

ROU 03, ROUGHTON
ACCESSIBILITY REPORT

MARCH 2009

DOC REF: 10751/JW/03-09/2670

ROU 03, ROUGHTON
ACCESSIBILITY REPORT

MARCH 2009

REPORT REFERENCE: 10751/JW/03-09/2670

CLIENT: Chaucer Farming Co.

ENGINEER: Millard Consulting
The Atrium
Merchants Court
St George's Street
Norwich
NR3 1AB

Tel: 01603 610916
Fax: 01603 620631

Report Prepared By:

.....
J Whiting, BEng (Hons)

Report Checked By:

.....
P M Lavers, BEng (Hons), CEng, MICE, RMaPS

COPYRIGHT

The contents of this document must not be copied or reproduced in whole or part without the written consent of Millard Consulting or the Client.

REGISTRATION OF AMENDMENTS

Revision and Date	Amendment Details	Revision Prepared By	Revision Approved By

CONTENTS

1. INTRODUCTION
2. EXISTING HIGHWAY LINKS
3. EXISTING PEDESTRIAN AND CYCLE ROUTES
4. EXISTING PUBLIC TRANSPORT
5. PROPOSED DEVELOPMENT ACCESS
6. TRAFFIC FIGURES
7. CONCLUSION

APPENDICIES

- A. PRELIMINARY SITE PLAN
- B. ACCIDENT RECORDS

PLANS

- | | |
|-------------|-------------------------------|
| 10751/03/01 | PROPOSED HIGHWAY IMPROVEMENTS |
| 10751/03/02 | PEDESTRIAN ROUTES |
| 10751/03/03 | SCHEME OVERVIEW |

1.0 INTRODUCTION

- 1.1 Millard Consulting have been instructed by Chaucer Farming to investigate the accessibility of a proposed development in Roughton identified as site ROU 03 in the LDF process.

- 1.2 The site is approximately 7.58 acres in size and is situated to the east of Roughton, off Back Lane. It is proposed the site will be developed for approximately 26 residential dwellings, a village hall and 4.32 acres of public open space. A plan of the preliminary layout is included in Appendix A.

2.0 EXISTING HIGHWAY LINKS

- 2.1 The A140 dissects the village of Roughton running in a north south direction. Within the village there are two mini roundabouts on the A140 which connect to the B1436 to the west and east in a staggered orientation.
- 2.2 The A140 and B1436 provide the main highway arteries within the area linking to Norwich, Cromer, the A148 and the A149.
- 2.3 Locally the A140 and the B1436 provide access to a small number of residential roads, existing roads of a rural nature and direct access to residential and commercial properties.
- 2.4 An existing junction exists on the A140 with Back Lane, which the proposed development fronts, linking through to the B1436 to the north west of the village. Back Lane is of a rural nature generally bounded by agricultural land except at each end where it provides access to residential properties. Accident records provided by Norfolk County Council are included in Appendix B and show there have been no reported accidents along Back Lane or at the junctions with the A140 and B1436 in the last five years.
- 2.5 Back Lane provides an unofficial bypass to the village for traffic travelling between the B1436 to the west, and the A140 to the south. It is understood that a significant amount of traffic used this route prior to the construction of the mini roundabout junctions on the A140. It is understood the provision of the roundabouts have significantly improved egress from and to the B1436 from the A140 reducing delays and hence a reduction of traffic using Back Lane.
- 2.6 An am and pm peak hour traffic count was undertaken on Back Lane on 17 March 2009 which shows the peak hour turning vehicles to be 40 am and 42 pm at the B1436 junction and 44 am and 38 pm at the A140 junction. Taking into account the available traffic movements from Metton Road, Orchard Close and Old Turnpike Road, the survey recorded 32 am and 38 pm peak hour vehicle movements along Back Lane. The survey also showed very little HGV movements, recording only 2 during the morning and evening counts.

3.0 EXISTING PEDESTRIAN AND CYCLE ROUTES

- 3.1 Currently there is very limited pedestrian links within the village which is generally limited to footways adjacent to new residential roads, and a length of footway along the B1436 close to the village centre.
- 3.2 Adjacent to the site, Orchard Close has a footway which links through to Old Turnpike Road.
- 3.3 No dedicated cycleway provision is present within the village.

