MAC Transport Assessment (Rev B): Accident Data Review



3.4 Accident Data

- 3.4.1 Accident data has been obtained from the local highway authority. The first issue of the Transport Assessment included an accident search comprising Ravensden Road, Hookhams Lane and the Norse Road roundabout. This data covered the most recent 5 year period available at the time from 19 May 2014 to 18 May 2019-. A copy of the accident data is enclosed in Appendix F.
- 3.4.2 This showed that there had been no accidents on Hookhams Lane or Ravensden Road during this 5 year period.
- 3.4.3 At Junction 1 Hookhams Lane / Norse Road roundabout there have been two recorded slight accidents and one serious accident. The accidents are summarised below in Table 3.5 below. A review of the basic facts shows that all three accidents occurred in different locations and under different circumstances. There are not any common causes for the accidents.

Table 3.5: Accident Summary - J1 Hookhams Lane / Norse Road

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
313804	Slight	Hookhams Ln - NB	Dry	Cyclist crossed between SB queuing traffic and was obscured by van. Vehicle travelling NB collides with cyclist.
67374	Slight	On Roundabout near Norse Road	Dry	Vehicle pulls out and collides with cyclist on roundabout.
112248	Serious	Norse Road - WB	Dry	Car left carriageway no other vehicles involved. Tiredness / Illness listed as contributory factor

- 3.4.4 Accident data for the remaining junctions was obtained at a later date at the request of Bedford Borough Council. This accident data covers the period 10 October 2014 to 9 October 2019.
- 3.4.5 At Junction 2 Wentworth Drive / Putnoe Lane there have been three recorded slight accidents. One slight accident occurred on Wentworth Road east arm with two accidents recorded on the circulatory carriageway. The accidents are summarised below in Table 3.6 below. A review of the basic facts shows that all three accidents occurred in different locations and under different circumstances. There are not any common causes for the accidents.

Table 3.6: Accident Summary - J2 Wentworth Drive / Putnoe Lane

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
238382	Slight	Outside 36 Wentworth Drive	Dry	Vehicle is access driveway at roundabout and collides with cyclist on pavement.
15BA0577	Slight	On Roundabout	Dry	V2 travelling east makes late decision to turn right. V1 travelling west enters roundabout and collides with V2



15BA0013	Slight	Wentworth Dr - WB	Dry	V1 stops at roundabout selects reverse and drives in to V2. Driver of V2 has +ve breath
				test.

3.4.6 At Junction 3 A4280 St Neots Road / A4280 Goldington Road / Norse Road there have been no recorded accidents. On the Goldington Road approach there has been a single accident. The accident is summarised below in Table 3.7 below. As there is only a single accident there are an no common causes to review.

Table 3.7: Accident Summary - J3 A4280 St Neots Rd / A4280 Goldington Rd / Norse Rd

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
70704	Serious	St Neots Rd, 75m east of junction WB	Dry	Aggressive driving by car causes crash with cyclist.

3.4.7 At Junction 4 A421 / St Neots Road / A4280 northern roundabout there are five recorded slight injury accidents. Four of which have occurred on the A4280 arm, three of which involved some form of slight collisions with cars on the opposite carriageway and a fourth involved a broken-down vehicle with police in attendance. The accidents are summarised below in Table 3.8 below. Whist there are three accidents which result in a broadly similar accident involving a loss of control in damp conditions and hitting vehicles in the opposite direction, only two are in the same direction, they are of such a low frequency with enough differences to not form a pattern.

Table 3.8: Accident Summary - J4 A421 / St Neots Road / A4280 northern roundabout

Reference	Severity	Location / Direction of travel	Dry / Wet	Description
14BA1259	Slight	A4280 St Neots Rd NW	Wet	V2 sees police car about to enter roundabout on an emergency call and brakes. V1 collides into rear of V2.
235061	Slight	A4280 St Neots Rd - SW	Wet	V1 lost control in damp conditions and collided with V2 travelling in opposite direction. Contributory factors – swerved and aggressive driving V1
337716	Slight	A4280 St Neots Rd - SW	Wet	V2 exiting roundabout collides with V1 on opposite side of the carriageway
802367	Slight	A4280 St Neots Rd - NE	Wet	V4 police car had stopped on side of road, helping a broken down vehicle. V3 slowed on opposite side of carriage way after seeing blue lights but did not notice v2 had pulled over and stopped. V3 collided with v2, pushing it into the rear of v1.
80273	Slight	A4280 St Neots Rd - NE	Wet	V1 loses control has possibly mis-judged the carriageway and junction and has then collided with the V2 travelling in opposite direction.



3.4.8 At Junction 4 A421 / St Neots Road / A4280 southern roundabout there are three recorded slight injury accidents. All three accidents are shut type. The accidents are summarised below in Table 3.8 below. Three shunt accidents at a junction of this type with the volume of traffic is not unexpected over a five year period.

Table 3.9: Accident Summary - J4 A421 / St Neots Road / A4280 southern roundabout

Reference	Severity	Location / Direction	Dry/	Description
		of travel	Wet	
14BA0998	Slight	A421 Westbound	Dry	V1 a motorcycle travelling too close to V2
		Entry Slip		and collides into the rear of V1.
15BA0259	Slight	A421 Exit slip - SW	Dry	V2 trav SW, stops at the end of the slip road, waiting to enter rdbt and is struck from behind by V1.
167994	Slight	A4280 St Neots Rd - SW	Dry	V2 trav SW, stops at the end of the slip road, waiting to enter rdbt and is struck from behind by V1.

3.4.9 At Junction 5 Ravensden Rd / Oldways Rd / Church End there have been two recorded slight injury accidents and a single serious accident. The accidents are summarised below in Table 3.10 below. Two accidents, including the serious accident, involved vehicles waiting to turn right onto Church End and failing to see an approaching vehicle. Whilst the third accident involved someone turning right from Church End and again failing to see a vehicle. The type of accidents are as would be expected with a junction of this type in this location. The proposed development is not expected to result in a significant adverse impact.

Table 3.10: Accident Summary - J5 Ravensden Rd / Oldways Rd / Church End t

Reference	Severity	Location / Direction	Dry /	Description
		of travel	Wet	
14BA1304	Serious	Ravensden Rd - NW	Wet	V1 travelling NW turns right across path of
				V2. V2 collides with V1.
15BA0669	Slight	Church End - SW	Dry	V1 turns right onto Oldways and strikes V2
				travelling SE.
249935	Slight	Ravensden Rd - NW	Wet	V1 travelling NW turns right across path of
				V2. V2 collides with V1.

- 3.4.10 At Junction 6 B660 / Oldways Rd / Thurleigh Rd there were no recorded accidents.
- 3.4.11 The accident data review has not identified any areas of concern. Therefore, the proposed development is not expected to have an adverse impact on the operation safety of the local junctions.

Land off north of Hookhams Lane, Salph End



Appendix EFull Accident Data

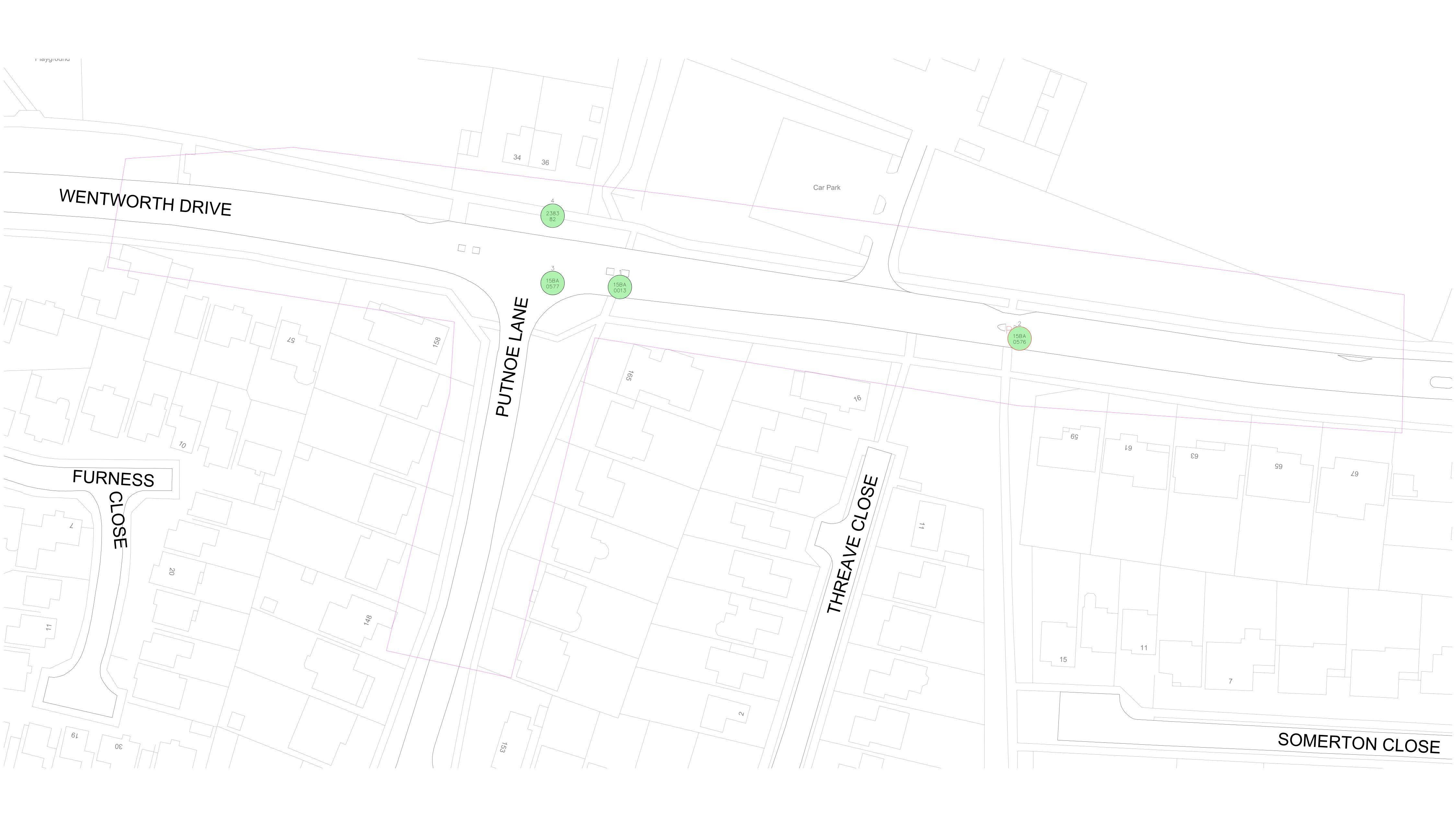
Ε



Accident Date BETWEEN '19-May-2014' AND '18-May-2019'

