

Future Defence Storage and Redistribution Programme, Redevelopment of MOD Bicester

> Transport Assessment BIC/OPA/DOC/12



## Report for

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Future Defence Storage and Distribution Programme -Redevelopment of MOD Bicester

Transport Assessment (BIC/OPA/DOC/12)

September 2011

AMEC Environment & Infrastructure UK Limited



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# 1. Introduction

# 1.1 Background

1.1.1 AMEC Environment and Infrastructure UK Ltd (AMEC E&I)<sup>1</sup> has been commissioned by Defence Infrastructure Organisation (DIO)<sup>2</sup> to produce masterplans and technical assessments to support an Outline Planning Application (OPA) for the re-development of Graven Hill and C Site at MOD Bicester, in Oxfordshire. The location of each site is shown on in Figure 1.1.

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1.1.2 The Graven Hill Site and C Site have been identified as being viable for redevelopment for storage intensification, mixed use development, employment and civilian housing. The Graven Hill site has been identified for disposal and C Site to remain under MOD control.

# Summary of Proposed Development

# **Graven Hill**

- 1.1.3 The proposed development at Graven Hill is summarised as follows.
  - Residential development (55.4ha) of approximately 1,900 homes including up to 30% affordable housing.
  - A Local Centre including:
    - a two form entry primary school (Class D1) incorporating a multi-use games area (MUGA) and sports pavilion with parking areas on a 3.4ha site, which is a sufficient size to accommodate a three form entry primary school if future expansion is required;
    - a Community Hall of 660m<sup>2</sup> co-located with the primary school;
    - five local shops or facilities including retail, service and community units up to 92.9m<sup>2</sup> each on a 0.2ha site;
    - a foodstore building (Class A1) 1,858m<sup>2</sup> on a 0.6ha site;
    - a hotel/pub/restaurant and parking areas within a 1.5ha site;
    - B1 four storey offices  $2,160 \text{ m}^2$  on a 0.6ha site.







<sup>&</sup>lt;sup>1</sup> Following its acquisition by AMEC, Entec UK Ltd was integrated into AMEC Environment and Infrastructure in July 2011, all references are now to AMEC E&I.

<sup>&</sup>lt;sup>2</sup> The Defence Infrastructure Organisation was formed on 1 April 2011 when the former Defence Estates was brought together with other property and infrastructure functions in the MOD to form a single organisation.

- B1(b) research and development up to 2,400m<sup>2</sup> and B1(c) and B2 light industrial up to 20,520m<sup>2</sup> on a 5.7ha site with buildings from 50-800m<sup>2</sup> on maximum plots of 0.93ha.
- B8 warehousing up to  $66,980m^2$  on a18.6ha site with units ranging from 2,790 to  $9.290m^2$ .
- Graven Hill Woodland Park (27ha) including new car parking areas and access as part of a total of 62.4ha of woodland and buffer areas.
- Allotments on two sites totalling 3.2ha.
- Two improved junctions serving the site off the A41.
- Creation of new footpaths and cycle paths on-site and crossing points on the A41.

# C Site

1.1.4 The proposed development at C Site is summarised as follows.

- Demolition of a number of MOD buildings in the northern area of C Site.
- Development of a new 70,400m<sup>2</sup> floor area warehouse known as the 'Fulfilment Centre' to include a 30m deep unloading yard to the west of the building, office accommodation and parking for up to 350 cars.
- Re-provision of the container storage facility (to be removed from Graven Hill). •
- Retention of rail capability to serve the new building and the lower reaches of the site, but removal of rail infrastructure and trees in the vicinity of the demolished buildings to clear a development platform.
- New internal road layout and remodelling of the site access to increase the distance between the security gate and the public highway.

# Approach to Transport Assessment of the Proposed Development

- 1.1.5 A Transport Assessment (TA) has been produced which assesses the cumulative impacts of the proposed development. The TA has been prepared against a background of specific consultation and discussion with key stakeholders. Several meetings have been held with officers from Oxfordshire County Council (OCC) as the local highway authority, the minutes of which are included in Appendix A. Meetings have also been held with Chiltern Railways and Network Rail regarding commercial and MOD rail access into Graven Hill and C Site, and the Evergreen 3 Scheme proposals. Contact has also been made with the Highways Agency (HA) to discuss the proposals. The HA has identified that Junction 9 of the M40 requires assessment and that they expect to rely on OCC to agree the trip rates.
- 1.1.6 The TA has been prepared following the guidelines as set out in the Department for Transport (DfT) guidance 'Guidelines for Transport Assessment' 2007. In addition to the TA, Travel Plans for the proposed development at Graven Hill and at C Site have been produced, of which a draft of the former has been reviewed by OCC.

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#### 1.2 Structure of Transport Assessment

- 1.2.1 This TA is structured as follows:
  - chapter 2 Policy Context, which sets out the key national and local policies and • strategies which are relevant to the sites and development proposals;
  - chapter 3 Existing Situation, which sets out the existing traffic generation from the sites, and transport network including a safety assessment;
  - chapter 4 Development Proposals: Graven Hill, which summarises the proposed development at Graven Hill;
  - chapter 5 Development Proposals: C Site, which summarises the proposed development at C Site;
  - chapter 6 Graven Hill Travel Plan, which summarises the measures identified within the separate document;
  - chapter 7 C Site Travel Plan, which summarises the measures identified within the separate document;
  - chapter 8 Traffic Generation, which sets out the methodology for estimating the traffic generated from the proposed development;
  - chapter 9 Trip Distribution, which sets out the methodology for estimating the • distribution of traffic generated from the proposed development;
  - chapter 10 Traffic Modelling, which sets out the methodology for modelling the development traffic on the road network using the OCC strategic model;
  - chapter 11 Junction Assessments, which sets out the thresholds for junction assessment and the results of the junction capacity assessments, including identification of mitigation schemes where appropriate; and
  - chapter 12 Summary and Conclusions.

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#### Introduction 2.1

2.1.1 In producing any technical planning document it is essential to set this against the relevant national, regional and local policies that apply at the time. This chapter aims to provide a summary of these policies and their relevance to the project.

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#### 2.2 **National Guidance**

# Managing Our Roads (DfT, 2003) and the Future of Transport - A Network for 2030 (DfT White Paper, 2004)

- 2.2.1These documents set out the Government's long-term strategy for transport. An objective of the Government's strategy is to deal with the pressures of increasing demand for travel by striking the right balance among environmental, economic and social objectives, now and into the future.
- 2.2.2 The Strategy states that road networks will only be expanded where it is justifiably required on environmental and social reasoning. Technology and travel behaviour change initiatives will be used to ensure developments and facilities are more accessible for all, whilst aiming to negate environmental impacts of development.

# Planning Policy Guidance 13: Transport (PPG 13)

- 2.2.3 PPG 13 describes the link between planning and transport policy and aims to integrate planning and transport at the national, regional, strategic and local level, thus enabling more sustainable transport choices including: to promote accessibility to jobs; shopping; leisure facilities and services by public transport; walking and cycling; and reduce the need to travel, especially by car.
- 2.2.4Sustainable transport alternatives should be provided to cover a wide range of different trip purposes, thus reducing the need to travel by private car when a trip is unavoidable. Infrastructure and technological additions should be available to reduce the need to travel, where possible.

## The Essential Guide to Travel Planning - (DfT, March 2008) and Making Residential Travel Plans Work, (DfT, 2007)

2.2.5 These documents provide a detailed framework on workplace and residential travel planning. The benefits include: greater accessibility; reduced congestion; improved local environmental conditions; and significant modal shift towards sustainable transport. Evidence suggests that workplace travel plans can reduce car use by up to 18% and residential travel plans can improve residents' knowledge of travel options.



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# Guidance on Transport Assessment (DfT, 2007)

2.2.6 This document is intended to assist stakeholders in determining whether an assessment may be required and, if so, what the level and scope of that assessment should be. It provides guidance on the content and preparation of TAs and Transport Statements (TSs). It is not a statement of Government policy and should be read in conjunction with, and in the context of, relevant Government policies, particularly those relating to transport and planning.

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#### 2.3 Local Policy

# Adopted Local Plan 1996

- 2.3.1Relevant policies are as follows:
  - **Policy TR1** Before proposals for development are permitted the council will require to be satisfied that new highways, highway improvement works, trafficmanagement measures, additional public transport facilities or other transport measures that would be required as a consequence of allowing the development to proceed will be provided.
  - **Policy TR7** Development that would regularly attract large commercial vehicles or large numbers of cars onto unsuitable minor roads will not normally be permitted.
  - Policy TR10 Development that would generate frequent heavy-goods vehicle movements through residential areas or on unsuitable urban or rural roads will not be permitted. The council will resist proposals for the establishment of heavygoods-vehicle operating centres where they would create traffic problems or adversely affect the amenity of residential areas or villages.

# **Non-Statutory Cherwell Local Plan 2011**

- 2.3.2 Relevant policies are as follows:
  - **Policy S1** Proposals that are likely to generate an increased demand for travel should be located in accordance with a sequential approach. First preference will be for a town centre location where suitable sites or buildings suitable for conversion are available, followed by an edge-of-centre site, and finally an out-of centre location can be considered, but only if it is accessible by a choice of means of transport.
  - Policy TR1 All traffic generating development must contribute to achieving the objectives of the local transport plan
  - Policy TR2 Major generators of travel demand should be located in existing centres which are highly accessible by means other than the private car.
  - Policy TR4 Before proposals for development are permitted the council will need to be satisfied that all appropriate mitigation measures required to support that development are identified within an implementation programme. Such measures



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will include highway improvements, traffic management measures, improved public transport and/or facilities, and measures to improve pedestrian and cycle accessibility.

- Policy EMP4 Proposals for employment generating development, including redevelopment, will be permitted within an existing acceptable employment site provided that:-
  - (i) the proposal and any associated employment activities can be carried out without undue detriment to residential amenity, the highway network, village character, the appearance and character of the landscape and the environment generally including any buildings or features of designated importance;
  - (ii) the proposal is for small firms (up to about 500 square metres) or for firms whose source of supply, commercial linkages, labour supply and markets make a specific location necessary for them; and
  - (iii) the proposal will not give rise to excessive or inappropriate traffic and will wherever possible contribute to the general aim of reducing the need to travel by private car.
  - A minor extension to an existing acceptable employment site within or immediately adjoining a village will be permitted provided the proposals comply with criteria (i) to (iii) above.

# Oxfordshire Local Transport Plan 2011 -2030, April 2010

2.3.3 The third Oxfordshire Local Transport Plan (LTP3) 2011 - 2030 sets out a series of general policies to guide the future development of transport over the course of the Plan, together with more specific policies for each of the objectives identified. One of the general polices is Policy G4:

> "Policy G4 Oxfordshire County Council will seek, as a priority, external funding to deliver:...

- transport improvements within and around Eco-Bicester."
- 2.3.4 Objective 2 of the LTP3 relates to tackling traffic congestion. This section identifies that in developing schemes to reduce congestion, the range of possible solutions will be looked at in the following order of priority:

"1st. Encourage walking, cycling and public transport use.

2nd. Manage the network more effectively.

3rd. Capacity improvements, for example at junctions.

4th. Road widening.

5th. New link roads or bypasses."

- 2.3.5Measures to achieve the objective will include traffic reduction through:
  - "improving facilities for or encouraging use of modes that place fewer demands on the road network;

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- working without the need to travel; and
- encouraging car sharing."
- 2.3.6 Objective 5 relates to securing infrastructure and services to support development.

"Policy SD1 Oxfordshire County Council will seek to ensure that:

- the location and layout of new developments minimise the need for travel and can be served by high quality public transport, cycling and walking facilities;
- developers promote sustainable travel for all journeys associated with new development, especially those to work and education, and;
- the traffic from new development can be accommodated safely and efficiently on the transport network.

Policy SD2 Oxfordshire County Council will:

- secure contributions from new developments towards improvements for all modes of transport. This can be financial contributions or direct works for the mitigation of adverse transport impacts in the immediate locality and/or wider area improvements;
- ensure that all infrastructure associated with the developments is provided to appropriate design standards;
- set local routeing agreements to protect environmentally sensitive locations from traffic generated by new developments, and;
- normally seek commuted sums towards the long term operation and maintenance of facilities, services and infrastructure."
- 2.3.7 It is recognised in the LTP3 that the amount of new development across the county will have a major impact on the local transport network. OCC is committed to working with partners to ensure that new development does not cause problems for the transport network and:
  - "is located in accordance with the relevant spatial policies;
  - has a minimal adverse impact on the existing highway network by providing appropriate highway mitigation works;
  - contributes to improvements to the transport network and services, either for better management of existing infrastructure and services or for the provision of new facilities;
  - has a travel plan covering, amongst other things, proposals for lower traffic generation and the promotion of more sustainable travel modes;
  - *is designed to encourage and support the increased use of sustainable means of transport;*
  - does not impose undue stress on ongoing maintenance revenue costs; and

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- complies with current regional, national and local policy guidance, is designed to modern contemporary design standards, and built to the council's specifications."
- 2.3.8 Objective 8 of LTP3 is to develop and increase the use of high quality, welcoming public transport with the aim of extending Oxfordshire's successful public transport model for journeys into the centre of Oxford to other parts of the county, including new developments, to provide more of the county with a real choice of attractive, frequent and welcoming public transport.

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- 2.3.9 Objective 9 of LTP3 is to develop and increase cycling and walking for local journeys, recreation and health.
- 2.3.10 LTP3 includes area-specific transport strategies, which include Bicester. Designated as one of four national 'eco town' locations in 2009, this has acted as the catalyst for the Eco Bicester One Shared Vision which underpins the Bicester Transport Strategy. Northwest Bicester is required to achieve a life/work balance to meet containment targets, and a high level of sustainable transport use, and is seen as a potential means to trigger a change in travel behaviour across the whole town and ensure that the highway network functions with the remaining car trips. It is recognised that Bicester currently has congestion problems, especially on the A41 and on the B4030 outside Bicester Village Retail Park, particularly at weekends and on Bank Holidays, which has knock-on effects for 'rat run' routes such as through Chesterton.
- The Transport Strategy for Bicester is as follows: 2.3.11
  - o "Behaviour Change We will promote behaviour change through the Bicester Travel Behaviour Project; working with employers that have high car trip rates to understand current travel patterns, and looking for opportunities to change travel to work patterns. We will also continue to work with the schools to update their school travel plans.
  - Walking and Cycling We will create and improve pedestrian and cycle routes throughout the town, promote the public realm enhancements to the Market Square and improve the street environment for pedestrians and cyclists at key destinations and employment sites. There is a good range of public rights of way that connect Bicester to the surrounding countryside, but the network is disjointed in many places where paths meet the road network
  - o Buses A rapid bus route is proposed between the development site at northwest Bicester and the town centre, bringing Bicester area bus stops up to Premium Route standard. We will also deliver bus infrastructure and priority to improve bus reliability on the A41 corridor and create a park and ride facility adjacent to the A41 (subject to demand assessment). Other aims include investigation of new electric/hybrid vehicles on key routes such as the exemplar site at northwest Bicester and securing developer contributions to enhance the routeing and frequencies of local bus services.
  - Low Emission Vehicles We will introduce charging points for electric vehicles in the town through the 'Plugged in Places' project, including







routes where electric buses run. We will also work with local organisations to encourage the use of lower carbon emission vehicles.

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• **Rail** - We will work closely with Chiltern Railways and other partners to ensure that travel by foot, bike, bus, and car share are the main means of accessing rail in Bicester. Use of sustainable travel options for journeys with an origin within Bicester is to be significant so that car travel to the stations is kept to a minimum.

We will support the upgrade of Bicester Town station, working with the East West Rail consortium to provide a new link to Milton Keynes and Bedford (and direct services to Didcot Parkway and Reading).

We will also ensure delivery of high quality public transport from the development at northwest Bicester to Bicester North and Bicester Town stations, including better cycle routes and improved cycle parking, plus the development of a bus interchange at Bicester Town.

- Highway Infrastructure and Traffic Management We will work with the developers of North West Bicester to promote integration with the existing town, incorporating Eco Bicester principles to promote safer, more sustainable and healthier modes of travel. This will include reducing the attractiveness of Howes Lane and Lords Lane for through traffic and investigating improvements to the Eastern Perimeter route to provide through traffic with a viable and attractive alternative to the central corridor. We will also work with the developers of South West Bicester to ensure delivery of the South-West Bicester Perimeter Road and with the Highways Agency to ensure delivery of improvements to M40 Junction 9 and investigate the need to improve M40 Junction 10 and its approaches. We will deliver the second phase of Roman Road improvements to complete reconstruction of the road from the new A41 roundabout link to the turn to the Chesterton over bridge. We will also conduct a traffic signage review on the strategic road network particularly from A41, A4095 and A4421 of signage to Bicester to remove clutter and ensure the routeing is correct."
- 2.3.12 LTP3 also covers "*Inter-urban Corridors*", and identifies that there are eight key inter-urban corridors within the county, each with its own strategy to help tackle problems and challenges that have been identified. This includes:

"Oxford-Bicester Corridor - better manage traffic volumes on A34; investigate options for park and ride from Bicester and bus priority; support proposals for improvement of M40 Junction 9; support proposals for Evergreen 3 and East West rail improvements."

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# 3. Existing Situation

# 3.1 Site Context

3.1.1 This section provides a description of each of the sites.

# Graven Hill - D Site and E Site

3.1.2 The Graven Hill site comprises two main internal site areas known as D and E Sites, surrounding the upper slopes of the Hill, which, with the exception of St David's Barracks on its south side, consists mainly of woodland and agricultural land. D and E Sites are linked internally by both road and rail: two circular roads circumnavigate the Hill, as does a rail circuit and sidings, linked to the national network to the west of the Site (the Bicester to Oxford line) and to the MOD rail freight network at Arncott to the south-east.

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- 3.1.3 D Site is located to the south-east of Graven Hill. It is bounded to the north-east by the A41 Aylesbury Road. The southern and eastern boundaries of D Site are formed by adjoining agricultural fields with a railway line within D Site on both of these edges. Wretchwick Farm adjoins the Site to the north east and has a listed building as part of this complex. St David's Barracks and Graven Hill are to the west.
- 3.1.4 D Site is c. 57ha in total and contains eight large warehouses. There are also a number of smaller buildings centrally in the form of a training building and fire station complex and five large hardstanding areas along the southern edge of the site. The main D Site access is currently via E Site for security reasons but there is a vehicular access off the A41 via Pioneer Road in the north of the Site. Rail access into D Site is from the south-western corner, with spurs servicing all the large warehouses.
- 3.1.5 E Site is located to the south-east of the main town of Bicester. It is bounded to the north-east by the A41 Aylesbury Road, the railway line to the west, railway tracks and sidings to the south-west and Graven Hill to the east. E Site adjoins the Bicester International Freight Terminal (BIFT) which extends some 6ha to the east of the Site along the A41.
- 3.1.6 E Site is c. 70.5ha in total and contains four main large warehouses. There are also several smaller offices, administration and industrial buildings scattered across the site. Vehicular access to E Site is from its north-east corner, off the A41. There is a further access point (currently closed) in the south, off Langford Lane, which in turn leads out to join the A41 to the west. Rail access into E Site is from the south, near the sidings area. The main rail route follows the majority of the northern and western edges of the site. The northern part of E Site is not developed and is still farmed with grazing livestock.
- 3.1.7 St David's Barracks, which lies to the south side of Graven Hill, is a retained military site and does not form a part of the development proposals.

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## **Existing Traffic Generation**

3.1.8 Classified counts were undertaken in July 2010. The results are included in Appendix B and are set out below in Table 3.1.

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Starting Time	т	wo-way Traffic Movemen	ts
	LV	HGV	Total
0000	4	2	6
0100	4	1	5
0200	4	2	6
0300	10	2	11
0400	9	1	10
0500	26	3	29
0600	72	4	75
0700	116	9	125
0800	75	11	87
0900	72	14	86
1000	54	14	68
1100	64	13	77
1200	88	8	96
1300	91	10	101
1400	56	8	64
1500	82	9	90
1600	115	7	123
1700	31	5	36
1800	17	4	22
1900	11	2	12
2000	8	2	10
2100	21	5	26
2200	10	2	13
2300	5	2	6
Total	1,043	141	1,184

#### Table 3.1 Existing Graven Hill Traffic Generation (D and E Sites)

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## C Site

3.1.9 C Site is located to the west of Arncott Hill and south-east of the Graven Hill site. C Site is bounded to the north by civilian properties off Ploughley Road. Norris Road is situated to the east. Civilian properties also bound the eastern edge of the site as part of the Upper Arncott Settlement with Murcott Road forming the south eastern boundary of the site. The western boundary is formed by railway lines within the site and agricultural fields adjoining the site.

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- 3.1.9.1 The site is c. 83ha in total and contains numerous large warehouses, most with road and rail access. Access to the site is off Norris Road. A further access point (currently closed) is to the south off Murcott Road.
- 3.1.10 The main rail access into the site is from the north-west corner and a link to other MOD land at Arncott leaves the south east corner of the site. A further link leaves the site in the north-east corner.
- 3.1.11 The proposed warehouse building will be located in the northern half of C Site. To make way for development, five large warehouse/workshop buildings and several smaller, ancillary support buildings will be demolished.

### **Existing Traffic Generation**

3.1.12 Classified turning counts over a 24 hour period at the site entrance were undertaken in June 2011. The results are set out below in Table 3.2 and included in Appendix B.

Time from			То	otal Two-wa	y Movemer	nts		
Time from	Car	Lgv	Ogv1	Ogv2	Psv	Мс	Рс	Total
00:00	2	0	1	0	0	0	0	3
01:00	3	0	0	0	0	0	0	3
02:00	1	0	0	0	0	0	0	1
03:00	1	0	0	1	0	0	0	2
04:00	1	0	0	1	0	0	0	2
05:00	11	1	0	0	0	0	0	12
06:00	64	1	0	1	0	2	0	68
07:00	139	12	2	4	0	3	2	162
08:00	116	25	3	11	0	1	4	160
09:00	74	22	11	3	0	0	1	111
10:00	40	27	11	2	0	0	0	80
11:00	37	24	9	7	0	0	0	77
12:00	74	20	12	4	0	2	0	112
13:00	62	17	7	1	0	0	3	90
14:00	65	21	7	6	0	0	0	99

### Table 3.2 C Site - Existing Traffic Generation

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15:00	80	10	5	4	0	2	0	101
16:00	141	15	2	3	0	1	6	168
17:00	68	5	1	2	0	3	3	82
18:00	31	5	0	0	0	0	0	36
19:00	2	5	0	0	0	0	0	7
20:00	2	2	0	0	0	0	0	4
21:00	9	3	3	0	0	0	0	15
22:00	9	1	2	0	0	0	0	12
23:00	7	1	1	0	0	0	0	9
Total	1,039	217	77	50	0	14	19	1,416

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#### 3.2 **Road Network**

3.2.1 Figure 1.1 identifies the road network in the area. The following sections provide a description of the road network, subdivided into Strategic Road Network (SRN) under the remit of the HA and the local road network.

# Strategic Road Network

- 3.2.2 The SRN in the area comprises the M40 to the west of Bicester and the A43(T) at Junction 10, some five miles to the north of the town centre, and accessed via the B4100. Junction 9 is the main point of access to/from Bicester via the A41, but is also the key route into north Oxford via the A34. Both junctions suffer from peak hour congestion, more acutely at Junction 9 because of the A34 route to Oxford. The HA has recently completed improvements at the junction, namely:
  - the M40 Junction 9 southbound exit slip-road has been increased from two lanes to three lanes;
  - the roundabout between the A41 exit and entry points has been modified to provide three lanes:
  - the A34 southbound has been widened for approximately 600 metres and increased from two to three lanes: and
  - new traffic signals with extra low voltage (ELV) LED lights have been installed as well as three CCTV cameras which will be accessible by both the HA and OCC, providing improved operation of the A34/M40 roundabout and response times to incidents on the junction.
- 3.2.3 The improvements were completed in early 2011. Due to the construction of new junctions on the A41 as part of the permitted South West Bicester development, traffic counts to assess the impact of the Phase 1 scheme had not yet been undertaken at the time of writing this TA.

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- 3.2.4 The HA has identified Phase 2 improvements, however, these will only be completed when funding becomes available, most likely through developer contributions. The planned improvements include:
  - widening the A34 northbound carriageway approach from two lanes to three lanes, then to four lanes at the roundabout;
  - introduction of traffic signals on the A34 northbound approach;
  - widening the A41 northbound exit from two lanes to three lanes; and
  - extension of the A41 southbound three lane approach flare.

# Local Road Network

- 3.2.5 As identified in Figure 1.1, the main highway network feeding the sites is the A41 running north-south to Junction 9 of the M40 and A34, and A41 running east-west towards Aylesbury and north London.
- 3.2.6 From Junction 9 of the M40 northwards towards Bicester, the A41 is a dual carriageway county road linking the partially signalised M40 roundabout junction. There is a compact grade separated junction at Chesterton and Wendlebury, some 2.4km from Junction 9. Just north of this is the new three arm roundabout intersecting with the South West Bicester perimeter road, which has been under construction as part of the South West Bicester development. The A41 turns eastwards at the A41/B4030 roundabout, a four arm junction with an ESSO petrol filling station with service area on the west approach. On the east side of the A41, 500m south of the B4030 roundabout, is a retail park with, currently, a left in, left out access off the southbound carriageway of the A41.
- 3.2.7 On the B4030, 150m to north of the ESSO roundabout is another roundabout providing access to a Tesco superstore and Bicester retail village, and there is pelican crossing immediately north of the A4030 (Tesco) roundabout. 100m north of this roundabout is a three arm mini roundabout with the B4030 link westwards to Whitney. The B4030 is de-restricted just south of the mini roundabout and 40mph to the north.
- 3.2.8 The A41 east of the B4030 roundabout is a single carriageway county road with a 60mph speed limit. The A41/B4100/A4421/Graven Hill North Road roundabout is a key junction which provides access into the proposed Graven Hill development, the town centre and the eastern perimeter road. This experiences capacity issues during peak periods. About 700m to the east is the A41/Pioneer Road priority junction which provides a secondary access to the Graven Hill site, as described in chapter 4 of this document. The carriageway width of the A41 between the junctions is 10m
- 3.2.9 About 400m east of the Pioneer junction is the A41/Ploughley Road priority junction with a ghost island right turn lane from the A41. This right turn has a capacity for around 15 cars. The Ploughley Road arm has two short lanes on the approach to the give way line. Visibility in both directions is to standard. Both the A41 and Ploughley Road are subject to 60mph speed limits on the approach to the junction. The carriageway width of the A41 up to and approximately 120m after the junction is 10m.



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- 3.2.10 Ploughley Road routes through the village of Ambrosden and has a 30mph speed limit within the village envelope. There is a shared use footway/cycleway on the north side of the road and a footway on the southern side for most of the length of the road through the village. A toucan crossing has been recently been constructed in the vicinity of the local community centre and shop, replacing a dropped kerb/pedestrian refuge crossing point. Continuing through the village, a primary school is located on the eastern side of Ploughley Road with vehicular accesses on the roads off Ploughley Road, north and south of the school site. In addition, there is a pelican crossing on Ploughley Road which is located directly in front of the pedestrian access into the school playground.
- 3.2.11 Further east on the A41 is the A41/B4011 priority junction with a ghost island right turn from the A41. The right turn lane has a capacity for up to eight cars. The B4011 arm flares on approach to the give way line providing a short slip for left turning vehicles towards Bicester, and is signed for all HGVs to MOD Bicester. Visibility in both directions is to standard. Both the A41 and B4011 are subject to 60mph speed limits on approach to the junction, enforced by a speed camera east of the junction for westbound vehicles.
- 3.2.12 The villages of Lower and Upper Arncott have a mix of vertical and horizontal traffic calming in the form of speed cushions and chicanes. HGV traffic from the existing MOD sites is advised (through signing) to use Palmer Avenue to minimise the impact on the village of Lower Arncott and Ambrosden. Palmer Avenue is subject to a 60mph speed limit and is accessed from the west off Ploughley Road via a mini three arm roundabout and from the east off the B4011 via a priority T junction.

# 3.3 Pedestrian Accessibility

# Graven Hill

- 3.3.1 As an existing military site, there is limited access by the public to the Graven Hill site and there are no Public Rights of Way (PRoWs), through the site. The majority of the permeability is provided by the existing highway network. There are a series of PRoWs surrounding the site for access through and around what is predominately farm land. Within the site however, there are extensive routes which will be retained as the site is re-developed.
- 3.3.2 An existing pedestrian underpass provides a safe and directing crossing point under the A41 to the B4100 and Bicester town centre. The underpass is accessed from the north-west of the Graven Hill E Site via a route that leads to Langford Park Farm. The underpass leads to a footpath on the northern side of the A41 which becomes an access road to four properties off the B4100. The photographs below illustrate the underpass from the site and from the footpath respectively.

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### Pedestrian Underpass



- 3.3.3 Whilst the condition of the underpass is good and it is wide enough to accommodate pedestrians and cyclists, the appearance and perceived safety of the route would need to be improved.
- 3.3.4 There is also a surface level informal crossing point across the A41, to a footway on the north side of the A41 and a direct connection to the B4100. In its current form, this is an inadequate and inappropriate crossing location given the vehicular speeds along the A41 at this point in the existing situation.
- 3.3.5 There are pedestrian crossing facilities in the form of dropped kerbs at the five arm roundabout junction between the A41 Aylesbury Road and the A4421 and the B4100 London Road. However, given the speed and volume of traffic along the A41, this is not an ideal pedestrian environment in its existing form.
- 3.3.6 There are good pedestrian links on the routes off the roundabout. A shared use pedestrian/cycleway runs alongside the A4421 and partly along the B4100. A footpath extends along the southern section of the A41 east of the roundabout. The B4100 London Road provides an important pedestrian link from the Graven Hill Site to both Bicester Town Railway Station and Bicester town centre.
- 3.3.7 The Graven Hill Site benefits from the National Cycle Route 51 between Oxford and Milton Keynes. An 'on road' section of the route running from Oxford into Bicester crosses the M40, passing through Wendlebury, joining up with the A41 on a separate cycle lane south of Bicester. A new cycle route is proposed along the A41 running south-east from the junction with the B4030 up to the railway line.
- 3.3.8 There are a number of links through the centre of Bicester which form part of the cycle route, including a path along the brook between Langford Village and Bicester. This can be accessed from the London Road, approximately 500m from the north of the Graven Hill Site, and from here a link is possible along a combination of 'on road' and 'traffic free' cycle routes to North Bicester Railway Station.
- 3.3.9 Figure 3.1 illustrates the existing footway and cycle network within and around Bicester.

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# C Site

- 3.3.10 As an existing military site, there is restricted access to the public and there are no PRoWs through C Site. There are adequate on-site pedestrian facilities. There are currently no dedicated cycle routes on site, however cycle parking is provided for staff usage.
- 3.3.11 In the vicinity of the Site there are numerous good quality footways, linking the Site to both Lower and Upper Arncott, from which users can reach local facilities, such as a Post Office, supermarket and bus stops to Bicester.
- 3.3.12 There is an off road shared use walking and cycling route in the vicinity of C Site which runs along Ploughley Road from the A41 and ends near the railway level crossing by the C Site entrance. This route provides an opportunity to cycle from C Site to Bicester and to link into other local cycling routes.
- 3.3.13 In the wider area, National Cycle Route 51 between Oxford and Milton Keynes is located approximately 3km from C Site. This 'on road' section of the route running from Oxford into Bicester crosses the M40, passing through Wendlebury, joining up with the A41 on a separate cycle lane south of Bicester.
- 3.3.14 Figure 3.2 presents the key walking and cycling routes in the locality of C Site.

#### 3.4 Accessibility to Public Transport

### **Bus Services**

- 3.4.1 The Graven Hill site is currently not directly served by a bus service. Bus services 23 and S5 (Oxford to Langford bus route via Bicester) pass by the Site to the north, along the A41 and the B4421 London Road. Service S5 routes through Arncott and serves the C Site. A summary of the bus services is set out in Table 3.3 and is illustrated in Figure 3.3.
- 3.4.2 The Graven Hill bus stop on the London Road is approximately one minute walk from the entrance to the Graven Hill site. In addition, the Langford Village, Ravencroft bus stop is located approximately five minutes walk from the Graven Hill Site.