4.0 EXISTING PUBLIC TRANSPORT

- 4.1 Existing services currently stop at Roughton on the A140 linking to Cromer to the north and Aylsham and Norwich to the south and also to North Walsham via the B1436 and A149.
- 4.2 The current provision provides 2 buses an hour to Norwich, 3 buses an hour to Cromer and 1 bus an hour to North Walsham, Monday through to Saturday with a part day service on Sundays.

5.0 PROPOSED DEVELOPMENT ACCESS

- 5.1 It is proposed the site will be accessed by vehicles off Back Lane approximately 70 metres past the existing access to the Orchard Close development. Between this point and the A140, Back Lane has a changing frontage including hedgerow, walls, the junction with Old Turnpike Road and frontage dwellings. The road is generally between 4 to 5 metres in width with verges and no footways and presents a rural character.
- 5.2 From the traffic counts it can be seen that the base traffic in the vicinity of Back lane and Old Turnpike Road is generally low with average peak hour movements of approximately 35 vehicles. This number is increased by rat running along Back Lane and it is therefore proposed that as part of the development, the desirability of Back Lane as a through route will be addressed by highway improvements to restore a more rural nature to the lane and to prevent a net increase of traffic arising from the development.
- 5.3 Proposed vehicular access to the site and traffic improvements to Back Lane are shown on drawing 10751/03/01. The principle is to widen Back Lane to provide a minimum 4.5m carriageway up to the access of the site and incorporating a narrowing feature to slow traffic speeds. It is proposed the priority of Back Lane will be amended so the through route enters the proposed site with the continuation of Back Lane being the side road. Additional narrowings will be provided on Back Lane, together with signing and a change of surfacing at the B1436/Back Lane and Back Lane/Old Turnpike Road junctions to promote Back Lane as a quiet lane.

The net result of the above will be to generally reduce traffic speeds and to make Back Lane less attractive as a through route.

Proposed Pedestrian Links

- 5.4 Along the frontage of the site, footways will be provided along Back Lane linking to the footways on Orchard Close and to the public footpath approximately opposite the proposed site entrance. From Orchard Close the footway links to Old Turnpike Road which links to the centre of the village and public transport stops. Old Turnpike Road does not have footways but has frontage development and generally little through traffic.
- 5.5 In addition to this link it is also proposed that a second link will be provided at the north of the site as indicated on drawing 10751/03/02. This will provide direct access to the hub of the village, public transport links and on to the school. This link would satisfy the requirement for the proposed dwellings being within 400 metres of the bus stop as well as providing a link to the existing pedestrian network facilitating good access between the development and village amenities and access from the village to the proposed public open space.

6.0 TRAFFIC FIGURES

- 6.1 It is estimated that the development will result in 16 additional vehicle movements in the peak hours arising from the proposed residential development. It is considered that traffic generated by the village hall and public open space will be outside of the peak hours and will therefore not represent a significant traffic impact.
- 6.2 Currently approximately 35 vehicles use Back Lane as a short cut during the peak hour, but it is reasonable to assume this figure will reduce through the introduction of the highway improvements which will decrease the attractiveness over the designated route. This will result in a neutral impact on the A140/Back Lane junction and a decrease in traffic using the B1436/Back Lane junction.
- 6.3 From the traffic counts, peak traffic flows are generally low at both the junction with the A140 and the B1436, with no significant queuing of vehicles observed during the surveys, which combined with the accident records would suggest improvements to these junctions are not necessary. Extrapolation of the peak hour flows shows the total turning movements at these junctions would be approximately 400 a day, significantly below the required value to upgrade the junctions.

7.0 CONCLUSION

- 7.1 The development of ROU 03 for residential, village hall and public open space is viable in transport terms with the inclusion of suitable highway improvements to reduce the traffic along Back Lane and promote its rural character while providing pedestrian links between the development, public open space and the village hub.

- 7.2 The proposed highway works will result in no significant increase of traffic using the A140/Back Lane and B1436/Back Lane junctions.

APPENDICES

APPENDIX A

1. The information contained in this document is for the use of the client only and is not to be used for any other purpose.
 2. This document is the property of J.A. Asquard Architects Ltd. and shall remain the property of J.A. Asquard Architects Ltd. if it is used for any other purpose.
 3. The information contained in this document is for the use of the client only and is not to be used for any other purpose.
 4. The information contained in this document is for the use of the client only and is not to be used for any other purpose.
 5. The information contained in this document is for the use of the client only and is not to be used for any other purpose.