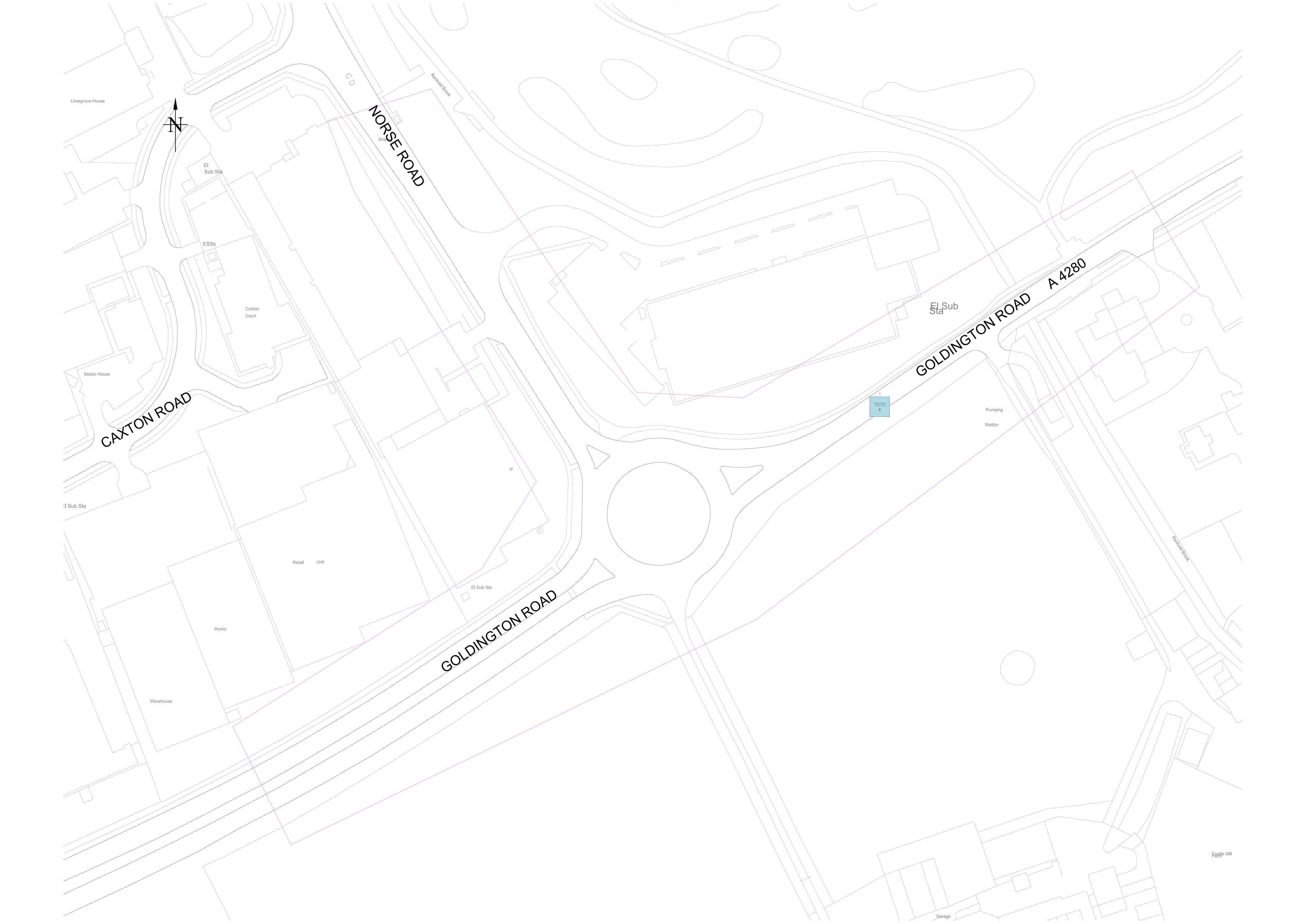
No. Area	L/A	Reference	Severity	Day	Date	Time	Grid Coords	Link/No	de Street		
1	E06000055	112248	Serious	Tuesday	13/09/2016	23:08	507760/2520	80			
Location: Rd: C40	NORSE ROAD U	JNSPECIFIED RO	OAD OR LOC	ATION 10	METRES SOUTH	OF JUNCTIO	ON WITH CHURCH	LANE C40 1s	st Rd: U0 21	nd	
•	C'Way Roundabout	Jct Det/Ctrl R'dabt Give	Lighting Dark/lig	hts lit	Weather Fine	Rd Surf Dry	PedX - Huma None	n - Phy Fac Refuge	Special None	Haza : None	
eh Vehic	le type Towi	ng Manoeuvre	Dir Ve	h loc	Junct. loc	Skidding	Hit obj in 1	Left cway I	Hit obj off	Sex Ag	re B/T
l Car	No	Lt hand ber	nd SE NW Or	main	Junt appr	No	None	Offside	Tree	Female 7	0 N/F
-	Drv/Ri Passen on: V1 has be	der Fema ger Male	le 70 S 76 S along No.		No No Front No heading towar		Ped Movement Not ped Not ped oout on Church	Not ped Not ped	Othe Othe as left the	er	
ser Info	rmation:				Contributory	Factors: 50	03V001B 505V00	1B			
	E06000055	14BA0537	Slight		ay 11/06/2014		507560/2522				
	Uc Wentworth C'Way	n Drive Metre Jct Det/Ctrl	es Uc Dove Lighting	r Crescer	ut, Bedford, E Weather	Rd Surf	re 1st Rd: U 2r PedX - Huma		c Special	Haza	nd
-	Roundabout	Mini-R Give	Daylight		Fine	Dry	None	None	None	None	
eh Vehic	le type Towi	ng Manoeuvre	Dir Ve	h loc	Junct. loc	Skidding	Hit obj in	Left cway I	Hit obj off	Sex Ag	ge B/T
1 Bus or		Right turn		main	Mid junction		None		None		1 -ve
2 Car	No	Going ahead		main	Mid junction		None		None	Female 3	7 -ve
s No Veh 2	ref Cas Cla		-	Severity Slight	No No	Direction t ped	Ped Movement Not ped	Ped locat Not ped	cion Scho	ool Pupil er	
escripti	on: V2 Trav W	Jest onto Rdbt	. V1 a Bu	s, Trav N	orth, turning	right at	Rdbt, Fails to	o Give Way t	to V2 and		
ser Info					Contributory		05V001A				
	E06000055	313804	Slight	Friday	29/06/2018	08:08	507721/2521	78			
ocation:	HOOKHAMS LAN	NE 1st Rd: U 2	-	-							
-	C'Way	Jct Det/Ctrl	Lighting		Weather Fine	Rd Surf	PedX - Huma	n - Phy Fac	c Special	Haza	
omrn eh Vehic	Single c'way le type Towi	ng Manoeuvre	Daylight Dir Ve	h loc	Junct. loc	Dry Skidding			None Hit obj off	None Sex Ac	је В/Т
1 Car	No	Going ahead		main	Not at	No	None	<u>-</u>	None	_	6 N/R
2 Pedal		Start		main	Not at	No	None		None		2 N/A
s No Veh	ref Cas Cl	ass Sex	Age S	Severity	Car Pass Ped	Direction	Ped Movement	Ped locat	tion Scho	ool Pupil	
2	Drv/Ri	der Male	12 5	Slight	No No	t ped	Not ped	Not ped	Oth	er	
raffic v ookhams as a sho	where a pedes Lane, a 12 y ort period of nitting his h	trian crossin ear old male	g over the on a bicyo t managing	e road ha	s been covere has come out e but has col	d by a whi from behin lided with	te van. As V1 d the van into the male caus	has been drother to the road.	iving down Driver of	V1	
ocation:	E06000055 NORSE ROAD U	67374 JNSPECIFIED RO	Slight DAD OR LOC	Monday ATION CHU	02/05/2016 URCH LANE C40		507746/2520 2nd Rd: C40	96			
	C'Way Roundabout	Jct Det/Ctrl R'dabt Give	Lighting Daylight		Weather Fine	Rd Surf Dry	PedX - Huma None	n - Phy Fac Refuge	c Special	Haza : None	
eh Vehic	le type Towi	ng Manoeuvre	Dir Ve	h loc	Junct. loc	Skidding	Hit obj in 1	Left cway I	Hit obj off	Sex Ag	ge B/T
1 Car	No	Going ahead	d NW SE Or	main	Leave r'abou	ıt No	None		None	Male 8	1 -ve
2 Pedal	Cycle No	Going ahead	d NS Or	main	Mid junction	n No	None		None	Male 3	7 N/A
s No Veh	ref Cas Cla		_	Severity Slight	Car Pass Ped	Direction t ped	Ped Movement Not ped	Ped locat Not ped	cion Scho	ool Pupil er	
travellir	ng eastbound I to pull off	from Wentwort	h Drive to	Norse R	oad. V2 was c tly into v2's	oming past path caus	Lane round the the Norse Roating him to fai	ad junction, ll off into	as v1		