#### Table 3.3 **Existing Regular Bus Services**

		Monday to Saturday Daytime	Evenings and Sundays	
S5	Oxford - Gosford - Bicester - Glory Farm - Langford	Every 60 mins*	2 journeys on Sunday	Stagecoach
23	Bicester Town circular via Southwold, Caversfield and Bure Park	Every 60 mins	No service	Grayline

Source: OCC. Journeys from Oxford stop at Langford Village, Ravencroft. Journeys to Oxford stop at Graven Hill, London Road

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# **Rail Services**

- 3.4.3 Bicester has two rail stations, the locations of which are shown in Figure 3.2. Bicester Town Station is located approximately 1km to the north-west of the Graven Hill site, within comfortable walking distance (10-15 minutes journey time). The rail station is served by trains to Oxford. From Oxford, connections are available to a number of stations across the south of the country including Swindon, Reading and London Paddington. Services between Bicester and Oxford currently operate at a frequency of one every 90 minutes every day, with a journey time of around 25 minutes.
- 3.4.4 Chiltern Railways' Evergreen 3 scheme comprises proposals to dual the track between Oxford and Bicester and to provide an additional station adjacent to the Water Eaton Park and Ride Facility (to the north of Oxford) and a new Bicester Town Station. The proposed works include the replacement of all level crossings with bridges, with the exception of the London Road level crossing adjacent to Bicester Town Station. The plans include proposals to upgrade the London Road level crossing as part of wider proposals to enhance this 'gateway' to Bicester and which forms the direct link between Graven Hill and the town centre.
- 3.4.5 The Bicester to Oxford passenger rail line runs along the western edge of the site. The freight line serving the MOD Bicester estate is a spur off this main line which links along the southern edge of Graven Hill and onto the sites at Upper Arncott.
- 3.4.6 In addition, Bicester North Railway Station is located approximately 2km north-west of the Graven Hill site. The station is within 30 minutes walking distance from the site, and approximately five minutes drive.
- 3.4.7 Passenger services to and from Bicester North Station are provided by Chiltern Railways, providing direct services between Birmingham and London Marylebone. Services between North Bicester and London Marylebone operate at an average frequency of one every 15 minutes every day, with an average journey time of one hour and five minutes.

# 3.5 Existing Road Safety Assessment

- 3.5.1 Personal Injury Accidents (PIAs) are road traffic accidents where either slight, serious or fatal injuries to people have been recorded. The data would generally include such information as the location of the accident, number of casualties, modes of travel involved, age and gender of those involved and factors contributing to the accident.
- 3.5.2 The Department of Transport document '*Guidance on Transport Assessment*' (2007) states that a Transport Assessment should: "*identify any significant highway safety issues and provide analysis of the recent accident history of the study area*".
- 3.5.3 Recorded PIAs were obtained from OCC for a number of highway links in the vicinity of Bicester for a five year period between January 2006 and May 2011. The accident assessment area is shown in Figure 3.4 and the records are included in Appendix C.
- 3.5.4 The recorded PIAs were reviewed in order to determine whether there is a history of accidents in the vicinity of the development sites.

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## **Study Area**

3.5.5 Recorded PIAs have been grouped into clusters on the following links and junctions (where occurred within 20m of the junction).

## Links

- a) A41 (Oxford Road) between Junction 9 of the M40 and Little Chesterton road;
- b) A41 (Oxford Road) between Little Chesterton road and Alchester Road junction;
- c) A41 (Oxford Road) between the Alchester Road junction and the A41 (Boundary Way)/B4030 (Oxford Road) roundabout;
- d) Kings End/Queens Avenue between the B4030 (Middleton Stoney Road) and St Johns Street;
- e) A4421 (Skimmingdish Lane) between the A4095 (Southwold Lane)/Buckingham Road roundabout and the Launton Road/Skimmingdish Lane roundabout;
- f) A4421 (Charbridge Lane) between the Bicester Road/Charbridge Lane roundabout and the Charbridge Lane/Wretchwick Way roundabout;
- g) Wretchwick Way between Charbridge Lane/Wretchwick Way roundabout and the Peregrine Way/Wretchwick Way priority junction;
- h) Seelschield Way between Peregrine Way/Wretchwick Way roundabout and the A41(Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout;
- A41 (Boundary Way) between A41 (Oxford Road/B4030 (Oxford Road) roundabout and the A41(Boundary Way)/Aylesbury Road/Westacott Road/ London Road roundabout;
- j) A41 (Aylesbury Road) between the A41(Boundary Way)/Aylesbury Road/ Westacott Road/London Road roundabout and Ploughley Road/A41 (Aylesbury Road) priority junction;
- k) A41 (Aylesbury Road) between the Ploughley Road/A41 (Aylesbury Road) priority junction and A41 (Aylesbury Road)/B4011 priority junction;
- 1) Ploughley Road between Ploughley Road/A41 (Aylesbury Road) priority junction and East Hawthorn Road/Ploughley Road priority junction;
- m) B4011 between the Palmer Avenue/B4011 priority junction and B4011/A41 (Aylesbury Road) priority junction;
- n) Palmer Avenue between the Palmer Avenue/B4011 priority junction and Ploughley Road/Palmer Avenue mini roundabout;
- o) B4011 between the Palmer Avenue/B4011 priority junction and the access to Greencourt Boarding Kennels; and
- p) Murcott Road between the Ploughley Road/Palmer Avenue mini roundabout and the Murcott Road/Arncott Wood Road priority junction.

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### Junctions

- a) M40, Junction 9/A41 (Oxford Road) grade separated roundabout;
- b) A41(Oxford Road)/Unnamed Road toward Little Chesterton priority junction;
- c) A41(Oxford Road)/Unnamed Road toward Chesterton priority junction;
- d) A41(Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout;
- e) B4030(Oxford Road)/Pingle Drive roundabout;
- f) B4030(Middleton Stoney Road/Kings End priority junction;
- g) A4095(Southwold Lane)/A4421(Skimmingdish Lane) roundabout;
- h) A4421(Skimmingdish Lane)/Launton Road roundabout;
- i) A4421(Charbridge Lane)/ A4421(Skimmingdish Lane)/ roundabout;
- j) Peregrine Way/Wretchwick Way priority junction;
- k) Peregrine Way/Wretchwick Way roundabout;
- 1) A41(Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout;
- m) Ploughley Road/A41 (Aylesbury Road) priority junction;
- n) East Hawthorn Road/Ploughley Road priority junction;
- o) Merton Road/Ploughley Road and Ploughley Road/Unnamed Road toward Ambrosden priority junctions;
- p) Ploughley Road/Palmer Avenue mini roundabout;
- q) Palmer Avenue/B4011 priority junction; and
- r) B4011/Widnell Lane priority junction
- 3.5.6 The IHT publication *Transport in the Urban Environment* (1997), Section 7.4, recording of accidents provides definitions for each classification of accident:
  - "Slight injury injuries of a minor nature, such as sprains, bruises or cuts not judged to be severe, or slight shock requiring roadside attention;
  - Serious injury injuries for which a person is detained in hospital or any of the following injuries, whether or not the person is detained in hospital; fractures, concussion, internal injuries, crushing, severe cuts or lacerations, severe shock and injuries that result in death more than 30 days after the accident; and
  - Fatal injury injuries which cause death either immediately or at any time up to 30 days after the accident."

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3.5.7 A total of 216 PIAs were recorded in the search area during the five year period between January 2006 and May 2011. Of these, 98 were recorded within surveyed links and 118 at the surveyed junctions. 182 PIAs were classified as slight, 29 PIAs as serious and five as fatal. Of the PIAs recorded, seven involved pedestrians, eight

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involved pedal cyclists and 37 involved motorcyclists. A summary of the PIA data is provided in Tables 3.4 and 3.5. The PIA links and junctions are shown in Figure 3.4.

Link		Severity		Vuli	nerable Road	User
	Slight	Serious	Fatal	Pedestrian	Cyclist	Motorcyclists
(a)	14	0	0	1	0	2
(b)	1	0	0	0	0	0
(c)	9	2	0	0	0	1
(d)	11	2	0	3	1	3
(e)	3	1	0	0	0	1
(f)	6	1	0	0	0	1
(g)	0	1	0	0	1	0
(h)	0	2	0	0	1	0
(i)	8	0	0	0	0	1
(j)	4	1	0	1	2	1
(k)	2	1	0	0	1	0
(I)	3	0	0	0	0	0
(m)	12	6	1	0	0	3
(n)	2	0	0	0	0	0
(o)	3	0	0	0	0	1
(p)	2	0	0	0	0	1
Total	80	17	1	5	6	15

#### Table 3.4 **PIA Data Summary - Links**

#### **PIA Data Summary - Junctions** Table 3.5

Junction		Severity		Vul	Vulnerable Road User			
-	Slight	Serious	Fatal	Pedestrian	Cyclist	Motorcyclists		
(a)	45	2	2	0	0	7		
(b)	2	0	0	0	0	0		
(c)	3	0	0	0	0	0		
(d)	8	1	0	0	0	2		
(e)	1	0	0	0	0	0		
(f)	6	0	0	0	2	1		
(g)	8	0	0	1	0	2		
(h)	0	2	1	0	0	2		

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Junction		Severity		Vulnerable Road User			
-	Slight	Serious	Fatal	Pedestrian	Cyclist	Motorcyclists	
(i)	2	0	0	0	0	0	
(j)	3	0	1	0	0	1	
(k)	2	2	0	0	0	2	
(I)	12	2	0	0	0	2	
(m)	3	0	0	0	0	0	
(n)	2	0	0	1	0	1	
(0)	2	1	0	0	1	0	
(p)	1	1	0	0	0	1	
(q)	2	0	0	0	0	0	
(r)	0	1	0	0	0	0	
Total	102	12	4	2	3	21	

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# **PIA Analysis - Links**

## a) A41 (Oxford Road) between Junction 9 of the M40 and the local road to Little Chesterton

- 3.5.8 A total of 14 PIAs were recorded on the A41 (Oxford Road) between Junction 9 of the M40 and the unnamed road to Little Chesterton. No serious or fatal accidents were recorded.
- 3.5.9 Three of the PIAs involved vulnerable road users, two of which motorcyclists and were the result of rider error. The third involved a pedestrian, who, under the influence of alcohol stumbled on to the carriageway in the path of an oncoming vehicle.

## b) A41 (Oxford Road) between local road to Little Chesterton and the Alchester Road junction

3.5.10 One PIA was recorded within the five year survey period which resulted in slight injury and was caused by the driver of a vehicle swerving to avoid an untraced vehicle.

### c) A41 (Oxford Road) between the Alchester Road junction and the A41 (Boundary Way)/ B4030 (Oxford Road) roundabout

- 3.5.11 A total of 11 PIAs were recorded on this link within the five year survey period. Of the PIAs recorded, nine were classified as slight and two are serious.
- 3.5.12 The causation factor for the majority of the recorded PIAs suggests that the accidents were attributed to driver error/reckless driving, one of which involved a drunk driver. The two recorded serious PIAs were a result of a driver under the influence of alcohol and losing control of the vehicle and a driver failing to see queued traffic. One PIA involved a motorcyclist who lost control of his vehicle whilst lane changing.







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# d) King's End/Queen's Avenue between the B4030 (Middle Stoney Road) and St John's Street

- 3.5.13 A total of 14 PIAs were recorded on the King's End/Queen's Avenue between the B4030 and St John's Street. 12 PIAs were recorded as slight whilst two were recorded as serious. Seven of the recorded PIAs involved vulnerable road users.
- 3.5.14 The three PIAs involving pedestrians occurred as a result of a hit and run, a police car hitting a pedestrian on a footway and a pedestrian failing to look whilst crossing the carriageway and walking into an oncoming vehicle. The hit and run accident resulted in serious injury.
- 3.5.15 The three PIAs involving motorcyclists were a result of rider error and a vehicle that did not signal moved into the path of the motorcycle which resulted in serious injury.
- 3.5.16 The PIA involving a pedal cyclist was caused a result of the cyclist disobeying traffic signals and crossing on a red light.

# e) A4421 (Skimmingdish Lane) between the A4095 (Southwold Lane)/Buckingham Road roundabout and the Launton Road/Skimmingdish Lane roundabout

3.5.17 A total of four PIAs were recorded on this link of which one involved a motorcyclist. Three were classified as slight and one as serious. The slight PIAs were a result of driver error and excess speed. The serious PIA involved the motorcyclist and was a result of the rider losing control of his vehicle.

# f) A4421 (Charbridge Lane) between the Bicester Road/Charbridge Lane roundabout and the Charbridge Lane/Wretchwick Way roundabout

3.5.18 A total of seven PIAs were recorded during the survey period. Six were classified as slight and one as serious and were the result of driver error.

# g) Wretchwick Way between Charbridge Lane/Wretchwick Way roundabout and the Peregrine Way/Wretchwick Way priority junction

3.5.19 One PIA was recorded on Wretchwick Way between Charbridge Lane/ Wretchwick Way roundabout and the Peregrine Way/Wretchwick Way priority junction. This PIA occurred when a tree branch fell in the path of a pedal cyclist causing the cyclist to swerve and hit a lamp post.

### h) Seelschield Way between Peregrine Way/Wretchwick Way roundabout and the A41 (Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout

- 3.5.20 A total of two PIAs were recorded on this link within the five year survey period one of which involved a pedal cyclist. Both PIAs resulted in serious injury. The PIA involving the vulnerable road user occurred as a result of the rider losing control of the bicycle due to ice/snow on the footway. The cyclist entered the carriageway and was hit by a passing vehicle.
- 3.5.21 The other serious PIA was a result of an altercation between three vehicles.

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## i) A41 (Boundary Way) between A41 (Oxford Road/B4030 (Oxford Road) roundabout and the A41 (Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout

3.5.22 Eight PIAs were recorded on the A14 (Boundary Way) between A41 (Oxford Road/B4030 (Oxford Road) roundabout and the A41 (Boundary Way)/Aylesbury





Road/Westacott Road/London Road roundabout. All PIAs were classified as slight and all caused by driver error.

3.5.23 Of the eight PIAs recorded, one involved a motorcyclist. This occurred due to the rider losing control of his vehicle in damp road conditions.

#### j) A41 (Aylesbury Road) between the A41 (Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout and Ploughley Road/A41 (Aylesbury Road) priority junction

- 3.5.24 A total of five PIAs were recorded on this link during the five year survey period. Of these PIAs recorded, four were classified as slight and one classified as serious. Four of the five PIAs involved vulnerable road users; two pedal cyclists, one motorcyclist and one pedestrian.
- 3.5.25 The PIA classified as serious occurred as a result of the driver of the vehicle failing to see a parked car in the carriageway. The driver swerved to avoid however lost control and exited the carriageway way into the path of a pedal cyclist whilst riding on the adjacent off road cycleway.
- 3.5.26 The other PIA involving a cyclist was caused after the rider had a fit and fell into the carriageway. No other vehicles were involved.
- 3.5.27 The PIA involving a motorcyclist occurred after the rider of the motorcycle failed to slow and look properly and hit the rear of an HGV and a 'slight' injury incurred.
- 3.5.28 The PIA involving a pedestrian was caused after a vehicle deliberately drove at the pedestrian on the footway in a possible attempted assault/murder. The pedestrian was injured whilst trying to avoid the vehicle. Slight injury was recorded.

# k) A41 (Aylesbury Road) between the Ploughley Road/A41 (Aylesbury Road) priority junction and A41 (Aylesbury Road)/B4011 priority junction

- 3.5.29 A total of three PIAs were recorded on this link during the survey period. Two were classified as slight whilst one classified as serious, one involved a pedal cyclist.
- 3.5.30 The causation factor for the majority of the recorded PIAs suggests that the accidents were attributed to driver error. The PIA involving a pedal cyclist occurred due to the driver of a vehicle failing to leave enough passing distance between the vehicle and cyclist. The driver of the vehicle failed to stop.

# l) Ploughley Road between Ploughley Road/A41 (Aylesbury Road) priority junction and East Hawthorn Road/Ploughley Road priority junction

3.5.31 A total of three PIAs were recorded on the link, all of which were classified as slight. No vulnerable road users were involved.

# m) B4011 between the Palmer Avenue/B4011 priority junction and B4011/A41 (Aylesbury Road) priority junction

- 3.5.32 A total of 19 PIAs were recorded on the B4011 between its junction with Palmer Avenue and A41 (Aylesbury Road). 12 were classified as slight, six as serious and one as fatal. Three of the PIAs involved motorcycles.
- 3.5.33 The causation for the majority of the slight recorded PIAs suggests that these accidents were attributed to adverse weather conditions i.e. wet road surfaces.





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Another PIA was caused by a drunk driver whilst another occurred after a vehicle swerved to avoid an animal in the carriageway.

3.5.34 Of the six PIAs recorded as serious, the causation factor suggests these PIAs were a result of adverse weather conditions with four of the six PIAs attributed to drivers losing control of the vehicle in wet conditions.

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3.5.35 The fatal PIA was recorded on the B4011 on the bend approximately 500m south of New Farm in daylight hours. Vehicle One lost control of the vehicle at high speed in wet conditions and hit the front of the oncoming Vehicle Two rounding the bend from the opposite direction. Reckless driving was attributed to this PIA.

## n) Palmer Avenue between the Palmer Avenue/B4011 priority junction and Ploughley **Road/Palmer Avenue mini roundabout**

3.5.36 Two PIAs were recorded on this link within the five year survey period. Both PIAs were classified as slight. No vulnerable road users were involved. The occurrence of the PIAs was attributed to excessive speed and adverse weather (icy conditions).

## o) B4011 between the Palmer Avenue/B4011 priority junction and the access to **Greencourt Boarding Kennels**

- 3.5.37 A total of three PIAs were recorded on this link between Palmer Avenue and the Greencourt Kennels which identifies the boundary of the search area. All PIAs recorded were classified as slight. Of the three, one involved a motorcyclist after the rider lost control of his vehicle.
- 3.5.38 The other two PIAs were a result of a vehicle swerving to avoid an animal in the carriageway and a passenger climbing out of a taxi whilst it in motion.

### p) Murcott Road between the Ploughley Road/Palmer Avenue mini roundabout and the Murcott Road/Arncott Wood Road priority junction

3.5.39 Two PIAs were recorded on this link during the five year survey period. Both PIAs were classified as slight. One PIA involved a motorcyclist after it a deposit within the carriageway. The remaining PIA was a result of driver error.

# **PIA Analysis - Junctions**

# a) M40, Junction 9/A41 (Oxford Road) grade separated roundabout

- A total of 49 PIAs were recorded at Junction 9 of the M40/A41 roundabout over the 3.5.40 last five years. Of these PIAs recorded, 45 were classified as slight, two as serious and two as fatal. Seven involved motorcyclists of which, one resulted in a fatality.
- 3.5.41 The causation factor for the majority of the recorded PIAs suggests that the accidents were attributed to driver error in slow moving/queuing traffic. The two recorded fatalities were a result of a motorcyclist losing control of the machine and an HGV overshooting the junction which then overturned.

# b) A41 (Oxford Road)/Unnamed Road toward Little Chesterton priority junction

3.5.42 A total of two slight PIAs were recorded at this junction over the five year search period. All the PIAs were a result of driver error. No vulnerable road users were involved.



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3.5.43 A total of three slight PIAs were recorded at this junction over the five year search period. All the PIAs were a result of driver error. No vulnerable road users were involved.

# d) A41 (Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout

- 3.5.44 A total of 9 PIAs were recorded at this junction. Eight PIAs recorded were classified as slight and one PIA as serious All the slight accidents were attributed to driver error or losing control of the vehicle. Adverse weather and surface conditions were present during two of the recorded slight PIAs.
- 3.5.45 The serious PIA involved an intoxicated driver of a vehicle striking a motorcyclist.

# e) B4030 (Oxford Road)/Pingle Drive roundabout

3.5.46 One slight PIA was recorded at this junction during the search period and occurred as a result of driver error. No vulnerable road users were involved.

# f) B4030 (Middleton Stoney Road)/King's End priority junction

3.5.47 A total of six accidents were recorded at the B4030/King's End priority junction. Two PIAs involved cyclists whilst one PIA involved a motorcyclist. The PIAs involving vulnerable road users were a result of driver error, failure to give way. There are no accident patterns to suggest a road safety issue.

# g) A4095 (Southwold Lane)/A4421 (Skimmingdish Lane) roundabout

- 3.5.48 Eight PIAs were recorded at this junction during the five year survey period. All eight were classified as slight however; two involved motorcyclists and one pedal cyclist.
- 3.5.49 The PIA involving the pedestrian occurred as a result of a vehicle hitting the pedestrian on a crossing. The driver failed to stop at the scene. The first PIA involving a motorcyclist occurred as a result of a vehicle undertaking a u-turn into the path of the oncoming motorcycle.

# h) A4421 (Skimmingdish Lane)/Launton Road roundabout

3.5.50 A total of three accidents were recorded at this junction of which two were classified as serious and one as fatal. Of the accidents recorded, two involved motorcyclists of which one resulted in fatality due to being under the influence of alcohol whilst riding. The serious PIA was a direct result of the motorcycle hitting debris in the carriageway and losing control.

# i) A4421 (Charbridge Lane)/A4421 (Skimmingdish Lane)/roundabout

3.5.51 Two slight PIAs were recorded at this junction during the search period and occurred as a result of driver error. No vulnerable road users were involved.

# j) Peregrine Way/Wretchwick Way priority junction

3.5.52 A total of four PIAs were recorded at the Peregrine Way/Wretchwick Way priority junction over the last five years. Of these PIAs recorded, three were classified as slight and one as fatal. No serious PIAs were recorded. Of the PIAs recorded, one

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resulted in a fatality involving a motorcyclist. The cause of this was due to a vehicle crossing into the path of the motorcyclist.

3.5.53 The remaining slight PIAs were a result of driver error.

# k) Peregrine Way/Wretchwick Way roundabout

A total of four PIAs were recorded at this junction. Two classified as slight and two 3.5.54 as serious. No fatal PIAs were recorded. Two of the recorded PIAs involved motorcyclists and occurred as a result of the rider losing control of the machine.

### l) A41 (Boundary Way)/Aylesbury Road/Westacott Road/London Road roundabout

- 3.5.55 A total of 14 PIAs were recorded at the A41/Aylesbury Road roundabout over the last five years. Of these PIAs recorded, 12 were classified as slight and two as serious. No fatal PIAs were recorded. Of the 14 PIAs recorded, two involved motorcyclists.
- 3.5.56 The causation factor for the majority of the slight PIAs suggests that the accidents were attributed to driver error or vehicle failure. One involved an HGV with faulty brakes. The two recorded serious PIAs were a result of a motorcyclist losing control of the machine on loose gravel on the junction and a driver suffering a seizure whilst in the vehicle (no other cars were involved).

### m) Ploughley Road/A41 (Aylesbury Road) priority junction

- A total of three PIAs were recorded at this junction. All three were classified as slight. 3.5.57 No vulnerable road users were involved in the PIAs.
- 3.5.58 The causation factor for the majority two of the PIAs suggests that they were attributed to driver error. The other PIA occurred as a result of a vehicles defective steering.

#### n) East Hawthorn Road/Ploughley Road priority junction

A total of two PIAs were recorded at this junction. All PIAs were recorded as slight 3.5.59 however, both involved vulnerable road users. These were caused due to a vehicle failing to give way to a motorcyclist and a child pedestrian running onto the path of an oncoming vehicle.

### o) Merton Road/Ploughley Road and Ploughley Road/Unnamed Road toward Ambrosden priority junctions

- 3.5.60 A total of two PIAs were recorded in the vicinity of the Merton Road/Ploughley Road and Ploughley Road/Unnamed Road toward Ambrosden priority junctions. Two PIAs were recorded as slight whilst one was recorded as serious. The PIA recorded as serious involved a cyclist, which occurred as a result of the cyclist moving into the path of the vehicle.
- 3.5.61 Driver error was the causation factor of the slight PIAs.

#### p) Ploughley Road/Palmer Avenue mini roundabout

Two PIAs were recorded at this junction one of which involved a vulnerable road user 3.5.62 and resulted in serious injury. This PIA occurred due to an HGV reversing into the



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path of the motorcyclist. The other PIA was classified as slight was a result of the driver being under the influence of alcohol.

# q) Palmer Avenue/B4011 priority junction

3.5.63 A total of two PIAs were recorded at the Palmer Avenue/B4011 priority junction. Both PIAs were classified as slight. No vulnerable road users were involved. The cause of the first PIA was due to driver error whilst the second PIA was a direct result of a sudden tyre puncture.

### r) B4011/Widnell Lane priority junction

One PIA was recorded at this priority junction, which resulted in serious injury. The 3.5.64 PIA was a result of the driver failing to give way at the junction. No vulnerable road users were involved.

# Conclusion

- 3.5.65 To conclude there were common attributes between some of the PIAs which occurred during the five year search period. However, it does not appear that any PIAs resulted from the layout or geometry on the link or junction where it occurred.
- 3.5.66 Link (a) (A41 (Oxford Road)) between Junction 9 of the M40 and the local road to Little Chesterton) saw a pattern of seven out of 14 PIAs attributed to slow moving/ queuing traffic likely a result of traffic backing up from Junction 9 of the M40.
- 3.5.67 Junction (a) (M40, Junction 9/A41 (Oxford Road)) grade separated roundabout) saw nine of 45 PIAs occurred during queuing traffic/slow moving traffic majority of which were attributed to drive error.
- 3.5.68 A cluster of seven PIAs occurred on Link (m) on the B4011, located approximately 400-500m south of the access to New Farm, five of which occurred due to wet or icy conditions. One of these PIAs was classified as fatal; however, this was attributed to reckless driving.

#### 3.6 Summary of Existing Situation

- 3.6.1 The Graven Hill site is located to the south-east of Bicester town and has good links with the primary road network with direct accesses onto the A41. There is opportunity to enhance accessibility to the site through improvements to the pedestrian and cyclist connections across the A41 and through enhancing the bus service. The site is within walking distance of the Bicester Town railway station which is located off the B4030 route to the town centre. There is potential for good links between the site and the station, either on foot or via an improved bus service, thereby providing good connections to Oxford.
- 3.6.2 Junction capacity issues at the main site access would need to be addressed and any scheme identified would need to incorporate provision for pedestrians and cyclists. The site generates traffic movements in the existing situation which would need to be taken into account in the assessment of the future development impact.





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3.6.3 The C Site location is fairly remote from the primary road network but benefits from an HGV appropriate road network consisting of Palmer Avenue and the B4011, thereby enabling avoidance of sensitive locations such as the village of Ambrosden. The site is located to the north of the Arncott village envelope and whilst benefiting from good pedestrian links into the village, its traffic generation does not impact on the village road network as vehicles route north, either onto Palmer Avenue or Ploughley Road. The Stagecoach bus S5 routes past the site on an hourly basis, providing public transport links to Graven Hill, Bicester town centre and to Oxford.

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#### **Development Proposals: Graven Hill** 4

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#### 4.1 Introduction

- 4.1.1This is an outline planning application with all matters except access reserved for future determination (see Planning Statement ref. BIC/OPA/DOC/02). The components of the proposed development detailed in this section of the TA will be subject to detailed design and approval through the reserved matters process.
- 4.1.2 The following sections provide a description of the proposed development at Graven Hill.

#### 4.2 Masterplan Description

4.2.1 The Graven Hill Masterplan is illustrated in Figures 4.1 and 4.2. The following sections describe the development proposals and further detail is provided in the Graven Hill Design and Access Statement (ref. BIC/OPA/DOC/07).

# Residential

- 4.2.2 The proposed development will provide up to 1,900 dwellings over 55.4ha of land at an average density of 34dph. A range of dwelling types, sizes and tenures will be provided for, including up to 30% affordable housing. The development form allows for a housing type and tenure mix, which includes a significant percentage of family homes and affordable housing as set out in detail in the Planning Support Statement. A mix of one, two, three and four plus bedroom homes are envisaged to be included as appropriate in each character area based upon the form and density of the location.
- 4.2.3 At least 10% of homes will be designed as life-time homes. These will be readily accessible and usable by the disabled and elderly, or capable of adaptation for such uses. The affordable homes will be located throughout the Site in clusters of no more than 10 units. Extra care homes (which allow for independent living, but with appropriate levels of care) are likely to be located close to the Local Centre for access to facilities.

# **Primary School and Community Hall**

4.2.4 The proposed development includes a new two form entry (420 pupils) primary school on a 3.4ha site, allowing scope for expansion to three form entry. The primary school is likely to be single storey or with some components (school hall and gym) up to two storeys. The location has been selected to ensure that the maximum number of residents are within a 5 minute walking distance. The primary school site will also accommodate a MUGA of 1,200m<sup>2</sup> which will be accessible to the public during out of school hours. A  $660m^2$  community hall on a 0.4ha site and a sports pavilion will be located adjacent to the primary school.







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# Local Shops

4.2.5 A parade of five local shops or facilities shops will be located on a key corner of the local centre in the northern part of the site. These are likely to comprise retail, service, and community units of up to  $92.9m^2$  each on a site of 0.8ha. These will form the ground floor of a three storey building to enable flexibility of uses 'above the shop' to include either office or residential use. Servicing and parking will be provided to the rear of the shops and co-located with other facilities parking to form a main visitor parking area for the area.

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# **Grocery Store**

4.2.6 The proposed development includes a grocery store set back from the A41. This store will meet local use and be sized at 1,858m<sup>2</sup> gross (up to two storeys in height) on a 0.6ha site in order to avoid competition with the larger stores already located in Bicester. Car parking and deliveries will be to the rear of the building and co-located with other local centre parking to form a main visitor parking area.

# Pub/Restaurant/Hotel

4.2.7 A pub/restaurant/hotel facility of up to 3.5 storeys on a 1.5ha site will be located close to the grocery store and local shops and the offices. Again, car parking will be to the rear of the building and will be combined with the office parking to form a secondary visitor parking area.

# Employment

- Up to 2,160m<sup>2</sup> of B1 office floorspace will be provided within the local centre area on 4.2.8 the northern site in buildings of up to four storeys in height on a site of 0.6ha. This includes car parking to the rear of the buildings, co-located with the hotel/pub/ restaurant provision.
- 4.2.9 The proposed development will also accommodate Research and Development and light industrial uses in the eastern section of the site, providing around  $2,400m^2$  of B1(b) and up to  $20,520m^2$  of B1(c) and B2 on a 5.7ha site. The buildings within this area are likely to comprise a range of sizes to support a range of potential businesses between 50-800m<sup>2</sup> on maximum plots of 0.93ha.
- 4.2.10 The southern part of Graven Hill is currently used as warehousing and storage. Initially it is likely that these facilities will be let out for civilian use, at least in the short term, subject to market demand for re-developed, new floorspace. The proposed development includes space for 66,980m<sup>2</sup> of B8 warehouse floorspace within units ranging from  $2,790m^2$  to  $9,290m^2$  in size.

# **Recycling Centre**

4.2.11 A local recycling centre is planned within the local centre to be easily accessible to local residents in order to encourage use and a sustainable approach to waste. This is likely to be located at the rear of the grocery store, local shops and community hall and be accessible on foot and by car.

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# Green Space

# **Playing Fields**

4.2.12 A Sport pitch area will be located within the main north western open space area, with space for seven sports pitches which can be configured to accommodate football, rugby or cricket. One playing pitch is to be included within the school site and is intended for dual use. This will also consist of the MUGA which will be available for public use out of school operating hours.

# Children's' Play Space

4.2.13 The proposed development includes 3.6ha of children's' play space comprising two Neighbourhood Equipped Areas for Play (NEAPs) and five Local Equipped Areas for Play (LEAPs) which will be supported by a lower tier of Local Areas for Play (LAPs) or alternative for agreement at Reserved Matters.

# Allotments

4.2.14 Two allotment areas, with associated car parks, are proposed to serve the neighbourhood areas within 15 minute walking distance of all new residents.

# Hilltop Woodland

4.2.15 Graven Hill woodland will be divided into a conservation area with strictly no public access to retain the ecological habitats of value including high quality areas of foraging and nesting. The other half of the woodland will become accessible to the public through a network of public footpaths that will wind through the woodland leading in various directions. These proposed footpaths will follow existing marked out routes as used by the military for training and other historic routes that have become overgrown.

# **Green Corridors**

4.2.16 A network of local recreation routes has been provided within the proposed development in the form of green corridors which typically comprise rich habitats (meadow grassland, woodland, trees, scrubs, streams, swales, waterbodies, etc), segregated pedestrian/cyclist paths where appropriate and pedestrian/cyclist friendly hierarchy of streets.

# 4.3 Access and Movement

- 4.3.1 The guiding principles underpinning the proposed access strategy are as follows.
  - Providing a choice of routes into the development from the external highway network and avoid excessive traffic loadings at any single point;
  - Ensuring no more than 150 homes units are served by a single access point off the internal distributor road network;
  - Creating an internal street network which maximises opportunities for access by bus services, and thus encourages the provision of attractive and sustainable public transport;







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- Creating a fully connected internal layout which minimises barriers to walking and cycling, naturally calms traffic speeds and encourages these modes as a attractive means of travel; and
- Within the residential areas, the streetscape and layout is designed as a "people first, car second" environment.

# Access from the External Highway Network

4.3.2 Graven Hill is located at a point where traffic accessing and leaving the site will take two different routes, depending upon their origin and destination. The key site access routes are:

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- improved A41 Aylesbury Road, the A4421 Neunkirchen/Seelscheild Way and Gravenhill Road North roundabout; and
- new roundabout junction at A41 Aylesbury Road and re-modelled Pioneer Road, replacing the existing ghost island priority junction.
- 4.3.3 The assessment of these junctions and improvement schemes are set out in Chapter 11 of this document.