1 NIETHORNSFIELD, KING STREET, NORWICH
 NR1 1SW
 Telephone: (01603) 606370
 Facsimile: (01603) 610332
 www.asquardarchitects.com

Client: J. Mermogen Esq
 Job: Development of land
 Back Lane
 Roughton, Norfolk
 Drawing Title: Preliminary Site Plan
 Date: July 2008
 Drawing No: 12500@M4
 Drawing By: mjb
 Date: 08/31/01



Site Area - 7.58 acres
 Housing - 3.26 acres
 Recreation Area - 4.32 acres

Denotes cricket oval
 Denotes football pitch
 Denotes tennis courts

APPENDIX B

**Roughton Area
Accident Record Feb 2004 to Jan 2009**

AXIS Traffic Accident Systems.

NORFOLK COUNTY COUNCIL 16-MAR-2009 DATE|tac.GE.1-2-4

Road : A140 Grid Reference: 62193 33678 Acc Ref No. : 0021790
District : North Norfolk D.C. Time: 11:30, Sunday 07-MAR-2004
Lighting : daylight, no street lights present
Weather : fine (without high winds) Speed Limit: 40 mph
Severity : SLIGHT Road Surface: wet/damp
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred at a private drive or entrance on A140 , a single carriageway with 2 lanes (1 each directn).

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Tail end collision with vehicle waiting to turn rt.

Vehicle 1. car travelling from NE to NW, waiting to turn right. The vehicle was in middle of a junction. The driver, female was aged 23.

Vehicle 2. car travelling from NE to SW, going ahead. The vehicle was approaching junction/vehicle parked at junction approach. The driver, female was aged ??.

Casualty 1 (Vehicle 001). A female driver aged 23 suffered a slight injury.

Road : A140 Grid Reference: 62198 33699 Acc Ref No. : 0024205
District : North Norfolk D.C. Time: 14:55, Sunday 01-AUG-2004
Lighting : daylight, no street lights present
Weather : fine (without high winds) Speed Limit: 40 mph
Severity : SLIGHT Road Surface: dry
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred at a "T" or staggered junction on A140 , a single carriageway with 2 lanes (1 each directn) controlled by a give way sign or markings.

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Right turn joining main road - Head on.

Vehicle 1. car travelling from NW to SW, turning right. The vehicle was in middle of a junction. The driver, female was aged 57.

Vehicle 2. car travelling from SW to NE, going ahead. The vehicle was in middle of a junction. The driver, female was aged 26.

**Roughton Area
Accident Record Feb 2004 to Jan 2009**

Casualty 1 (Vehicle 002). A female driver aged 26 suffered a slight injury.

Casualty 2 (Vehicle 002). A female passenger aged 6 suffered a slight injury.

Road : A140 Grid Reference: 62194 33682 Acc Ref No. : 0030187
District : North Norfolk D.C. Time: 14:05, Wednesday 06-JUL-2005
Lighting : daylight, no street lights present
Weather : raining with high winds Speed Limit: 40 mph
Severity : SERIOUS Road Surface: wet/damp
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred at a private drive or entrance on A140 , a single carriageway with 2 lanes (1 each directn) controlled by a give way sign or markings.

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Tail end collision with vehicle waiting to turn rt.

Vehicle 1. car travelling from N to S, going ahead. The vehicle was approaching junction/vehicle parked at junction approach. The driver, male was aged 20.

Vehicle 2. car travelling from N to W, waiting to turn right. The vehicle was. The driver, female was aged 26.

Vehicle 3. goods vehicle <3.5T MVW travelling from S to N, going ahead. The vehicle was approaching junction/vehicle parked at junction approach. The driver, male was aged 62.

Vehicle 4. car travelling from W to S, waiting to turn right. The vehicle was approaching junction/vehicle parked at junction approach. The driver, female was aged 37.

Casualty 1 (Vehicle 002). A female driver aged 26 suffered a serious injury.

Road : A140 Grid Reference: 62194 33681 Acc Ref No. : 0034935
District : North Norfolk D.C. Time: 16:12, Tuesday 11-APR-2006
Lighting : daylight, no street lights present
Weather : raining with high winds Speed Limit: 40 mph
Severity : SLIGHT Road Surface: wet/damp
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred on an other junction on A140 , a single carriageway with 2 lanes (1 each directn) controlled by a give way sign or markings.

Pedestrian Crossing: There was no zebra crossing within 50 metres

**Roughton Area
Accident Record Feb 2004 to Jan 2009**

Special conditions and hazards: no hazard involved.
Diagram : Tail end collision with vehicle waiting to turn rt.