Full Report 18-July-2019 1

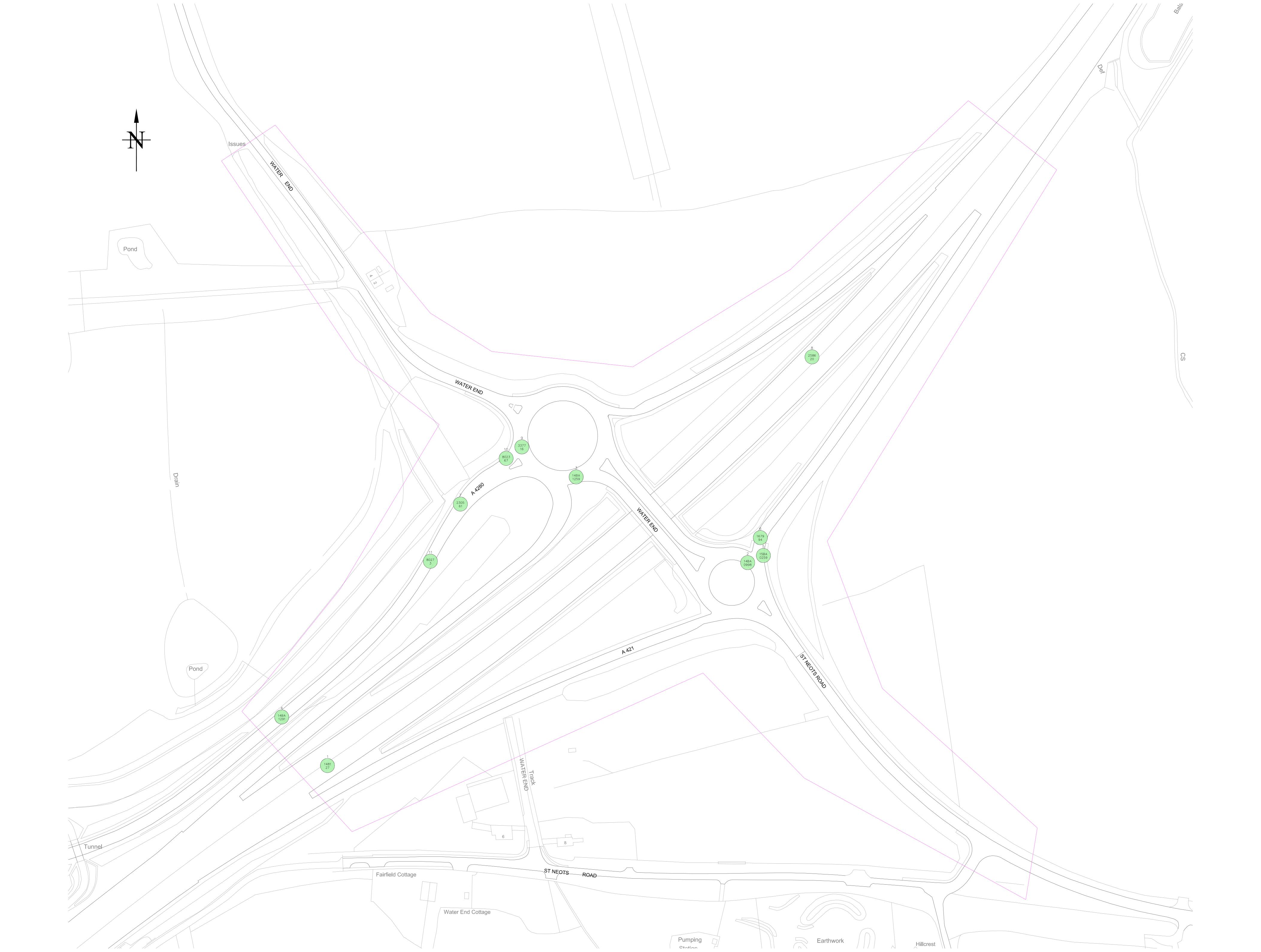


No. Area	a L/A		Reference	Severit	y Day	Date	Time	Grid Coords	Link/Node	Street			
1	E06000	0055	15BA0013	Slight	Saturd	ay 10/01/201	L5 17:13	506862/252331					
Location	: Uc Wer	ntworth	Drive 10 M	etres Eas	t of Uc Pu	tnoe Lane, Be	edford, Bedi	fordshire 1st Rd	U 2nd Rd:	U			
speed	C'Way	J	Jct Det/Ctrl	Lighti	ng	Weather	Rd Surf	PedX - Human	- Phy Fac	Special	1	Hazard	
30 MPH	Single	c'way 1	R'dabt Give	e Dark/l	ights lit	Fine Wind	Dry	None	Refuge	None		None	
Veh Vehic	cle type	Towing	g Manoeuvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in Lei	ft cway Hi	t obj off	Sex	Age	B/I
1 Car		No	Reversing	WE	On main	Junt appr	No	None	N	one	Male	39	+ve
2 Car		No	Waiting	E W	On main	Junt appr	No	None	N	one	Male	20	-ve
as No Vel	h ref	Cas Clas	ss Sex	Age	Severity	Car Pass Pe	ed Direction	Ped Movement	Ped locati	on Sch	ool Pup	il	
1 1		Drv/Rid	ler Mal	.e 39	Slight	No N	lot ped	Not ped	Not ped	Oth	er		
V1 Stops Shortly	at Rdb After.	t and t		Reverse	and Collid	des into Fron	nt of V2. V1	gs Back Owing to Drives off Fai	ling to Stop				
User Info	ormation	:				Contributory	y Factors: 50)1V001A 601V001A					
2	E06000	0055	15BA0576	Slight	Monday	22/06/201	15:04	506963/252318					
Location	: Unclas	ssified	Road WENTW	=	=			ordshire 1st Rd					
Speed	C'Way	J	Jct Det/Ctrl	Lighti	ng	Weather	Rd Surf	PedX - Human	- Phy Fac	Special	1	Hazard	
30 MPH		c'way 1		Daylig	-	Fine	Dry	None	Refuge	None		None	
Veh Vehic	cle type	Towing	g Manoeuvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in Lei	ft cway Hi	t obj off	Sex	Age	в/1
1 Car		No	Going ahea	ad E W	On main	Not at	No	None	N	one	Male	43	-ve
as No Vel	h ref	Cas Clas	ss Sex	Age	Severity	Car Pass Pe	ed Direction	Ped Movement	Ped locati	on Sch	ool Pup	.i 1	
1 1		Pedestr		nale 14	Slight		South	Offside	Ped x'ing	Yes	oor rup		
3	E06000		15BA0577 Road WENTW	Slight	Tuesday	•		506845/252332 Led Road PUTNOE		RD,			
3 Location: Bedfords Speed	: Unclas hire 1s C'Way	ssified t Rd: U J	Road WENTWo 2nd Rd: U Jct Det/Ctrl	ORTH DRIV	E, at its	Junction with		506845/252332 ed Road PUTNOE PedX - Human	LANE, BEDFO	Special	1	Hazard	
3 Location: Bedfords Speed 30 MPH	: Unclas hire 1s C'Way Roundak	ssified t Rd: U Joout 1	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give	DRTH DRIV. Lighting Daylig	E, at its ng ht	Junction with Weather Fine	h Unclassifi Rd Surf Dry	PedX - Human None	LANE, BEDFO - Phy Fac Refuge	Special None		None	
3 Location: Bedfords Speed 30 MPH Veh Vehice	: Unclas hire 1s C'Way Roundak	ssified t Rd: U Joout 1	Road WENTW 2nd Rd: U Jct Det/Ctrl Mini-R Give g Manoeuvre	DRTH DRIV Lighti Daylig Dir	E, at its ng ht Veh loc	Junction with Weather Fine Junct. loc	Rd Surf Dry Skidding	PedX - Human None Hit obj in Let	LANE, BEDFO - Phy Fac Refuge Ft cway Hi	Special None t obj off	Sex	None Age	в/1
3 Location: Bedfords Speed 30 MPH Veh Vehic	: Unclas hire 1s C'Way Roundak	t Rd: U pout 1 Towing	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give g Manoeuvre Going ahea	DRTH DRIV	E, at its ng ht Veh loc On main	Weather Fine Junction with	h Unclassifi Rd Surf Dry Skidding on No	PedX - Human None Hit obj in Les	LANE, BEDFO - Phy Fac Refuge ft cway Hi N	Special None t obj off	Sex Femal	None Age e 78	B/1
Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car	: Unclas hire 1s C'Way Roundak	ssified t Rd: U Doout 1 Towing No No	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn	DRTH DRIV Lighti: Daylig Dir ad E W	E, at its ng ht Veh loc	Weather Fine Junct. loc Mid junction	Rd Surf Dry Skidding on No on No	PedX - Human None Hit obj in Let	LANE, BEDFO - Phy Fac Refuge ft cway Hi N	Special None t obj off	Sex Femal	None Age	B/T
3 Location Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel	: Unclas thire 1s C'Way Roundak cle type	ssified t Rd: U pout 1 Towing No No No Cas Class	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn ss Sex	Lighti: Daylig Dir ad E W M S Age	e, at its ng ht Veh loc On main On main Severity	Weather Fine Junct. loc Mid junction Mid junction Mid junction Car Pass	Rd Surf Dry Skidding on No on No ed Direction	PedX - Human None Hit obj in Les None None Ped Movement	LANE, BEDFO - Phy Fac Refuge ft cway Hi N Ped locati	Special None t obj off one on Scho	Sex Femal Femal	None	B/T
3 Location Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel 1 1	: Unclas hire 1s C'Way Roundak cle type	t Rd: U Doout N Towing No No Cas Clas	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give g Manoeuvre Going ahea Right turn ss Sex ler Fen	Lighti: Daylig Dir ad E W N S Age walle 78	e, at its ng ht Veh loc On main On main Severity Slight	Weather Fine Junct. loc Mid junction Mid junction Mid junction Car Pass Pe	Rd Surf Dry Skidding on No on No ed Direction lot ped	PedX - Human None Hit obj in Lei None None Ped Movement Not ped	LANE, BEDFO - Phy Fac Refuge ft cway Hi N Ped locati Not ped	Special None t obj off one one on Sch	Sex Femal Femal col Pup	None	B/T
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Jacation: Bedfords Speed John Veh Vehic Car Car Show Vel Car Show Vel Car Location: Speed Jacation: Speed Jacation: Speed Jacation: Speed Jacation: Speed Jacation: Ja	: Unclass thire 1s C'Way Roundak cle type in ref	ssified t Rd: U Dout 1 Towing No No Cas Clas Drv/Rid Drv/Rid TRAV EA DO55 DE NO 36	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn ss Sex Her Fen Ler Fen 238382 5 WENTWORTH Mini-R Give	Lighti: Daylig Dir ad E W n W S Age nale 78 A LATE DEG Slight DRIVE AT Lighti: Daylig	E, at its ng ht Veh loc On main On main Severity Slight Slight CISION TO Tuesda; JN WITH P	Weather Fine Junct. loc Mid junction Mid jun	Rd Surf Dry Skidding on No on No ed Direction Not ped Not ped FRDBT JUNC. Factors: 40 17 16:20 st Rd: U 2nd Rd Surf Dry	PedX - Human None Hit obj in Let None None Ped Movement Not ped Not ped V1 TRAV WEST, 106V001A 403V002A 506845/252349 Rd: U PedX - Human None	- Phy Fac Refuge Ft cway Hi N Ped locati Not ped Not ped ENTERS RDBT - Phy Fac Refuge	Special None t obj off One One Oth Oth AND COLI	Sex Femal Femal cool Pup er er LIDES	None Age e 78 e 74 il	B/I -ve -ve
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3 Location: Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel 1 1 1 2 2 Descript: WITH V2. User Info Location: Speed 30 MPH Veh Vehic 1 Car	E Unclass thire 1s C'Way Roundak cle type h ref E06000 C'Way Roundak cle type	ssified t Rd: U Dout 1 Towing No No Cas Clas Drv/Rid Drv/Rid TRAV EA .: DO55 DE NO 36 DOUT 1 Towing No	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn ss Sex Her Fen Her Fen LST, MAKES A 238382 WENTWORTH Jot Det/Ctrl Mini-R Give G Manoeuvre Going ahea	Lighti: Daylig Dir ad E W Age Aller 78 Aller 74 A LATE DEC Slight DRIVE AT Lighti: Daylig Dir ad S N	E, at its ng ht Veh loc On main On main Severity Slight Slight CISION TO Tuesday JN WITH P ng ht Veh loc Cycleway	Weather Fine Junct. loc Mid junction Mid jun	Rd Surf Dry Skidding on No on No ed Direction Not ped Not ped F RDBT JUNC. Factors: 40 17 16:20 st Rd: U 2nd Rd Surf Dry Skidding out No	PedX - Human None Hit obj in Lei None Ped Movement Not ped Not ped V1 TRAV WEST, 06V001A 403V002A 506845/252349 Rd: U PedX - Human None Hit obj in Lei None	- Phy Fac Refuge Ft cway Hi N Ped locati Not ped Not ped ENTERS RDBT - Phy Fac Refuge Ft cway Hi	Special None t obj off one on Sch Oth AND COLI	Sex Femal Femal pool Pup er er LIDES	None Age e 78 e 74 il Hazard None Age 69	B/I - ve
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3 Location: Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel 1 2 2 Descript: WITH V2. User Info 4 Location: Speed 30 MPH Veh Vehic 1 Car 2 Pedal as No Vel as No Vel	E Unclass thire 1s C'Way Roundak cle type the ref	ssified t Rd: U Dout 1 Towing No No Cas Clas Drv/Rid Drv/Rid TRAV EA .: DO55 DE NO 36 DOUT 1 Towing No	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn SS Sex Her Fen LET FEN 238382 5 WENTWORTH Jot Det/Ctrl Mini-R Give Going ahea Going ahea SS Sex	DRTH DRIV Lighti: Daylig Dir ad E W M S Age Male 74 A LATE DEC Slight DRIVE AT Lighti: Daylig Dir ad S N ad E W Age	E, at its ng ht Veh loc On main On main Severity Slight Slight CISION TO Tuesday JN WITH P ng ht Veh loc Cycleway	Weather Fine Junct. loc Mid junction Mid jun	Rd Surf Dry Skidding on No on No ed Direction Not ped Not ped F RDBT JUNC. T 16:20 St Rd: U 2nd Rd Surf Dry Skidding out No No	PedX - Human None Hit obj in Lei None Ped Movement Not ped Not ped V1 TRAV WEST, 06V001A 403V002A 506845/252349 Rd: U PedX - Human None Hit obj in Lei None	- Phy Fac Refuge Ft cway Hi N Ped locati Not ped Not ped ENTERS RDBT - Phy Fac Refuge Ft cway Hi	Special None t obj off one on Scho Oth AND COLI Special None t obj off	Sex Femal Femal cool Pup er er LIDES Sex Male Male mol Pup	None Age e 78 e 74 il Hazard None Age 69 15	B/7 -ve
3 Location Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel 1 2 Descript: WITH V2. User Info Location Speed 30 MPH Veh Vehic 1 Car 2 Pedal as No Vel 1 2	: Unclass hire 1s C'Way Roundak cle type h ref E06000 : OUTSII C'Way Roundak cle type Cycle h ref	ssified t Rd: U Dout 1 Towing No No Cas Clas Drv/Rid Drv/Rid TRAV EA .: DO55 DE NO 36 Dout 1 Towing No No Cas Clas	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give Going ahea Right turn SS Sex Her Fen LST, MAKES A WENTWORTH Jot Det/Ctrl Mini-R Give Going ahea Going ahea So Manoeuvre Going ahea Going ahea So Sex Maler Mal	Lighti: Daylig Dir ad E W Age Alale 78 Alale 74 A LATE DEG DRIVE AT Lighti: Daylig Dir ad S N Age Age A LATE DEG Dir Age	E, at its ng ht Veh loc On main On main Severity Slight Slight CISION TO Tuesda JN WITH P ng ht Veh loc Cycleway Cycleway Severity Slight	Weather Fine Junct. loc Mid junction Mid jun	Rd Surf Dry Skidding on No on No ed Direction Not ped If RDBT JUNC. Y Factors: 40 Rd Surf Dry Skidding out No No ed Direction	PedX - Human None Hit obj in Lei None None Ped Movement Not ped Not ped V1 TRAV WEST, 06V001A 403V002A 506845/252349 Rd: U PedX - Human None Hit obj in Lei None None Ped Movement None	Ped locati Not ped Phy Fac Refuge Ft cway Hi Not ped Not ped Not ped For Entry Hi Not ped Phy Fac Refuge Ft cway Hi Not ped Not ped Not ped Not ped Not ped	Special None t obj off one on Sch Oth AND COLI Special None t obj off one on Sch Oth Oth	Sex Femal Femal cool Pup er er LIDES Sex Male Male mol Pup	None Age e 78 e 74 il Hazard None Age 69 15	B/7 -ve
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3 Location: Bedfords Speed 30 MPH Veh Vehic 1 Car 2 Car as No Vel 1 2 2 Descript: WITH V2. User Info 4 Location: Speed 30 MPH Veh Vehic 1 Car 2 Pedal as No Vel 1 2 Descript: IMMEDIAT ROUNDABO	: Unclass thire 1s C'Way Roundak cle type h ref ion: V2 crmation E06000 : OUTSII C'Way Roundak cle type Cycle h ref ion: V00 ELY OFF OUT AND CYCLIST	ssified t Rd: U Dout 1 Towing No No Cas Clas Drv/Rid Drv/Rid TRAV EA	Road WENTW 2nd Rd: U Jot Det/Ctrl Mini-R Give g Manoeuvre Going ahea Right turn ss Sex Her Fen Ler Fen LST, MAKES A 238382 WENTWORTH Jot Det/Ctrl Mini-R Give g Manoeuvre Going ahea Going ahea Going ahea Going ahea Gravelling A UNDABOUT BE	Lighti: Daylig Dir ad E W Age ale 78 ale 74 A LATE DEC CONTROLOGY Slight DRIVE AT Lighti: Daylig Dir ad S N ad E W Age Age ALONG PUTITITEEN 157 IIS NEARS]	Tuesda; JN WITH P ng ht Veh loc Cycleway Cycleway Severity Slight CISION TO Tuesda; JN WITH P ng ht Veh loc Cycleway Severity Slight Cycleway Severity Slight NOE LANE To CAND 3RD I	Weather Fine Junct. loc Mid junction Mid jun	Rd Surf Dry Skidding on No on No ed Direction Not ped Not ped TRDBT JUNC. Table Junc. Tabl	PedX - Human None Hit obj in Lei None None Ped Movement Not ped Not ped V1 TRAV WEST, 06V001A 403V002A 506845/252349 Rd: U PedX - Human None Hit obj in Lei None None Ped Movement Not ped IENTWORTH DRIVE. LONG HE PAVEMENT LOWED TO ENTER I	Phy Fac Refuge Ft cway Hi Not ped locati Not ped ENTERS RDBT - Phy Fac Refuge Ft cway Hi Not ped V001'S DRI' T, V001 ENTIHIS DRIVEWAY	Special None t obj off one on Sch Oth AND COLI Special None t obj off one on Sch Oth VEWAY IS ERED Y AND COL	Sex Femal Femal cool Pup er er LIDES Sex Male Male cool Pup er	None Age e 78 e 74 il Hazard None Age 69 15	B/7 -ve