# **Streets and Spaces**

- 4.3.4 The street network within the development comprises a hierarchy as described below and illustrated in Figure 4.3:
  - Primary, Secondary and Tertiary Main Streets;
  - Main Residential and Residential Streets;
  - Lanes;
  - Pedestrian/Cycle Routes;
  - potential South East Peripheral Road; and
  - Employment Access Roads.
- 4.3.5 In designing the street network, reference has been made to OCC's '*Residential Road Design Guide*', the more recent draft Street Hierarchy table which sets out a design guide for residential roads, as well as the Institution of Highways and Transportation's (IHT) '*Manual for Streets 2*', 2010.

#### **Primary, Secondary and Tertiary Main Streets**

- 4.3.6 These comprise existing and new main thoroughfares and include the existing Westacott Road, Circular Road and Pioneer Road. These routes have some retail and community frontages and will be designed with increased priority for pedestrian movement. The route would have integral 'bus-friendly' traffic calming features, such as raised pedestrian crossings.
- 4.3.7 The Primary Main Street carriageway width will be generally 6.75m, or a minimum of 6m with localised widening, in line with the OCC draft Street Hierarchy definitions





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table, and will be designed to accommodate bus services. There will be limited direct access onto the road and the design speed will be 20mph with traffic calming features at 150m intervals, which will include changes in the horizontal and vertical alignments and gateways. Junctions along the road will generally be crossroads. 2m wide footways, separated from the carriageway by 3m wide verges will be provided on both sides of the road. A widened section of footway will be provided alongside the main street retail and community frontage uses, which are expected to generate greater pedestrian volumes. Cycle paths will be provided on one side of the Street.

4.3.8 The Secondary Main Streets will generally be 6m wide, or a minimum of 5.5m width in line with the draft Street Hierarchy definitions table. These will have direct frontage access or grouped access off side roads, serving up to 300 units. The design speed will be 20mph with traffic calming features at 60m intervals. Junctions along the road will generally be crossroads. 2m wide footways, separated from the carriageway by 3m wide verges will be provided on both sides of the road.

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- 4.3.9 The Tertiary Main Streets will be a variant on the Secondary, but with lower number of units served and less trafficked.
- 4.3.10 It is expected that the details of the design of the hierarchy of Main Streets will be submitted as part of reserved matters applications.

### **Main Residential and Residential Streets**

4.3.11 The Main Residential Streets run between the Main Streets and will serve clusters of residential development, up to a maximum of 400 units. The Main Residential Streets will have a minimum carriageway width of 5m, allowing 6m width for manoeuvring into garages or private parking spaces where appropriate, with 2m wide footways on both sides of the road. These will have direct frontage access or grouped access off side streets. The design speed will be 20mph with traffic calming features at 60m intervals. Junctions along the road will generally be crossroads. The Residential Street hierarchy will include side streets and minor streets. It is anticipated that cyclists will be accommodated on the carriageways, as recommended in the 'Manual for Streets'.

#### Lanes

4.3.12 Lanes radiate from residential streets along rural edges and will serve clusters of lower density residential development directly. The width of such routes will vary to give an organic character and form within an overall corridor minimum width of 4.8m, with a vehicular carriageway width of 3.5m, allowing 6m width for manoeuvring into garages or private parking spaces where appropriate. The Lanes will be two-way and localised widening will be provided to allow passing places for vehicles. Route surfacing will be designed to create a 'people-first' environment, and a design speed of 15mph will be adopted.

# **Pedestrian/Cycle Routes**

The pedestrian and cyclist routes proposed throughout the site comprise a main 4.3.13 circular route around the perimeter of the Site, ideal for cyclists or as a running route (or potential trim trail) at 5.75km, with a series of connecting paths along green corridors. These 'green' pathways and cycleways avoid the need for road use and







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provide a total of 14.4km of traffic-free, safe pedestrian and cyclists routes throughout the Site.

- 4.3.14 The network of pedestrian and cyclist routes are proposed around the Site are predominantly located along the green fingers which connect to the top of Graven Hill (as the key recreation destination). These green fingers provide a radial pattern on all sides of the hill offering pedestrians and cyclists a variety of routes around the Site.
- 4.3.15 These recreational routes will predominantly be a minimum width of 3.0m and will be geometrically-designed and surfaced in accordance with current Sustrans specifications for 'traffic-free paths'. A number of routes (both existing and proposed) will be provided through the woodland of Graven Hill which reflects current desire lines through the woodland and historic routes which have become overgrown. These routes will be less formal and likely to comprise woodchip/bare-earth surfacing.

### **Potential South-East Peripheral Road**

4.3.16 A road serving the main warehousing area to the south of Graven Hill is already in place. This is currently approximately 6.3m in width and will be enhanced and upgraded in Phase 2 of the development. A limited number of accesses into the employment area will be taken off this road and will comprise ghost island priority junctions. Widening of the route could be up to 10m in carriageway width to facilitate a potential future south eastern peripheral route from the A41 Aylesbury Road in the north east to the A41 Oxford Road in the south-west through the Graven Hill site. The peripheral road is not included as part of this scheme and would be a highway authority-led scheme subject to a separate planning application should it be taken forward in the future.

# **Employment Access Roads**

- 4.3.17 Three main accesses are proposed off the potential Peripheral Road in order to service the main employment areas. One is to the east serving the B1(a) and B1(c)/B2 light industrial area and two to the west serving the main B8 warehousing area.
- 4.3.18 These roads will be 6m 7.3m wide with junction radii of 10m to enable heavy goods vehicle movements. 3m wide shared use pedestrian and cycle footways will be provided on both sides of the road to enable safe access by these forms of transport.
- 4.3.19 It is expected that the details of the design of the Employment Access Roads will be submitted as part of reserved matters applications.

# **Freight Rail Access**

4.3.20 Existing freight rail tracks are proposed to be retained within the southern part of Graven Hill to potentially serve commercial warehouse and storage functions. The details of any upgrading or re-alignments necessary are as yet unknown until potential users take up the opportunity and so the details of rail access will be considered at reserved matters stage.







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#### 4.4 Inclusive Access

4.4.1 The detailed design of both the development and its associated new transport infrastructure will be undertaken in accordance with the requirements of the 1995/ 2005 Disability Discrimination Act. Detailed designs will be prepared in accordance with current good practice as embodied within the DfT's 'Inclusive Mobility' document.

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4.4.2 This approach will help to ensure that the proposed development is fully inclusive and meets the needs of all users, including those with disabilities or temporary mobility impairments. The requirement to design for disabled people will permeate all aspects of the design process and will include not only access to - and movement within - the site, but also the interface between the development and the surrounding road network.

#### **Parking Approach and Levels** 4.5

- 4.5.1 The site is able accommodate the current OCC minimum cycle and maximum car parking standards and these are set out in the following sections. Appropriate strategies on acceptable levels of parking provision can be explored with OCC and CDC at reserved matters stage.
- 4.5.2 Cycle parking stands are expected to be of a Sheffield style as a minimum and sheltered where in groups. Where public art funds can be directed to improve the type and style of the cycle parking stands, to perhaps incorporate a unique Graven Hill motif, this will be encouraged to maximise the impact of the focus on cycling locally.
- 4.5.3 Standard car parking space dimensions will be 2.5m x 5m with an additional 0.5m for vehicle overhang. Where spaces are near a wall, then a further 0.15m on each side is required for doors to be opened. 6m is the minimum space requirement behind parking spaces for vehicles to reverse into. Perpendicular and angled car parking spaces dimensions will be a minimum of 2.4m x 4.8m with appropriate additional allowance for spaces against wall structures and for vehicle overhang over footways. 6m road width will be provided to accommodate vehicle manoeuvres into and out of spaces. Car parking space dimensions for parallel parking will be 2m x 6m.
- 4.5.4 The intention is to create a single combined public cycle/car park serving the Local Centre to minimise the need to travel to different sites within this single location and to provide the greatest flexibility in uses of the cycle/car parking area.
- 4.5.5 Appropriate levels of cycle/car parking will be provided which prioritise sustainable transportation modes but also integrates provision for the car at key locations.

# Cycle Parking Prioritisation and Levels

4.5.6 This is seen as a priority for the development in order to enable the choice of cycling for local journeys over use of the car. Graven Hill, given its stand alone internal movement network, has the opportunity to be innovative and trail-blazing in its prioritisation of the bicycle for local movement around the hill. Opportunities to announce this from the main entrances into the hill from the A41 will be explored at the detailed design level.



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Each mixed use facility, residential unit and bus stop will provide cycle parking in 4.5.7 positions which are more easily accessed than the car to again encourage use and promote the use and priority of the bicycle locally linked to public transport for longer journeys.

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# **Residential Parking Levels**

- 4.5.8 Following discussion with OCC Highways, the 'type 2' site accessibility criteria applies at Graven Hill resulting in the following residential 'type based' parking standards:
  - 1 bedroom unit = 1 cycle space and 1 car space (plus visitor);
  - 2/3 bedroom unit = 2 cycle spaces and 2 car spaces (plus visitor);
  - 4+ bedroom unit = 2 cycle spaces and 2+ car spaces (plus visitor).
- 4.5.9 These cycling provision standards are a MINIMUM and higher levels of provision will be encouraged from subsequent developers at reserved matters stage.
- 4.5.10 Residential car parking levels are set to a MAXIMUM provision and it is proposed that 'accessibility zones' are then used from lowest to medium to highest levels to combine with these 'type based' standards.
  - Lowest Level 'closest to' the local centre target average 0.5 car parking spaces per unit, some areas car free (most likely apartments) only with appropriate restrictions/management in place.
  - Medium Level 'next to' the local centre target average 1 car parking space per unit.
  - ٠ Highest Level - 'away from' the local centre - target average 2 car spaces per unit.
- 4.5.11 Design and mitigation measures are an important factor in proposing lower levels of car parking. At this **outline stage**, the detail of the housing mix has not been placed into the layout in order to generate specific parking proposals. It is anticipated that developers will apply the type based standards within the accessibility zones, aiming to achieve the target average car parking provisions stated. Where car parking is reduced, it is anticipated that cycle parking provision will be increased above the minimum standards.
- 4.5.12 Visitor parking is built into the strategy including on-street parking which doubles up as a traffic calming feature between landscaped areas.

# **Mixed Use Parking Levels**

4.5.13 In order to provide maximum flexibility and avoid over provision of parking in the local centre, it is proposed that the key mixed use facilities combine their parking requirements where possible to co-locate these into one area, again prioritising and expressing cycle parking. This flexible provision will enable a percentage reduction in car parking in preference for increased cycle parking from the established standards based upon the relative patterns of use.



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- Such provision will also enable more destinations to be reached on foot once parked 4.5.14 such as parking in local centre to shop and then and walking to pick up children from school to reduce the number of local trips by car. Disabled car parking is to be in line with British Standard of 5% of the total to be provided for commercial uses.
- Figure 4.4 illustrates the Parking Strategy which is set out in the following sections. 4.5.15

### **Local Centre West**

- **Grocerv Store** (1.858m<sup>2</sup>GFA): 1 cvcle stand per 12 staff and 1 visitor stand per •  $200m^2$ , which equates to 3 stands for staff (based on 1 staff per  $50m^2$ , as identified by OCC) and 9 stands for visitors, totalling 12 stands (parking for 24 cycles). 1 car space per  $14m^2$  for developments above a threshold of  $1,000m^2$ , which equates to 133 spaces. A servicing area would be provided to the rear with a turning facility.
- Local Shops (Non-Food Retail) (totalling approximately 465m<sup>2</sup>GFA): 1 cycle stand per 6 staff and 1 visitor stand per  $200m^2$ , which equates to 2 stands for staff (based on 1 staff per  $50m^2$ ) and 3 stands for visitors, totalling 5 stands (parking for 10 cycles). The standards identify 1 car space per  $20m^2$  for developments above a threshold of 1,000m<sup>2</sup>, which in this case is not exceeded, equates to 23 spaces. A servicing area would be provided to the rear with a turning facility.
- Community Hall (660m<sup>2</sup> GFA) the assumed standard is for D2 Assembly and Leisure land use types: 1 cycle stand per 12 staff and 1 visitor stand per  $20m^2$ , which equates to 1 stand for staff (assuming 1 staff per  $50m^2$ ) and 33 stands for visitors, totalling 34 stands. 1 car space per  $22m^2$  for developments above a threshold of  $1,000m^2$ , which in this case is not exceeded, equates to 30 spaces.
- Combined Provision - standard provision for these facilities would be 51 cycle parking stands and 186 car parking spaces. It is assumed that a percentage increase (cycle)/reduction (car) of 20% would be sensible to account for the colocational benefits which results in a total of around 61 cycle stands and 149 car spaces.

#### **Main Street Western Terminus**

Primary School: cycle parking for teachers, parents, children and visitors will be essential to encourage cycling to school. The current standards do not have a provision for schools so it is assumed 1 cycle stand per 10 staff (for approximately 28 FTE staff, this equates to 3 stands), 1 pupil cycle stand per 15 pupils (for up to 630 pupils, equating to 42 stands) and 15 visitor/parent stands, totalling 60 cycle stands. Car parking levels would be based operational use only i.e. staff parking (28 spaces) with small amount of visitor parking (4 spaces). A delivery area would be required, allowing direct access to the kitchen and other appropriate points of delivery. Coaches pick up/drop area to outside school boundary on the main street. All incorporated into a school drop-off and parking 'square' to terminate the main active part of the new main street.

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# Local Centre East

• **Pub/Restaurant/Hotel:** 1 cycle stand per 12 staff, 1 stand per 10 beds and 1 stand per 20m<sup>2</sup> of public open space (unknown at this stage), which equates to 5 stands for staff assuming 55 staff and 10 stands for patrons, totalling a minimum of 15 stands. 1 car space per 1 beds and 1 space per 5m<sup>2</sup> of public space (unknown at this stage), which equates to a minimum of 100 spaces. A servicing area would be provided to the rear with a turning facility.

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- **B1 Office** (2,160m<sup>2</sup>): 1 cycle stand per 150m<sup>2</sup> for employees and 1 stand per 500m2 for visitors, which equates to 19 stands. 1 car space per 30m<sup>2</sup> for developments above a threshold of 500m<sup>2</sup>, which equates to 72 spaces. A servicing area would be provided to the rear with a turning facility.
- **Combined provision** full provision for these facilities would be a minimum of 34 cycle stands and 172 car parking spaces. It is assumed that a percentage increase (cycle)/reduction (car) of 20% would be sensible to account for the colocational benefits which results in a total of around **41 cycle stands and 138 car spaces.**

# **Residential Parking Types**

- 4.5.16 The range of parking types to be used includes:
  - On-street will generally be used in higher density areas on both main and residential streets and integrated within the street scene in short groups of parking spaces up to six maximum. Landscape treatments and street trees will break up the parking clusters.
  - Housing squares a formal variation of on-street parking where car parking is incorporated into the space enclosed by surrounding buildings. Parking space is balanced with the provision of hard and soft landscape elements to create a place. Squares will generally be used in higher and medium density areas as they tend to be too formal for lower density areas.
  - On-plot the majority of homes will have on-plot parking of various types according to the house types, street types and character area. This will include open parking on driveways in front of homes (more common in terraces) and to the side of homes (more common in semi-detached/detached homes). Garages are more common in medium and lower density areas with double garages only on larger detached homes in lower density areas. Any garages will be placed sensitively within the plot curtilage in order to minimise impact.
- 4.5.17 Details of applying these parking options are envisaged to be submitted as part of reserved matters applications once the exact form of housing types has been defined.
- 4.5.18 Cycle parking will be provided throughout the development, including on-plot facilities at each home and attractive cycle stands within public open spaces and at the Local Centre.

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#### **Playing Field/Allotment Parking**

4.5.19 Visitor parking for both cycle and car will be provided at each of the playing field/ allotment locations in order to encourage use and minimise trips wider a field. The detail of demand for parking will be established at the reserved matters stage. An appropriate level of car parking to serve the number of allotments will be provided within easy walking distance.

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# **Employment Parking**

4.5.20 Applying the maximum parking standards for employment uses would result in 80 car park spaces for the B1(b), 410 for the B2 and 335 for the B8 uses. The respective cycle parking provision would be 21, 100 and 201 cycle stands.

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	Key		
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~		Residential	
$/ \setminus$		2FE Primary Scho	lol
		Hotel / Pub / Rest	aurant
		Community Hall	
_		Supermarket	
		Local Shops	
		Offices	
ł.		Light Ind. (B2)	
		Storage (B8)	
		Public Open Spac	e
		Woodland / Buffer	
IMI/	<b>P</b>	Future Development Areas	
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Redevelopment of MOD Bicester Transport Assessment

Figure 4.2 Graven Hill Illustrative Masterplan

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Transport Assessment

Figure 4.3 Graven Hill Street Hierarchy

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# 5. Development Proposals: C Site

# 5.1 Introduction

5.1.1 The following sections provide a description of the development proposals at C Site.

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# 5.2 Masterplan Description

5.2.1 The C Site Masterplan is illustrated in Figure 5.1. Further detail is provided in the C Site Design and Access Statement.

# Fulfilment Centre and Associated External Storage

- 5.2.2 All redevelopment will take place within the northern part of C Site. Five large workshop/warehouse buildings will be demolished, along with several smaller ancillary support buildings. Rail infrastructure will also be removed and replaced.
- 5.2.3 The proposed development comprises the following.
  - One warehouse building (the 'Fulfillment Centre') with a total area of approximately 70,400m<sup>2</sup> with docking bay doors on the northern and western side of the building. The north and west sides of the building will include hardstanding for storage, access and circulation space. Queuing space will be provided within the site to prevent circulation problems.
  - Office and ancillary space (adjacent outside of the warehouse) for 20 personnel (area yet to be specified but judged to be in the order of 1,142m<sup>2</sup>).
  - A total of 620 personnel will be employed at C Site, and it will be assumed that up to 250 are on site at any one time during each of three shifts over 24/7. Day and twilight shifts are likely to have higher manning than night time.
  - Rail interface will be separate to the main warehouse. The Bicester International Freight Terminal at Graven Hill will be replaced by a new Road Rail Transfer Area located on the north-west edge of C Site to minimise visual and noise effects.

# 5.3 Transport and Access

- 5.3.1 For security reasons all vehicles, pedestrians and cyclists will access the site via a single point of access which will be located at the existing northern access point. The access will be re-modelled to bring the security gate back from its current position of 46m from the road to approximately 63m. This will allow up to five rigid trucks to wait for entry, off the public highway.
- 5.3.2 A new internal road will link the re-modelled access point, around the north and west of the new building to link into the existing internal road network with a new









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roundabout provided at the entrance into the container storage area to the north of the Fulfilment Centre. In addition, a second road will link the access point to the main staff car park along the eastern boundary of the Fulfilment Centre. This road will be for use by cyclists, pedestrians and staff only; no HGV traffic will use this road.

5.3.3 The existing freight rail tracks along the northern boundary of the site will be retained and used as a rail sidings area but with no connection out of C Site to the east. The main rail access into the site will be along the western edge of the site and connecting to the new Road/Rail Transfer Area (RRTA). Rail access will still be possible to the southern part of the site however the majority of movements will utilise the RRTA.

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#### 6. **Graven Hill Travel Plan**

#### 6.1 Introduction

6.1.1 A Travel Plan (TP) has been produced for the Graven Hill development proposals which has been reviewed by the appropriate officer within OCC and is submitted as a stand alone document in support of the OPA (ref. BIC/OPA/DOC/13). A separate TP has been produced for the C Site proposals. This chapter provides a summary of the Graven Hill TP.

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#### 6.2 **Objectives and Targets**

# Objectives

- 6.2.1 The TP aims to establish the overarching vision for the site and the direction that a full TP will strive to achieve once development begins, and is completed.
- 6.2.2 It is important to set out a number of clear primary objectives, which will aim to be delivered as part of the TP and continued throughout the life of subsequent TPs onsite, and their revision. These are identified below:
  - to reduce the volume of car traffic generated by the development, particularly single occupancy vehicles;
  - reduce the need to travel (to and from) the development by private vehicles; ٠
  - promote the increased use of cycling, walking and public transport and therefore healthier living;
  - promote the development of a transport system which enhances the environment • and supports a sustainable economy;
  - increase individuals awareness of available travel choices; and
  - to develop a long term ethos of sustainable travel.

# Targets

- 6.2.3 The targets to achieve these objectives will be influenced by the following site and development characteristics:
  - feasible access by bus, rail, cycle, car sharing, and walking for residents, visitors ٠ and employees;
  - number of residents, visitors and employees on site;
  - site characteristics;







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- location of residents' workplaces; and
- opening hours/times of on-site businesses/community facilities.
- 6.2.4 It is important that targets set should be SMART (Specific, Measurable, Achievable, Realistic and Time Bound).
- 6.2.5 As the end users of the development are currently unknown outside of the proposed land use types, it is difficult to set exact modal share targets. It is proposed that initial targets included within this TP for each development type are developed via existing travel behaviour knowledge, coupled with the data used in the TA to estimate potential traffic generation.
- 6.2.6 Based on the 2001 Census analysis of all Bicester wards and Bicester South ward, the following are considered suitable initial targets for the Graven Hill site. It is noted that the 2001 Census records approximately 7% and 8.5% of employed residents as working from home for the whole of Bicester and Bicester South ward respectively:

# Residential

- No more than 81% of employed residents to travel to travel to work in a SOV in • the first year post first occupation (including those who work from home);
- No more than 79% of employed residents to travel to work in a SOV at three years post first occupation (including those who work from home);
- No more than 77% of employed residents to travel to work in a SOV at five years post first occupation (including those who work from home);
- No more than 76% of employed residents to travel to travel to work in a SOV in the first year post first occupation (including those who work from home);
- No more than 75% employed residents to travel to work in a SOV at seven years post first occupation (including those who work from home);
- No more than 74% of employed residents to travel to work in a SOV at nine years post first occupation (including those who work from home);
- No more than 73% of employed residents to travel to work in a SOV at eleven years post first occupation (including those who work from home);
- No more than 72% of employed residents to travel to work in a SOV at thirteen years post first occupation (including those who work from home); and
- No more than 71% of employed residents to travel to work in a SOV at fifteen years post first occupation (including those who work from home).

#### **Employment**

- A maximum 79% of employees travel to travel to work in a SOV in the first year post first occupation;
- No more than 77% of employees to travel to work in a SOV at three years post first occupation;

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- No more than 73% of employees to travel to work in a SOV at seven years post first occupation;
- A maximum 71% of employees to travel to work in a SOV at nine years post first occupation;
- No more than 69% of employees to travel to work in a SOV at eleven years post first occupation;
- A maximum 67% of employees to travel to work in a SOV at thirteen years post first occupation; and
- No more than 65% of employees to travel to work in a SOV at fifteen years post first occupation.

# Education

- 6.2.7 The proposed two form entry primary school would accommodate up to 420 pupils between the ages of 4 and 11 years old. The Graven Hill site itself would generate the main demand for spaces at the school, resulting in a high level of containment and opportunities for sustainable transport. The remaining catchment would likely be the existing housing developments off Peregrine Way, north of the Graven Hill Site.
- 6.2.8 The TA assumes that 15% of the person trips to the school will be external to the site, including staff and pupils. The modal split targets for the external trips are as follows:
  - 70% will travel as a 'car driver' trip i.e., either single occupancy vehicle (SOV), or a journey specifically to drop off or pick up, 15% will walk, 10% will car share, 3% travel by bus, and 2% cycle.
- 6.2.9 The modal split targets for the person trips internal to the site are as follows:
  - 50% will walk, 20% will travel as a 'car driver' trip, 17% will car share, 7% will cycle, 5% will travel by bus, and 1% will travel by other private means.

# Conclusions

6.2.10 The targets indicated in the Graven Hill TP are an initial base line and therefore will be reviewed and potentially revised as the development proceeds, especially following the results of scheduled travel surveys.

# 6.3 Travel Plan Measures

# Walking and Cycling Strategy

6.3.1 All streets will have standard footways on either side and cyclists will be accommodated with a combination of on-road routes and off-road shared use routes. On-road routes will be along the main streets in appropriately scaled cycle lanes along Westacott Road, Circular Road, Pioneer Road and the new Main Street. This will provide an accessible network of streets and routes enabling walkable neighbourhoods





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and encouraging local travel by foot or cycle. Dedicated recreational routes will also be provided alongside green spines.

6.3.2 All housing areas will be within 800m of the Local Centre and denser areas will be within 400m. Home Zone type design principles will be applied to the residential priority streets where the living environment will be predominant over provision for traffic. Vehicles will be controlled to create a safe environment through street design, landscape design and highway engineering.

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6.3.3 Pedestrian and cycle priority links will be provided through the site and safe crossing points will be provided across the A41 as described in the following sections and indicated in Figure 6.1.

# Pedestrian Crossings on A41/B4100/A4421 roundabout

- 6.3.4 It is proposed to signalise the A41/B4100/A4421 roundabout which will improve the capacity of the junction, and will also enable toucan crossing provision to enhance the pedestrian environment and address the issue of the A41 severance.
- 6.3.5 The junction improvement scheme is covered in detail in chapter 11 of the document.

# **Toucan Crossing on A41**

6.3.6 It is proposed to provide an at-grade pedestrian/cycle crossing on the A41 in the form of a Toucan crossing at a location some 165m to the west of the A41/B4100/A4421 roundabout, where there is evidence of an existing informal crossing point. The crossing will be accessed from the site along a section of the route that leads to Langford Park Farm. The crossing will provide a connection to an existing footway across the highway authority land to a footway along the southern side of the B4100 which also leads to a bus stop.

# Pedestrian/Cycle Underpass

6.3.7 It is proposed to upgrade the existing pedestrian underpass under the A41 in order to increase its attractiveness for use. This would include improved ground surfacing, entrance spaces, vehicle access restraints, wall and ceiling finishes and lighting.

# Soft Measures

- 6.3.8 In addition to the measures listed above, a range of other cycle and walking specific measures will be designed and implemented within the site.
- 6.3.9 Cycle and local walking maps for residents, employees, students and visitors will be required to promote these modes. The TPC will liaise with the appropriate officer within OCC for the provision of these for distribution. These will be provided in each residential welcome pack and they will be available to all employees and students via notice boards or intranet sites.
- 6.3.10 As stated above, the TPC will be appointed to undertake tasks such as liaising with local cycle shops. It would be hoped that a discount scheme will be arranged with local cycle shops, for residents or employees of the development.
- 6.3.11 The TPC would arrange for cycle demonstrations on site by bicycle providers and a Bicycle User Group (BUG) would also be established on site by the TPC if deemed

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appropriate by users. This would allow users to raise any concerns, organise cycle maintenance sessions, such as 'Dr Bike' and organise bike rides to promote cycling as a form of transport and also exercise. This could be available to all users, or just residential and/or employees as identified via feedback and surveys.

- 6.3.12 Walking and cycling BUDDI schemes would be encouraged, especially within the education and employment elements of the site. These would encourage people to travel together and usually prove useful for those not confident in the local environment. This could be coupled with 'Walking Buses' for students travelling on foot, this measure would be promoted via the school and TPC.
- 6.3.13 Regular promotion of walking and cycling via short term schemes, such as a Cycling Challenge or Pedometer Challenge would be undertaken via the TPC. These could be targeted to different audiences, such a residents or employees. This usually encourages competition and can be useful to get individuals engaged in the aims of the TP.

# Public Transport Strategy

- 6.3.14 In accordance with the overall sustainability objectives of the development, the site layout has been optimised so that no part of the scheme will be more than 400m from a bus stop. The form of Graven Hill lends itself particularly well to this given its broadly circular form. Accordingly the main circular loop road through the development will be designed to accommodate bus services, with provision for high quality bus stops being made at regular intervals as indicated.
- 6.3.15 It is anticipated that all bus services would focus around the Local Centre as the main stopping point, with other stops at key points such as the employment areas linking into the green/footpath network in particular. This network of potential bus services and enhancement of existing bus services is presented in the accompanying TA and TP.

# **Bus Provision**

- 6.3.16 Bus provision for the site will need to provide links to key local destinations, including Bicester town centre and the two rail stations, and be of a good frequency throughout the day, particularly during the peak periods.
- 6.3.17 The following are considered to be the general principles for provision.
  - General guidance on levels of bus service provision identifies a frequency of at least 15-20 minutes is required to provide a feasible alternative to private car use.
  - Bus stops need to be appropriately located in order to maximise potential patronage, aiming for every household to be within a 400m walking distance catchment from a bus stop.
  - Real Time Information (RTI) is generally considered as being important in encouraging bus patronage.
  - The commercial viability of bus service options needs to be assessed with the potential bus service providers and a monitoring system established to ensure the effective use of developer funding required.







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- a new bus service to Bicester: and
- diversion of S5 into the northern part of the site (neighbourhood centre and high density/affordable housing), providing a link between the Graven Hill site and C Site, also strategic routeing to Oxford.
- 6.3.19 It is proposed to divert the S5 into the site via both the main site access and the secondary Pioneer Road access. The service would route through the local centre.
- 6.3.20 It is also proposed to provide a new 15-20 minute frequency bus service to link the site to the town centre and train stations, as illustrated in Figure 6.2. This would comprise a minibus during the initial stages of occupancy, upgrading to a larger bus as the development builds out. The service would need to link with train times. It has been acknowledged by OCC that the employment area doesn't need a frequent service all day and that service times can be restricted to peak periods and lunchtime. Bus stops provided on site would incorporate real time information (RTI). Figure 6.3 indicates the bus stop locations.
- As there is no public funding available to subsidise buses, the service would need to 6.3.21 be commercially viable within a specified time frame as it is recognised that a development cannot be expected to fund a service indefinitely. The opportunity for the bus service to link to the NW Bicester site would be investigated with the promoters of that site; this would help the funding and commercial viability of the service. Information from OCC is anticipated with respect to the potential Section 106 Agreement in relation to bus funding contributions.

# Soft Measures

- 6.3.22 There are numerous ways that public transport can be promoted, usually regarding promotional materials and pricing.
- 6.3.23 Working with OCC and the local bus operator, the TPC should identify what specific advice and publicity is required to promote the existing services and how to get to useful destinations by bus. This should be revised during development to enable changes to be made as required.
- 6.3.24 Local rail and bus timetable information should be available within workplaces, the neighbourhood centre and education facility, and be available to residents via electronic format. If requested, paper copies can be supplied via the TPC.
- 6.3.25 It is proposed to give residential users access to a trial bus pass, if this is requested or deemed appropriate via Personalised Travel Planning (PTP), which will take place with each household upon occupation.

# Car Share Strategy

6.3.26 It is accepted that the private car will remain the only viable form of transport for certain journeys. However, car sharing will be encouraged and dedicated car share









spaces will be provided within the employment and education areas to encourage those for whom this is a feasible option. These spaces will be positioned in favourable locations and be available for car sharers only. The management of these spaces will be the responsibility of each on-site organisation.

6.3.27 It is proposed that 10% of all on-site employee car park spaces will be car share only; this will be reviewed as appropriate and more spaces will be included if demand if visible via comments to the TPC or in scheduled travel surveys.

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### **Soft Measures**

- 6.3.28 Alongside the car share spaces, it is favourable for the development to have a dedicated car share website to encourage and facilitate members to find car share partners. A private car share group will be maintained by the TPC. It is proposed to access https://oxfordshire.liftshare.com, the leading car share site in Oxfordshire. All residents and employees will be encouraged to join the car share site and if deemed appropriate a dedicated 'Graven Hill' site will be operated within this pre-existing LiftShare.com site.
- 6.3.29 Regular marketing campaigns will be developed via the TPC to encourage people to share their journeys. Whilst traditionally formal car sharing is usually associated with workplace trips, it is also important for leisure and other trips to be targeted too. The TPC will be responsible for this and it may include car share event days.
- 6.3.30 Individual commercial organisations will be encouraged to promote internal car sharing and if required sub car share sites can be adopted, if appropriate with business requirements.

# Other Measures

#### Car Club

- 6.3.31 A 'car club' provides its members with flexible access to the 'hire' of a car club vehicle. Car club vehicles are parked in reserved parking spaces, close to homes and/ or workplaces and can be used, and paid for, on an hourly, daily or weekly basis.
- 6.3.32 This measure was not deemed appropriate within initial discussions with OCC, however it has been included within this TP and it is proposed to investigate this further as the full TP is updated and user requirements are known.
- 6.3.33 If implemented in the future appropriate space will be used to park Car Club vehicles. This could be within the employment areas, in the local centre or in areas of the residential development where significant interest is identified.
- 6.3.34 If launched, the TPC and identified car club operator would be responsible for providing marketing material, which would be distributed to all potential users and be used to promote the benefits, and workings of the scheme.

# Information Communication Technology (ICT)

6.3.35 ICT will be designed into the development to encourage home working via broadband and flexible layouts, and to ensure that commercial elements of the site have access to video conferencing.





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Video and teleconference facilities should be provided within the local centre and 6.3.36 where possible be available within private dwellings as part of a site only intranet site.