Vehicle 1. car travelling from N to S, going ahead. The vehicle was approaching junction/vehicle parked at junction approach. The driver, male was aged 40.

Vehicle 2. car travelling from N to W, waiting to turn right. The vehicle was. The driver, female was aged 30.

Casualty 1 (Vehicle 002). A female driver aged 30 suffered a slight injury.

Road : A140 Grid Reference: 62198 33699 Acc Ref No. : 0042966
District : North Norfolk D.C. Time: 10:56, Wednesday 29-AUG-2007
Lighting : daylight, street lights present
Weather : fine (without high winds) Speed Limit: 40 mph
Severity : SLIGHT Road Surface: dry
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred at a roundabout on A140 , a roundabout controlled by a give way sign or markings.

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Failing to give way on entering roundabout.

Vehicle 1. car travelling from S to N, going ahead. The vehicle was not in collision. The driver, male was aged 81.

Vehicle 2. car travelling from N to NW, turning right. The vehicle was. The driver, male was aged 56.

Casualty 1 (Vehicle 001). A female passenger aged 75 suffered a slight injury.

Casualty 2 (Vehicle 002). A female passenger aged 60 suffered a slight injury.

Road : A140 Grid Reference: 62195 33687 Acc Ref No. : 0048406
District : North Norfolk D.C. Time: 17:33, Thursday 04-SEP-2008
Lighting : daylight, street lights present
Weather : fine (without high winds) Speed Limit: 40 mph
Severity : SLIGHT Road Surface: dry
Location : 60/40 SL TO 40/60 SL ROUGHTON

The accident occurred at a roundabout on A140 , a roundabout controlled by a give way sign or markings.

**Roughton Area
Accident Record Feb 2004 to Jan 2009**

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Tail end collision.

Vehicle 1. car travelling from S to N, going ahead. The vehicle was approaching junction/vehicle parked at junction approach. The driver, female was aged 40.

Vehicle 2. car travelling from S to N, waiting to go ahead but held up. The vehicle was approaching junction/vehicle parked at junction approach. The driver, female was aged 34.

Casualty 1 (Vehicle 001). A female driver aged 40 suffered a slight injury.

Casualty 2 (Vehicle 002). A female driver aged 34 suffered a slight injury.

Contributory Factors.

Road : B1436 Grid Reference: 62141 33783 Acc Ref No. : 0045171
District : North Norfolk D.C. Time: 10:05, Monday 24-SEP-2007
Lighting : daylight, no street lights present
Weather : fine (without high winds) Speed Limit: 40 mph
Severity : SLIGHT Road Surface: dry
Location : JUNC A140 NORWICH RD TO 40/60 SL ROUGHTON

The accident occurred not at or within 20 metres of junction on B1436 , a single carriageway with 2 lanes (1 each directn).

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.
Diagram : Head on collision.

Vehicle 1. goods vehicle >7.5T travelling from S to N, going ahead. The vehicle was not at a junction (nor within 20 metres). The driver, sex u/k was aged ??.

Vehicle 2. goods vehicle >7.5T travelling from N to S, going ahead. The vehicle was not at a junction (nor within 20 metres). The driver, male was aged 41.

Casualty 1 (Vehicle 002). A male driver aged 41 suffered a slight injury.

Road : A140 Grid Reference: 62197 33700 Acc Ref No. : 0035487
District : North Norfolk D.C. Time: 07:15, Friday 12-MAY-2006
Lighting : daylight, street lighting unknown
Weather : fine (without high winds) Speed Limit: 30 mph
Severity : SLIGHT Road Surface: wet/damp
Location : 60/40 SL TO 40/60 SL ROUGHTON

Roughton Area Accident Record Feb 2004 to Jan 2009

The accident occurred at a "T" or staggered junction on A140 , a single carriageway with 2 lanes (1 each directn) controlled by a give way sign or markings.

Pedestrian Crossing: There was no zebra crossing within 50 metres

Special conditions and hazards: no hazard involved.