Full Report 09-December-2019 1



No. A	rea L/A		Reference	Severity	y Day	Date	Time	Grid Coords	Link/Node	Street			
1	E0600	0055	70704	Serious	Saturday	07/05/201	16 10:00	508998/251153					
Locati	on: ST NE	OTS ROAL	A4280 75 I	METRES EAS	ST OF JUNCT	ON WITH NO	RSE ROAD 1st	Rd: A4280 2nd R	d:				
Speed 40 MPH	C'Way Roundai		Jct Det/Ctrl NotJCT	Lighti Daylig	-	Weather Fine	Rd Surf Dry	<pre>PedX - Human None</pre>	- Phy Fac None	Special None		Hazard None	l
Veh Ve	hicle type	Towing	g Manoeuvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in Lef	ft cway Hit	t obj off	Sex	Age	B/T
1 Car		No	Stop	NE SW	On main	Not at	No	None	No	one	Male	57	N/R
2 Ped	dal Cycle	No	Going ahea	ad NE SW	On main	Not at	No	None	No	one	Male	51	N/A
Cas No	Veh ref	Cas Clas	ss Sex	Age	Severity	Car Pass P	ed Direction	Ped Movement	Ped location	on Scho	ol Pu	pil	
1	2	Drv/Rid	er Mal	.e 51	Serious	No N	Not ped	Not ped	Not ped	Othe	er		
CYCLIS CYCLIS VEH 1	T HEADING	WEST A CAME TO VEHICLE	LONG A4280 A STOP AT F S GAINED SF	TOWARDS F RED PEDEST	OUNDABOUT W RIAN TRAFFI VER OF VEH	ITH NORSE F C SIGNALS. 1 BECAME AN	AS SIGNALS	CYCLIST 2 WAS TRAVELLING IN S CHANGED CYCLIST CYCLIST 2 AND HA	SAME DIRECTI F 2 RODE UP AS PULLED TO	ON OVERTO THE INSI THE NEAL	OOK DE OF RSIDE		
User I	nformation	:				Contributor	y Factors: 60	01V001A					