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The development intranet site will include online travel guidance, links to the car 6.3.37 share scheme, provide information on key facilities and destinations, and allow access to personal video conferencing facilities.

#### **Alternative Vehicle Charging Points**

6.3.38 These will also be considered, dependent on potential demand from residents and employers. The advances in electric cars, recent Government policy announcements and commitment by manufactures to mass produce these in the UK make this a realistic option as an alternative to petrol and diesel vehicles.

### **Personalised Travel Planning**

- 6.3.39 PTP is an essential part of any TP to ensure maximum success. It is envisaged that the TPC will meet with all new occupants and discuss travel options and choices. This will include where key facilities are located, how to access public transport services, identification of safe routes to school and other essential information.
- 6.3.40 Where possible, the TPC when providing the PTP service will encourage residents to make the most appropriate travel choice; this could include not travelling at all if technological alternatives exist and if a journey is essential then the more suitable mode should be used. This should favour a modal hierarchy; walking, cycling, public transport, car club (if appropriate), car sharing and if no other suitable alternative exists, the individual private car.
- 6.3.41 The TPC will give residents detailed information packs, including maps, public transport timetables, a house to get to guide and instructions on using the car share website and if appropriate, car club.
- 6.3.42 When undertaking PTP the TPC will offer an appropriate trial offers, such as a bus pass to enable residents to challenge perceptions and undertake a 'try before you buy'. It is unlikely that every resident would be willing, or suitable for each possible option, however the TPC and OCC would agree these criteria, if not already agreed as part of the full TP development.
- 6.3.43 Commercial occupants will receive a similar service; however it is assumed that the site TPC will work with the individual TPCs to assist in delivering this information.
- 6.3.44 Providing the tools to encourage individuals to change their travel behaviour is important, especially when moving to a new house. However, it is widely acknowledged that residents will fix their travel mode within the first few weeks of moving into a new house. It is therefore important that new residents are targeted early in their moving process.
- 6.3.45 Via the PTP process, the TPC should identify which travel choices will be most appropriate. This should be based on work/travel location, key destinations and other information known about the household. From these discussions the most appropriate tool should be provided to residents.

Defence

Infrastructure

Organisation



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#### 6.4 Car Parking and Parking Management Strategy

- 6.4.1 One of the main objectives of the TP is to promote the alternative opportunities and ensure a range of measures are in place to ensure that information is provided and car use is not automatically the chosen way to undertake a journey.
- 6.4.2 One accepted way to discourage car use is effective management of on and off-site car parking. Due to the location of the site, it is not anticipated that off-site car parking will occur or be desirable; therefore effective management of on-site parking will be required.
- 6.4.3 The design of on site residents parking and commercial/neighbourhood centre parking will be according to OCC parking standards. The design of the whole site will prioritise pedestrians and cyclists above car use.

#### 6.5 Workplace Travel Plan Good Practice Measures

6.5.1 The following Workplace TP measures would be promoted as good practice to employers/occupants of the commercial centre as occupation commences:

# **Employer Flexibility**

6.5.2 While very much dependant on the business requirements of the occupiers of the site, employers could assist their staff to use sustainable travel modes (car share, public transport) through a degree of flexibility with regard to allocation of shifts, working hours and travel time. Allowing employees to arrange their working hours to coincide with lift-givers could assist in promoting sustainable travel.

# Salary Sacrifice Schemes

6.5.3 In addition to public transport passes and cycle to work schemes, the option of annual loans to enable employees to purchase transport passes or cycles is a good way to promote sustainable travel. This would be dependent on the business type and size; however is a good added incentive if deliverable.

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# 7. C Site Travel Plan

## 7.1 Introduction

7.1.1 A Travel Plan (TP) has been produced for the C Site development proposals which has been reviewed by the appropriate officer within OCC and is submitted as a stand alone document in support of the OPA (ref. BIC/OPA/DOC/14). This chapter provides a summary of the C Site TP.

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# 7.2 Objectives and Targets

- 7.2.1 The following section sets out the main principles of the TP for the C Site redevelopment and aims to establish the main objectives, which will be implemented as part of these proposals:
- 7.2.2 The objectives and targets included within this document need to take into account the following:
  - site location/site audit;
  - employee travel survey responses and feedback;
  - the proposed operation of the development; and
  - the 24/7 operational activities.

### Objectives

- 7.2.3 The objectives of the TP are set out below:
  - to reduce the volume of car traffic generated by the development, particularly SOV;
  - reduce the need to travel (to and from) the development by private vehicles;
  - promote the increased use of cycling, walking and public transport and therefore healthier living;
  - promote the development of a transport system which enhances the environment and supports a sustainable economy;
  - promote sustainable travel behaviour across all shift patterns;
  - increase individuals awareness of available travel choices; and
  - to develop a long term ethos of sustainable travel within the MOD personnel onsite.







### Targets

7.2.4 The targets to achieve these objectives will be influenced by the following site and development characteristics:

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- feasible access by bus, rail, cycle, car sharing, and walking by MOD employees;
- number of employees on site, plus the frequency of visitors;
- site characteristics:
- home location of employees; and
- operating hours.
- 7.2.5 It is important that targets set should be SMART (Specific, Measurable, Achievable, Realistic and Time Bound).
- 7.2.6 The recent Travel Survey undertaken by existing MOD employees based on C Site gives an overview of existing travel patterns within the development and provides a baseline modal share figure (as demonstrated in chapter 3).
- 7.2.7 These results have been used as a starting point for the development of the TP and the future measures recommended to be implemented as part of this development proposal within C Site. This includes the existing C Site employees and those who are anticipated to relocate from D Site and E Site.
- 7.2.8 Based on the Travel Survey results and the general conclusion that an existing 20% of respondents at C Site currently travel via sustainable modes, it is proposed that a maximum SOV level of 75% for the redeveloped C site is achieved within five years of opening. This would be a minimum 5% reduction (1% per annum) from existing C Site levels and due to the site location and operating patterns, it is felt to be a realistic achievable minimum reduction.
- 7.2.9 These modal share targets will be the responsibility of a Travel Plan Coordinator (TPC) who will act as champion of the TP and its implementation.

### Management

7.2.10 The appointment of an effective TPC working with *everyone* on site is integral to the success of a TP. The role of the TPC will be to establish a full, overarching TP to cover all employees and ensure that it becomes integral to the workings of the site. This will require TPC involvement and management support during all stages of the proposed changes, including detailed design, pre-construction, construction stages and whilst any possible relocation takes place via the disposal of D and E Sites. The TPC role will be undertaken by an appropriate member of MOD staff, who will have responsibility to manage the TP on site. This role will involve cross working with staff from all levels and potentially with other MOD TPC's from across the UK.

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#### **Travel Plan Measures** 7.3

### Walking and Cycling Strategy

7.3.1 The location of the site is such that employees will be encouraged to cycle for journeys off-site, as appropriate to military requirements. To promote cycling, the following measures will be included:

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- shared use walking and cycling routes within redeveloped part of the site which connect to the external network;
- on-site cycle parking in convenient locations; and
- access to personal showers/lockers.

### Soft Measures

- 7.3.2 In addition to the measures listed above, a range of other cycle and walking specific measures will be designed and implemented within the site.
- 7.3.3 Cycle and local walking maps will be produced to promote active travel to employees. The TPC will liaise with the appropriate officer within OCC for the provision of these for distribution. They will also be available to all employees via notice boards or if relevant, intranet sites.
- 7.3.4 As stated above, the TPC will be appointed to undertake tasks such as liaising with local cycle shops. It would be hoped that a discount scheme will be arranged with local cycle shops, for employees.
- 7.3.5 The TPC would arrange for cycle demonstrations on site by bicycle providers and a BUG would also be established on site by the TPC if deemed appropriate by employees. This would allow users to raise any concerns, organise cycle maintenance sessions, such as 'Dr Bike' and organise bike rides to promote cycling as a form of transport and also exercise.
- 7.3.6 Regular promotion of walking and cycling via short term schemes, such as a Cycling Challenge or Pedometer Challenge would be undertaken via the TPC. This usually encourages competition and can be useful to get individuals engaged in the aims of the TP.

### Public Transport Strategy

7.3.7 C Site is within 400m of an existing bus stop and this can be used by employees to reach local key destinations. The S5 has an RTI system and it is proposed to provide an RTI screen in an appropriate location to inform staff of the arrival times of the service. On-site information of the bus stop locations will be provided.

### Soft Measures

7.3.8 Working with OCC and the local bus operator, the TPC will identify what specific advice and publicity is required to promote the existing services and how to get to useful destinations by bus. This should be revised during development to enable changes to be made as required.









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Local rail and bus timetable information will be available within the site. If requested, 7.3.9 paper copies can be supplied via the TPC.

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7.3.10 Trial bus pass could be used if considered appropriate.

### **Car Share Strategy**

7.3.11 Dedicated car share spaces will be provided within the site to encourage take-up. These spaces will be positioned in favourable locations and be available for car sharers only. The management of these spaces will be the responsibility of the TPC.

### Soft Measures

- 7.3.12 Alongside the car share spaces, it is favourable for the development to have a dedicated car share website to encourage and facilitate members to find car share partners. A private car share group will be maintained and established by the TPC.
- 7.3.13 Regular marketing campaigns will be developed via the TPC to encourage people to share their journeys. This may include car share event days.
- 7.3.14 An emergency guaranteed ride home scheme was identified in the survey response as a significant measure to encourage travel change behaviour, especially by car drivers, and the feasibility of providing this within the MOD systems will be investigated by the TPC.

### Other Measures

### **Telecommunications**

7.3.15 Video and teleconference facilities will be utilised where appropriate.

### **Alternative Vehicle Charging Points**

7.3.16 These will also be considered, dependent on potential demand from employees. The advances in electric cars, recent Government policy announcements and commitment by manufactures to mass produce these in the UK make this a realistic option as an alternative to petrol and diesel vehicles. This will also be dependent on corporate procurement of MOD vehicles.

### **Personalised Travel Planning (PTP)**

PTP is an essential part of any TP to ensure maximum success. It is envisaged that the 7.3.17 TPC will meet with all new employees and anyone required to relocate, or requests PTP as part of the TP. The TPC will discuss travel options and choices. This will include where key facilities are located, how to access public transport services and other essential information.

### **Car Parking and Parking Management**

7.3.18 The design of on site parking will be according to OCC parking standards. The design of the site will prioritise pedestrians and cyclists above car use where feasible.







### **Traffic Generation** 8.

#### 8.1 Graven Hill

8.1.1 Estimations of person trips per land use type have formed the basis for the vehicular traffic generation calculations. As defined in the DfT GTA:

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- A person trip is a one-way journey by one person by any mode of transport, including walking, cycling, private vehicles or any public transport modes.
- A vehicle trip is a one way journey by a single privately operated vehicle regardless of the number of persons in the vehicle, e.g. two people travelling in a car (car driver and car passenger) constitute two person trips but one vehicle trip.
- 8.1.2 In identifying person trip rates, reference has been made to two other sites in Bicester:
  - The permitted South West Bicester development (Application 10/00325/REM) comprising 1,585 residential units, approximately 20,000m<sup>2</sup> of B1/B2 employment land, health village, local centre, sports centre, two primary schools and secondary school.
  - North West Bicester (Application 10/01780/HYBRID) aims to deliver 394 homes, primary school, eco-business centre, eco-pub, local shops, children's nursery, community centre and biomass energy centre.
- 8.1.3 Person trip generations for each land use has been derived from either the South West Bicester development TA, or the NW Bicester TA, or the TRICS database. Table 8.1 sets out the trip rate source for clarification and Appendix B provides the data.

Land Use	Size	Trip Rate Source	Rationale for Trip Rate Source
Residential	1,900 units	NW Bicester person trip rates	Most up-to-date person trip rates; approved by highway authority
B1(a) Office	2,160m <sup>2</sup>	SW Bicester development trip rates	Approved by highway authority
B1(b) Research & Development	2,400m <sup>2</sup>	Assumed to be the same as B1(a)	No equivalent in SW Bicester development or NW Bicester
B1(c)/B2 Light Industry	20,520m <sup>2</sup>	TRICS 2011(a) v 6.7.2 - multi modal trip rates	No equivalent in SW Bicester development or NW Bicester
B8 Warehousing	66,680m <sup>2</sup>	TRICS 2011(a) v 6.7.2 - multi modal trip rates	No equivalent in SW Bicester development or NW Bicester
Two Form Entry Primary School	420 pupils	NW Bicester person trip rates	Most up-to-date person trip rates; approved by highway authority
Local Retail	2,323m <sup>2</sup>	NW Bicester person trip rates	Most up-to-date person trip rates; approved by highway authority
Hotel/restaurant/ bar	100 rooms	SW Bicester development trip rates	Approved by highway authority

#### Table 8.1 Land Use Trip Rate Source

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8.1.4 Given the scale of site and the mixed use provision, there is likely to be a high level of containment of certain land use trips, such as the primary school, retail, and community uses. Multi modal share assumptions have been applied to the person trip generations in order to estimate the vehicular traffic generation and estimations on levels of containment have been made to derive vehicle movements on the external road network. These were scoped with OCC and included in a Transport Assessment Scope of Works document submitted to OCC in June 2011.

### **Modal Shares**

- 8.1.5 Calculation of modal shares (i.e. journeys by car, bus, rail, cycle, foot) can be based upon a combination of National Travel Survey (NTS) data and 2001 census data.
- 8.1.6 Modal splits taken from the 2001 Census data for the Bicester South ward are shown in Table 8.2 for the residential and commuter populations respectively.

Mode	Reside	ents <sup>1</sup>	Commu	iters <sup>2</sup>
	Bicester South	Bicester <sup>3</sup>	Bicester South	Bicester <sup>3</sup>
Train	3.0%	2.3%	1.0%	0.8%
Bus	2.4%	4.4%	2.0%	2.5%
Taxi or minicab	0.3%	0.3%	0.0%	0.6%
Driving a Car/Van	80.8%	69.7%	80.0%	65.5%
Passenger in a Car/Van	4.5%	7.5%	3.0%	8.8%
Motorcycle	1.0%	1.1%	0.5%	0.9%
Bicycle	3.3%	5.0%	3.0%	7.1%
On Foot	4.0%	9.3%	9.9%	13.5%
Other	0.4%	0.3%	0.5%	0.3%

### Table 8.2 2001 Census Journey to Work Modal Share - Residents and Commuters

Notes

<sup>1</sup>. Data Source (2001 census dataset UV39 - Journeys to work, resident population). Calculations do not include those who work from home or those who are currently unemployed.

<sup>2</sup>. Data Source (2001 census dataset UV37 - Journeys to work, daytime population). Calculations do not include those who work from home or those who are currently unemployed.

<sup>3</sup>. Average of combined Bicester East, Bicester West, Bicester South, Bicester North and Bicester Town wards.

8.1.7 The 2001 Census data shows that there is a high SOV proportion in the Bicester South Ward for both residents and commuters at around 80%, whereas, this is lower for the town as a whole at 70% and 65% respectively. Interestingly, 10% of commuters travel by foot to their place of work in Bicester South, compared to 4% of residents, and 13.5% of commuters in Bicester as a whole. As already identified, the site is well located for access to employment, retail, education and leisure and rail travel and that the development proposals will include frequent, high quality bus provision and





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connections to the existing pedestrian and cycle links and will provide excellent travel choice opportunities. Therefore, it is considered feasible and reasonable to propose higher sustainable transport and lower SOV targets.

8.1.8 The following section presents the proposed trip generations for the key land uses on the site which are based on the TRICS database, local data where available, 2001 Census data for multi modal splits, and the NTS. Appendix D provides information on trip generation.

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### Residential

- 8.1.9 The methodology for calculating the residential trip rates has been based on:
  - person trip rates derived from the NW Bicester TA;
  - identification of person trip generation by journey purpose based on the DfT NTS data;
  - identification of internalisation of trips;
  - identification of modal splits by journey purpose based on the 2001 Census data and the NTS data; and
  - identification of external trips by journey purpose and modal share.
- 8.1.10 These steps are set out in the following sections.

### **Person Trip Rates**

8.1.11 The NW Bicester person trip rates have been adopted on the basis that this is the most up to date TA and that they have been accepted by the local highway authority, however, the methodology to identify the proposed vehicular trip rates is different. The NW Bicester TA identifies different person trip rates for private housing and for affordable housing. It has been assumed that up to 30% of the 1,900 dwellings would be affordable housing, or 570 units maximum. Table 8.3 presents the person trip rates and the resultant person trip generation.

Trip Rate/Ge	neration by Housing	AM Pe	eak (08:00-	09:00)	PM Peak (17:00-18:00)			
Туре		In	Out	Total	In	Out	Total	
Private	Person trip rate/unit	0.236	0.862	1.098	0.616	0.377	0.993	
nousing (1,330 units)	Person trip generation	314	1146	1460	819	501	1321	
Affordable	Person trip rate/unit	0.189	0.69	0.879	0.493	0.302	0.795	
units)	Person trip generation	108	393	501	281	172	453	
Total (1,900	Person trip rate/unit	0.425	1.552	1.98	1.109	0.679	1.788	
units)	Person trip generation	422	1,539	1,961	1,100	673	1,774	

### Table 8.3 Residential Person Trip Generation

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### **Journey Purpose**

8.1.12 Reference has been made to the National Travel Survey data to identify journey purpose as these provide a breakdown over the day. Table 8.4 sets out the journey purpose proportions and resultant person trips.

	Origina	I DfT prop	ortions <sup>1</sup>	Person Trip Generation				
Journey Purpose	АМ	РМ	12-hour	AM 00:80)	AM Peak (08:00-09:00)		Peak 18:00)	
				In	Out	In	Out	
Commuting/Business	28%	39%	23%	116	423	429	263	
Education/Escort Education	48%	3%	13%	200	731	33	20	
Shopping	5%	12%	20%	19	69	135	83	
Other Escort/Personal Business	15%	20%	22%	61	223	220	135	
Leisure/Other	6%	26%	23%	25	92	286	175	
Total	100%	100%	100%	422	1,540	1,103	675	

### Table 8.4 Residential Person Trip Generations by Journey Purpose

Notes

<sup>1</sup>. Table 6.6a of NTS 2006 (DfT) - see Appendix B.

- 8.1.13 The journey purpose figures have been further broken down for a number of the categories:
  - education based on the 2001 Census data, it is assumed that 47% are in primary, 33% are in secondary up to the age of 16 and 13% are in further or higher education, assuming 7% are in private schools (national figures according to the Independent Schools Council - http://www.isc.co.uk/FactsFigures\_PupilNumbers.htm);
  - shopping (assumed that 46% is related to food, and of the remaining 54%, 43% is convenience and 11% comparison shopping, based on Table 3.8 of DfT's Focus on Personal Travel 2005 (2002/03 data)); and
  - leisure/other (assumes 33% in the AM and 56% in PM period as visits, 17% in the AM and 20% in the PM as sport/entertainment, 17% in the AM and 12% in the PM as holidays/days out, and 33% in the AM and 12% in the PM as 'other'), based on Table 7.12 of DfT's *Focus on Personal Travel 2001* (1992/2000 data).
- 8.1.14 Table 8.5 provides a summary of the person trips in the AM and PM peaks periods by journey purpose.

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		AM Peak (	08:00-09:00)	PM Peak (1	7:00-18:00)
Journey Purpose		In	Out	In	Out
Commuting/ Business	All	116	423	429	263
	All	200	731	33	20
	Primary	93	340	15	9
Education/Escort Education	Secondary	67	245	11	7
	Higher/Further	26	95	4	3
	Private	14	51	2	1
	All	19	69	135	83
Shopping	Food	9	32	62	38
Shopping	Convenience	8	30	58	36
	Comparison	2	7	15	9
Other Escort/ Personal Business	All	61	223	220	135
	All	25	92	286	175
	Visits	8	31	160	98
Leisure/Other	Sport/ Entertainment	4	15	57	35
	Holidays/Days Out	4	15	34	21
	Other	8	31	34	21
Total		422	1540	1103	675

### Table 8.5 Breakdown of Journey Purpose Person Trips by Time Period

### **Internalisation of Trips**

- 8.1.15 Given that the mixed use development provides employment, primary education, retail and community uses, it is reasonable to consider containment of trips, i.e. journeys with both origin and destination within the development. In addition, and given the Site's proximity to the town centre, and the town centre train station, and the compact nature of Bicester with the employment areas of north-east Bicester less than two miles away, it is considered reasonable to assume relatively high levels of sustainable travel external to the site. The assumptions on the proportion of types of trips internal to the site are as follows.
  - Commuting/business: 5% of these person trips are within the Graven Hill Site.
  - Education: 95% of person trips to primary education would be to the school within the site, the remaining 5% being to a school off-site, mainly to allow for parental choice.
  - Shopping: 100% of person trips to convenience shopping would be within the site.







- Other escort/personal business: 15% of 'other escort' related person trips would be within the site.
- Leisure/other: 10% of visits, 10% of sports and entertainment and 50% of 'other' person trips would be within the site.
- 8.1.16 Table 8.6 sets out the internal person trips by journey purpose.

		AM Peak (	08:00-09:00)	PM Peak (1	7:00-18:00)
Journey Purpose		In	Out	In	Out
Commuting/Business	All	6	21	21	13
	All	88	323	15	9
	Primary	88	323	15	9
Education/Escort Education	Secondary	0	0	0	0
	Higher/Further	0	0	0	0
	Private	0	0	0	0
	All	10	36	71	43
Changing	Food	2	6	12	8
Snopping	Convenience	8	30	58	36
	Comparison	0	0	0	0
Other Escort/ Personal Business	All	9	33	33	20
	All	5	20	39	24
	Visits	1	3	16	10
Leisure/Other	Sport/ Entertainment	0	2	6	4
	Holidays/Days Out	0	0	0	0
	Other	4	15	17	11
Total		119	434	179	109

### Table 8.6 Internal Person Trips by Journey Purpose

### **External Trips**

8.1.17 Based on Tables 8.5 and 8.6, the calculated external person trips in the AM and PM peak periods broken down by journey purpose are shown in Table 8.7. This shows a total of 1,409 two-way person trips travelling external to the site from the residential element of the development in the AM peak period and 1,491 two-way person trips in the PM peak.

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		AM Peak (0	8:00-09:00)	PM Peak (1	7:00-18:00)
Journey Purpose		In	Out	In	Out
Commuting/Business	All	110	402	408	250
	All	112	408	18	11
	Primary	5	17	1	0
Education/Escort Education	Secondary	67	245	11	7
Ladoaton	Higher/Further	26	95	4	3
	Private	14	51	2	1
	All	9	33	64	39
Channing	Food	7	25	50	30
Snopping	Convenience	0	0	0	0
	Comparison	2	7	15	9
Other Escort/ Personal Business	All	52	190	187	115
	All	20	72	247	151
	Visits	8	28	144	88
Leisure/Other	Sport/ Entertainment	4	14	51	32
	Holidays/Days Out	4	15	34	21
	Other	4	15	17	11
Total		303	1106	925	566

#### Table 8.7 **External Person Trips by Journey Purpose**

### **Modal Splits by Journey Purpose**

- 8.1.18 Modal splits by journey purpose have been derived as follows and have been based on the site location and accessibility to journey purpose destinations, as illustrated in Figure 4.1.
  - ٠ Commuting/business - reference has been made to the 2001 Census data for residents' journeys to work, based on the whole of Bicester, as shown in Table 4.2. Modal splits are based on site location in relation to employment areas in Bicester, access to bus and rail and targets for the site.
  - Education based on NTS data and site location in relation to other primary ٠ schools, the secondary schools, etc. and travel options to these. It should be noted that a 'car driver' trip is specifically to drop off or pick up, a 'car passenger' trip includes those journeys where drop off/pick up is linked with another trip, e.g. journey to work.

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- Shopping based on NTS data and site location in relation to food shopping and ٠ comparison shopping and travel options to these (convenience shopping assumed to be 100% on site).
- Leisure/other based on site location in relation to leisure, banks, post office, etc. and travel options to these and NTS data.
- 8.1.19 The modal split targets for external trips are identified in Table 8.8, which for commuting/business trips, shows a higher proportion of sustainable modes compared to the 2001 Census data for Bicester South ward. This is due to the proposed improvements to the pedestrian and cycle environment and bus services in the area and also attributable to the site's proximity to the town centres and railway stations.

	Walk	Cycle	Car Driver	Car Passenger	Other Private	Local Bus	Rail	Other Public
Commuting/ Business	5.0%	6.0%	65.0%	10.0%	1.0%	8.0%	5.0%	0.0%
Primary education	0.0%	2.0%	50.0%	40.0%	4.0%	4.0%	0.0%	0.0%
Secondary education	0.0%	10.0%	35.0%	30.0%	4.0%	20.0%	1.0%	0.0%
Further/ Higher education	0.0%	10.0%	35.0%	30.0%	4.0%	20.0%	1.0%	0.0%
Private education	0.0%	0.0%	21.0%	60.0%	4.0%	10.0%	5.0%	0.0%
Food shopping	0.0%	1.0%	60.0%	30.0%	2.0%	5.0%	0.0%	2.0%
Convenience shopping	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Comparison shopping	0.0%	1.0%	65.0%	24.0%	0.0%	7.0%	3.0%	0.0%
Personal Business/ Escort	17.6%	0.5%	48.5%	25.8%	0.6%	5.0%	0.9%	1.0%
Leisure/Other	17.1%	1.9%	35.3%	33.9%	0.9%	5.4%	2.5%	2.5%

#### Table 8.8 Modal Splits by Journey Purpose - External Trips

8.1.20 The resultant AM and PM peak period trips by journey purpose and mode are shown in Tables 8.9 to 8.12.

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Journey Purpose	Walk	Cycle	Car Driver	Car Passenger	Other Private	Local Bus	Rail	Other Public	Total
Commuting/ Business	6	7	72	11	1	9	6	0	110
Primary Education	0	0	2	2	0	0	0	0	5
Secondary Education	0	7	23	20	3	13	1	0	67
Further Higher Education	0	3	9	8	1	5	0	0	26
Private Education	0	0	3	8	1	1	1	0	14
Total Education	0	9	38	38	4	20	2	0	112
Food Shopping	0	0	4	2	0	0	0	0	7
Convenience Shopping	0	0	0	0	0	0	0	0	0
Comparison Shopping	0	0	1	0	0	0	0	0	2
Total Shopping	0	0	6	3	0	0	0	0	9
Personal Business/Escort	9	0	25	13	0	3	0	1	52
Leisure / Other	3	0	7	7	0	1	0	1	20
Total	18	17	147	72	6	33	8	1	303

#### Table 8.9 AM Peak External Trips by Mode - In Trips

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Journey Purpose	Walk	Cycle	Car Driver	Car Passenger	Other Private	Local Bus	Rail	Other Public	Total
Commuting/ Business	20	24	261	40	4	32	20	0	402
Primary Education	0	0	9	7	1	1	0	0	17
Secondary Education	0	24	86	73	10	49	2	0	245
Further/ Higher Education	0	10	33	29	4	19	1	0	95
Private Education	0	0	11	31	2	5	3	0	51
Total Education	0	34	138	140	16	74	6	0	408
Food Shopping	0	0	15	8	1	1	0	1	26
Convenience Shopping	0	0	0	0	0	0	0	0	0
Comparison Shopping	0	0	5	2	0	1	0	0	7
Total Shopping	0	0	20	9	1	2	0	1	33
Personal Business/Escort	33	1	92	49	1	9	2	2	190
Leisure/Other	12	1	26	25	1	4	2	2	72
Total	66	61	537	263	23	121	30	4	1,105

### Table 8.10 AM Peak External Trips by Mode - Out Trips

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Journey Purpose	Walk	Cycle	Car Driver	Car Passenger	Other Private	Local Bus	Rail	Other Public	Total
Commuting/ Business	20	24	265	41	4	33	20	0	408
Primary Education	0	0	0	0	0	0	0	0	1
Secondary Education	0	1	4	3	0	2	0	0	11
Further/Higher Education	0	0	2	1	0	1	0	0	4
Private Education	0	0	0	1	0	0	0	0	2
Total Education	0	2	6	6	1	3	0	0	18
Food Shopping	0	1	30	15	1	2	0	1	50
Convenience Shopping	0	0	0	0	0	0	0	0	0
Comparison Shopping	0	0	9	3	0	1	0	0	15
Total Shopping	0	1	39	18	1	4	0	1	64
Personal Business/Escort	33	1	91	48	1	9	2	2	187
Leisure/Other	42	5	87	84	2	13	6	6	246
Total	96	32	488	198	9	62	29	9	924

Table 8.11 PM Peak External Trips by Mode - In Trips

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Journey Purpose	Walk	Cycle	Car Driver	Car Passenger	Other Private	Local Bus	Rail	Other Public	Total
Commuting/ Business	12	15	162	25	2	20	12	0	250
Primary Education	0	0	0	0	0	0	0	0	0
Secondary Education	0	1	2	2	0	1	0	0	7
Further/Higher Education	0	0	1	1	0	1	0	0	3
Private Education	0	0	0	1	0	0	0	0	1
Total Education	0	1	4	4	0	2	0	0	11
Food Shopping	0	0	18	9	1	2	0	1	30
Convenience Shopping	0	0	0	0	0	0	0	0	0
Comparison Shopping	0	0	6	2	0	1	0	0	9
Total Shopping	0	0	24	11	1	2	0	1	39
Personal Business/Escort	20	1	55	30	1	6	1	1	114
Leisure/Other	26	3	53	51	1	8	4	4	151
Total	59	20	299	121	6	38	18	6	565

 Table 8.12
 PM Period External Trips by Mode - Out trips

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### **Residential Traffic Generation**

8.1.21 The resultant traffic generation to/from the site in the AM and PM peaks is summarised in Table 8.13.

Pecidential	AM Pe	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
Residential	In	Out	Total	In	Out	Total
Traffic Generation	147	537	685	488	299	787
Vehicle trip rate/unit	0.077	0.283	0.360	0.257	0.157	0.414

Table 8.13	Residential Traffic Generation (Based on 1,900 Dwellings)
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8.1.22 A comparison has been made with the NW Bicester and the South West Bicester development, as summarised in Table 8.14. This shows that the trip rates in the AM Peak are similar to that of the South West Bicester development and higher than the NW Bicester. In the PM peak, the trip rates are lower than the South West Bicester, but higher than the NW Bicester.

### Table 8.14 Vehicular Trip Rates of Other Site Examples and Traffic Generation

	AM P	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
NW Bicester						
Average trip rate per unit equivalent	0.066	0.239	0.305	0.173	0.099	0.272
Traffic generation (1,900 units)	126	456	582	330	189	519
SW Bicester						
Average trip rate per unit equivalent	0.076	0.317	0.393	0.332	0.145	0.477
Traffic generation (1,900 units)	144	602	746	641	276	917

### Employment

### B1(a) Office and B1(b) Research & Development Uses

8.1.23 It has been assumed that traffic generation for the R&D element would be comparable to that of office. The methodology for calculating the vehicular trip rates for these B1 uses has been based on the South West Bicester site, as summarised in Table 8.15.

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	AM P	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
South West Bicester Trip Rate - Vehs/100m <sup>2</sup>	1.42	0.12	1.5	0.12	1.09	1.21
Total Trips (Vehs) B1(a) (2,160m <sup>2</sup> )	31	3	32	3	24	26
Total Trips (Vehs) B1(b) (2,400m <sup>2</sup> )	34	3	36	3	26	29
Total Trips (Vehs)	65 5 68			5	50	55

#### Table 8.15 B1(a) and B1(b) Employment Trip Rates and Traffic Generation

### B1(c) and B2 Uses

- Neither the South West Bicester Site TA or the NW Bicester TA included light 8.1.24 industrial uses, therefore reference has been made to the TRICS database. The methodology adopted is as follows:
  - identification of person trip rates derived from the TRICS database;
  - identification of internalisation of trips;
  - identification of modal splits by journey purpose based on the 2001 Census data; and
  - identification of external trips by journey purpose and modal share.
- 8.1.25 The TRICS database has been interrogated to identify person trip rates to/from the development. The results are included in Appendix C and a summary is shown in Table 8.16. It is assumed that 5% of the employees will come from within the site itself, and therefore assumed to be internal trips, which is also shown in Table 8.16.

B1(c)/B2 Employment Person Trips derived from TRICS **Table 8.16** 

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
Person Trip rate per 100m <sup>2</sup>	0.737	0.392	1.129	0.312	0.648	0.96
Person Trip generation	151	80	232	64	133	197
Internalisation of trips - 5% reduction	144	76	220	61	126	187

8.1.26 The proposed modal share targets for the employment person trip rates are shown in Table 8.17 which summarises the resultant modal trip generation.

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Defence





Mode	%	AM P	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
		In	Out	Total	In	Out	Total
Car	70%	101	53	154	43	88	131
Bus	5%	7	4	11	3	6	9
Cycle	8%	11	6	18	5	10	15
Walk	5%	7	4	11	3	6	9
Train	2%	3	2	4	1	3	4
Car Passenger	10%	14	8	22	6	13	19
External person trips	100%	144	76	220	61	126	187

#### B1(c)/B2 Employment Modal Trip Generation (based on 20,520m<sup>2</sup>GFA) Table 8.17

8.1.27 Table 8.18 sets out the vehicle trip generation and the vehicle trip rate per  $100m^2$ based on an employment development size of 20,520m<sup>2</sup>GFA.