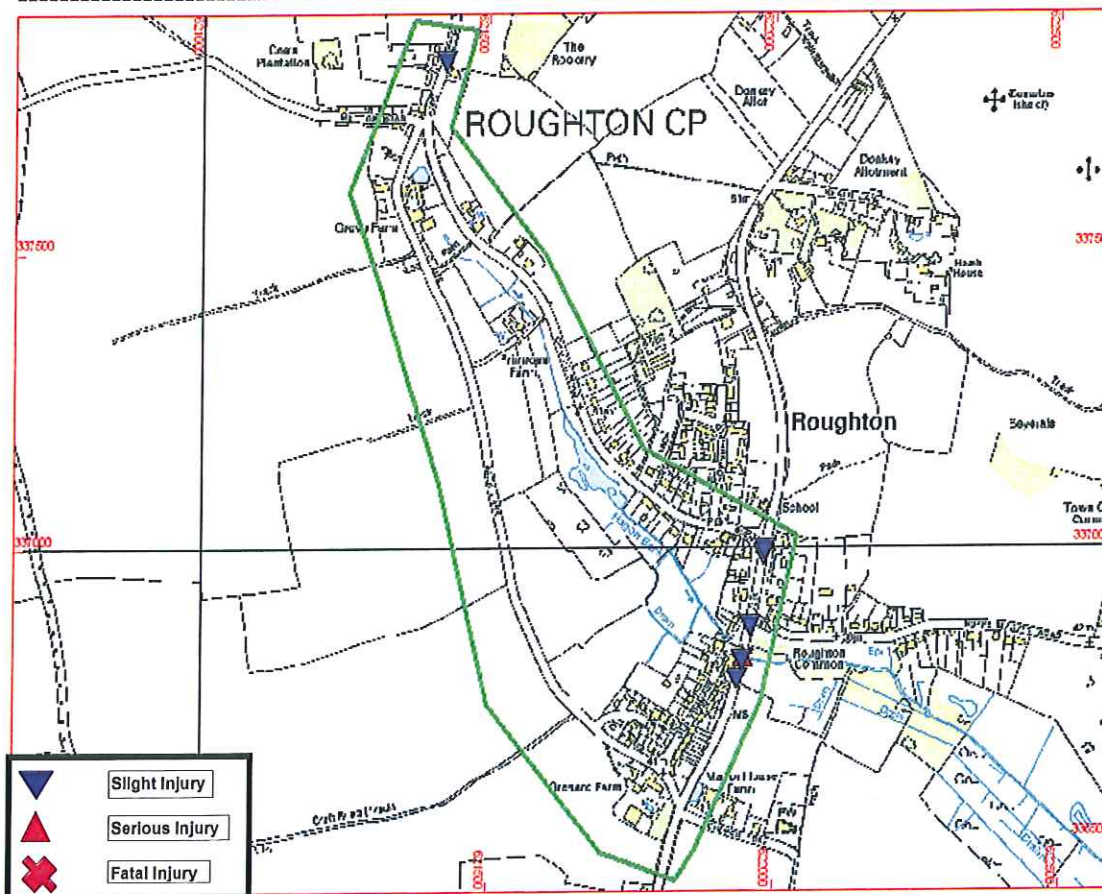
Diagram : Tail end collision.

Vehicle 1. car travelling from W to SE, stopping. The vehicle was approaching junction/vehicle parked at junction approach. The driver, male was aged 60.