No. Area L/A	Reference	Severity	Day	Date	Time	Grid Coo	rds	Link/N	vode	Street			
1 E06000055	148127	Slight	Saturda	y 07/01/201	17 23:47	510330/2	51418						
Location: MARKER POST	246 BYPASS A4	21 1st Rd:	A421 2n	d Rd:									
Speed C'Way	Jct Det/Ctrl	Lighting		Weather	Rd Surf	PedX - I	Iuman	- Phy E		Special		Hazard	
70 MPH Roundabout	NotJCT	Dark/no	-	Fine	Dry	None		None		None		P/Acc	
Veh Vehicle type Towi	ng Manoeuvre		h loc	Junct. loc	Skidding	Hit obj in		cway		obj off		_	в/1
1 Car No	Going ahead		main	Not at	No	None				nt barr			N/C
2 Car No	Going ahead		main	Not at	No	Prev acc				nt barr			-ve
tas No Veh ref Cas Cla 1 2 Drv/Ri		_	everity		Ped Direction		ment	Ped loc			ool Puj	oil	
I Z DIV/RI	dei ware	JU 3	Slight	NO I	Not ped	Not ped		Not peo	J	Oth	EI		
Description: V1 HAD BE BARRIER, CAUSING EXTE CAME TO A STOP IN LAN THE A421, AND HAD TO DUE TO NO LIGHTS BEIN COMING TO A STOP IN L	NSIVE DAMAGE ' E 1, AND HAD ' SWERVE OUT OF G ILLUMINATED	TO X17 UPF NO HAZARD THE WAY T . AS A RES	RIGHT POS OR MAIN O AVOID SULT, V2	TS AND TO TH LIGHTS ILLUM A DIRECT COI ALSO COLLIDE	HE VEHICLE I MINATED. V2 LLISION, WIT ED WITH THE	TSELF. AS A HAD ALSO B H V1, AS I CENTRAL RE	A RESUI EEN TRA I SAW I SERVATI	LT OF TH AVELLING IT AT TH ION BARN	HIS C G WES HE LA RIER,	COLLISIO STBOUND AST MINU BEFORE	N, V1 ALONG TE,		
User Information:				Contributory	y Factors:								
2 E06000055	14BA0998	Slight	Monday	27/10/201	14 18:06	510624/2	51560						
Location: A4280 St Nec	ts Road Metr	=	-			edfordshire	1st Ro	d: A4280	2nd	Rd: A42	21		
Speed C'Way	Jct Det/Ctrl	Lighting		Weather	Rd Surf	PedX - I	Iuman	- Phy E		Special		Hazard	
60 MPH Roundabout	R'dabt Give	Dark/lig	hts lit	Fine	Dry	None		None		None		None	
Veh Vehicle type Towi	ng Manoeuvre	Dir Ve	h loc	Junct. loc	Skidding	Hit obj in	Left	cway	Hit	obj off	Sex	Age	B/T
1 M/cycle 50 - 1No	Right turn	NW SW On		Mid juncti	on No	None			No	ne	Male		-ve
2 Car No	Right turn	NW SW On	main	Mid juncti	on No	None			No	ne	Fema:	.e 23	-46
as No Veh ref Cas Cla 1 1 Drv/Ri		-	everity Slight		Ped Direction Not ped	Ped Move Not ped	ment	Not peo		n Scho	ool Pu	oil	
into Rear of V2. Ride	_	055			s to Turn ri			-					
into Rear of V2. Ride User Information: 3 E06000055	r of V1 Falls	Off. Slight	Saturda	Contributory 27/12/203	y Factors: 40	03V001B 403	V002B						
into Rear of V2. Ride User Information: 3 E06000055 Location: A428 Saint N	r of V1 Falls	Off. Slight	Saturda	Contributory 27/12/203	y Factors: 40	03V001B 403	V002B 51620 Rd: A4		Rd: A			Hazard	
into Rear of V2. Ride User Information: 3 E06000055 Location: A428 Saint N Speed C'Way	r of V1 Falls 14BA1259 Jeots Road Me	Slight tres A421	Saturda Bedford	Contributory 27/12/203 Bypass, Ren	y Factors: 40 14 16:53 thold, Bedform Rd Surf	03V001B 403 510504/2 rdshire 1st	V002B 51620 Rd: A4	428 2nd	Rd: A	A421			
into Rear of V2. Ride User Information: 3 E06000055 Location: A428 Saint N Speed C'Way 60 MPH Roundabout	r of V1 Falls 14BA1259 Weots Road Me Jct Det/Ctrl	Slight tres A421 Lighting Dark/lig	Saturda Bedford	Contributory 27/12/203 Bypass, Ren Weather	y Factors: 40 14 16:53 whold, Bedform Rd Surf	03V001B 403 510504/2 rdshire 1st	V002B 51620 Rd: A4	428 2nd	Rd: A	A421 Special		Hazard None	
into Rear of V2. Ride User Information: 3 E06000055 Location: A428 Saint N Speed C'Way 60 MPH Roundabout Veh Vehicle type Towi 1 Car No	r of V1 Falls 14BA1259 Jeots Road Me Jct Det/Ctrl R'dabt Give	Slight tres A421 Lighting Dark/lig Dir Ve	Saturda Bedford hts lit h loc main	Contributory 27/12/201 Bypass, Ren Weather Rain Wind	y Factors: 40 14 16:53 shold, Bedfore Rd Surf Wet Skidding	03V001B 403 510504/2 rdshire 1st PedX - I	V002B 51620 Rd: A4	428 2nd - Phy F None	Rd: A	A421 Special None obj off		Hazard None Age	B/T -ve
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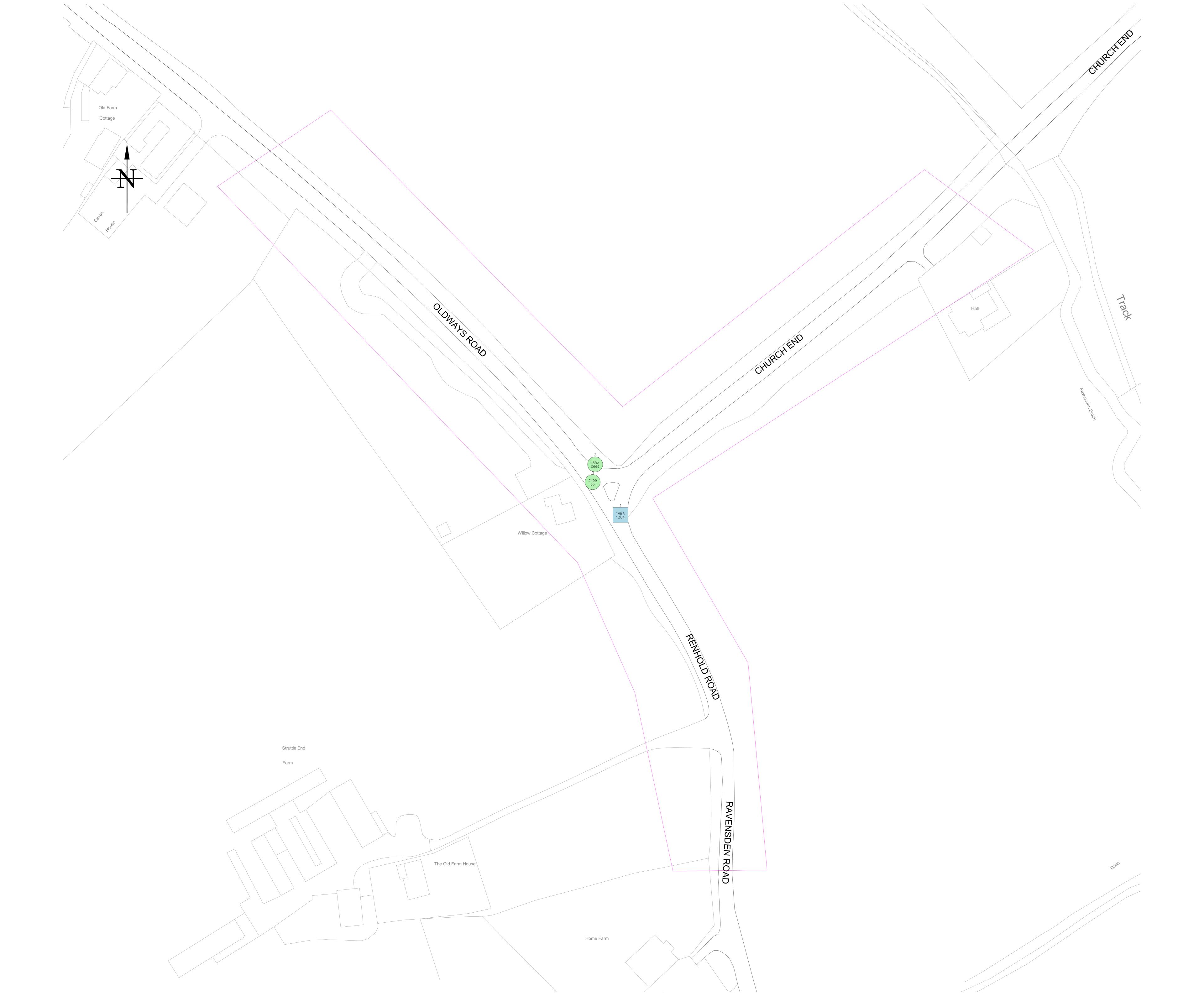
Full Report 09-December-2019 1