#### B2 Employment Traffic Generation (based on 20,520m<sup>2</sup>GFA) **Table 8.18**

Employment	AM P	eak (08:00-0	09:00)	PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
Traffic Generation	101	53	154	43	88	131
Vehicle trip rate/100m <sup>2</sup>	0.49	0.26	0.75	0.21	0.43	0.64

### **B8** Uses

- 8.1.28 Neither the South West Bicester Site TA or the NW Bicester TA included B8 uses, therefore reference has been made to the TRICS database. The methodology adopted is as follows:
  - identification of person trip rates derived from the TRICS database;
  - identification of internalisation of trips;
  - ٠ identification of modal splits by journey purpose based on the 2001 Census data; and
  - identification of external trips by journey purpose and modal share.
- 8.1.29 The TRICS database has been interrogated to identify person trip rates to/from the development. The results are included in Appendix C and a summary is shown in Table 8.19. It is assumed that 5% of the employees will come from within the site itself, and therefore assumed to be internal trips, which is also shown in Table 8.19.







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	AM P	eak (08:00-0	09:00)	PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
Person Trip rate per 100m <sup>2</sup>	0.038	0.019	0.057	0.019	0.046	0.065
Person Trip generation	25	13	38	13	31	44
Internalisation of trips - 5% reduction	24	12	36	12	29	41

#### **B8 Employment Person Trips derived from TRICS** Table 8.19

8.1.30 The proposed modal share targets for the employment person trip rates are shown in Table 8.20 which summarises the resultant modal trip generation.

Mode	%	AM F	Peak (08:00-	09:00)	PM Peak (17:00-18:00)		
Mode		In	Out	Total	In	Out	Total
Car	70%	17	8	25	8	20	29
Bus	5%	1	1	2	1	1	2
Cycle	8%	2	1	3	1	2	3
Walk	5%	1	1	2	1	1	2
Train	2%	0	0	1	0	1	1
Car Passenger	10%	2	1	4	1	3	4
External person trips	100%	24	12	36	12	29	41

#### B8 Employment Modal Trip Generation (based on 66,680m<sup>2</sup> GFA) Table 8.20

8.1.31 Table 8.21 sets out the vehicle trip generation and the vehicle trip rate per 100m<sup>2</sup> based on an employment development size of 66,680m<sup>2</sup>GFA.

#### Table 8.21 B8 Employment Traffic Generation (based on 66,680m<sup>2</sup> GFA)

Employment	AM P	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
	In	Out	Total	In	Out	Total
Traffic Generation	17	8	25	8	20	29
Vehicle trip rate/100m <sup>2</sup>	0.03	0.01	0.04	0.01	0.03	0.04

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### Primary School

8.1.32 The proposed two form entry primary school would accommodate up to 420 pupils between the ages of 4 and 11 years old and the Graven Hill site itself would generate the main demand for spaces at the school, resulting in a high level of containment and opportunities for sustainable transport. The remaining catchment would likely be the existing housing developments off Peregrine Way, north of the Graven Hill site.

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8.1.33 Person trip rates have been derived from the NW Bicester TA. It has been assumed that 15% of the trips would be external to the site. Table 8.22 summarises the person trips and the assumed modal splits for the external trip generation. This shows that the school would generate 68 vehicular movements in the AM peak hour and three in the PM peak hour.

Mode	Townst	AM P	eak (08:00-0	09:00)	PM Peak (17:00-18:00)			
	Target	In	Out	Total	In	Out	Total	
TRICS person trip rate per pupil		1.275	0.257	1.532	0.026	0.052	0.078	
Total trips (based on 420 pupils)		536	108	643	11	22	33	
External trips - assumes 15% of total		80	16	97	2	3	5	
Walk	15%	12	2	14	0	0	1	
Car/Van	70%	56	11	68	1	2	3	
Car Passenger	10%	8	2	10	0	0	0	
Cycle	2%	2	0	2	0	0	0	
Bus	3%	2	0	3	0	0	0	

#### **Table 8.22** Proposed Two Form Entry Primary School - Multi Modal Trip Generation

### **Small Scale Retail**

- 8.1.34 The methodology for calculating the residential trip rates has been based on:
  - person trip rates derived from the TRICS database;
  - assumptions on internalisation of trips; and
  - assumptions on linked trips.
- 8.1.35 The TRICS database has been interrogated to identify person trip rates to/from the development. The results are included in Appendix D and a summary is shown in Table 8.23. It is assumed that 60% of person trips would be from the residential element of the site, 30% would be 'linked trips', i.e. part of journey purpose trips to the other land uses, such as the employment, school, visitors to the residential. The remaining 10% are assumed to be external to the site and all car based, with a









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proportion likely to be pass-by trips, i.e. already on the road network. No allowance has been made for this. The multi-modal trip generation is summarised in Table 8.23.

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Description		AM P	eak (08:00-(	09:00)	PM Peak (17:00-18:00)			
		In	Out	Total	In	Out	Total	
TRICS person trip rate per 100m <sup>2</sup> GFA		14.642	13.487	28.129	9.03	9.538	18.568	
Person trip generation (2322.5m <sup>2</sup> GFA retail development)		340	313	653	210	222	431	
Internal - residential	60%	204	188	392	126	133	259	
Linked (employment, visitors, etc.)	30%	102	94	196	63	66	129	
External (local area/pass-by) - assumed to be vehicular	10%	34	31	65	21	22	43	
Vehicle trip rate/100m <sup>2</sup>		1.4642	1.3487	2.8129	0.903	0.9538	1.8568	

Table 8.23	Proposed Small Scale Retail - Multi Modal Trip Generation

### Hotel/Restaurant/Bar

8.1.36 The proposed development will comprise up to 100 bedrooms, the same as that included in the South West Bicester development, or the equivalent of 7,000m<sup>2</sup>GFA. The methodology for calculating the traffic generation has been based on the person trip rates and modal split assumptions adopted in the South West Bicester TA, which assumes 1.25 passengers per vehicle. Table 8.24 summarises the results.

Description		AM P	eak (08:00-	09:00)	PM Peak (17:00-18:00)		
		In	Out	Total	In	Out	Total
	Non-Car	0.00	0.32	0.32	0.35	0.21	0.56
Trip Rates per	Car Driver	0.32	0.35	0.67	0.36	0.27	0.63
room	Car Passenger	0.08	0.09	0.17	0.09	0.07	0.16
	Total	0.40	0.76	1.16	0.80	0.55	1.35
	Non-Car	0	22	22	25	15	39
Trip Generation (100 room hotel)	Car Driver	22	25	47	25	19	44
	Car Passenger	6	6	12	6	5	11
	Total	28	53	81	56	39	95

**Table 8.24** Proposed Hotel/Restaurant/Bar - Vehicle Trip Generation

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### Summary

8.1.37 Table 8.25 summarises the total site traffic generation for the AM and PM peak hours.

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	Size	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
		In	Out	Total	Out	In	Total
Residential	1,900 units	147	537	685	488	299	787
B1(a) Office	2,160m <sup>2</sup>	31	3	32	3	24	26
B1(b) R&D	2,400m <sup>2</sup>	34	3	36	3	26	29
B1(c)/B2 Light Industry	20,520m <sup>2</sup>	101	53	154	43	88	131
B8 Warehousing	66,680m <sup>2</sup>	17	8	25	8	20	29
Primary School	420 pupils	56	11	68	1	2	3
Local Retail	2,323m <sup>2</sup>	34	31	65	21	22	43
Hotel/Restaurant/ Bar	100 rooms	22	25	47	25	19	44
Total		442	671	1,112	592	500	1,092

Table 8.25 Summary of External Vehicle Generation by Land Use

# 8.2 C Site

### **Normal Operational Activity Assumptions**

8.2.1 The Fulfilment Centre will operate 24 hours a day Monday to Friday with a 'skeleton' staff over the weekends and bank holidays to deal with priorities. It is anticipated that there will be approximately 620 staff employed at C Site over three shifts. Other than in emergency 'surge' situations, it is assumed that external activity will occur during normal working hours.

### Assumptions on Working Hours

- 8.2.2 There will be approximately 620 core staff operating the Sunday to Thursday shifts which will be along the lines of alternate shifts of:
  - Early shift Picking, Goods Inwards & Replenishment 06:00-14:15: 260 staff;
  - Late shift Picking, Consolidation and Loading 14:00-22:15: 260 staff; and
  - Night shift Consolidation, loading, Replenishment 22:00-06:15: 100 staff.

### **Sustainable Travel Assumptions**

8.2.3 Based on the results of Travel Surveys undertaken of staff at C Site there are approximately 20% of staff who currently travel via sustainable modes. The C Site





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Travel Plan proposes that a maximum SOV level of 75% for the redeveloped C Site is achieved within five years of opening. This would be a minimum 5% reduction (1% per annum) from existing C Site levels and due to the site location and operating patterns, it is felt to be a realistic achievable minimum reduction.

### **HGV Deliveries**

8.2.4 It is anticipated that there will be 110 HGVs delivering to and from the site, constituting 220 HGV movements (in and out). Most deliveries to the site will take place between 06:00 and 13:00 hours. Outbound HGVs will leave between 05:00 and 09:00 hours and 17:00 and 22:00 hours.

### **Traffic Generation**

8.2.5 Based on the above, the traffic generation assumptions are as shown in Table 8.26.

Time			In			Out			Total	
From	То	Staff vehs*	HGVs	Total	Staff vehs	HGVs	Total	Staff vehs	HGVs	Total
00:00	01:00	0	0	0	0	0	0	0	0	0
01:00	02:00	0	0	0	0	0	0	0	0	0
02:00	03:00	0	0	0	0	0	0	0	0	0
03:00	04:00	0	0	0	0	0	0	0	0	0
04:00	05:00	0	0	0	0	0	0	0	0	0
05:00	06:00	195	0	195	0	17	17	195	17	212
06:00	07:00	0	11	11	75	17	92	75	28	103
07:00	08:00	0	17	17	0	17	17	0	33	33
08:00	09:00	0	17	17	0	6	6	0	22	22
09:00	10:00	0	17	17	0	0	0	0	17	17
10:00	11:00	0	13	13	0	0	0	0	13	13
11:00	12:00	0	13	13	0	0	0	0	13	13
12:00	13:00	0	12	12	0	0	0	0	12	12
13:00	14:00	195	11	206	0	0	0	195	11	206
14:00	15:00	0	0	0	195	0	195	195	0	195
15:00	16:00	0	0	0	0	0	0	0	0	0
16:00	17:00	0	0	0	0	0	0	0	0	0
17:00	18:00	0	0	0	0	11	11	0	11	11
18:00	19:00	0	0	0	0	11	11	0	11	11
19:00	20:00	0	0	0	0	11	11	0	11	11

**Table 8.26** C Site Traffic Generation - Normal Activity

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Time			In			Out			Total	
From	То	Staff vehs*	HGVs	Total	Staff vehs	HGVs	Total	Staff vehs	HGVs	Total
20:00	21:00	0	0	0	0	11	11	0	11	11
21:00	22:00	75	0	75	0	11	11	75	11	86
22:00	23:00	0	0	0	195	0	195	195	0	195
23:00	00:00	0	0	0	0	0	0	0	0	0
Total		465	110	575	465	110	575	930	220	1,150

\* Assumes 75% will travel by car, remaining by sustainable modes (car share, cycle, walk)

8.2.6 It is noted that the proposed development would result in an overall net reduction in traffic generation, although there would be an increase in HGV movements. The traffic generation predictions show a significant reduction in peak period traffic generation as a result of the three shift operational activities. The net difference is summarized in Table 8.27.

Time			In			Out			Total	
From	То	Staff vehs*	HGVs	Total	Staff vehs	HGVs	Total	Staff vehs	HGVs	Total
00:00	01:00	0	-1	-1	-2	0	-2	-2	-1	-3
01:00	02:00	0	0	0	-3	0	-3	-3	0	-3
02:00	03:00	-1	0	-1	0	0	0	-1	0	-1
03:00	04:00	-1	1	0	0	0	0	-1	1	0
04:00	05:00	0	0	0	-1	-1	-2	-1	-1	-2
05:00	06:00	187	0	187	-4	16.5	13	183	17	200
06:00	07:00	-56	12	-44	64	16.5	81	8	29	37
07:00	08:00	-138	17.5	-121	-16	15.5	-1	-154	33	-121
08:00	09:00	-119	20.5	-99	-23	-2.5	-26	-142	18	-124
09:00	10:00	-67	10.5	-57	-29	-8	-37	-96	3	-94
10:00	11:00	-28	7.2	-21	-39	-3	-42	-67	4	-63
11:00	12:00	-35	12.2	-23	-26	-7	-33	-61	5	-56
12:00	13:00	-32	11.1	-21	-64	-11	-75	-96	0	-96
13:00	14:00	160	9	169	-44	-6	-50	116	3	119
14:00	15:00	-44	-3	-47	153	-6	147	109	-9	100
15:00	16:00	-18	1	-17	-74	-6	-80	-92	-5	-97
16:00	17:00	-14	0	-14	-143	-3	-146	-157	-3	-160

Table 8.27 C Site Traffic Generation - Net Change from Existing

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Time			In			Out			Total	
From	То	Staff vehs*	HGVs	Total	Staff vehs	HGVs	Total	Staff vehs	HGVs	Total
17:00	18:00	-5	2	-3	-71	10	-61	-76	12	-64
18:00	19:00	-10	0	-10	-26	11	-15	-36	11	-25
19:00	20:00	-3	0	-3	-4	11	7	-7	11	4
20:00	21:00	-1	0	-1	-3	11	8	-4	11	7
21:00	22:00	68	-1	67	-5	9	4	63	8	71
22:00	23:00	-6	-1	-7	191	-1	190	185	-2	183
23:00	00:00	-2	-1	-3	-6	0	-6	-8	-1	-9
Total		-165	97	-68	-175	46	-129	-340	143	-197

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### 9. **Traffic Distribution**

#### **Graven Hill Development** 9.1

9.1.1 OCC has recommended that the Central Oxfordshire Traffic Model (COTM) be used to asses the traffic distribution of the site, however, it is understood that this is potentially out-of-date and will be updated. A key to understanding the impacts of any development is to know which routes are likely to be taken by traffic accessing and egressing the development. Three methodologies have been employed, as noted below.

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- The use of journey to work data from the 2001 Census as a proxy for distribution • of residential traffic. Census data is extracted from an appropriate ward in the locality and the destinations are identified. The use of route software enables the identification of likely routeing and the development traffic proportions can be assigned onto the road network. In this case, all Bicester wards were used.
- The use of a standard gravity model (journey time and population based approach) to distribute the employment trips generated from the proposed development onto the local highway network. Again route finder software is used to assign the traffic onto the road network.
- Reference to the South West Bicester development TA.
- 9.1.2 Table 9.1 shows the traffic distribution assumptions for residential use, employment use and local facilities (pub/restaurant/hotel, school, retail).

Location	Residential Land Use <sup>1</sup>	Employment Land Use <sup>1</sup>	Local Facilities <sup>2</sup>
Bicester	25.8%	40.8%	50.0%
North	4.8%	8.3%	40.0%
East	7.6%	11.4%	
M40	12.6%	2.9%	
A34 South	46.2%	32.5%	
West	3.0%	4.1%	10.0%
Total	100%	100%	100%

Table 9.1 **Distribution Assumptions by Land Use** 

<sup>1</sup>. Based on South West Bicester distribution assumptions.

<sup>2</sup>. AMEC derived - based on local populations, distance from the site and alternatives.

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9.1.3 Using AutoRoute software, the traffic distributions have been assigned onto the local road network based on journey time, as shown in Table 9.2. Schematic diagrams illustrating the resultant traffic assignments for the land uses are in Appendix E.

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Origin/	Resident	tial	Employn	nent	Local Facilities		
Destination	%	Assignment	%	Assignment	%	Assignment	
Bicester N	8.6%	Main access - A4421 - Buckingham Rd	13.6%	Main access - A4421 - Buckingham Rd	40.0%	Main access - A4421 - Buckingham Rd	
Bicester C	8.6%	Main access - B4100	13.6%	Main access - B4100	50.0%	Main access - B4100	
Bicester E	8.6%	Main access - A41 - B4030	13.6%	Main access - A41 - B4030			
North	4.8%	Main access - A4421 (North)	8.3%	Main access - A4421 (North)			
East	7.6%	Pioneer Rd access - A41 (East)	11.4%	Pioneer Rd - A41 (East)			
M40	12.6%	Main access - A41 - M40	2.9%	Main access - A41 - M40			
A34 South	46.2%	Main access - A41 - A34	32.5%	Main access - A41 - A34			
		Main access A41		Main access -	5.0% Arncott	A41 East - B4011	
West	3.0%	- B4030 - A4095	4.1%	A41 - B4030 - A4095	5.0% Ambrosden	A41 East - Ploughley Rd	
Total	100.0%		100.0%		100.0%		

Table 9.2 **Traffic Distribution/Assignment** 

#### 9.2 **C** Site Development

9.2.1 Traffic distribution would be based on the same methodology identified for the employment uses on the Graven Hill sites.

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# 10. Traffic Modelling

## 10.1 Introduction

10.1.1 The traffic modelling has been sourced as follows:

- Bicester Saturn Model results provided by Halcrow, OCC's traffic consultants;
- Traffic counts undertaken on behalf of AMEC in June 2011; and
- 2021 Linsig model of Junction 9, M40 provided by the HA's traffic consultants.
- 10.1.2 The junctions which have been considered are shown in Figure 10.1.

# 10.2 Bicester SATURN Model

- 10.2.1 OCC has a strategic SATURN model for Bicester, developed by their consultants Halcrow and produced for the review of the Local Development Framework (LDF) allocations. Data collection around Bicester took place in 2007 and the model has been used to review through-traffic to inform the updated Transport Strategy for Bicester.
- 10.2.2 The transport consultants for the developers of the proposed North West Bicester Eco Town have used the Bicester SATURN Model to test the impact of the development proposals, although it is understood from discussions with OCC officers that there hasn't been liaison on the results of the work or agreement on the scope for assessment.
- 10.2.3 From scoping discussions, it is our understanding that OCC expect that future sites to be tested using the Bicester SATURN model. Dialogue on the specification for the use of the model to test the development proposals was undertaken with Halcrow, and has been agreed with OCC.

### Model Runs

10.2.4 The following scenarios have been tested.

- 2007 AM and PM peak hour Base model (the base year of the model);
- 2031 AM and PM peak hour Baseline (with NW Bicester);
- 2031 AM and PM peak hour Baseline (with NW Bicester), with development (no mitigation); and
- 10.2.5 The following sections provide a description of the model assumptions.







### 2007 Base

10.2.6 The 2007 Base Year model, AM and PM peak hour was calibrated and validated to a cordon of RSI data collected at sites around the 'ring road' and household survey data used to inform the internal movements. Traffic count data was also used through the matrix estimation process.

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10.2.7 The significance of the M40 was recognised, and though it was agreed that the RSI data collection exercise would not be extended to cover the M40 corridor between M40 Junction 9 and Junction 10, the network would include this area and the linking road network. The matrix was in-filled, to add the appropriate traffic to the M40 and adjoining key routes, using data from COTM.

### 2031 Model Scenarios

- 10.2.8 As the COTM had been recently updated, and hence included development scenarios where known, it was agreed that the future year modelling for this project would be 2031. This future year also fitted with the proposed completion of NW Bicester (and hence removed the need to assess the build situation of NW Bicester at 2026) and with the anticipated timetable for development at Graven Hill.
- 10.2.9 In order to agree the baseline 2031 networks and matrices, the following section outlines the current assumptions that would be made for the Bicester SATURN model for agreement and/or discussion. There would be a need to consider these assumptions alongside national traffic demand growth figures (i.e. Tempro), but it is anticipated that, as a result of the quantity of development proposed to be located in the Bicester area, the growth in demand for travel will exceed district wide rates and hence only identified local growth would be used in the model.

### **2031 Baseline Development Assumptions**

10.2.10 This includes the existing MOD Bicester traffic generation (which has been slightly growthed up). The 2031 development assumptions that are proposed for the Bicester area, over the 2007 Base, are shown in Table 10.1. These development assumptions have been agreed with OCC.

Development	Type of Development	Number of Houses	Employment No/ Area
SW Bicester	Residential + Employment/ Commercial	2,085	8.91ha B1/B2
Upper Heyford	Residential + Employment/ Commercial	761	1.6ha B1, 1.8ha B2 8.6ha B8
Bicester Eco-town (NW Bicester)	Residential + Employment/ Commercial	5,000	3,000 B1/B2 jobs
Gavray Drive	Residential	500	N/A
Caversfield MOD Site	Residential	187	N/A

#### Table 10.1 2031 Cumulative Development Assumptions

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Development	Type of Development	Number of Houses	Employment No/ Area
Talisman Road	Residential	140	N/A
Bicester Business Park	Employment/Commercial	N/A	6ha B1
Bicester Town Centre	Employment/Commercial	N/A	1.3ha A3/A4, 0.22ha D2

### **2031 Baseline Network Assumptions**

- The 2031 network assumptions that are proposed for the Bicester area are shown on 10.2.11 the following list. These assumptions have been agreed with OCC. It is noted that the list has been drawn up with knowledge of, but not dictated by, ongoing or proposed development assumptions.
  - Junction access for SW Bicester, and associated A4095 speed reductions;
  - Caversfield infrastructure including traffic calming of the UC;
  - Skimmingdish Lane;
  - East West Rail, including level crossings on Charbridge Lane and London Road;
  - South West Bicester Link Road:
  - Changes to Bure Place (including 2 new roundabouts and signalised car park access);
  - Evergreen 3;
  - Bucknell Road/Howes Lane junction improvement;
  - Middleton Stoney Road traffic calming;
  - M40 J9 Phase 2 improvements; and •
  - Bicester Eco-town internal site infrastructure. •

### 2031 AM and PM Peak Hours + Development

10.2.12 This comprises the 2031 Baseline and the following:

- the existing MOD Bicester traffic at D, E and C Sites has been extracted; and
- the proposed traffic generation for Graven Hill (D and E Sites) and C Site has been added.

### **Model Outputs and Interpretation**

### **Model Outputs**

10.2.13 The outputs have been presented are included in Appendix F and are as follows:

Link flows:





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- demand and actual classified by light and heavy vehicles;
- Junction turning movements:
  - demand and actual classified by light and heavy vehicles; and
  - delay and queues.

### Issues with Data

### Junction 9, M40

- 10.2.14 The turning traffic flows at Junction 9, M40 provided by Halcrow have been queried by AMEC as the A41 turning data was found to be very low when compared to the traffic count surveys. Halcrow has identified that the link flow data is validated, but that the turning movements are not.
- 10.2.15 Reference has therefore been made to a LINSIG model provided by the HA's consultants to identify the turning flows. As has been previously noted, at the time of writing this TA, turning traffic count data at the junction and journey time information to assess the impact of the Phase 1 scheme has not been available.

### **HGV Traffic Flows at A41/Ploughley Road Junction**

- 10.2.16 Following receipt of the data from Halcrow, AMEC made a number of checks and forwarded a list of questions and issues to Halcrow.
- 10.2.17 One of the key issues has been the distribution of HGVs on the A41 east of the Pioneer Road junction. The model data shows that 70 HGVs would be turning into and out of Ploughley Road in the AM Peak. AMEC traffic counts undertaken in 2011 indicated that these movements are more likely in the magnitude of 10. Halcrow has confirmed that east of Pioneer Road is in the 'Buffer Zone' and as such the network is not validated to the same degree, which can lead to some erroneous figures being shown.
- 10.2.18 Consequently, AMEC has manually adjusted the HGV flows in this area, applying the 2011 traffic counts for HGV turning movements into/out of Ploughley Road, growthed to 2031. This has produced a more appropriate set of figures for the HGV traffic into and out of Ploughley Road and the B4011.
- 10.2.19 Changes have also been made to the mainline flow to represent the higher HGV movements that would be expected along this corridor.

#### 10.3 C Site Road Network Modelling

- 10.3.1 The Bicester SATURN Model does not extend to the south of the A41, i.e. the road network stemming off from Ploughley Road and the B4011. Therefore, a separate approach has been undertaken for the following junctions and links:
  - Ploughley Road south of Ambrosden;
  - Palmer Avenue:

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- B4011 south of the A41;
- Junction of Ploughley Road and Palmer Avenue;
- Junction of Palmer Avenue and B4011; and
- C Site Access junction.
- 10.3.2 The traffic flows in these locations above have been developed using 2011 traffic counts (assumed to be the same as the 2007 baseline) which AMEC commissioned earlier in June 2011. The traffic count data is included in Appendix G.
- These counts have been growthed to 2031 using TEMPRO growth (local growth 10.3.3 factors) to provide the 2031 base scenario. The C Site traffic has not been growthed in this scenario.
- 10.3.4 The 2031 + Development scenario has been calculated by applying the changes associated to the proposed C Site development/shift pattern. The reduction in total traffic (although increase in HGVs [as shown in Table 8.28]) has been applied to the links and junctions set out above.
- 10.3.5 The routeing agreement for HGVs from C Site along Palmer Avenue and the B4011 has been maintained in the 2031 + Development scenario, whilst all light vehicles route north to the A41 via Ambrosden and Ploughley Road.

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# **11. Junction Assessments**

## 11.1 Introduction

11.1.1 The impact of any new development will have a varying effect dependant upon the type and nature of that development. Minor alterations in traffic are inevitable over a wide area. It is however important to establish when this traffic will have a detrimental impact upon each individual location.

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11.1.2 The current DfT guidelines '*Guidance on Transport Assessment*' indicates that the development traffic generation threshold for triggering assessment is 30 vehicles. From experience with the other projects around the UK, the HA applies a threshold of 50 vehicles to trigger an assessment. The net difference in traffic generation at the junctions identified in the Study Area, as shown in Figure 10.1, has been summarised in Table 11.1 and included in the traffic flow figures in Appendix H. Table 11.1 also identifies those junctions which have been taken forward for assessment.

Junctions		Net Differen Gener	Assessment Needed	
		AM Peak (08:00-09:00)	PM Peak (17:00-18:00)	
1	J10, M40	24	48	×
2	J9, M40	384	483	~
3	A41/SW Perimeter Road Roundabout	384	483	~
4	A41/signal junction access to SW Bicester	384	483	~
5	A41/signal junction access to Bicester Business Park	384	483	~
6	A41/B4030 roundabout	450	580	~
7	B4030/Pingle Drive roundabout	66	97	~
8	B4030/Middleton Stoney Road roundabout	66	97	~
9	A41/Gravenhill Road/ B4100/ A4421 roundabout	708	820	~
10	A4421/Peregrine Way roundabout	132	135	~
11	A41/Pioneer Road	66	112	~
12	A41/Ploughley Road	-88	-55	×
13	Ploughley Road/Palmer Avenue	-126	-62	×
14	Norris Road/C Site Access	-155	-76	✓ (access junction)
15	Palmer Avenue/B4011	8	8	×
16	A41/B4011	17	1	×

Table 11.1 Junction Assessment Identification

\* Proposed development traffic generation minus existing traffic generation

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# **11.2 Capacity Assessment/Junction Mitigation**

- 11.2.1 It is generally accepted that the capacity threshold for any junction (the point at which congestion will begin to occur is a ration of flow to capacity of 0.85 (degree of saturation of 85%).
- 11.2.2 At points upon the network where this threshold is exceeded and the development makes this situation worse, a scheme has been identified which provides 'nil detriment', i.e. the junction performance is no worse than the situation without the development. This is an acceptable approach to assessment, as set out in the DfT guidelines.

# 11.3 Junction Assessment Results

11.3.1 The following sections present the junction assessment results. The junction models are included in Appendix I.

### Junction 1 - Junction 10 of M40

11.3.2 The HA, in their responses to scoping, has not identified the need to assess Junction 10. In addition, the net traffic gain at the junction is estimated to be less than 50 vehicles which is the threshold for assessment of SRN junctions. The junction has therefore been scoped out and not modelled.

#### Junction 2 - Junction 9 of M40

- 11.3.3 AMEC has been provided with a LINSIG model of Junction 9 of the M40 by the HA's consultants. The junction model is to 2020 and models the Phase 2 scheme for which the HA and OCC have identified a preliminary scheme that has not been taken forward to detailed design.
- 11.3.4 The 2020 model provided by the HA shows that the junction would not be working within capacity even with the Phase 2 scheme in place, with queuing on most of the arms, including the M40 slip roads. The results of the junction modelling are shown in Tables 11.2 and 11.3.

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Link	Link Description	AM Peak (08:00-09:00)		
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue
1/1	M40 N Ahead Left	84.0	27.6	18
1/2	M40 N Ahead	91.3	36.5	23
1/3	M40 N Ahead	90.1	34.4	22
2/1	Circulatory Carriageway conflict with M40 N	75.8	18.2	10
2/2	Circulatory Carriageway conflict with M40 N Ahead	75.4	18.4	10
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	91.2	18.7	14
3/1	A41 Ahead Left	97.1	68.8	25
3/2	A41 Ahead	96.6	65.9	25
3/3	A41 Ahead	97.2	69.6	26
4/1	Circulatory Carriageway conflict with A41 Right Ahead	73.7	13.7	13
4/2	Circulatory Carriageway conflict with A41 Right	91.2	2.2	1
4/3	Circulatory Carriageway conflict with A41 Right	90.0	2.1	1
5/1	M40 S Left	74.2	69.8	4
5/2+5/3	M40 S Ahead	53.5	44.6	3
6/1	Circulatory Carriageway conflict with M40 S Ahead	85.2	8.1	20
6/2	Circulatory Carriageway conflict with M40 S Ahead	84.3	2.5	9
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	83.4	2.4	9
7/1	A34 Left	93.3	28.9	29
7/2	A34 Left	93.3	29.1	29
7/3	A34 Ahead	69.1	11.6	12
7/4	A34 Ahead	51.2	8.5	7
8/1	Circulatory Carriageway conflict with A34 Ahead	21.9	12.8	1
8/2	Circulatory Carriageway conflict with A34 Right Ahead	76.2	13.3	5
8/3	Circulatory Carriageway conflict with A34 Right	32.4	19.9	2

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#### Table 11.2 Junction 2 - J9, M40 2020 AM Peak with Phase 2 Scheme

Total PRC = -8.0 Total Delay = 114.04

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Link	Link Description	PM Peak (17:00-18:00)			
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue	
1/1	M40 N Ahead Left	100.7	85.9	39	
1/2	M40 N Ahead	100.5	83.6	38	
1/3	M40 N Ahead	99.4	73.8	35	
2/1	Circulatory Carriageway conflict with M40 N	97.0	20.0	16	
2/2	Circulatory Carriageway conflict with M40 N Ahead	98.6	20.4	16	
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	99.4	16.2	16	
3/1	A41 Ahead Left	81.7	38.0	14	
3/2	A41 Ahead	81.8	38.1	14	
3/3	A41 Ahead	82.7	38.9	14	
4/1	Circulatory Carriageway conflict with A41 Right Ahead	73.5	8.5	4	
4/2	Circulatory Carriageway conflict with A41 Right	88.4	1.3	1	
4/3	Circulatory Carriageway conflict with A41 Right	87.9	1.2	1	
5/1	M40 S Left	73.2	52.9	6	
5/2+5/3	M40 S Ahead	93.1	68.8	11	
6/1	Circulatory Carriageway conflict with M40 S Ahead	91.0	5.5	16	
6/2	Circulatory Carriageway conflict with M40 S Ahead	92.2	7.0	25	
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	99.6	8.0	29	
7/1	A34 Left	94.4	36.2	29	
7/2	A34 Left	94.5	36.4	29	
7/3	A34 Ahead	82.2	19.7	18	
7/4	A34 Ahead	65.4	13.5	11	
8/1	Circulatory Carriageway conflict with A34 Ahead	81.9	47.4	10	
8/2	Circulatory Carriageway conflict with A34 Right Ahead	88.9	8.8	8	
8/3	Circulatory Carriageway conflict with A34 Right	65.5	3.3	2	

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#### Table 11.3 Junction 2 - J9, M40 2020 PM Peak with Phase 2 Scheme

Total PRC = -11.9 Total Delay = 153.59

11.3.5 AMEC has modelled the junction using 2031 traffic flows which have been based on a combination of the SATURN flows and growthed HA flows from the LINSIG model. As shown in Tables 11.4 and 11.5, the situation worsens in the baseline situation,





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without the development, indicating that a longer term scheme than the Phase 2 works is required to accommodate the future growth in Bicester.