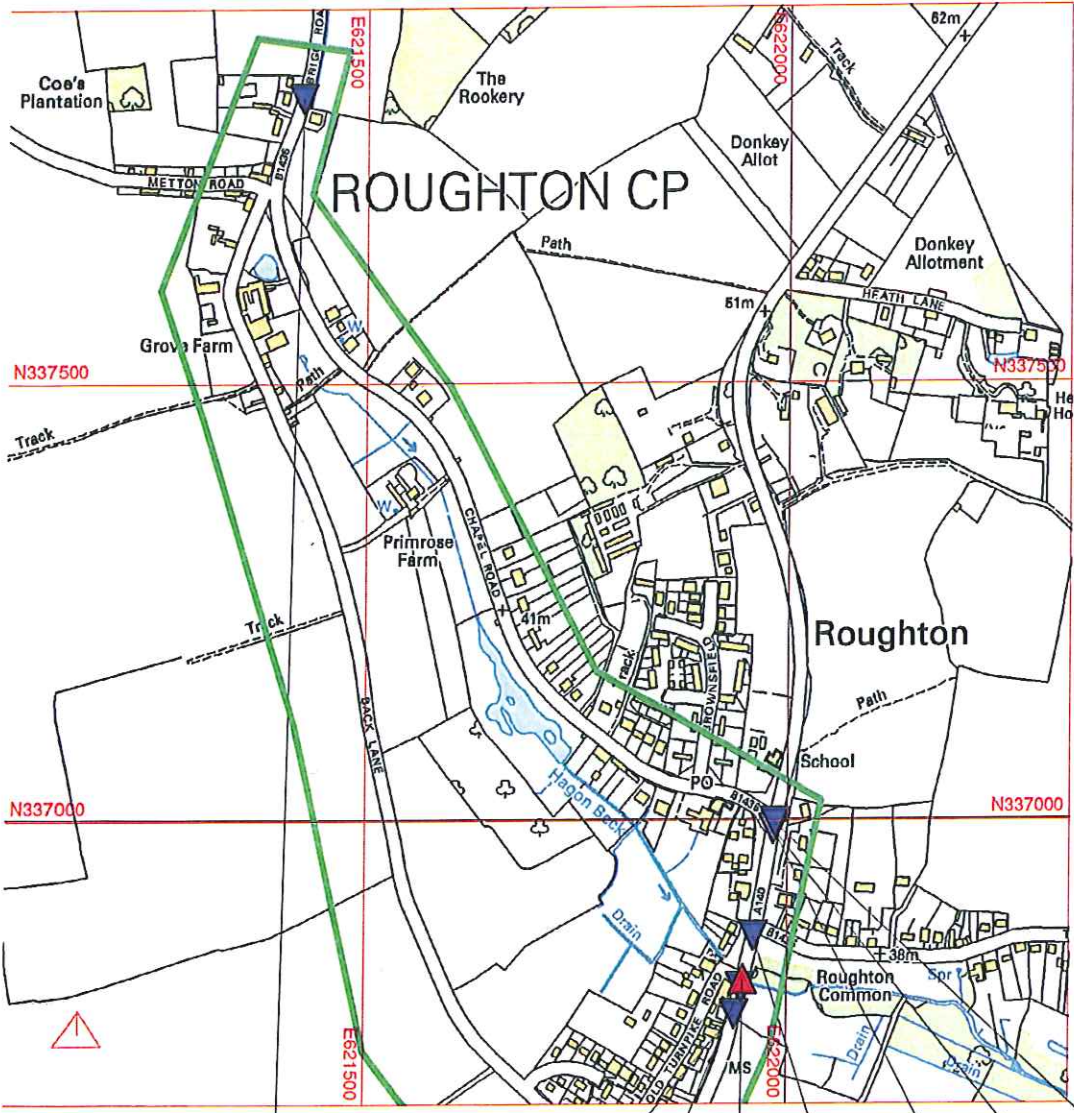
Vehicle 2. car travelling from W to S, waiting to turn right. The vehicle was approaching junction/vehicle parked at junction approach. The driver, female was aged 57.

Casualty 1 (Vehicle 002). A female driver aged 57 suffered a slight injury.

Total number of sites in selection - 8



PLANS



SCALE = 1 : 8353

Reference	'0045171	'0021790	'0034935	'0030187	'0048406	'0024205	'0042966	'0035487
Date	24-Sep-07	07-Mar-04	11-Apr-06	06-Jul-05	04-Sep-08	01-Aug-04	29-Aug-07	12-May-06
Time	10:05	11:30	16:12	14:05	17:33	14:55	10:56	07:15
Severity	SLIGHT	SLIGHT	SLIGHT	SERIOUS	SLIGHT	SLIGHT	SLIGHT	SLIGHT
Dark/Light	DAY	DAY	DAY	DAY	DAY	DAY	DAY	DAY
Weather								
Surface	DRY	WET/DAMP	WET/DAMP	WET/DAMP	DRY	DRY	DRY	WET/DAMP
Diagram	65	42	42	42	64	28	51	64
Diagram	 HEAD ON COLLISION	 TAIL END COLLISION WITH VEHICLE WAITING TO TURN RIGHT BUT HELD UP	 TAIL END COLLISION WITH VEHICLE WAITING TO TURN RIGHT BUT HELD UP	 TAIL END COLLISION WITH VEHICLE WAITING TO TURN RIGHT BUT HELD UP	 TAIL END COLLISION	 HIGHT TURN ACROSS MAIN ROAD - HEAD ON	 FAILING TO GIVE WAY ON MEETING HEAD-ON	 TAIL END COLLISION

Norwich

The Atrium
Merchants Court
St. George's Street
Norwich
Norfolk
NR3 1AB

t 01603 610916

f 01603 620631

e norwich@millardconsulting.co.uk