No. Ar	rea L/A		Referer	nce Se	everity	Day	Date	Time	Grid Coord	s	Link/	Node	Street			
5	E0600	0055	15BA02	59 SI	Light	Thursday	26/03/2015	18:00	510635/25	1565						
		BEDFORD	BYPASS,	at its	Junct	ion with A	4280 SAINT NE	EOTS ROAD,	RENHOLD, BE	OFORDS	SHIRE :	1st Rd	: A421	2nd		
Rd: A42			Tat Dat/C	+1 T	Lightin	_	Woothon	Dd Cumf	PedX - Hu		_ Dh	Ess (Passial		11 a = a = a	
Speed 70 MPH	C'Way Slip r		Jct Det/C R'dabt G		ayligh	-	Weather Fine	Rd Surf Dry	None	man	- Phy None		Special None		Hazard None	
Veh Vel	hicle typ	e Towin	ng Manoeuv	vre I	Dir V	eh loc	Junct. loc	Skidding	Hit obj in	Left	cway	Hit	obj off	Sex	Age	в/1
1 Car		No	Waiting	g I	NE SW O	n main	Junt appr	No	None			Non	.e	Male	-1	N/C
2 Car		No	Waiting	j I	NE SW O	n main	Junt appr	No	None			Non	.e	Femal	e 20	N/C
as No V	Veh ref	Cas Cla		Sex Female	Age 20	Severity Slight		l Direction t ped	Ped Moveme Not ped		Ped lo e		School Oth	ool Pup er	il	
Descrip	ption: V2	TRAV S	W, STOPS	AT THE	END OF	F THE SLIP	ROAD, WAITIN	IG TO ENTER	R RDBT AND IS	STRU	ICK FRO	OM BEH	IND BY	V1.		
Üser In	nformation	n:					Contributory	Factors:								
6	E0600		167994		Light		ay 15/03/2017		510634/25	1572						
Locatio	on: GREAT	BARFOR	D BYPASS	A421 A	T JN W	ITH ST NEO	TS ROAD 1st R	d: A421 2n								
Speed 30 MPH	C'Way Rounda		Jct Det/C R'dabt G		ightin Dayligh		Weather Fine	Rd Surf Dry	PedX - Hu None	man	- Phy None		Special None		Hazard None	
Veh Veh	hicle typ	e Towin	ng Manoeuv	vre I	Dir V	eh loc	Junct. loc	Skidding	Hit obj in	Left	cway	Hit	obj off	Sex	Age	B/I
1 Car 2 Car		No No	Going a			n main n main	Junt appr Junt appr	No No	None None			Non Non		Untra Male		N/C
as No V	Veh ref	Cas Cla		Sex Male	Age 43	Severity Slight	Car Pass Ped	Direction t ped	Ped Moveme Not ped		Ped lo Not pe		Scho Oth	ool Pup er	il	
	nformation	n:					PAIN KILLERSContributory	Factors:								
User In	E0600	00055	230561	S	Light	Sunday		02:48	510423/25							
User In 7 Location	E0600 on: ST NE	00055 COTS ROA	230561	S] AT JN W	light ITH WA	Sunday TER END 1s t	08/10/2017	02:48		1601	- Phy None	Fac :	Special None		Hazard None	
7 Location Speed 60 MPH	E0600 on: ST NE	00055 COTS ROA	230561 D A4280 #	SI AT JN W trl I	light ITH WA	Sunday TER END 1st g ghts lit	08/10/2017 t Rd: A4280 2:	02:48 nd Rd: U Rd Surf Wet	510423/25	1601 man	- Phy	Fac :	Special		None	
7 Location Speed 60 MPH	E0600 on: ST NE C'Way Single	00055 COTS ROA	230561 D A4280 A Jct Det/C R'dabt G	Sl AT JN W trl I Sive D	light ITH WA	Sunday TER END 1st g ghts lit	08/10/2017 t Rd: A4280 2: Weather Fine	02:48 nd Rd: U Rd Surf Wet	510423/25 PedX - Hu None	1601 man	- Phy None	Fac :	Special None Obj off		None Age	в/1
User In 7 Location Speed 60 MPH Weh Veh	E0600 on: ST NE C'Way Single	00055 COTS ROA c'way Towin	230561 D A4280 F Jct Det/C R'dabt G ng Manoeux Going a Going a	SI AT JN W trl I Sive D yre I	Light ITH WA Lighting Oark/li Dir V SW NE O	Sunday TER END 1st g ghts lit eh loc n main	08/10/2017 t Rd: A4280 2 Weather Fine Junct. loc	02:48 nd Rd: U Rd Surf Wet Skidding Yes	510423/25. PedX - Hu None Hit obj in	1601 man	- Phy None	Fac :	Special None obj off	Sex	None Age 28	B/T
7 Locatic Speed 60 MPH 1 Car 2 Tax:	E0600 on: ST NE C'Way Single hicle type	OOO55 COTS ROA CO'Way NO NO Cas Cla	230561 D A4280 F Jct Det/C R'dabt G ag Manoeux Going a Going a	SIAT JN W trl I five D wre I whead S head I	Light ITH WA' .ighting Oark/li Dir V SW NE O NE SW O Age	Sunday TER END 1st g ghts lit eh loc n main n main Severity	O8/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'abou Car Pass Ped	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No	510423/25 PedX - Hu None Hit obj in None None Ped Moveme	nt	- Phy None cway	Fac : Hit Non Non	Special None obj off e e	Sex Male Male	None Age 28 45	B/T
7 Locatic Speed 60 MPH 1 Car 2 Tax: as No V	E0600 on: ST NE C'Way Single hicle type i Veh ref 2 1	cots ROA c'way Towin No No Cas Cla Drv/Ric Passence	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a	Slat JN W trl I tive I yre I thead S thead I Sex Male Female	light ITH WA' Lighting Oark/li Dir V SW NE O NE SW O Age 45 30	Sunday TER END 1st g ghts lit eh loc n main n main Severity Slight Slight	Contributory 08/10/2017 t Rd: A4280 2 Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped	1601 man Left	- Phy None cway Ped lo	Fac : Hit Non Non cation	Special None obj off e e Sch	Sex Male Male Male pool Pur er er	None Age 28 45	B/T
7 7 LLocatic Speed 60 MPH Veh Veh 1 Car 2 Tax: as No V 1 2 Descrip	E0600 on: ST NE C'Way Single hicle type i Veh ref 2 1	cots ROA c'way e Towin No No Cas Cla Drv/Ric Passence	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a	Slat JN W trl I tive I yre I thead S thead I Sex Male Female	light ITH WA' Lighting Oark/li Dir V SW NE O NE SW O Age 45 30	Sunday TER END 1st g ghts lit eh loc on main on main Severity Slight Slight condition	O8/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'abou Car Pass Pec	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped lad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli	l601 Left nt	- Phy None cway Ped lo	Fac : Hit Non Non cation	Special None obj off e e Sch	Sex Male Male Male pool Pur er er	None Age 28 45	B/T
7 7 Locatic Speed 60 MPH Veh Veh 1 Car 2 Tax: as No V 1 2 Descrip	E0600 on: ST NE C'Way Single hicle typ i Veh ref 2 1 ption: V1	cots ROA c'way e Towin No No Cas Cla Drv/Ric Passence lost co	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a	SIAT JN W trl I Sive I wre I whead I Sex Male Female	light ITH WA' Lighting Oark/li Dir V SW NE O NE SW O Age 45 30	Sunday TER END 1st g ghts lit eh loc on main on main Severity Slight Slight c condition	Os/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No No ns collided h	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped ad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli	Left nt .ng in	- Phy None cway Ped lo	Fac : Hit Non Non cation	Special None obj off e e Sch	Sex Male Male Male col Pur er er	None Age 28 45	B/1
7 Locatic Speed 60 MPH 1 Car 2 Tax: as No V 1 2 Descrip User In	E0600 con: ST NE C'Way Single hicle typ i Veh ref 2 1 ption: V1	COTS ROA C'way Towin No No Cas Cla Drv/Ric Passen lost co	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a Going a Going a	SIAT JN W trl I tive I wre I whead I sex Male Female	light ITH WA' Lighting Dark/li Dir V SW NE O NE SW O Age 45 30 in damp	Sunday TER END 1st g ghts lit eh loc on main on main Severity Slight Slight c condition Wednesda	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No No ns collided h	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped ad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli	Left nt .ng in	- Phy None cway Ped lo	Fac : Hit Non Non cation	Special None obj off e e Sch	Sex Male Male Male col Pur er er	None Age 28 45	B/T
Jser In 7 Locatic Speed 60 MPH 7eh Veh 1 Car 2 Tax: as No V 1 2 Descrip Speed 8 Locatic	E0600 con: ST NE C'Way Single hicle typ i Veh ref 2 1 ption: V1	COTS ROA COT	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a Going a Going a	SI SI SI SEX Male Female bend :	light ITH WA' Lighting Dark/li Dir V SW NE O NE SW O Age 45 30 in damp	Sunday TER END 1st g ghts lit eh loc on main on main Severity Slight Slight o condition Wednesda	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No No ns collided h Contributory	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped ad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli	Left nt .ng in .001A	- Phy None cway Ped lo	Fac : Hit Non Non cation ed ed site d	Special None obj off e e Sch	Sex Male Male ool Pup er er on.	None Age 28 45	B/1 - ve - ve
7 Locatic Speed 60 MPH 1 Car 2 Tax: as No V 1 2 Descrip User In 8 Locatic	E0600 on: ST NE C'Way Single hicle typ i Veh ref 2 1 ption: V1 information E0600 on: WESTB C'Way Dual c	COTS ROA COT	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a Going a Joint Det/C 258620 21 AT JN Jct Det/C	SI SI JN W trl I sive I wre I shead I Sex Male Female bend : WITH W trl I Sive I	Light ITH WA' Lighting Dark/li Dir V SW NE O NE SW O Age 45 30 in damp	Sunday TER END 1st g ghts lit eh loc on main on main Severity Slight Slight o condition Wednesda	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No No ns collided h Contributory ay 10/01/2018 A421 2nd Rd: Weather	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped tad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped V2 travelli	Left nt	- Phy None cway Ped loc Not per oppose oppose - Phy None	Fac :	Special None obj off e e Sch Oth Oth irectio	Sex Male Male Male cool Pup er er er	None Age 28 45 il Hazard None	B/1 - ve - ve
7 Locatic Speed 60 MPH 1 Car 2 Tax: as No V 1 2 Descrip User In 8 Locatic Speed 70 MPH 1 Car	E0600 on: ST NE C'Way Single hicle type i Veh ref 2 1 ption: V1 E0600 on: WESTE C'Way Dual c hicle type	COTS ROA COTS ROA COTS ROA Cotway Cotway Cas Cla Drv/Ric Passend lost cotway	230561 D A4280 F Jot Det/C R'dabt G ng Manoeux Going a Going a ss der ger pontrol on 258620 21 AT JN Jot Det/C Slip-R G ng Manoeux Stop	SIAT JN W trl I tive I the shead I Sex Male Female bend SI WITH W trl I tive I vre I	Light ITH WANGER Lighting Lig	Sunday TER END 1st g g ghts lit eh loc n main n main Severity Slight Slight o condition Wednesda ND 1st Rd: g th	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'abou Car Pass Ped No No No no collided h Contributory ay 10/01/2018 A421 2nd Rd: Weather Rain Junct. loc Junt cleared	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped tad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli 09V001A 601V 510669/25: PedX - Hu None Hit obj in	Left nt	- Phy None cway Ped loc Not per oppose oppose - Phy None	Fac : Hit Non cation ed ed site d Fac : Hit Non	Special None e Schooth Oth irection Special None obj off	Sex Male Male ool Pup er er on. Sex Male	None Age 28 45 iil Hazard None Age -1	B/I -ve
7 7 Locatic Speed 60 MPH Veh Veh 1 Car 2 Tax: as No V 1 2 Descrip	E0600 on: ST NE C'Way Single hicle type i Veh ref 2 1 ption: V1 E0600 on: WESTE C'Way Dual c	cots ROA cotway e Towin No No Cas Cla Dry/Ric Passend lost co	230561 D A4280 F Jct Det/C R'dabt G ng Manoeux Going a Going a ss der ger pontrol on 258620 21 AT JN Jct Det/C Slip-R G ng Manoeux Stop Stop	SIAT JN W trl I tive I the shead S Sex Male Female bend WITH W trl I tive I	Light ITH WA ighting ark/li Dir V SW NE O NE SW O Age 45 30 in damp Light ATER E ighting apyligh Dir V W E O W E O	Sunday TER END 1st g g ghts lit eh loc n main n main Severity Slight Slight Condition Wednesda ND 1st Rd: g tt eh loc n main n main n main	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'abou Car Pass Ped No No No No ns collided h Contributory ay 10/01/2018 A421 2nd Rd: Weather Rain Junct. loc Junt cleared Junt cleared	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No l Direction t ped tad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped 1 V2 travelli 09V001A 601V 510669/25: PedX - Hu None Hit obj in None None	nt Left ont 1704 man Left	- Phy None cway Ped lo Not pe Oppos	Fac : Hit Non cation ed ed site d Hit Non Non	Special None e e Sch Oth Oth irectic Special None obj off	Sex Male Male ool Pup er er on. Sex Male	None Age 28 45 Ail Hazard None Age -1 20	B/1 -ve
7 Locatic Speed 60 MPH 1 Car 2 Tax: Locatic Descrip 8 Locatic Speed 70 MPH Veh Veh 1 Car 2 Car	E0600 on: ST NE C'Way Single hicle type i Veh ref 2 1 ption: V1 E0600 on: WESTE C'Way Dual c hicle type	COTS ROA COTS ROA COTS ROA Cotway Cotway Cas Cla Drv/Ric Passend lost cotway	230561 D A4280 F Jot Det/C R'dabt G ng Manoeux Going a Going a ss der ger pontrol on 258620 21 AT JN Jot Det/C Slip-R G ng Manoeux Stop Stop	SIAT JN W trl I tive I the shead I Sex Male Female bend SI WITH W trl I tive I vre I	Light ITH WAN Lighting Dir V SW NE O NE SW O Age 45 30 In damp Light ATER E Lighting Dir V W E O W E O Age	Sunday TER END 1st g ghts lit eh loc n main n main Severity Slight Condition Wednesda ND 1st Rd: g tt eh loc n main main	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No ns collided h	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No l Direction t ped tad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped 1 V2 travelli 09V001A 601V 510669/25: PedX - Hu None Hit obj in None None	nt Left nt 1704 man Left	- Phy None cway Ped loc Not per oppose oppose - Phy None	Fac : Hit Non cation ed ed Hit Non cation rection	Special None e e Sch Oth Oth irectic Special None obj off	Sex Male Male cool Puper er er on. Sex Male Male Male cool Pup	None Age 28 45 Ail Hazard None Age -1 20	B/T -ve
User In 7 Locatic Speed 60 MPH Veh Veh 1 Car 2 Tax: 2 Descrip User In 8 Locatic Speed 70 MPH 1 Car 2 Car 1	E0600 on: ST NE C'Way Single hicle typ i Veh ref 2 1 ption: V1	c'way e Towin No No Cas Cla Drv/Ric lost co n: 00055 00055 000D A4 c'way e Towin No No Cas Cla Drv/Ric th vehic low down	230561 D A4280 F Jot Det/C R'dabt G ag Manoeux Going a Going a Going a Going a Jot Det/C Slip-R G ag Manoeux Stop Stop Stop Ss der Cles driven so came	SI SI SI SEX MALE SEX	Light ITH WA' Lighting Dark/li Dir V SW NE O NE SW O Age 45 30 in damp Light ATER Exighting Dayligh Dir V W E O W E O Age 20 stbound stop, V	Sunday TER END 1st g ghts lit eh loc n main n main Severity Slight c condition Wednesda ND 1st Rd: g t eh loc n main n main Severity Slight d on A421, Vehicle beh	Contributory 08/10/2017 t Rd: A4280 2: Weather Fine Junct. loc Ent r'about Leave r'about Car Pass Ped No No No no collided h	02:48 nd Rd: U Rd Surf Wet Skidding Yes at No Direction t ped t ped tad on with	PedX - Hu None Hit obj in None None Ped Moveme Not ped Not ped Not ped 1 V2 travelli 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Left nt ng in 001A 1704 man Left nt ning, pout 5	- Phy None cway Ped lo Not pe oppos - Phy None cway Ped lo Not pe Omph,	Fac : Hit Non Non cation ed ed site d Hit Non Non cation ed aw the star	Special None e e Schooth Oth irection Special None obj off e e Schooth Oth irection traffited to	Sex Male Male ool Pup er er er on. Sex Male Male ool Pup er	None Age 28 45 Ail Hazard None Age -1 20	B/T -ve -ve