Link	Link Description	AM Peak (08:00-09:00)		
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue
1/1	M40 N Ahead Left	72.6	27.9	16.8
1/2	M40 N Ahead	75.1	29.0	17.9
1/3	M40 N Ahead	75.6	29.3	18.0
2/1	Circulatory Carriageway conflict with M40 N	66.7	17.6	11.4
2/2	Circulatory Carriageway conflict with M40 N Ahead	71.7	19.4	14.7
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	87.8	22.3	18.6
3/1	A41 Ahead Left	76.4	29.2	19.3
3/2	A41 Ahead	76.3	29.2	19.3
3/3	A41 Ahead	76.3	29.2	19.3
4/1	Circulatory Carriageway conflict with A41 Right Ahead	69.5	21.9	14.1
4/2	Circulatory Carriageway conflict with A41 Right	85.2	6.1	3.9
4/3	Circulatory Carriageway conflict with A41 Right	85.8	6.1	2.7
5/1	M40 S Left	47.8	49.9	4.3
5/2+5/3	M40 S Ahead	82.1	62.5	8.4
6/1	Circulatory Carriageway conflict with M40 S Ahead	60.6	3.3	4.7
6/2	Circulatory Carriageway conflict with M40 S Ahead	84.2	6.7	23.5
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	83.3	6.7	23.5
7/1	A34 Left	110.4	215.0	121.1
7/2	A34 Left	110.4	215.0	121.1
7/3	A34 Ahead	58.9	9.1	10.8
7/4	A34 Ahead	53.1	8.3	9.1
8/1	Circulatory Carriageway conflict with A34 Ahead	13.6	40.2	0.9
8/2	Circulatory Carriageway conflict with A34 Right Ahead	110.2	215.3	23.8
8/3	Circulatory Carriageway conflict with A34 Right	82.3	21.0	6.6

#### Table 11.4 Junction 2 - J9, M40 2031 Baseline AM Peak with Phase 2 Scheme

Total PRC = -22.6 Total Delay = 266.30

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Link	Link Description	PM Peak (17:00-18:00)			
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue	
1/1	M40 N Ahead Left	61.9	26.2	11	
1/2	M40 N Ahead	69.3	28.4	13	
1/3	M40 N Ahead	69.5	28.5	13	
2/1	Circulatory Carriageway conflict with M40 N	63.3	12.5	9	
2/2	Circulatory Carriageway conflict with M40 N Ahead	47.5	17.0	10	
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	71.2	13.1	13	
3/1	A41 Ahead Left	63.5	18.9	14	
3/2	A41 Ahead	63.5	18.9	14	
3/3	A41 Ahead	63.5	18.9	14	
4/1	Circulatory Carriageway conflict with A41 Right Ahead	50.4	16.5	5	
4/2	Circulatory Carriageway conflict with A41 Right	84.4	7.6	3	
4/3	Circulatory Carriageway conflict with A41 Right	84.7	7.6	2	
5/1	M40 S Left	65.3	48.5	7	
5/2+5/3	M40 S Ahead	82.1	60.3	9	
6/1	Circulatory Carriageway conflict with M40 S Ahead	63.7	5.6	8	
6/2	Circulatory Carriageway conflict with M40 S Ahead	85.5	5.3	20	
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	84.8	5.2	20	
7/1	A34 Left	86.4	21.4	24	
7/2	A34 Left	86.4	21.4	24	
7/3	A34 Ahead	55.6	10.6	9	
7/4	A34 Ahead	51.8	10.0	9	
8/1	Circulatory Carriageway conflict with A34 Ahead	65.0	38.6	5	
8/2	Circulatory Carriageway conflict with A34 Right Ahead	86.7	25.6	7	
8/3	Circulatory Carriageway conflict with A34 Right	76.7	15.0	7	

#### Table 11.5 Junction 2 - J9, M40 2031 Baseline PM Peak with Phase 2 Scheme

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Total PRC = 3.8 Total Delay = 70.48

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11.3.6 In the 2031 + Development scenario, the results of which are shown in Tables 11.6 and 11.7, the situation is worsened, particularly on the A34 arm which is showing substantial increases in queuing in the AM peak. In the PM peak, the junction operates more satisfactorily.

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Link	Link Description	AM Peak (08:00-09:00)		
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue
1/1	M40 N Ahead Left	73.3	32.0	19
1/2	M40 N Ahead	76.7	33.7	21
1/3	M40 N Ahead	76.3	33.5	21
2/1	Circulatory Carriageway conflict with M40 N	58.1	25.2	11
2/2	Circulatory Carriageway conflict with M40 N Ahead	62.2	13.6	8
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	79.2	27.6	14
3/1	A41 Ahead Left	69.3	24.9	20
3/2	A41 Ahead	69.4	25.0	20
3/3	A41 Ahead	69.2	24.9	20
4/1	Circulatory Carriageway conflict with A41 Right Ahead	78.2	30.7	17
4/2	Circulatory Carriageway conflict with A41 Right	96.8	13.2	7
4/3	Circulatory Carriageway conflict with A41 Right	96.4	13.2	5
5/1	M40 S Left	42.7	51.8	5
5/2+5/3	M40 S Ahead	82.7	67.9	10
6/1	Circulatory Carriageway conflict with M40 S Ahead	60.9	4.5	8
6/2	Circulatory Carriageway conflict with M40 S Ahead	85.6	5.0	29
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	86.0	5.0	29
7/1	A34 Left	139.6	605.4	381
7/2	A34 Left	139.6	605.4	381
7/3	A34 Ahead	55.0	7.5	10
7/4	A34 Ahead	47.5	6.6	8
8/1	Circulatory Carriageway conflict with A34 Ahead	8.4	75.6	1
8/2	Circulatory Carriageway conflict with A34 Right Ahead	138.4	632.1	59
8/3	Circulatory Carriageway conflict with A34 Right	109.3	240.8	20

#### Table 11.6 Junction 2 - J9, M40 2031 Baseline + Development AM Peak with Phase 2 Scheme

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Total PRC = -55.1 Total Delay = 812.35





Link	Link Description	PM Peak (17:00-18:00)		
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue
1/1	M40 N Ahead Left	64.6	33.5	14
1/2	M40 N Ahead	72.3	36.4	17
1/3	M40 N Ahead	74.4	37.4	18
2/1	Circulatory Carriageway conflict with M40 N	55.1	16.6	13
2/2	Circulatory Carriageway conflict with M40 N Ahead	54.7	20.1	14
2/3	Circulatory Carriageway conflict with M40 N Right Ahead	70.8	14.4	17
3/1	A41 Ahead Left	68.0	26.8	18
3/2	A41 Ahead	68.3	26.9	18
3/3	A41 Ahead	68.3	26.9	18
4/1	Circulatory Carriageway conflict with A41 Right Ahead	40.5	14.3	5
4/2	Circulatory Carriageway conflict with A41 Right	71.9	1.2	1
4/3	Circulatory Carriageway conflict with A41 Right	74.0	1.2	1
5/1	M40 S Left	77.1	70.6	9
5/2+5/3	M40 S Ahead	71.8	58.1	7
6/1	Circulatory Carriageway conflict with M40 S Ahead	61.7	4.7	8
6/2	Circulatory Carriageway conflict with M40 S Ahead	81.8	5.2	23
6/3	Circulatory Carriageway conflict with M40 S Right Ahead	73.9	3.9	21
7/1	A34 Left	94.7	37.0	42
7/2	A34 Left	94.7	37.0	42
7/3	A34 Ahead	57.8	11.8	12
7/4	A34 Ahead	54.2	11.2	11
8/1	Circulatory Carriageway conflict with A34 Ahead	94.0	84.7	16
8/2	Circulatory Carriageway conflict with A34 Right Ahead	81.9	22.1	9
8/3	Circulatory Carriageway conflict with A34 Right	50.5	9.8	6

#### Table 11.7 Junction 2 - J9, M40 2031 Baseline + Development PM Peak with Phase 2 Scheme

Total PRC = -5.2 Total Delay = 97.01

11.3.7 The results clearly show that the Phase 2 scheme is unlikely to be sufficient to provide a long term solution up to the end of the plan period, and cannot accommodate the future baseline traffic in the AM peak period. A longer term scheme is therefore required and further discussion will be undertaken with the HA and OCC.



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#### Junction 3 - A41/SW Perimeter Road Roundabout

11.3.8 This is the main junction into the SW Bicester Development. The modelled results are summarised in Tables 11.8 and 11.9, which show that junction operates the same or with a slightly better capacity results in the 'with development' scenario. As such no changes to the roundabout are required in the future scenario with (or without) the development.

•	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
A41 (N)	0.715	3	0.08	0.605	2	0.06
Services	0.759	3	0.20	0.149	0	0.07
A41 (S)	0.623	2	0.06	0.647	2	0.05
Site Access	1.057	32	0.83	0.828	4	0.23
Ave Delay Per Vehicle			0.23			0.09

#### Table 11.8 Junction 3 - A41/SW Perimeter Road Roundabout - 2031 Base

Table 11.9	Junction 3 - A41/SW	Perimeter Road Roundabout	- 2031 Base + Development
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•	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
A41 (N)	0.706	2	0.08	0.616	2	0.06
Services	0.795	4	0.22	0.189	0	0.08
A41 (S)	0.615	2	0.05	0.713	3	0.06
Site Access	1.036	26	0.71	0.807	4	0.22
Ave Delay Per Vehicle			0.21			0.09

#### Junctions 4 & 5 - Linked Signal junctions for access to SW Bicester and Bicester **Business Park**

Junctions 4 and 5 are access junctions for the SW Bicester and Bicester Business Park 11.3.9 developments respectively. As summarised in Tables 11.10 and 11.11, the junctions operate the same or with a slightly worse capacity results in the with development scenario. Irrespective of this, the junction is considered to be operating well within

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capacity in the 2031 without and with development scenarios with no arms showing a degree of saturation of more than 85%. As such, no changes to the junction layouts are required.

#### Table 11.10 Junctions 4 & 5 - Linked Signal junctions for access to SW Bicester and Bicester Business Park - 2031 Base

Link	Link Description	AM Peak (08:00-09:00)		PM Peak (17:00-18:00)	
		Degree of Saturation (%)	Queue	Degree of Saturation (%)	Queue
11	A41 North Entry Lane 1	66	15	58	12
12	A41 North Entry Lane 2	66	15	58	12
13	Bicester Business Park Entry Lane 1	12	1	47	4
14	Bicester Business Park Entry Lane 2	2	0	2	0
15	Link Between Junctions (Northbound)	4	0	3	0
16	Link Between Junctions (Northbound)	71	16	65	13
21	Link Between Junctions (Southbound)	71	5	68	6
22	Link Between Junctions (Southbound)	53	1	46	1
23	A41 South Entry Lane 1	69	31	68	29
24	A41 South Entry Lane 2	1	0	1	0
25	SW Bicester Entry Lane 1	4	0	3	0
26	SW Bicester Entry Lane 2	79	6	75	6
30	Link Between A41 and Bicester Business Park	1	0	0	0
31	A41 North to Bicester Business Park	29	0	4	0

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Link	Link Description	AM Peak (08:00-09:00)		PM Peak (17:00-18:00)	
		Degree of Saturation (%)	Queue	Degree of Saturation (%)	Queue
11	A41 North Entry Lane 1	67	15	59	12
12	A41 North Entry Lane 2	67	15	59	12
13	Bicester Business Park Entry Lane 1	12	1	47	4
14	Bicester Business Park Entry Lane 2	2	0	2	0
15	Link Between Junctions (Northbound)	4	0	3	0
16	Link Between Junctions (Northbound)	71	16	68	13
21	Link Between Junctions (Southbound)	69	6	68	6
22	Link Between Junctions (Southbound)	54	1	46	1
23	A41 South Entry Lane 1	71	32	68	30
24	A41 South Entry Lane 2	1	0	1	0
25	SW Bicester Entry Lane 1	4	0	4	0
26	SW Bicester Entry Lane 2	81	7	83	7
30	Link Between A41 and Bicester Business Park	1	0	0	0
31	A41 North to Bicester Business Park	29	0	4	0

# Table 11.11 Junctions 4 & 5 - Linked Signal junctions for access to SW Bicester and Bicester Business Park - 2031 Base + Development

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#### Junction 6 - A41/B4030 roundabout

11.3.10 This junction is the main A41 access into Bicester (the 'Esso roundabout') AMEC's assessment using the traffic data from the Bicester SATURN Model runs has indicated that the junction is above capacity in the without development scenario in 2031 and that the junction operation is only slightly worse in the with development scenario, as shown in Tables 11.12 and 11.13.

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#### Table 11.12 Junction 6 - A41/B4030 roundabout - 2031 Base

	AM	Peak (08:00-0	09:00)	PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B4030 Oxford Road	1.029	33	0.55	0.742	3	0.14
A41 Boundary Way	0.606	2	0.17	0.828	4	0.26
A41 Oxford Road	0.837	5	0.09	0.884	7	0.12
PFS Access	0.431	1	0.10	0.581	1	0.14
Ave Delay Per Vehicle			0.24			0.15

#### Table 11.13 Junction 6 - A41/B4030 roundabout - 2031 Base + Development

	AM	Peak (08:00-0	09:00)	PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B4030 Oxford Road	1.104	67	1.11	0.851	5	0.19
A41 Boundary Way	0.773	3	0.26	0.876	6	0.31
A41 Oxford Road	0.887	7	0.12	0.907	9	0.13
PFS Access	0.492	1	0.12	0.618	2	0.16
Ave Delay Per Vehicle			0.44			0.18

11.3.11 A nil detriment scheme has therefore been identified, which is presented in Section 11.4.

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#### Junction 7 - B4030/Pingle Drive

11.3.12 This is the access junction to the Bicester Village Shopping Centre. The results summarised in Tables 11.14 and 11.15 indicate a slight worsening of the junction operation in the with development scenario, but the junction is still well within capacity, therefore no mitigation is required.

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
Oxford Road (N)	0.553	1	0.05	0.417	1	0.04
Pingle Drive	0.190	0	0.06	0.289	0	0.05
Oxford Road (S)	0.426	1	0.04	0.440	1	0.04
Ave Delay Per Vehicle			0.05			0.04

#### Table 11.14 Junction 7 - B4030/Pingle Drive - 2031 Base

#### Table 11.15 Junction 7 - B4030/Pingle Drive - 2031 Baseline + Development

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
Oxford Road (N)	0.591	1	0.06	0.464	1	0.04
Pingle Drive	0.218	0	0.07	0.303	0	0.05
Oxford Road (S)	0.490	1	0.04	0.472	1	0.04
Ave Delay Per Vehicle			0.05			0.05

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#### Junction 8 - B4030/Middleton Stoney Road

11.3.13 This junction when assessed indicated a worse operation of the junction in the with development scenario, as summarised in Tables 11.16 and 11.17.

	AM F	Peak (08:00-0	9:00)	PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
King's End	1.413	201	8.00	1.298	146	5.45
Oxford Road	0.710	3	0.14	0.961	14	0.39
Middleton Stoney Road	1.261	116	3.79	1.153	59	1.84
Ave Delay Per Vehicle			4.17			2.55

#### Table 11.16 Junction 8 - B4030/Middleton Stoney Road - 2031 Base

#### Table 11.17 Junction 8 - B4030/Middleton Stoney Road - 2031 Baseline + Development

	AM F	Peak (08:00-0	9:00)	PM Peak (17:00-18:00)			
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
King's End	1.416	199	8.16	1.344	169	6.53	
Oxford Road	0.787	4	0.18	1.021	30	0.66	
Middleton Stoney Road	1.285	125	4.18	1.260	90	3.65	
Ave Delay Per Vehicle			4.20			3.47	

11.3.14 A nil detriment mitigation scheme has therefore been identified and is presented in Section 11.4.

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#### Junction 9 - A41/Gravenhill Road/B4100/A4421

11.3.15 This is the main site access junction and it has capacity issues in the baseline situation, as summarised in Table 11.18 which shows queues on the A41 in both directions, but particularly the A41 West.

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	AM	Peak (08:00	-09:00)	PM Peak (17:00-18:00)			
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
B4100 London Road	0.705	2	0.15	0.704	2	0.15	
A4421	0.468	1	0.07	0.741	3	0.12	
A41 (East)	1.014	34	0.45	0.941	13	0.22	
Gravenhill Road North	0.232	0	0.13	0.608	2	0.22	
A41 (West)	1.131	103	1.68	1.153	109	1.87	
Ave Delay Per Vehicle			0.78			0.70	

#### Table 11.18 Junction 9 - A41/Gravenhill Road/B4100/A4421 - 2031 Base

11.3.16 In the with development scenario, the situation is exacerbated, as shown in Table 11.19.

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B4100 London Road	0.863	6	0.26	0.884	7	0.27
A4421	0.555	1	0.09	1.010	26	0.49
A41 (East)	1.032	43	0.56	1.176	130	2.23
Gravenhill Road North	1.480	112	5.48	0.778	3	0.32
A41 (West)	1.273	219	4.60	1.209	150	3.27
Ave Delay Per Vehicle			2.30			1.75

Table 11.19	Junction 9	- A41/Gravenhill	Road/B4100/A4421	- 2031	Baseline +	Develo	pment

11.3.17 Given the junction capacity issues and the need to improve the pedestrian environment, a new access scheme has been developed, which is presented in Section 11.4.

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#### Junction 10 - A4421/Peregrine Way Roundabout

11.3.18 This junction operates well within capacity in both the without and with development scenarios, as summarised in Tables 11.20 and 11.21, therefore no mitigation is required.

	АМ	Peak (08:00-0	9:00)	PM Peak (17:00-18:00)			
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
A4421 (E)	0.350	1	0.04	0.507	1	0.05	
A4421 (W)	0.546	1	0.05	0.493	1	0.04	
Peregrine Way	0.198	0	0.07	0.415	1	0.09	
Ave Delay Per V	'ehicle		0.05			0.05	

#### Table 11.20 Junction 10 - A4421/Peregrine Way Roundabout - 2031 Base

#### Table 11.21 Junction 10 - A4421/Peregrine Way Roundabout - 2031 Baseline + Development

	AM	Peak (08:00-0	9:00)	PM Peak (17:00-18:00)			
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
A4421 (E)	0.389	1	0.05	0.604	2	0.06	
A4421 (W)	0.608	2	0.05	0.488	1	0.04	
Peregrine Way	0.223	0	0.08	0.424	1	0.09	
Ave Delay Per Ve	ehicle		0.05			0.06	

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#### Junction 11 - A41/Pioneer Road

11.3.19 Junction modelling has been undertaken of the without and with development scenarios, showing that there are significant capacity issues with both, as summarised in Tables 11.22 and 11.23.

#### Table 11.22 Junction 11 - A41/Pioneer Road - 2031 Base

	AM	Peak (08:00-0	9:00)	PM Peak (17:00-18:00)			
Movement	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
B – AC	3.055	138	45.36	1.020	17	25.38	
C – AB	0.078	0	0.36	0.067	0	0.16	
Ave Delay Per Vel	nicle		1.59			0.13	
Arm A: A41 (S)							
Arm B: Pioneer	Road						

Arm C: A41 (N)

#### Table 11.23 Junction 11 - A41/Pioneer Road - 2031 Baseline + Development

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Movement	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B - AC	****	90	56.19	1.081	170	64.68
C - AB	0.710	2	0.41	0.250	0	0.20
Ave Delay Per Vehicle			0.90			1.76

Arm A: A41 (S)

Arm B: Pioneer Road

Arm C: A41 (N)

\*\*\*\*\* - Represents that the arm is so far over capacity PICADY is unable to present the RFC figure.

11.3.20 As part of the development proposals as the secondary site access, it is proposed to upgrade the junction, as presented in Section 11.4.

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#### Junction 12 - A41 Ploughley Road

11.3.21 As identified in Table 11.1, the net change in traffic generation as a result of the development proposals does not warrant this junction to be assessed.

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#### **Junction 13 - Ploughley Road/Palmer Avenue**

11.3.22 As identified in Table 11.1, the net change in traffic generation as a result of the development proposals does not warrant this junction to be assessed.

#### Junction 14 - Norris Road/Site Access

11.3.23 The junction operates well within capacity in both with and without development scenarios, as shown in Tables 11.24 and 11.25, and therefore no mitigation is required.

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Movement	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B – AC	0.067	0	0.31	0.114	0	0.24
C – AB	0.245	0	0.15	0.160	0	0.14
Ave Delay Per Vehicle			0.04			0.01

#### Table 11.24 Norris Road/Site Access - 2031 Baseline

Arm A: Norris Road (S)

Arm B: Site Access

Arm C: Norris Road (N)

#### Table 11.25 Norris Road/Site Access - 2031 Baseline + Development

	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Movement	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B – AC	0.018	0	0.16	0.033	0	0.16
C – AB	0.065	0	0.22	0.000	0	0.00
Ave Delay Per Ve	ehicle		0.01			0.00
Arm A: Norris Road (S)						

Arm A: Norris Road (S)

Arm B: Site Access

Arm C: Norris Road (N)

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#### Junction 15 - Palmer Avenue/B4011

11.3.24 As identified in Table 11.1, the net change in traffic generation as a result of the development proposals does not warrant this junction to be assessed.

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#### Junction 16 - A41/B4011

11.3.25 As identified in Table 11.1, the net change in traffic generation as a result of the development proposals does not warrant this junction to be assessed.

## 11.4 Mitigation Schemes

- 11.4.1 The capacity analysis has identified the need for nil detriment mitigation at the following junctions:
  - Junction 2 J9 M40 further discussion on this will be undertaken with OCC and the HA;
  - Junction 6 A41/B4030 roundabout a nil detriment widening scheme has been produced;
  - Junction 8 B4030/Middleton Stoney Road roundabout a scheme has been identified which upgrades the mini roundabout to a 28m ICD roundabout;
  - Junction 9 A41/Gravenhill Road/B4100/A4421 roundabout it is proposed to widen and signalise the roundabout to both improve capacity and the pedestrian/cycle environment; and
  - Junction 11 A41/Pioneer Road it is proposed to upgrade the priority junction to a roundabout.
- 11.4.2 In addition a scheme has been identified to improve the capacity on the A41 between the A41/B4030 roundabout and the A41/Gravenhill Road/B4100/A4421 roundabout.
- 11.4.3 The mitigation schemes and junction assessments are presented in the following sections.

#### Junction 6 - A41/B4030 roundabout

11.4.4 A nil detriment mitigation scheme has therefore been identified as illustrated in Figure 11.1, although it should be noted that the scale of impact in the 'with development' scenario is shown to be marginal. The results of the mitigation scheme modelling are summarised in Table 11.26 and show that the junction would operate better than in the 'without development' scenario, indicating that the works would more than mitigate against the impact of the development proposals.







	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
B4030 Oxford Road	0.775	3	0.10	0.586	1	0.07
A41 Boundary Way	0.808	4	0.27	0.876	6	0.31
A41 Oxford Road	0.842	5	0.09	0.858	6	0.10
PFS Access	0.492	1	0.12	0.619	2	0.16
Ave Delay Per Vehicle			0.12			0.13

#### Table 11.26 Junction 6 - A41/B4030 roundabout - 2031 Base + Development with Mitigation Scheme

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#### Junction 8 - B4030/Middleton Stoney Road

A nil detriment mitigation scheme has been identified, as shown in Figure 11.2. The 11.4.5 existing junction layout is a mini roundabout so a standard roundabout scheme with a 28m ICD has been proposed as the mitigation. The results shown in Table 11.27 indicate that the proposed mitigation scheme would return the junction to better than nil detriment (2031 base) and at capacity.

Arms		AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)	
King's End	1.109	52	1.73	1.070	43	1.10	
Oxford Road	0.713	2	0.13	0.921	10	0.27	
Middleton Stoney Road	1.076	47	1.04	1.020	24	0.63	
Ave Delay Per Vehicle			0.98			0.65	

#### Table 11.27 Junction 8 - B4030/Middleton Stoney Road 2031 Baseline + Development with **Mitigation Scheme**

#### Junction 9 - A41/Gravenhill Road/B4100/A4421

11.4.6 The new access scheme incorporates a fully signalised roundabout with improved road geometries and pedestrian crossing facilities on all arms, as shown in Figure 11.3. As summarised in Tables 11.28 and 11.29, the junction improvement scheme means that the junction operates with capacity and facilitates pedestrian and cyclist movements across all arms.

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Link	Link Description	AM Peak (08:00-09:00)				
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue		
1/1	B4100 London Road Entry Left	61.7	32.6	4		
1/2	B4100 London Road Entry Ahead	51.2	28.2	4		
1/3	B4100 London Road Entry Ahead Right	54.5	29.0	4		
2/1	A4421 Entry Left Ahead	59.8	15.5	7		
2/2	A4421 Entry Ahead	63.7	16.0	8		
2/3	A4421 Entry Ahead Right	51.4	14.0	6		
3/1	A41 East Entry Left Ahead	52.8	27.7	4		
3/2	A41 East Entry Ahead	43.6	25.4	3		
3/3	A41 East Entry Ahead Right	42.3	25.2	3		
4/1	Site Access Entry Left Ahead	59.5	16.1	7		
4/2	Site Access Entry Ahead	58.3	15.6	7		
4/3	Site Access Entry Ahead Right	61.2	16.1	8		
5/1	A41 West Entry Left Ahead	67.6	34.1	5		
5/2	A41 West Entry Ahead	66.0	32.5	5		
5/3	A41 West Entry Ahead Right	46.9	27.4	3		
6/1	B4100 London Road Exit Ahead	62.7	6.0	3		
6/2	B4100 London Road Exit Ahead	46.9	4.6	4		
7/1	A4421 Exit Ahead	51.5	4.0	2		
7/2	A4421 Exit Ahead	63.8	7.6	6		
8/1	A41 East Exit Ahead	6.6	1.8	0		
8/2	A41 East Exit Ahead	9.8	1.8	0		
9/1	Site Access Exit Ahead	67.6	5.5	2		
9/2	Site Access Exit Ahead	58.0	5.8	5		
10/1	A41 West Exit Ahead	20.4	2.6	0		
10/2	A41 West Exit Ahead	16.8	2.4	0		
11/1	Circulatory Carriageway conflict with B4100 Ahead	42.4	3.7	4		
11/2	Circulatory Carriageway conflict with B4100 Ahead Right	60.7	5.4	7		
11/3	Circulatory Carriageway conflict with B4100 Right	20.4	3.8	0		
12/1	Circulatory Carriageway conflict with A4421 Ahead	11.3	8.6	0		

#### Table 11.28 Junction 9 - A41/Gravenhill Road/B4100/A4421 - 2031 Baseline + Development + Mitigation Scheme (Signal) - AM Peak

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Defence Infrastructure Organisation



Link	Link Description	AM Peak (08:00-09:00)			
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue	
12/2	Circulatory Carriageway conflict with A4421 Ahead Right	54.8	13.8	6	
12/3	Circulatory Carriageway conflict with A4421 Right	29.9	3.3	0	
13/1	Circulatory Carriageway conflict with A41 East Ahead	65.2	9.4	7	
13/2	Circulatory Carriageway conflict with A41 East Ahead Right	64.3	8.1	5	
13/3	Circulatory Carriageway conflict with A41 East Right	37.4	2.4	0	
14/1	Circulatory Carriageway conflict with Site Access Ahead	27.7	7.4	0	
14/2	Circulatory Carriageway conflict with Site Access Ahead Right	60.4	16.9	6	
14/3	Circulatory Carriageway conflict with Site Access Right	49.4	16.5	5	
15/1	Circulatory Carriageway conflict with A41 West Ahead	57.3	8.3	6	
15/2	Circulatory Carriageway conflict with A41 West Ahead Right	70.1	10.2	7	
15/3	Circulatory Carriageway conflict with A41 West Right	45.0	3.0	4	

Total PRC = 28.3 Total Delay = 57.20

#### Table 11.29 Junction 9 - A41/Gravenhill Road/B4100/A4421 - 2031 Baseline + Development + Mitigation Scheme (Signal) - PM Peak

Link	Link Description	PM Peak (17:00-18:00)			
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue	
1/1	B4100 London Road Entry Left	57.8	33.1	6	
1/2	B4100 London Road Entry Ahead	68.0	35.2	9	
1/3	B4100 London Road Entry Ahead Right	68.0	35.2	9	
2/1	A4421 Entry Left Ahead	64.5	26.4	9	
2/2	A4421 Entry Ahead	69.2	27.4	11	
2/3	A4421 Entry Ahead Right	68.7	27.5	11	
3/1	A41 East Entry Left Ahead	52.5	42.6	4	
3/2	A41 East Entry Ahead	23.4	36.2	2	
3/3	A41 East Entry Ahead Right	34.1	37.8	2	
4/1	Site Access Entry Left Ahead	62.1	26.4	9	

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Link	Link Description	PM Peak (17:00-18:00)			
		Degree of Saturation (%)	Average Delay (sec/pcu)	Mean Max Queue	
4/2	Site Access Entry Ahead	71.2	28.7	12	
4/3	Site Access Entry Ahead Right	71.2	28.7	12	
5/1	A41 West Entry Left Ahead	59.2	36.3	6	
5/2	A41 West Entry Ahead	53.5	34.2	6	
5/3	A41 West Entry Ahead Right	49.8	33.4	5	
6/1	B4100 London Road Exit Ahead	47.2	3.5	4	
6/2	B4100 London Road Exit Ahead	24.1	4.2	3	
7/1	A4421 Exit Ahead	58.7	4.5	5	
7/2	A4421 Exit Ahead	48.8	3.8	7	
8/1	A41 East Exit Ahead	17.6	1.8	1	
8/2	A41 East Exit Ahead	15.3	1.6	1	
9/1	Site Access Exit Ahead	56.3	3.5	2	
9/2	Site Access Exit Ahead	44.2	5.9	8	
10/1	A41 West Exit Ahead	13.6	1.6	0	
10/2	A41 West Exit Ahead	19.6	1.6	0	
11/1	Circulatory Carriageway conflict with B4100 Ahead	60.3	6.6	10	
11/2	Circulatory Carriageway conflict with B4100 Ahead Right	58.7	7.9	8	
11/3	Circulatory Carriageway conflict with B4100 Right	29.6	10.2	6	
12/1	Circulatory Carriageway conflict with A4421 Ahead	24.5	6.0	1	
12/2	Circulatory Carriageway conflict with A4421 Ahead Right	60.3	9.1	7	
12/3	Circulatory Carriageway conflict with A4421 Right	37.4	2.8	5	
13/1	Circulatory Carriageway conflict with A41 East Ahead	56.0	4.3	5	
13/2	Circulatory Carriageway conflict with A41 East Ahead Right	53.2	5.4	8	
13/3	Circulatory Carriageway conflict with A41 East Right	42.4	4.5	4	
14/1	Circulatory Carriageway conflict with Site Access Ahead	19.3	5.5	2	
14/2	Circulatory Carriageway conflict with Site Access Ahead Right	49.8	8.1	7	
14/3	Circulatory Carriageway conflict with Site Access Right	33.6	6.0	5	
15/1	Circulatory Carriageway conflict with A41 West Ahead	51.0	6.3	3	
15/2	Circulatory Carriageway conflict with A41 West Ahead Right	62.6	5.1	8	
15/3	Circulatory Carriageway conflict with A41 West Right	45.5	4.4	7	

Total PRC = 26.4 Total Delay = 65.95

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### Junction 11 - A41/Pioneer Road

11.4.7 It is proposed to upgrade the junction from a ghost island priority to a three arm roundabout, as shown in Figure 11.4. The modelling results shown in Table 11.30 indicate that the junction proposals would operate with ample capacity.

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	AM Peak (08:00-09:00)			PM Peak (17:00-18:00)		
Arms	RFC	Queue	Delay (mins/veh)	RFC	Queue	Delay (mins/veh)
A41 (N)	0.745	3	0.09	0.834	5	0.12
A41 (S)	0.840	5	0.12	0.806	4	0.10
Pioneer Road	0.159	0	0.09	0.321	0	0.11
Ave Delay Per Veh	nicle		0.11			0.11

Table 11.30	Junction 11 - A41/Pioneer Road - 2031 Baseline + Development with Mitigation
	Scheme

### A41 Partial Dualling

- 11.4.8 A partial dualling scheme is proposed, as shown in Drawing 27808-CVD-276, which is accommodated within the existing carriageway width, with two lanes at each end on the approaches to the roundabouts. The non-conflicting changeover is positioned around the narrowest section of road across the rail bridge.
- 11.4.9 It is proposed that this section of the A41 is reduced to a 40mph speed limit, which is consistent with the section of the A41 dual carriageway in the vicinity of the South West Bicester and the Bicester Business Park developments. This will also facilitate the provision of a toucan crossing across the A41. The speed limit reduction has been discussed with OCC and has been agreed in principle.