Full Report 09-December-2019 2

No. Are	ea L/A		Refere	nce	Severit	y Day	Date	Time	Grid Coords	Link/Nod	e Street			
9	E0600005	55	337716	6	Slight	Monday	15/10/2018	12:00	510466/25164	11				
Location	n: A428 AT	JN WIT	TH WATE	R END	1st Rd:	A428 2nd	Rd: U							
Speed	C'Way	J	ct Det/C	Ctrl	Lighti	ng	Weather	Rd Surf	PedX - Human	n - Phy Fac	Special	F	lazard	
60 MPH	Roundabou	ıt R	'dabt	Give	Daylig	ht	Rain	Wet	None	None	None	1	lone	
Veh Veh	icle type	Towing	Manoeu	ıvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in L	eft cway H	it obj off	Sex	Age	B/T
1 Car		No	Stop		SW NE	On main	Ent r'about	No	None		None	Female	e 38	N/F
2 Car		No	Going	ahead	SE SW	On main	Leave r'abo	ıt Yes	None		None	Female	e 50	N/E
as No Ve	eh ref Ca	s Clas	s	Sex	Age	Severity	Car Pass Pec	Direction	Ped Movement	Ped locat:	ion Scho	ol Pup	i1	
		rv/Ride		Femal		Slight		t ped	Not ped	Not ped	Othe			
		rv/Ride		Femal		Slight raffic an		t ped	Not ped ., V2 has exite	Not ped	Othe			
into V1			-		_	ap		Touridabout	., vz nas exite	ta the rounds	about and	SIIU		
	formation:						Contributory	Factors:						
10	E0600005	55	802367	7	Slight	Tuesda	y 20/11/2018	14:10	510455/25163	33				
Location	n: ST NEOTS	3 ROAD	(A4280) NE	AR JUNC	TION WITH	WATER END (A42	280) 1st Rd	: A4280 2nd Rd:	: A4280				
Speed	C'Way		ct Det/C		Lighti	-	Weather	Rd Surf	PedX - Human	-			lazard	
30 MPH	Dual c'wa	ay R	'dabt (Give	Daylig	ht	Rain	Wet	None	None	None	1	Ione	
Veh Veh	icle type	Towing	Manoeu	ıvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in L	eft cway H	it obj off	Sex	Age	B/I
1 Car		No	Stop		NE SW	On main	Leave r'abo	ıt No	None		None	Female	30	-ve
2 Car		No	Stop		NE SW	On main	Leave r'abo	ıt No	None		None	Male	49	-ve
3 Car		No	Stop			On main	Leave r'abo		None		None	Female		-ve
4 Car		No	Parked		P P	On main	Leave r'abo	ıt No	None		None	Male	28	-ve
as No Ve		s Clas		Sex	Age	Severity		Direction	Ped Movement	Ped locat:		ol Pup	i1	
		rv/Ride		Femal Male	Le 30 49	Slight		t ped	Not ped	Not ped	Othe Othe			
		rv/Ride assenge		Femal		Slight Slight		t ped t ped	Not ped Not ped	Not ped Not ped	Othe			
-		_				_		_	n vehicle. V3	-				
					lights k	out did no	t notice v2 ha	d pulled o	ver and stoppe	d. V3 collid	led with v	2,		
	g it into t	he rea	r of v	1										
User Inf	formation:						Contributory	Factors: 40	05V003A 406V003	3A 510V003A				
11	E0600005	 55	80273		Slight	Tuesda	y 17/05/2016	22:45	510402/25156	51				
Location				100 M	-		-		1st Rd: A4280					
Speed	C'Way		ct Det/C		Lighti		Weather	Rd Surf	PedX - Human		Special		lazard	
60 MPH	One Way S		otJCT	,,,,		ights lit	Rain	Wet	None	None	None		lazara None	
Veh Veh	icle type	Towing	Manoeu	ıvre	Dir	Veh loc	Junct. loc	Skidding	Hit obj in L	eft cway H	it obj off	Sex	Age	в/т
		No	Going	ahead	SW NE	On main	Not at	No	None		None	Female	e 68	N/F
1 Car		No	_			On main	Not at	No	None		None	Male	61	N/F
1 Car 2 Taxi		s Clas	s	Sex	Age	Severity	Car Pass Pec	Direction	Ped Movement	Ped locat:	ion Scho	ol Pup	i1	
2 Taxi	eh ref Ca	· · · · · as			-	-						-		
2 Taxi		rv/Ride		Femal	Le 68	Slight	No No	t ped	Not ped	Not ped	Othe	er		
2 Taxi Cas No Ve	1 Dr	rv/Ride	er			-		-	-	-				
2 Taxi as No Ve	1 Dr	rv/Ride	er e has be	een di	riving w	ıp Golding	ton Road out o	f Bedford,	towards the A	421, vehicle	e 002 has			
2 Taxi as No Ve 1 Descript coming	1 Dr	rv/Ride cle one ner dir	er e has be rection.	een di . Vehi	riving w	ıp Golding	ton Road out o	f Bedford,	-	421, vehicle	e 002 has			

Full Report 09-December-2019



No. Area L/A	Ref	erence Seve	erity Day	Date	Time	Grid Coords	Link/Node	Street		
1 E06	000055 141	BA1304 Ser:	ious Saturd	ay 06/12/2014	10:56	507314/253804				
Location: C43	Revensden Roa	d Metres Uc	42 Church Roa	d, Ravensden,	Bedfordshi	ire 1st Rd: C43 2	2nd Rd: U			
Speed C'Way		-	hting	Weather	Rd Surf	PedX - Human	- Phy Fac	Special	Hazar	d
_	le c'way T/Sta	-	ylight	Fine	Wet	None	None	None	None	
Veh Vehicle ty	pe Towing Mar	noeuvre Di	r Veh loc	Junct. loc	Skidding	Hit obj in Lei	ft cway Hi	t obj off	Sex Age	e B/
1 Car	No Rig	ht turn SE	NE On main	Mid junction	No.	None	N	one	Female 76	6 -v
2 Car	No Goi	ng ahead NW	SE On main	Mid junction	. No	None	N	one	Female 39	9 -v
as No Veh ref	Cas Class		ge Severity	Car Pass Ped			Ped location		ool Pupil	
1 1	Drv/Rider		76 Serious		ped	Not ped	Not ped	Othe		
2 2	Drv/Rider		39 Serious		ped	Not ped V2. V2 Collides	Not ped	Othe	er	
		-			_					
Jser Informati	on:			Contributory	Factors: 99	99V001B 103V001A	. 103V002B			
2 E06	000055 157	27.0.6.6.0	1	1 00/07/0015	17.00	507204/052004				
		BA0669 Slig	-	day 22/07/2015		507304/253824		1.71		
						Bedfordshire 1s				_
Speed C'Way 40 MPH Sing	y Jct D o le c'way T/Sta	-	nhting /light	Weather Fine	Rd Surf Dry	PedX - Human None	- Phy Fac None	Special None	Hazar None	d
_	pe Towing Mar	-	r Veh loc	Junct. loc	-	Hit obj in Lei		t obj off		e B/
					_	_	_	-	_	
1 Car	-		NW On main	Mid junction		None		one		2 -v
2 Car		-	SE On main	Mid junction		None		one		7 -v
as No Veh ref	Cas Class		ge Severity		Direction		Ped location		ool Pupil	
1 1 2 2	Drv/Rider Drv/Rider		72 Slight 47 Slight		ped ped	Not ped Not ped	Not ped Not ped	Othe Othe		
			_		-	WAY TO V2 TRAV	=			
F/N/S.										
Jser Informati	on:			Contributory	Factors: 70	06V001B 406V001A				
2 706	000055	2005		07/10/0017	00.10	507000/050017				
		9935 Sli		ay 07/12/2017	08:18	507303/253817				
	ENSDEN ROAD AT									
Speed C'Way 30 MPH Sing	y Jct D o le c'way Other	-	nhting /light	Weather Rain	Rd Surf Wet	PedX - Human None	- Phy Fac None	Special None	Hazar None	d
Weh Vehicle ty	_		_	Junct. loc				t obj off		e B/
1 Car	_		NE On main	Junt appr	No	None	_	one	_	5 -v
2 Car	-	hand bend NW		Junt appr	No	None		one	Male 30	
3 Car		hand bend NW		Junt appr	No	None		one	Female 55	
										. v
as No Veh ref	Cas Class Drv/Rider		ge Severity 55 Slight		Direction ped	Ped Movement Not ped	Ped location	on scho	ool Pupil	
2 2	Drv/Rider Drv/Rider		30 Slight		ped ped	Not ped	Not ped	Othe		
3 1	Passenger		62 Slight		ped	Not ped	Not ped	Othe		
Description: \	_	ing along Ra	-	waiting to tu	rn right c	onto church end.	V1 failed	to see V	2	
						d V1 and was hit		caused by	y the	
ollision bet	ween vi and V	<u> </u>								