#### 11.5 Summary

- 11.5.1 The assessment has found capacity issues at Junction 9 of the M40 with the Phase 2 improvement scheme in place in the 2031 without development scenario. It is concluded that further discussion is required with the highway authorities to identify a longer term scheme to enable the planned growth at Bicester to come forward.
- 11.5.2 Junction mitigation schemes have been identified at four junctions:
  - Junction 6 A41/B4030 roundabout a widening scheme has been produced as shown in Figure 11.1.
  - Junction 8 B4030/Middleton Stoney Road roundabout it is proposed to upgrade ٠ the mini roundabout to a 28m ICD roundabout, as shown in Figure 11.2;

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- Junction 9 A41/Gravenhill Road/B4100/A4421 roundabout it is proposed to • widen and signalise the roundabout to both improve capacity and the pedestrian/ cycle environment, as shown in Figure 11.3; and
- Junction 11 A41/Pioneer Road it is proposed to upgrade the priority junction to a • roundabout, as shown in Figure 11.4.
- 11.5.3 A partial dualling scheme on the A41 between the A41/B4030 roundabout and the A41/Gravenhill Road/B4100/A4421 roundabout has been identified which uses the existing carriageway space. It is proposed that the route section is reduced to 40mph limit which will also facilitate the provision of a toucan crossing, as outlined in Chapter 6.

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Proposed Scheme          Image: mail of the second	 Key
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0 m       30 m         Scale 1.500 @ A3         Defence Infrastructure Organisation         Redevelopment of MOD Bicester Transport Assessment         Figure 11.2 King's End/Oxford Road/Middleton Stoney Road - Mitigation Scheme         September 2011 27008-L388.dwg yadap	
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Redevelopment of MOD Bicester Transport Assessment Figure 11.2 King's End/Oxford Road/Middleton Stoney Road - Mitigation Scheme	Infrastructure Organisation
Figure 11.2 King's End/Oxford Road/Middleton Stoney Road - Mitigation Scheme September 2011 27608-L388.dwg yadap	Redevelopment of MOD Bicester Transport Assessment
September 2011 27808-L388.dwg yadap	Figure 11.2 King's End/Oxford Road/Middleton Stoney Road - Mitigation Scheme
	September 2011 27808-L388.dwg yadap



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///	A41/Gravenhill Road/B4100 - Mitigation Scheme (signal)	
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# **12. Summary and Conclusions**

## 12.1 Introduction

12.1.1 The aim of the TA is to assess and demonstrate that the development proposals can be accommodated within the existing transport network in accordance with the guidance set out in the DfT GTA. Where this can not be achieved, deliverable solutions to appropriately mitigate the impact of the development have been identified.

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12.1.2 This chapter summaries these proposals in terms of both highway and sustainable travel mitigation proposals

# **12.2 Summary of Proposals**

### **Highway Mitigation Proposals**

- 12.2.1 It would be proposed to provide at the following locations junction enhancements that would not only mitigate the impact of the increase in traffic at that location, but by there form in nature seek to improve both safety and accessibility for the local communities they serve:
  - Junction 6 A41/B4030 roundabout a widening scheme has been produced;
  - Junction 8 B4030/Middleton Stoney Road roundabout it is proposed to upgrade the mini roundabout to a 28m ICD roundabout;
  - Junction 9 A41/Gravenhill Road/B4100/A4421 roundabout it is proposed to widen and signalise the roundabout to both improve capacity and the pedestrian/ cycle environment; and
  - Junction 11 A41/Pioneer Road it is proposed to upgrade the priority junction to a roundabout.
- 12.2.2 The assessment has found capacity issues at Junction 9 of the M40 with the Phase 2 improvement scheme in place in the 2031 without development scenario. It is concluded that further discussion is required with the highway authorities to identify a longer term scheme to enable the planned growth at Bicester to come forward.
- 12.2.3 A partial dualling scheme on the A41 between the A41/B4030 roundabout and the A41/Gravenhill Road/B4100/A4421 roundabout has also been identified which uses the existing carriageway space but provides two lanes on the approaches to the respective roundabouts. It is proposed that the speed limit on the route is reduced to 40mph.

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#### Sustainable Transport Proposals

12.2.4 Sustainable transport has been identified as a key element to the delivery of the proposals. The following provides a brief summary of the proposals.

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12.2.5 All of the provision of improvements and services will be supported through information and promotion campaigns that would seek to encourage their use.

#### Bus

- 12.2.6 The following is proposed in terms of improved bus accessibility:
  - provision of a 15-20 minute frequency RTI bus service between the Graven Hill Site and Bicester town centre and rail stations;
  - potential for the diversion of the S5 into the Graven Hill Site; and
  - provision of high quality DDA compliant RTI bus facilities within and adjacent to the Graven Hill Site.

#### Cycle

- 12.2.7 Provision of a high quality cycle network within the site to provide predominately segregated cycle access to all key destinations within the site.
- 12.2.8 Improved cycle accessibility across the A41 through the signalisation of the A41/B4030/A4421/Graven Hill North Road roundabout and crossings on all arms, the provision of a toucan crossing across the A41 and enhancement of the existing underpass under the A41.

#### Pedestrian

- 12.2.9 Provision of a high quality pedestrian network within the site to provide easy, safe access to all key destinations within the site over acceptable walking distances.
- 12.2.10 Improved cycle accessibility across the A41 through the signalisation of the A41/B4030/A4421/Graven Hill North Road roundabout and crossings on all arms, the provision of a toucan crossing across the A41 and enhancement of the existing underpass under the A41.

## 12.3 Conclusions

12.3.1 Through provision of the mitigation scheme proposals, that have been highlighted throughout this report and supported by the accompanying TP, it is considered that not only will the proposals mitigate the impacts of the development on the local highway network, but will also improve travel and transport options throughout the area by providing a high quality sustainable transport network to the benefit of all.







# Appendix A Minutes of Meetings with Oxfordshire County Council

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Client	Defence Estates	<b>Client Reference</b>	
Our Reference	27808	Issued By	Bev Coupe
Issue Number		Issue Date	22 <sup>nd</sup> March 2011
Meeting Date	11 <sup>th</sup> March 2011	Location	Rooms 2 b & c, Speedwell House, Oxfordshire County Council, Oxford
<b>Present at Meeting</b> (Distribution Copies)	Melissa Goodacre}Joanne Fellows}David Taylor}Linda Currie}Adrian Saunders}Daniel Round}Bev Coupe, Entec	Oxfordshire County Co	ouncil
<b>Apologies for Absence</b> (Distribution Copies)			
Additional Distribution (Distribution Copies)	Philippa Carr & Ellen O'C Entec Project Team	Grady, DE	
Project Name	Bicester Future Defence S	Storage and Distribution	Programme
Subject	GRAVEN HILL (MOD WORKSTREAM	BICESTER) TRANSI	PORT

Actions

#### 1

#### 2 **Summary of the Graven Hill site and development proposals** BC summarised the proposals for the benefit of those who hadn't previously attended a meeting relating to the site or attended the exhibition held in September.

There followed discussion on the development proposals.

### C Site

It was identified by OCC that a Travel Plan for the site would need to be produced and advised that a travel survey of existing staff should be undertaken in order to understand travel patterns and implications of relocation of activities, and also to help inform the bus strategy for the site and links to Graven Hill site and beyond.

Concern was highlighted regarding the redirecting of HGV to C



#### GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM

#### Actions

Site and the impact on the villages of Ambrosden and Arncott. The importance of HGV routeing along the B4011, thereby avoiding Ambrosden was identified.

As the bus stop is not within easy walking distance for the whole site, there was some discussion on the potential for a minibus to circulate the site in order to achieve bus service accessibility for all of C Site. There are cost implications to this, which would need to be justified by the potential level of take-up of such a service.

BC advised that the Bicester International Freight Terminal (BIFT), the inter-modal (road/rail) container transport unit transhipment site would be relocated to C Site and confirmed that the rail freight line to C Site (via the northern and western boundaries of the Graven Hill site) will be retained. The condition of the track is being assessed.

#### **Graven Hill**

#### Rail Freight Line

It is proposed to retain the rail sidings in the southern section of the side to serve the B8 development. The rest of the rail line around the site will be dismantled.

#### South East Perimeter Road

BC advised that a south east perimeter road option was being explored which would route through the southern section of the site and use the Langford Lane realignment making use of the new bridge provided by Chiltern Railways as part of the Evergreen 3 proposals. One of the key constraints is the bridge width of 5.5m and a meeting has been set up with Chiltern Railways and OCC to discuss the opportunity to influence the design given the constraints of the construction programme, due to commence later this year. BC advised that a meeting was also taking place the following week with DfT, Network Rail, OCC and Chiltern Railways to discuss the opportunities presented by strategic rail improvements (Evergreen 3 and East West Rail).

Regarding a possible alignment of the route, DR advised that consideration should be given of a straight alignment from the proposed southern employment section across third party land to the new bridge. This would be eliminate the 'dogleg' route through the site along the western boundary and then the Langford Lane realignment section alongside the scheduled ancient monument. BC identified that the third party land constraints



#### **GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM**

#### Actions

would require it to be an OCC highway authority led scheme.

DR identified that it would be preferable not to have a further roundabout on the A41 and suggested an alternative arrangement with a slip road off the northbound A41 and a bridge across the A41. This would have substantial cost implications.

It was recognised that the provision of the south east perimeter road provides the opportunity to downgrade the existing A41.

#### Pedestrian Underpass

TF expressed concern with the pedestrian underpass if this was the only pedestrian link and the Carterton underpass was mentioned, which is being filled in and an at grade crossing provided. It was suggested that Roger Hampshire of Oxfordshire Police should be contacted regarding any issues with the underpass.

#### Public Rights of Way

It was suggested that there should be a check for any PRoW that have been severed due to the development of the site.

#### Monorail

It was agreed that the scale of cost and take-up would make a monorail system unviable.

#### **Bus Strategy**

The Kingsmere development provides an example of the required level of service. DT suggested that it would be advisable to speak to the bus operator early in the process in order to identify an effective bus strategy and offered to arrange a meeting (*post meeting note* – taking place on  $30^{\text{th}}$  March)

DT/BC

#### Eco Bicester

It was noted that the development proposals would need to be compliant with the strategy set out in the document "Eco Bicester – One Shared Vision" which has been endorsed by the town, district and county councils.

#### Discussion on Transport Assessment

- MD advised that the Transport Strategy contributions are based the on maximum trip generated by a development
- Revised parking standards are not yet publicly available, but MD/MG will try and provide. Assume 1 space on plot and 1 space off plot – refer to recent agreements for the NW Bicester
   MD/MG



#### GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM

		Actions
	Eco Town. Zoning the parking standards should be	
	considered, e.g. car free/minimum parking at the centre of the	MD
	development, increasing further from the centre.	
•	MD will provide an indication of the TA study area.	MD
•	MD will provide the latest guidance on street hierarchy.	
•	MD and MG to provide information on traffic data availability.	MD/MG
•	BC confirmed that it was still the intention to use the Bicester	
	Model.	
•	MG advised that Eco town modeling work was still being	
	undertaken. There is no indication from Cherwell DC when	

the Core Strategy will be progressed.



Client	Defence Estates	Client Reference	
Our Reference	27808	Issued By	Bev Coupe
Issue Number		Issue Date	12 <sup>th</sup> April 2011
Meeting Date	30 <sup>th</sup> March 2011	Location	Speedwell House, Oxfordshire County Council, Oxford
<b>Present at Meeting</b> (Distribution Copies)	Martin Sutton, Stagecoach David Taylor, Oxfordshire Cou Bev Coupe, Entec	nty Council	
Apologies for Absence (Distribution Copies)			
Additional Distribution (Distribution Copies)			
Project Name	Bicester Future Defence Storag	e and Distribution	Programme
Subject	GRAVEN HILL (MOD BICE WORKSTREAM – BUS STR	CSTER) TRANSI ATEGY	PORT

Actions

#### 1 Existing bus provision

Stagecoach S5 service was discussed: this is the only service that routes past the site.

This is a real time information (RTI) service and has three routes through Bicester, all of which travel to Oxford. Double decker buses are run and the service is a very popular means of travel to Oxford, however, there is limited take-up on the route through to Arncott and Bullingdon Prison, which is the service that routes past C Site and Graven Hill. There was discussion on the feasibility of routeing the service through the Graven Hill site; MS identified tight timetable constraints and concerns about the commercial viability of the route.

#### 2 Graven Hill site

It was identified that a bus journey around the site is approximately 3km and would take about 6 minutes to route around.

For the employment use, journeys to work would be concentrated around the peak AM, PM and possibly lunch time periods.



#### **GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM – BUS STRATEGY**

#### Actions

Therefore, it would not be worthwhile routeing a high frequency service around the site throughout the day. Milton Park, near Didcot, Oxfordshire was cited as a comparable working example.

For the residential use, services should run from 0700 to 1900, every 15 minutes, routeing to the employment area during the peak periods.

The bus provision potential could be:

- Shorter term link into Bicester
- Longer term link to Bicester and onto Oxford

#### 3 **Bus provision costs**

Bus provision would need to be pump primed for the build out period. BC asked about bus service costs. MS provided the following 'ball park' costs:

- minibus  $\pounds 150 160$ k p.a.;
- full bus £210k p.a.; and
- double decker £270k.

MS advised that the fare receipts can be offset against the cost of service provision. In order to make a service commercial, an average of  $\pounds 40$  per hour fare revenue is required for a small bus. Assuming an average fare of  $\pounds 1.80$ , this equates to an average of 22 passengers per hour.

RTI costs approximately £2.5k per bus. In addition, would need to be provided at bus stops.

#### 4 **Bus service provision – Graven Hill and C Site**

It was recognised that the site is not adjacent to any strong existing routes (by comparison, the Kingsmere development benefits from the S5 routeing past it and diversions into that site are feasible, whereas the eco town development site has no existing services) and it will take a long time to recover costs.

It was emphasised that whilst the ideal is that the whole site benefits from a high frequency service, it is more important to provide and develop a service that is commercially viable. The following are considerations for a bus strategy:

- Residential uses high frequency provision throughout the day
- Employment uses peak time provision
- Neighbourhood centre opportunity for diversion of existing services into this area road network needs to be able to

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#### **GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM – BUS STRATEGY**

#### Actions

support this.

It was concluded that the following would form the basis for a bus strategy for further investigation:

- New bus service to Bicester
- Diversion of S5 into northern part of the site (neighbourhood centre and high density/affordable housing), providing a link between the site and C Site, also strategic routeing to Oxford.

MS and DT offered to discuss this further and provide some ideas MS/DT on a workable bus strategy for the Graven Hill site in particular, and also C Site.



Client	Defence Infrastructure Organisation	Client Reference	
Our Reference	27808	Issued By	Bev Coupe
Issue Number		Issue Date	
Meeting Date	21 <sup>st</sup> April 2011	Location	County Hall, Oxfordshire County Council, Oxford
<b>Present at Meeting</b> (Distribution Copies)	Michael Deadman, OCC Jacqui Cox, OCC, Jayme Radford, OCC Aaran Wisdom, OCC Bev Coupe, Entec		
Apologies for Absence (Distribution Copies)			
Additional Distribution (Distribution Copies)			
Project Name	Bicester Future Defence Storag	e and Distribution	Programme
Subject	GRAVEN HILL (MOD BICE WORKSTREAM – TRAVEL	CSTER) TRANSI 2 PLAN AND TR	PORT AFFIC MODELLING

#### Actions

#### 1 Travel Plan

It was recognised that the modal share targets for the Graven Hill development cannot be the same targets as eco town as the latter are dictated by the need to comply with PPS1. However, OCC did identify that targets do need to be higher than existing. It was acknowledged that there are good opportunities for sustainable travel, given the location of the site and proximity to the town and the mixed use proposals.

Measures such as car clubs, whilst should be considered, OCC has a neutral view on the potential and based on feedback from the operators, e.g. Streetcar, the only commercially viable location is in a large town or city, particularly where parking is restricted and where car ownership is limited, and there is critical mass to create demand, such as Oxford. It was noted that the North West Bicester development has included a car club scheme.

Cycle hire was discussed. Again OCC has a pragmatic view and considers that such a scheme is not necessarily a realistic option, although this could be explored further.



## GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM – TRAVEL PLAN AND TRAFFIC MODELLING

Regular monitoring of the Travel Plan targets would be a requirement of a S106 Agreement comprising travel diaries, passenger counts, etc to be undertaken every two years. OCC is drawing up a 'contributions' schedule for NW Bicester – these will be contributions to increase sustainable travel targets triggered by traffic generations above the agreed threshold (viewed positively as incentives to achieve targets). Triggers have been identified which MD will provide. It was noted that permanent counters at the accesses would enable constant monitoring. The Exemplar Site will be required to undertake monitoring to the end of the LTP3 period. OCC will charge a monitoring fee of £900 for 150 dwellings +.

In relation to bus provision at the Graven Hill development, it was recognised that bus frequencies would need to be every 15 minutes and link the site to the town and train stations. A minibus would be appropriate during the initial stages of occupancy, upgrading to a larger bus as the development builds out. The service would need to link with train times. It was acknowledged by OCC that the employment area doesn't need a frequent service all day and that service times can be restricted to peak periods and lunchtime.

MD pointed out there is no public funding available to subsidise buses, but it was recognised that a development cannot be expected to fund a service indefinitely, the aspiration being that it becomes commercially viable within a reasonable timeframe. MD volunteered to talk to David Taylor regarding heads of terms for the S106 with respect to bus funding contributions. It was identified that there would need to be a bond in place up front from the developer to ensure that the provision is made.

There is no expectation for a hybrid bus to be provided, although this should be a long term aspiration. Oxford has got Green Bus Central Government funding for which the bus operators apply.

It was noted that the consultants for the Exemplar Site have been talking to the main operators in the area, including Heyfordian and Greyline.

It was acknowledged that there may be opportunity to link a bus service between the two sites (NW Bicester and Graven Hill).

Other site measures should include a travel vouchers to spend on rail, bus or a bike.

It was noted that the SW Bicester development has produced a residents' travel information pack – JR will provide examples of this. It was also noted that the Travel Plan steering group for the SW Bicester development meets every three months, and is a good example of an implementation process.

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#### Actions

MD

JR

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Page 3

#### GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM – TRAVEL PLAN AND TRAFFIC MODELLING

#### Actions Modelling Distribution data - JC advised that distribution in COTM is out of date and is about to be updated. JC to check when this will happen and JC whether it is more appropriate to input traffic distribution. It was noted that Entec has already provided traffic distribution assumptions and MD requested that this be reviewed by MD. OCC JC advised that the 2007 hh diaries should be used as the update is not available. BC hasn't access to the information requested information on the 2007 hh diaries. It was noted that the SW perimeter road/A41 roundabout is due to be JC completed later in 2011, and traffic counts cannot be undertaken until it is completed due to disturbance to the network. JC volunteered to provide information on ATC count locations in Bicester. It was noted that NW Bicester development is using the Saturn Model and has undertaken counts at J9 and J10 of M40. JC noted that the HA has a Linsig model for J9. OCC advised that there is an application with DfT for funding of the Phase 2 scheme at J9. if this is unsuccessful, likely to be seeking contributions from developers. OCC advised scheme costs to be in the region of $\pounds 3 - 4$ million. Actions Entec will be finalising traffic generation assumptions for review 0 and agreement by OCC in preparation for Saturn modelling to be undertaken: Entec will be providing Framework Travel Plans for review by OCC; MD to provide information on traffic generation thresholds and 0 contributions trigger and scale of contribution; MD to provide information on S106 heads of terms in relation to bus 0 provision/contributions; JR to provide information on Travel Plans and examples of SW 0 Bicester Residents' Travel Packs; JC to check and advise on validity of COTM traffic distributions; 0 MD to review Entec traffic distribution included within original 0 scoping note;

o JC to provide information on traffic data available, including

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# GRAVEN HILL (MOD BICESTER) TRANSPORT WORKSTREAM – TRAVEL PLAN AND TRAFFIC MODELLING

permanent ATCs, manual counts, etc.

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Actions

Client			Defence Infrastructure Organisation	Client Reference	
Our R	efere	nce	27808-11	Issued By	Bev Coupe
Issue I	Numb	er		Issue Date	28 <sup>th</sup> June 2011
Meetii	ng Da	te	27 <sup>th</sup> June 2011	Location	Room 3, Speedwell House, Oxfordshire County Council, Oxford
<b>Preser</b> (Distri	nt at N butior	<b>Meeting</b> 1 Copies)	Michael Deadman (MD), OCC Jacqui Cox (JC), OCC, Jayme Radford (JR), OCC Aron Wisdom (AW), OCC Bev Coupe (BC), Entec		
<b>Apolo</b> (Distri	<b>gies f</b> butior	or Absence n Copies)			
<b>Additi Distril</b> (Distri	i <b>onal</b> b <b>utio</b> i butioi	<b>1</b> 1 Copies)			
Projec	et Nar	ne	Redevelopment of MOD Bices	ter	
Subjeo	ct		TRANSPORT WORKSTRE	AM – UPDATE	
					Actions
1	<b>Pre</b> BC	evious Min went throug	nutes of Meeting and Outsta gh outstanding actions from the	<b>nding Actions</b> 21 <sup>st</sup> April 2011 me	eeting:
	0	MD to prov	vide information on traffic gener ns trigger and scale of contributi	ation thresholds a	nd
		- MD advis in discussio site entrance latest draft regarding the discussion. slipped and likely to be	ed that draft heads of terms for to on. Monitoring will be based on ces and travel diaries. MD will f to BC. It was noted that DIO ha he S106 and that transport wasn It was also noted that the NW I the Masterplan is no longer ant submitted in the Autumn, possi	the Exemplar Site permanent ATCs forward a copy of as met with Linda it included in the Eco-town program icipated in August bly later.	are still on the the Currie MD nme has t, more
	0	MD to prov provision/c	vide information on S106 heads ontributions:	of terms in relatio	n to bus
		- BC outlin costings a f is anticipate that would	ed the bus service proposals and five year full contribution had be ed that during this period, fare re offset the cost. MD advised tha	l that in the viabili een assumed, althc eceipts would be r t a bond would ne	ty bugh it eceived ed to be

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#### TRANSPORT WORKSTREAM – UPDATE

		Actions
	in place upfront to ensure that the funding was made available. It was identified that there may need to be a separate meeting on this. MD will speak with David Taylor.	MD
0	JR to provide information on Travel Plans and examples of SW Bicester Residents' Travel Packs:	
	- JR has sent information on the Travel Plans to Michelle Thurgood, AMEC (formally Entec), and will forward the residents' travel pack.	JR
0	JC to check and advise on validity of COTM traffic distributions:	
	- JC confirmed that the old COTM is out of date and it is planned to update the model, however this is not within the time frames of the Graven Hill/C Site planning application. Therefore it was identified that the AMEC distributions should be applied. It was noted that these have been based on the SW Bicester distributions. JC is attending a meeting on Wednesday regarding the COTM and will know more about the update schedule following this.	
0	MD to review Entec traffic distribution.	MD
0	JC to provide information on traffic data available, including permanent ATCs, manual counts, etc.	JC
Fe	edback from Recent Consultation Event	
BC 11 <sup>t</sup> fro wh inc MC	C reported on the DIO three day consultation event from 9 <sup>th</sup> June to <sup>h</sup> June, which included a presentation to local councillors and officers m OCC and CDC, followed by a manned exhibition, two days of ich were in Bicester and the final day in Arncott. The presentation cluded an outline of the need for the proposals to go ahead to retain DD presence and jobs in the area. The main response was as follows:	
•	Traffic was raised as a key concern because of the problems on the A41 and at Junction 9 and it was felt that there wasn't a need for more housing.	
•	Ambrosden residents had issues with the volume of traffic routeing through the village, particularly HGV traffic, and also problems with turning into and out of Ploughley Road at the A41 junction.	
•	Arncott residents had concerns regarding the existing HGV traffic routeing through the village and felt that this would be compounded, although it was emphasised that traffic wouldn't affect the village as it would route along Palmer Avenue onto the B4011.	

- Arncott residents also had concerns about noise from loading/unloading activities.
- The major issue for a number of Arncott residents was the height and location of the warehouse on C Site which at 19m at its highest would impact on those living along Green Lane, part of Norris Road

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#### Actions

and part of Ploughley Road.

• Wendlebury residents voiced concern over the potential use of the realigned Langford Lane and of the potential south east perimeter road.

#### Local road network improvements and J9 M40 Phase 2

A41 dualling - BC briefly went through options which were being considered. It was noted that whilst OCC has previously looked at this, it is unlikely that any scheme drawings were produced. The options include:

- Option 1 widen on north and south side this is the most expensive and has issues with land take on both sides.
- Option 2 widen on south side this has implications on the existing vegetation and third party land take.
- Option 3 widen on north side this would require retaining wall structures which make it more expensive than Option 2, and third party land take.
- Option 4 a new carriageway on land to the south this would require a lot of third party land and a new bridge, effectively similar to providing the perimeter road.
- Option 5 full use of existing carriageway with partial dualling for the directional traffic on the approach to the two roundabouts, similar to the A4260 in Banbury.

Option 5 is the preferred but would need to demonstrate acceptable levels of capacity. It was noted that the TA would need to demonstrate nil detriment impact and consideration would need to be given to the cumulative impact including the eco-town.

Esso roundabout improvements would include a left turn slip from the B4030. MD advised that yellow hatching had been introduced about 18 months ago to prevent queuing on the circulatory carriageway. Temporary signals were pulled very quickly as they caused problems.

A41/B4100/A4421/site access will include widening and signals for pedestrian access.

Pioneer Road/A41 – proposed roundabout which would also facilitate the perimeter road.

Ploughley Road – despite existing queuing issues, no improvements proposed as this may attract further traffic numbers. There was discussion on the potential to introduce a weight restriction on the road and for the traffic signs on the A41 to be changes. It was identified that a routeing agreement would be part of the S106. MD advised that the

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### new pedestrian crossing in Ambrosden was funded by MOD as part of S106 contributions. B4011/A41 junction – investigating opportunities to improve. MD

queried the condition of the Palmer Avenue/B4011 route and said that he would get someone to check this.

Perimeter road – there was discussion of this with the emphasis by BC that it would need to be OCC led due to the need for CPO of third party land (as discussed during a meeting with DIO and Daniel Round). The Langford Lane realignment presents the opportunity for the bridge and western section of the route to be in place. Discussions with Chiltern Railways have identified that future proofing the bridge through an additional beam as part of the construction is feasible within the T&WA application design. A bridge would be required across the MOD freight line and relocation of sidings to reduce it to one track to span. AW identified that he would speak to Daniel Round about this. BC requested feedback on the outcome of their discussions.

J9 M40 – AW advised that his report on S106 funding opportunities for the Phase 2 improvements has been completed. As the HA has no funding available, the report will go to the DfT in a bid to obtain funding upfront to be paid off by the S106 contributions. It was noted that the HA is imposing restrictive conditions on current planning permissions subject to the implementation of Phase 2.

#### 3 **Framework Travel Plans**

BC has submitted the Graven Hill FTP and advised that the C Site FTP would be submitted shortly once the recent travel survey results have been analysed and incorporated within the document.

JR has undertaken a brief review of the Graven Hill FTP and has comments that she will forward to Michelle Thurgood. There was discussion of the trigger point for monitoring, which for the Exemplar Site has been set at post 50 dwelling units, although it was noted that a monitoring report isn't required for two years following first occupation. It was recognised that there is some merit in proceeding with monitoring from the start of occupation to ensure that targets and traffic generation levels are within the specified threshold. JR also identified that there would be an expectation for monitoring to continue until five years after full completion of the development.

It was noted that CDC has recently produced an SPD for S106 Agreements, which doesn't complement the OCC approach. MD will send the link to BC.

JR advised that there wasn't a need to go into detail with regards to the primary school travel plan.

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JR

MD

Actions

AW

MD

It was noted that the secondary school on the SW Bicester site may be replaced by more housing. Linda Currie has more information on this.

#### 4 **TA Scope and Modelling**

BC briefly went through the scoping note which sets out the proposed approach to the TA.

There followed discussion on the modelling approach. COTM will be required to test the M40 junctions as this is supported by the HA.

The Graven Hill/C Site modelling will need to use the Saturn model as this has more detail for the Bicester area.

At the request of Daniel Round, JC is currently writing a brief for modelling work to be undertaken to test all proposed developments on the existing network with no improvements in place in order to clarify the situation regarding the network capacity and development impact.

It was identified that model runs of the eco-town undertaken last year would form the basis for the baseline scenario for the redevelopment of MOD Bicester testing as this is the most recent available. BC is having a meeting with Andrew Ball of Halcrow on Wednesday to discuss the testing and will report on the outcome of this.

It was agreed that it was appropriate to assume 2026 as the forecast year.

#### **Summary of Actions**

- MD to provide Exemplar Site draft S106 heads of terms as an example of what may be required.
- MD to speak to David Taylor regarding S106 heads of terms in relation to bus provision/contributions.
- JR to provide examples of SW Bicester Residents' Travel Packs.
- MD to review Entec traffic distribution.
- JC to provide information on traffic data available, including permanent ATCs, manual counts, etc.
- MD will request a brief survey of condition of Palmer Avenue and the B4011 to assess its suitability as an HGV route.
- AW to speak to Daniel Round about the opportunity to progress discussion on the south east perimeter road and will provide feedback on this.
- JR will provide comments on the Graven Hill FTP.
- $\circ~$  MD will send BC the link to the CDC S106 SPD.
- o BC will provide a summary of the model tests to be undertaken

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TRANSPORT WORKSTREAM – UPDATE

Actions

following her meeting with Andrew Ball of Halcrow.