Contributory Factors: 401V001A

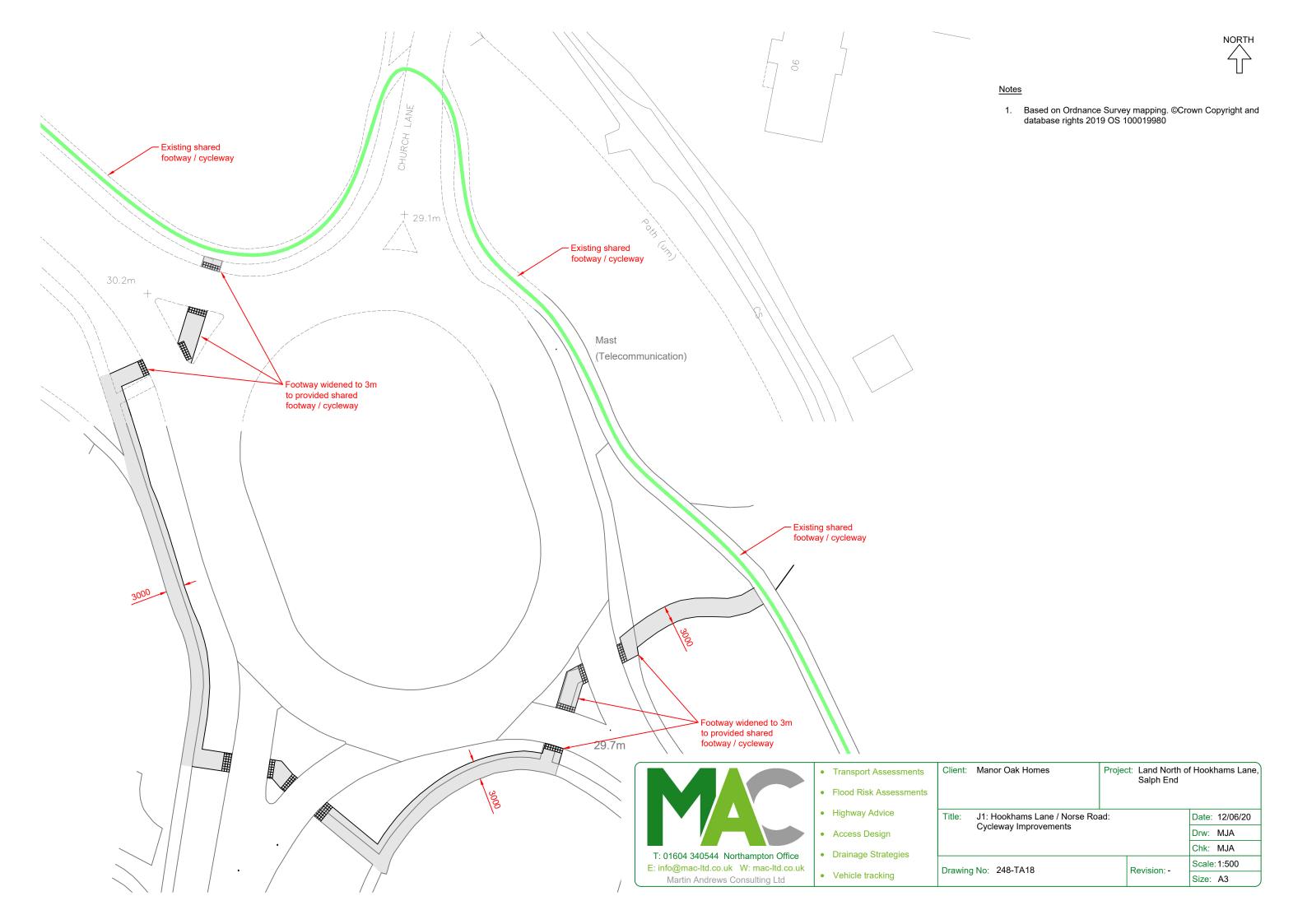
User Information:





Appendix F

J1: Hookhams Lane / Norse Road: Cycleway Improvements MAC drawing no. 248-TA18







Appendix G

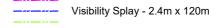
J5: Ravensden Road / Oldways / Church End: Existing Visibility MAC drawing no. 248-TA16



Notes

 Based on Ordnance Survey mapping. ©Crown Copyright and database rights 2019 OS 100019980

Key



37.8m

38.7m



Olona, S. R. A.

	Client:	Manor Oak Homes	Proj	ject: Land north of Hookhams Lane Salph End	ne Date: 10/06/20
				Calph Lilu	Drw: MJA
	Title: J5: Ravensden Rd / Oldways Rd / Church End Existing Visibility			Chk: MJA	
				Sharon End	Scale: 1:1000
					Size: A4
	Drowing	No. 248 TA16	Povision	Transport Assessments Flood Risk Assessments	

Drawing No. 248-TA16

Revision -

Transport AssessmentsHighway Advice

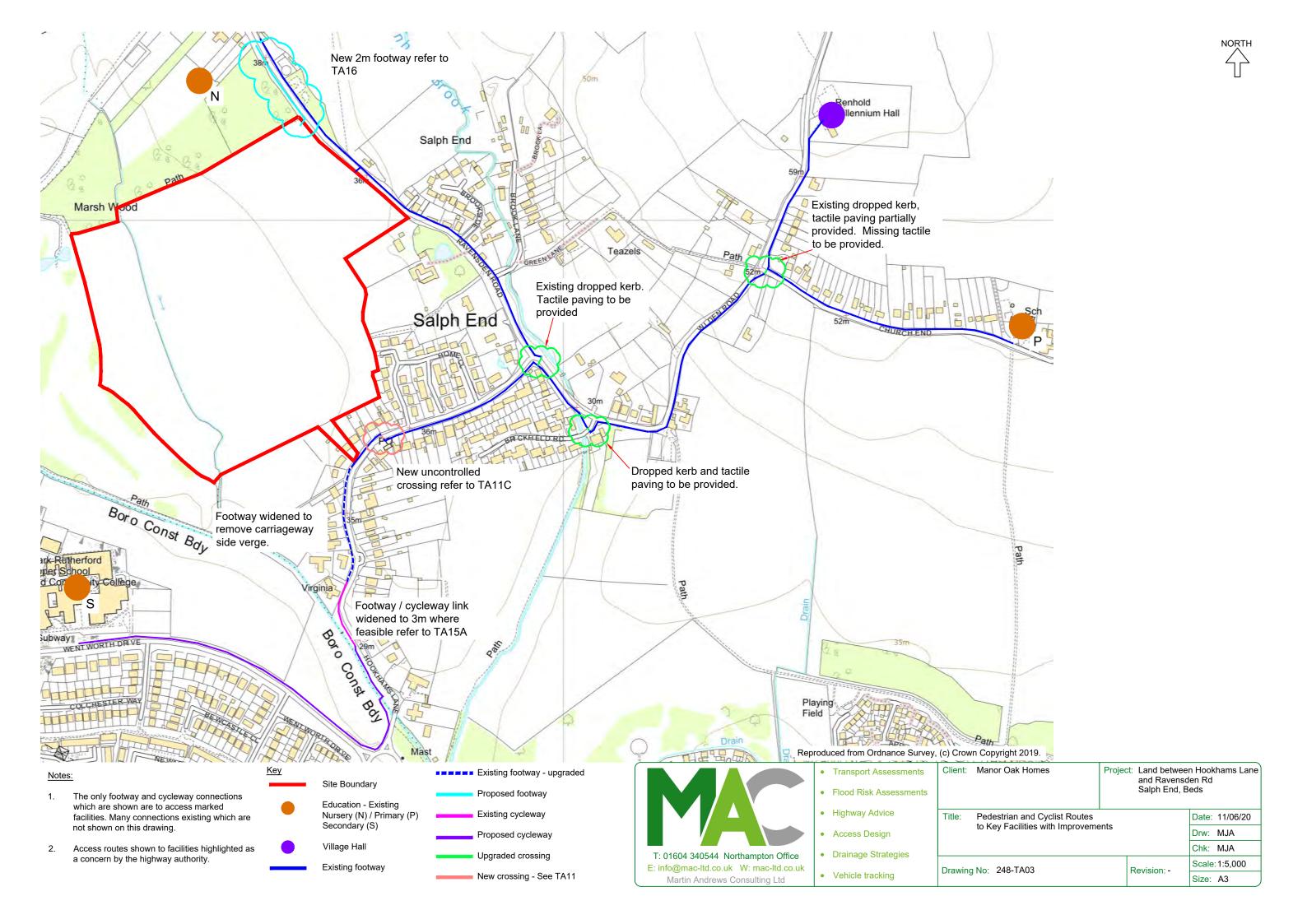
ments • Flood Risk Assessme• Drainage Strategies





Appendix H

Pedestrian and Cyclist Routes to Key Facilities with Improvements MAC drawing no. 248-TA03







Appendix I

Footway Improvements: Ravensden Road MAC drawing no. 248-TA17







Appendix J

Footway Improvements – South of 43 Hookhams Lane MAC drawing no. 248-TA15A