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### Appendix B Existing Sites' Traffic Generation Surveys

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> Defence Infrastructure Organisation



September 2011

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September 2011





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02:15	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
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03:00	0	0	0	0	0	0	0	0		0	0	0	0 0	0	0	0		1	0	0	0	0	0	-	1
03:15	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
03:30 03:45	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0 0	0 0		0 0	0 0	~ ~		0 0	0 0	0 -	0 0	0 0	0 0	0 -	1
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	Car	Lgv	LVBV	Ogvz	VS4	MC	р Г	l otal	Car	Lgv	LVBU		-SV	MC	PC 10tal	1	Jar LC	v Ugv	Clavz	лsч	MC	- 01	otal	01010
18:00	42	-	0	0	0	0	2	45	36	3	-	0	0	0	4	4	4	1 0	0	0	0	0	5	94
18:15	40	5	0	0	-	-	0	47	32	0	-	0	0	0	1.	4	-	2 0	0	0	0	0	ю	84
18:30	29	2	0	0	-	-	0	33	29	ю	0	0	-	0	1	4	7	0 0	0	0	0	0	2	69
18:45	31	2	0	0	0	0	-	34	13	4	0	0	-	0	-	6	0	0 0	0	0	0	0	0	53
1 T	142	10	0	0	2	2	ю	159	110	10	2	0	2	0	7 13	_	7	3	0	0	0	0	10	300
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20:00	16	ę	0	0	0	+	-	21	22	-	0	0	0	0	0		0	0	0	0	0	0	, 0	44
20:15	9	~	0	0	0	-	0	80	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
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1 Hr	40	4	0	0	0	2	-	47	57	2	0	-	0	0	0	6	0	1 0	0	0	0	0	1	108
Check							ŀ	47							-	20						·	-[	108
21:00	21	-	0	0	0	0	0	22	11	0	0	0	0	0	0	-	0	0 0	0	0	0	0	0	33
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т -	4	4	2	0	0	0	2	52	34	2	0	0	0	0	0	0	5	2	0	0	0	0	8	96
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GL:22	4 (	<b>)</b> (	0	0 0	0	5 0	0 0	4 (	00	5 0	5 0	0 0	5 0	5 0	- 0		- 0		<b>.</b>	0 0	5 0	0 0	- (	21
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Check								21								9							-	58
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23:15	-	0	0	0	0	0	0	٢	0	0	0	0	0	0	0	0	-	000	0	0	0	0	-	2
23:30	9	0	0	0	0	0	0	9	7	-	0	0	0	0	0	8	0	0	0	0	0	0	0	14
23:45	e	0	-	0	0	0	0	4	7	0	0	0	0	0	0		0	0	0	0	0	0	-	12
1 Hr	14	0	-	0	0	0	0	15	20	2	0	0	0	0	0 2.	0	2	0	0	0	0	0	з	40
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Total	1839	343	61	28	18	21	35	2345	1453	323	32	12	18	17	29 188-	1	13 11	0 38	25	0	7	6	702	4931
Check								2345							181	] 3							702	4931
																ţ							:	





## 865 / Bicester & Telford July 2010 Automatic Traffic Count

85%ile Speed	20.1	19.2	19.7
Mean Speed	14.5	14.7	14.6
%. > DfT Limit.	0.0	0.0	0.0
No. > Dff Limit.	0	0	0
%. > ACPO Limit.	4.6	0.0	2.5
No. > ACPO Limit.	17	0	17
%. > Speed Limit.	16.6	9.6	13.4
No. > Speed Limit.	62	30	92
7 Day Ave.	53	45	68
5 Day Ave.	۱Ĺ	61	133
Total Vehicles.	373	314	687
End Date.	Wed, 28 July 2010	Wed, 28 July 2010	Wed, 28 July 2010
Start Date.	Thu, 22 July 2010	Thu, 22 July 2010	Thu, 22 July 2010
Speed Limit - PSL (mph)	20	20	20
Direction.	North	South	Two way
Location.		Bicester Gate D access, Att - stop sign, OSGR: SP 59543 20623	
Site No.		2	

Nationwide Data Collection for Entec

6     -     -       1     -     -       3     10.1       3     10.1
<b>5</b> 0 0 0 0 0 0 <b>0 0</b> 0 0 0 0 0 0 0 0 0
0       0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
a       a
•       •
0     0
0 0 0 0 0 3 <b>38</b> <u>-</u>

for Entec Nationwide Data Collection

865 / Bicester & Telford

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Site

Location		Bicest( North	er Gate	D acce	ess, Att	- stop s	ign, OS	GR: SP	59543	20623									Automa.	JL iic Traffic	Ily 2010
		Fri, 23 Ju	ıly 2010																		
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	°	4	5	9	7	8	6	10	11	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	ı
0100	-	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10.1	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		ı
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	ı
0090	с	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6	
0100	7	0	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6	
0800	4	0	3	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.9	I
0060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		ı
1000	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.4	ı
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1200	16	2	13	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.5	17.9
1300	29	3	26	0	0	0	0	0	0	0	0	0	0	с	10.3	1	3.4	0	0	16.7	19
1400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	I
1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
1800	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.2	
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	Į
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	I
2100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	I
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
2300	-	0	0	0	0	٦	0	0	0	0	0	0	0	0	0	0	0	0	0	11.9	
07-19	59	7	49	0	3	0	0	0	0	0	0	0	0	3	5.1	1	1.7	0	0	14.5	18.6
06-22	62	7	52	0	3	0	0	0	0	0	0	0	0	3	4.8	1	1.6	0	0	14.2	18.6
00-90	63	7	52	0	ŝ	1	0	0	0	0	0	0	0	ŝ	4.8	-	1.6	0	0	14.1	18.6
00-00	64	7	52	0	3	2	0	0	0	0	0	0	0	с	4.7	-	1.6	0	0	14.1	18.3

Nationwide Data Collection for Entec

865 / Bicester & Telford

Site

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& Telford uly 2010	c Count	//nn	v pp	8					ı	I	I	1	ı	ı	1	•		ı	ı	ı			ı	T	ī	I	ı	ı		-		13.4
icester &	utic Traffi	acold			13.7			13.5	ı	I	I		ı	1		13.5	12.3	12.3	1				ı	9.4	ı	I	ı	7.7	12.6	12.2	11.7	12.2
865 / B	Automa	100 13	2L2 /0	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		C 13 1	2LZ	DI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		CI 10/	21 21	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		112	- JC/	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10 IDU -	77.3L /0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			20	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			1,	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			;	- G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			5	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 20623			с 	ART5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 59540			0	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSGR: S		ification		, ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign, C				14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
:t - stop			<b>u</b>	U TB3	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	0	0	1	2	2	2
cess, At			-	TB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e D aco			۰ 	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er Gate	101 2010		۰ 	s v	-	0	0	2	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	-	9	6	7	10
2 Bicest	North		•	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Totol	Ind		-	0	0	2	0	0	0	0	0	0	0	2	3	2	0	0	0	0	0	-	0	0	0	-	7	8	6	12
Site Location	Direction	Timo	<u>ש</u>		0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

uly 2010 ic Count		Vpp	85		1		ı	,	1	1			ı			ı	ı	ı	ı		I	ı	1	I	ı		ı	ı	1	ı	I	•
J tic Traff		Mean													9.5		T		1		Ţ	T		Ţ	1		T	12.5	9.5	9.5	10.3	10.3
Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1%	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>PSL%	20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>PSL	20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20623			6	<b>ART5</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59543			8	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SP		cation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ign, OS		Classifi	9	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop s			5	TB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ess, Att			4	TB2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
D acce			с	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gate	ily 2010		7	SV	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2
3icester Vorth	ն <mark>ո</mark> , 25 Jւ		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ш с	5)	Total			0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	4	4
Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

Nationwide Data Collection for Entec

865 / Bicester & Telford

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Site

elford	Count		Vpp	85		ı								ı							14.5	23		I	I.	I.	ī	I		21.3	21.3	21.3	010
ter & T	raffic (		an							   .		).5	.5	1.				ω	4	6	.6	8.		7						8.	.6	9.	4
Bices	natic T		6 Me									10	15	11				6.	7.	6.	12	18		8.						15	15	15	1.
865 /	Auton		>SL29	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
			>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
			>SL1%	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.4	0	0	0	0	0	0	0	8.3	8.1	8.1	8 1
			>SL1	24	VCPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	9	6	6	9
			%TSc	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.2	0	0	0	0	0	0	0	25	24.3	24.3	24.3
			J< _S	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	8 2	8	~
			*	7		_								_								-								1	-	-	-
				12	DR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
				1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
				10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
20473				6	<b>AR</b> T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
20542				œ	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
D. CD	- IC - / I		ation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
			lassifica	6	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
			U U	2	lB3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	2	ر د
5 ++ V	- 11 2			4	82	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	-	1	0	0	0	0	0	0	0	4	4	4	4
33000																																	
i C Q	בפ	010		~~	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ja U Jo	ם ס ס	6 July 2(		2	SV	0	0	0	0	0	0	2	9	-	0	0	0	0	2		14	35	0	0	0	0	0	0	0	59	61	61	61
2 Binost	North	Mon, 2		-	MCL	0	0	0	0	0	0	0	0	٦	0	0	0	-	0	-	-	3	0	0	0	0	0	0	0	L	7	7	7
			Total			0	0	0	0	0	0	2	8	З	0	0	0	<del>.                                    </del>	2	2	16	39	0	-	0	0	0	0	0	72	74	74	74
ite ocation	Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
S _																																	

Nationwide Data Collection for Entec



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Location Direction		Bicest( North	er Gate	D accé	ess, Att	- stop s	ign, Oʻ	SGR: SP	59543	20623									Automa	JL tic Traffic	IJy 2010 Count
		Tue, 27 J	July 2010																		
Time	Total						Classifi	cation						>PSL	% <b>TSd</b> <	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	ŝ	4	ß	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		-
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		ı
0090	2	0	-	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	11.3	
0100	7	0	9	0	1	0	0	0	0	0	0	0	0	-	14.3	0	0	0	0	12.5	
0800	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.4	
0060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı.	1
1000	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.4	
1100	2	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.6	
1200	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.3	ı
1300	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.5	
1400	З	0	2	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.4	1
1500	25	4	21	0	0	0	0	0	0	0	0	0	0	6	24	-	4	0	0	15.4	20.1
1600	30	2	27	0	1	0	0	0	0	0	0	0	0	6	30	1	3.3	0	0	17.4	21
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
2100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	ı
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
2300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		I
07-19	75	7	65	0	3	0	0	0	0	0	0	0	0	16	21.3	2	2.7	0	0	15	20.6
06-22	77	7	66	0	S	-	0	0	0	0	0	0	0	16	20.8	2	2.6	0	0	14.9	20.1
00-90	77	7	99	0	3	-	0	0	0	0	0	0	0	16	20.8	2	2.6	0	0	14.9	20.1
00-00	77	7	99	0	e	1	0	0	0	0	0	0	0	16	20.8	2	2.6	0	0	14.9	20.1

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865 / Bicester & Telford

Location Direction		Bicest( North	er Gate	D acc(	ess, Att	- stop s	ign, OS	SGR: SP	59543.	20623									Automa	Ju tic Traffic	ly 2010 Count
		Wed, 28	July 2010	_																	
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	3	4	ß	9	7	ω	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	Τ4	<b>ART3</b>	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	-
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0090	5	0	4	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	13.9	•
0700	с	0	3	0	0	0	0	0	0	0	0	0	0	с	100	-	33.3	0	0	23.5	
0800	5	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.5	•
0060	4	-	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.3	
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1100	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.1	
1200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	ı
1300	9	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	9.6	,
1400	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.2	
1500	20	с	16	0	-	0	0	0	0	0	0	0	0	-	5	-	5	0	0	9.7	11.6
1600	35	4	30	0	1	0	0	0	0	0	0	0	0	15	42.9	4	11.4	0	0	18.7	22.8
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-19	75	8	61	0	3	3	0	0	0	0	0	0	0	19	25.3	9	8	0	0	14.6	21.9
06-22	80	8	65	0	3	3	0	0	0	1	0	0	0	19	23.8	6	7.5	0	0	14.6	21.3
00-90	80	8	65	0	3	3	0	0	0	1	0	0	0	19	23.8	6	7.5	0	0	14.6	21.3
00-00	80	ω	65	0	ŝ	ŝ	0	0	0	-	0	0	0	19	23.8	9	7.5	0	0	14.6	21.3

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ly 2010 Count		Vpp	85	,							,		I				ı		17.7	22.1	,				1	ı	ı	20.4	20.1	20.1	20.1
Ju c Traffic		Mean		13.7	10.1		13.5	1		11.2	14.5	12.2	8.3	ω	6.9	13	14.6	9.4	12.2	17.6	-	11.4	9.4			-	10.7	14.7	14.6	14.5	14.5
utomati		>SL2%	35 DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A		>SL2	35 DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1%	24 ACPO	0	0	0	0	0	0	0	3.2	0	0	0	0	0	2.4	0	2.7	9.2	0	0	0	0	0	0	0	4.8	4.6	4.6	4.6
		>SL1	24 ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	2
		>PSL%	20	0	0	0	0	0	0	0	16.1	0	0	0	0	0	7.3	0	9.5	33.1	0	0	0	0	0	0	0	17.6	16.9	16.8	16.6
		>PSL	20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	6	6	6	6
			12 DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			11 BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			10 ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 20623			9 I ART5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P0904		۲	8 8 3 ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSGR:		sificatior	7 ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
p sign, e		Clas	8 6 3 T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Att - sto			25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	2
ccess, /			т	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	3	3	3
ate D a	(		S 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3 0	0	0	0	0	0	0	0	0 1	0	0	4 0
ester Ga th	al Day (7		CL2	0	0	0	0	0	0	2	4	2	0	0	L	°	2	-	6	18	0	0	0	0	0	0	0	4.	4:	4:	4
BICE Nor	Virtu	tal	- M	0	0	0	0	0	0	2	4 0	2 0	1 0	0	1 0	3	9 0	0	1	0 2	0	0 0	0	0	0	0 0	0 0	0 5	2 5	3 5	3 5
		Io								- 4			-		-				-	2		)			)		)	5	5	5	5
Locatior Directior		Time		0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

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Count		Vpp	85		21.3	20.1	21.3	19	18.3	13.4		20.0	20.1	20.1	lean 5%ile PSL% SIL2%	Ц
u c Traffic		Mean			15.6	14.9	14.6	13.8	14.1	12.2	10.3	14.6	14.5	14.5		Collectio
utomati		SL2%	35	DfT	0	0	0	0	0	0	0	0.0	0.0	0.0	2 7 Day Ave. 5 Day Ave.	le Data (
Ā		>SL2 >	35	DfT	0	0	0	0	0	0	0	0	0	0	Sun	ationwic
		SL1%	24	ACPO	8.1	2.6	7.5	3.2	1.6	0	0	4.2	4.6	4.6		Z
		>SL1 >	24	CPO A	9	2	6	2	-	0	0	3	2	17	Letter the second secon	
		bSL%	20	A	24.3	20.8	23.8	9.7	4.7	0	0	16.9	16.6	16.6	Tue Mon	
		>PSL >	20		18	16	19	6	с	0	0	12	6	62	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
			12	DRT	0	0	0	0	0	0	0	0	0	0	RT RT5 23 33 22 10 10 10 10	
			11	BD	0	0	0	0	0	0	0	0	0	0		
			10	ART6	0	0	0	0	0	0	0	0	0	0	7 Day Ave.	
			6	ART5	0	0	-	0	0	0	0	0	0	1	5 Day Ave.	
			8	ART4	0	0	0	0	0	0	0	0	0	0	Sun	
		ation	7	ART3	0	0	0	0	0	0	0	0	0	0	Sat	
		Classific	9	T4	0	0	0	-	0	0	0	0	0	1	Fri	
			ß	TB3	2	-	з	-	2	2	0	2	2	11		
			4	TB2	4	с	Э	ę	с	0	2	3	3	18	Wed	
			e	SVT	0	0	0	0	0	0	0	0	0	0		
	/eek (1)		7	SV	61	66	65	50	52	10	2	59	44	306	Mon	
North	Virtual W		-	MCL	7	7	ω	7	7	0	0	7	5	36	<b>No. of Vehicles</b> 8 8 6 6 7 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
		Total			74	77	80	62	64	12	4	11	53	373		
lirection		Time			Mon	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	sydeið Graphs	1

Telford ly 2010 : Count		-	80 - 135 - 35 140	0	0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0	0 0	0	0	0	0 0	0 0	0 0	0 0	0 0	0	0 0	0	0 0	ion for
ster & Ju Iraffic		_	25 - 13 30 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ollect Ent
Bices natic		_	20 - 1: 25 - 1:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ata C
865 / Autom			15 - 1 120 - 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	/ide D
		_	110 - 1 115 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ationw
			105 - 1 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ž
			100 - 105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		!	95 - 100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			90 - 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	85 - 90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			80 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		_	75 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	(	(nqm)	70 - 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		suid d	65 - 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		- obeel	60 - 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23		_	- 09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 206		_	22 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5954		- -	- 03 - 03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GR: SF		_	42 - 4 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ر OSo			- 0: 4 /	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ip sigi		_	- <u>3</u>	0	0	C	0	C	0	0	0	C	0	С	С	0	0	C	C	0	C	0	С	С	С	С	С	0	0	0	0	
t - stc		_			0	0	0	0	0	0	•	0	0	) (	) (	0	0	0	0	_	0	0	)	0	0	) (	0	_	_		_	
ss, At		_	5 25 5 3	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0	0	0	0	1	0	0	0	0	0	0	0	1	2	-	5	
acce		_	20 - 20	0	0	0	0	0	0	0	2	1	0	0 0	0 0	0	0	0	0	5 4	0	0	0 0	0 0	0 0	0 0	0 0	8	8	8	8	
ate D		_	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4 (	14 1	0	0	0	0	0	0	0	1 1	1 1	1	19 1	
er Ga		_	- <u>1</u>	0	0	0	0	0	0	-	3	-	0	1	0	0	0	0	9	4 1	0	0	0	0	0	0	0	18 1	19 1	19	19 1	
sicest North		_	ۍ <u>د</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	•	. 0	
	1040	0181		0	0	0	0	0	0	-	9	2	0	-	0	0	0	-	13	38	0	0	0	0	0	0	0	61	62	62	62	
tion	-	e		000	100	200	300	100	500	200	200	300	00 <i>t</i>	000	100	200	300	100	500	200	200	300	00 <i>6</i>	000	100	200	300	-19	-22	-00	-00	N
Site Loca Direc		=		00	0	<u>;0</u>	0	70	05	06	10	30	50	1(	, - -	1,	-	71	15	16	1	16	15	2(	2,	2,	2	07	90	90	00	

for Entec

ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Trafi		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bico matic		120 -	125	ο	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Auto		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Bins	65 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Speed	- 09	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		- 22	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 206		- 02	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 595		45 - 1	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: S		40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ju, OS		35 - 7	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
op sig		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Att - st		25 - 1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ess, A		50 - 2	25	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	3	3	e
) acc		15 -	20	0	0	0	0	0	0	0	-	0	0	0	0	9	19	0	0	0	0	0	0	0	0	0	0	26	26	26	26
ate [		- 10	15	0	1	0	0	0	0	-	9	4	0	0	0	9	9	0	0	0	0	1	0	0	0	0	1	23	24	25	26
ter G July 20	5	۔ د	10	0	0	0	0	0	0	-	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	5	6	6	6
2 Bices North Fri, 23		- 0	ъ	0	0	0	0	0	0	-	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	S
	Total			0		0	0	0	0	3	7	4	0	2	0	16	29	0	0	0	0	-	0	0	0	0	-	59	62	63	64
Site -ocation Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection

NDC

ord 010 unt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 c Co			130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster { J Traffi			125 - 1	. 130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Bice natic			120 - 1	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Autor			115 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			- 06 2	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			80 - 21	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdm)	70 -	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Bins (		0/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		speed		55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33			· و ن	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 2062			. <u>.</u>	5	0	0	0	0	0	0	0	0	0	0	0		0	0	0		0	0	0	0	0	0	0	0		-		-
59543			- 20	2	0	)	0	0	0	)	)	0	0	0		•		0	)		)	)	0		0		0	0	)	-	0	
R: SP			45	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSG			40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,			35	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop			30.	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s, Att			25 -	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ccess			20 -	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
р О Ф			- 15 -	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gate	ly 2010		- 1 - 1	15	-	0	0	2	0	0	0	0	0	0	0	2	с	2	0	0	0	0	0	0	0	0	0	0	7	7	7	10
ester irth	24 Jul		- 2 - 2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	0	0	0	-	0	-	2	2
2 Bic No	Sat,	1	• '	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Tota			-	0	0	2	0	0	0	0	0	0	0	2	3	2	0	0	0	0	0	-	0	0	0	-	7	∞	6	12
Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec



ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
& Tel July ź fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
865 Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		15 - 1	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	(hqm	- 0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Bins (	5 - 7	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	peed	9 - 0	. 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33	0,	2 - 6(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 2062		- 21	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		-	-	-	
59543		- 20	0 5	)	0	0	0	0	) (	) (	0	0	0	0	) (	) (	) (	) (	0	) (	) (	) (	) (	) (	) (	0	0	) (	0	0	0	
sR: SP		- 45	5 5	0	0		0	0	)	)	0	-	0	•	0	0	0	)	0	)	)	0	0	0	)	0	•	0	-	-		
OSG		- 40	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
o sign		- 35	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- stop		- 30	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
s, Att		- 25	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Icces		- 20	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
е D о		- 15	20	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
. Gati Ily 201		10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-	-	
tester orth 1, <mark>25 Ju</mark>		2	10	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
2 Bic No	_	0	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	-	
	Tota			0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	-	3	3	4	4	
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00	

for Entec

site -ocation Direction		2 Bice Nort	ster G h	àate E	) acc	ess, A	vtt - stc	op sigr	, OSC	sR: SP	59543	20623											8 A	865 / B utoma	siceste atic Tra	er & To July affic (	elford 2010 Count	
		Mon,	26 July	/ 2010																								
Time	Total		-	-	-	-	-	-	-	-	-	-	Spe	ed Bin:	(udu) s	_	-	-	-	-	-	-	-	-	-	-	-	
		° 0	5 - 10	10 - 15	15 - 1 20	20 - 2 25	30 - 30 30 - 30	- 31 25 - 31	- 0 - 4(	2 42 2 42	22 21 21	- 55 - 55 -	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 - 90	90 - 95	95 - 1 100 1	00 - 1	05 - 1 <sup>.</sup> 10 - 1	10 - 11 15 13	15 - 12( 20 12	0 - 125 5 130	- 130 135	- 135 140	
0000	С		2 0	c		C	С					c	C	c	. c	c		c	c	C					C	C	C	
0100	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0200	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0300	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0400	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0090	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0100	8	0	0	3	£	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	r –
0800	З	0	-	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1200	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1300	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1400	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1500	16	0	2	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1600	39	0	-	8	12	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	r –
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00-90	74	0	10	27	19	15	e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	NDC	1000																				Na	tionwi	de Ua	ta Col	lectio		
	NATCHINE EALA COL	RCION																								Ente	- ()	

for Entec

Site Location Direction		2 Bic∈ Nort	ster (	Gate I	Dac	cess,	Att - si	top siç	Jn, Oʻ	GR: SI	P 5954	.3 2062	ŝ											865 Auto	/ Bic	ester c Traff	& Telf July 2 ic Co	ord 010 unt
		Tue,	رامل 27	/ 2010																								
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0400	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0
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1300	2	0	2	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Site Location Direction		2 Bic∈ Nort	ster ( h	Gate I	D ac(	cess, i	Att - st	top siç	Jn, Oʻ	SGR: S	P 5954	13 2062	33											865 Auto	/ Bic	ester J c Traff	& Telf July 2 ic Co	ord 010 unt
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Time	Total				-	-	-	-	-	-	-	-	•, _	speed	Bins (n	(µdu	-	-	-	-	-			-	-	-	-	
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0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0060	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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1200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	ACC VALUE REMAY COM	No.																								ш	ntec	

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Image: Proper sector
0         1         1         1         2         30         33         30         45         50
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4         1         1         0
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53       1       10       18       14       7       1       00       0       00<
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for Entec

865 / Bicester & Telford July 2010 Automatic Traffic Count			5 - 90 - 95 - 100 - 105 - 110 - 115 - 120 - 125 - 130 - 135 - 30 95 100 105 110 115 120 125 130 135 - 140									0 0 0 0 0 0 0 0 0 0		00       01       00       01       01       01       01       135 - 140         130 - 135       125 - 130       120 - 125       120 - 125       115 - 120         110 - 115       105 - 110       100 - 105       95 - 100         95 - 100       95 - 100       95 - 100       95 - 100	Nationwide Data Collection
			- <u>8</u> «	,							)			80 - 85	
		(hc	- 75 80	0	0	0	0	0	0	0	0	0	0	75 - 80	
		յոյ sr	70.75	2 0	0	0	0	0	0	0	0	0	0	70 - 75 <b>É</b>	
		ed Bir	- <u>7</u> 0	2 0	0	0	0	0	0	0	0	0	0	65 - 70 <b>g</b>	
		Spe	- 09 65	0	0	0	0	0	0	0	0	0	0	60 - 65	
623			55 - 60	3 0	0	0	0	0	0	0	0	0	0	55 - 60	
43 20			50 - 55	3 0	0	0	0	0	0	0	0	0	0	50 - 55	
- 595.			15 -	3 0	0	0	0	0	0	0	0	0	0	45 - 50	
GR: SI			1 15 -	2 0	0	0	0	0	0	0	0	0	0		
, OS(			4 4		C	C	C	C	C	C	0	0	0	30 - 35	
p sigr			- 35			-	-	-	-					25 - 30	
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is, Att			- 25	۳ ا	-	D	-	0	0	0	2	-	10	15 - 20	
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iite ocation Nirection		Time Tot.		Mon 74	Tue 77	Wed 80	Thu 62	Fri 64	Sat 12	Sun 4	5 Day Ave. 71	7 Day Ave. 53	37.	sydeið Viemmus	1

tor Entec

	2 Bicest South	er Gate	D acc(	ess, Att	- stop s	ign, OS	GR: SP	59543	20623									865 / B Automa	icester & או tic Traffio	Telford Ily 2010 c Count
Thu, 22 July :	; ylut	2010														-				
						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
-		2	e	4	5	6	7	8	6	10	11	12	20	20	24	24	35	35		85
MCL		SV	SVT	TB2	TB3	T4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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0		26	0	4	0	0	0	0	0	0	0	0	3	10	0	0	0	0	16.5	19.2
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0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
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0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
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0		44	0	8	0	0	0	0	1	0	0	0	9	11.3	0	0	0	0	15.6	19.2
0		52	0	8	0	0	0	0	L	0	0	0	9	9.8	0	0	0	0	15.4	19.2
0		52	0	8	0	0	0	0	L	0	0	0	9	9.8	0	0	0	0	15.4	19.2
0		52	0	8	0	0	0	0	1	0	0	0	6	9.8	0	0	0	0	15.4	19.2

for Entec Nationwide Data Collection



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tic Iraf	Mean			I	I			I	I	8.6	16.8	14.4	Ţ	11.1	I	17.2	I	ļ	ļ	I	I	I	9.3	ļ	I	ı	ļ	16.3	15.3	15.3	15.3
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	SL1%	24	CPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	SA<	20		0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	°	°
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	<b>A</b> RT5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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for Entec Nationwide Data Collection

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| Automa    |                 | >SL2%  | 35   | DfT   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 | >SL1   | 24   | ACPO  | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 | >PSL%  | 20   |   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 | >PSL   | 20   |   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 |  | 12   | DRT   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 |  | 11   | BD  | 0   | 0   | 0  | 0   | 0   | 0   
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  | 0   | 0   | 0   | 0  
   | 0   | 0   | 0   | 0   | 0   
   | 0  | 0   | 0   |
|           |                 |  | 10   | ART6  | 0   | 0   | 0  | 0   | 0   | 0   
  | 0   | 0  | 0   | 0   | 0   
   
   
   | 0  | 0   | 0  | 0   
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   | 0  | 0   | 0   |
|           |                 |  | 6  | <b>ART5</b>   | 0   | 0   | 0  | 0   | 0   | 0   
  | 0   | 0  | 0   | 0   | 0   
   
   
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|           |                 |  | ω  | ART4  | 0   | 0   | 0  | 0   | 0   | 0   
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| 5.20      |                 | cation   | 7  | <b>ART3</b>   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 |  | വ  | TB3   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 |  | 4  | TB2   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 |  | ς  | SVT   | 0   | 0   | 0  | 0   | 0   | 0   
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|           | uly 2010        |  | 2  | SV  | 0   | 0   | 0  | 0   | 0   | 0   
  | 0   | 0  | 0   | 0   | 0   
   
   
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   | 0   | 0   | 0   | 1   | 0   
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| South     | Sun, 25 J       |  | -  | MCL   | 0   | 0   | 0  | 0   | 0   | 0   
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|           |                 | Total  |  |   | 0   | 0   | 0  | 0   | 0   | 0   
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| Direction |                 | Time   |  |   | 0000  | 0100  | 0200   | 0300  | 0400  | 0500  
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   | 1100   | 1200  | 1300   | 1400  
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   | 06-22  | 00-90   | 00-00   |
|           | Direction South | Direction South So | Direction South So | Direction       South       Automatic Traffic Count         Sun, 25 July 2010       Sun, 25 July 2010         Time       Total       >PSL       >PSL       >PSL       >SL1       >SL2       >SL2%       Mean       Vpp         1       2       3       4       5       6       7       8       9       10       11       12       20       24       24       35       35       85 | Direction       South       Automatic Traffic Count         sun, 25 July 2010       Sun, 25 July 2010       No. 25 July 2010         Time       Total       1       2       3       4       5       6       7       8       9       10       11       12       20       24       24       35       35       85         MCL       SV       SVT       TB2       T4       ART4       ART5       ART6       BD       DRT       ACP0       ACP0       DFT       DFT       BT | Direction       South       Automatic Traffic Count         Sun, 25 July 2010       Sun, 25 July 2010       Poly       Poly< | Direction       South       Automatic Traffic Count         Sun, 25 July 2010       South       South       South       South       South       South       Automatic Traffic Count         Ime       Int       2       3       4       5       6       7       8       9       10       11       12       20       20       24       35 | Direction       South       South | Direction       Time       I       22 a       3 b       4 b       5 b       7 a       3 b | Image: Solution control         Solution control         Activity cont         Activity control         Activity cont | Image: Solution contraction contracticontecomentecontecoment contraction contraction contraction contra | Intent Territy For the formation of th | Intent         Antional and | International conditional conditinal conditicational conditional conditional conditional co | Intendiction         And iteration         Partial iteration         iteration         Parit iteration         Partial 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Nationwide Data Collection for Entec

## 865 / Bicester & Telford

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Total Classificatio	Classificatio	Classificatio	Classificatio	Classificatio	Classificatio	Classificatic	catic	n						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	
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2 0 2 0 0 0 0	0 2 0 0 0 0	2 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	11.9	
5 0 3 0 2 0 0	0 3 0 2 0 0	3 0 2 0 0	0 2 0 0	2 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	9.9	
4 0 2 0 2 0 0	0 2 0 2 0 0	2 0 2 0 0	0 2 0 0	2 0 0	0 0	0		0	0	0	0	0	0	1	25	0	0	0	0	16.9	-
5 0 5 0 0 0 0	0 5 0 0 0 0	5 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	13.2	•
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		0 0 0 0	0 0 0	0 0 0	0 0	0	-	C	0	0	0	0	0	0	0	0	0	0	0		I
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46         1         36         0         7         0         0	1 36 0 7 0 0	36 0 7 0 0	0 7 0 0	7 0 0	0 0	0		0	0	2	0	0	0	4	8.7	0	0	0	0	15.2	19.2
57 1 47 0 7 0 0	1 47 0 7 0 0	47 0 7 0 0	0 7 0 0	7 0 0	0 0	0		0	0	2	0	0	0	9	10.5	0	0	0	0	14.8	19.5
57 1 47 0 7 0 0	1 47 0 7 0 0	47 0 7 0 0	0 7 0 0	7 0 0	0	0		0	0	2	0	0	0	6	10.5	0	0	0	0	14.8	19.5
57         1         47         0         7         0         0	1 47 0 7 0 0	47         0         7         0         0	0 7 0 0	7 0 0	0	0		0	0	2	0	0	0	9	10.5	0	0	0	0	14.8	19.5

NDC

Nationwide Data Collection

2 Bicester Gate D access, Att - south	2 Bicester Gate D access, Att -	er Gate D access, Att -	D access, Att -	ss, Att -		stop si	gn, OSı	GR: SP (	59543 2	20623									865 / B	icester 8 Ju tic Traffiu	Telford Ily 2010
souin Tue, 27 July 2010	south Tue, 27 July 2010	July 2010																	Automa		Count
Total							Classific	cation						>PSL	% <b>TS</b> d<	>SL1	>SL1%	>SL2	>SL2%	Mean	۷pp
1 2 3 4 5	1 2 3 4 5	2 3 4 5	3 4 5	4 5	Ð		6	7	8	6	10	11	12	20	20	24	24	35	35		85
MCL SV SVT TB2 TB3	MCL SV SVT TB2 TB3	SV SVT TB2 TB3	SVT TB2 TB3	TB2 TB3	TB3		T4	<b>A</b> RT3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	-	
0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	0		
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0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0	0	Ŭ	0	0	0	0	0	0	0	0	0	0	0	0	0		
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6 0 6 0 0 0 0 0	0 6 0 0 0 0	6 0 0 0 0	0 0 0	0 0 0	0	0		0	0	0	0	0	0	1	16.7	0	0	0	0	16.6	
38 1 32 0 3 0 0	1 32 0 3 0 0	32 0 3 0 0	0 3 0 0	3 0 0	0 0	0		0	0	2	0	0	0	9	15.8	0	0	0	0	16.6	19.7
2 0 2 0 0 0 0	0 2 0 0 0 0	2 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	14.2	,
1 0 1 0 0 0 0	0 1 0 0 0 0	1 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	15.4	
1         0         1         0         0         0	0 1 0 0 0 0	1 0 0 0	0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	13.3	1
2     0     1     0     1	0 1 0 1 0	1 0 1 0 0	0 1 0	1 0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	2.3	
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3 0 3 0 0 0 0	0 3 0 0 0 0	3 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	8.4	
3 1 2 0 0 0 0	1 2 0 0 0 0	2 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	11.6	Ţ
6 0 2 0 3 0 0	0 2 0 3 0 0	2 0 3 0 0	0 3 0 0	3 0 0	0 0	0		0	0	1	0	0	0	0	0	0	0	0	0	13.9	•
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0 0 0 0 0 0 0		0 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0		
		0 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	0	0	0	0	0	0	0	0	0	0	0		ı
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61         2         49         0         7         0         0	2 49 0 7 0 0	49 0 7 0 0	0 7 0 0	7 0 0	0 0	0		0	0	3	0	0	0	9	9.8	0	0	0	0	14.8	19.5
67         2         55         0         7         0         0	2 55 0 7 0 0	55 0 7 0 0	0 7 0	7 0 0	0	0		0	0	3	0	0	0	7	10.4	0	0	0	0	15	19.5
67         2         55         0         7         0         0	2 55 0 7 0 0	55 0 7 0 0	0 7 0 0	7 0 0	0 0	0		0	0	3	0	0	0	7	10.4	0	0	0	0	15	19.5
67         2         55         0         7         0         0	2 55 0 7 0 0	55 0 7 0 0	0 7 0	7 0 0	0	0		0	0	с	0	0	0	7	10.4	0	0	0	0	15	19.5

Nationwide Data Collection for Entec

865 / Bicester & Telford

Site

Site Location Direction		2 Bicest( South	er Gate	D acce	ess, Att	- stop s	ign, OS	GR: SP	59543 2	0623									865 / Bi Automat	cester & Ju ic Traffic	Telford ly 2010 : Count
		Wed, 28	July 2010	<b>C</b>																	
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	ß	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	,	-
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0090	15	-	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	15.9
0200	34	0	30	0	2	0	0	0	1	1	0	0	0	9	17.6	0	0	0	0	17.6	20.1
0800	8	0	5	0	2	0	0	0	0	-	0	0	0	0	0	0	0	0	0	14.2	,
0060	4	с	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	,	
1100	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
1200	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.2	,
1300	З	-	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9	
1400	2	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	14.9	-
1500	11	2	4	0	-	0	-	0	0	3	0	0	0	0	0	0	0	0	0	11.3	15.7
1600	2	0	5	0	0	0	0	0	0	0	0	0	0	2	40	0	0	0	0	17.1	
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-19	70	9	51	0	5	0	-	0	-	9	0	0	0	8	11.4	0	0	0	0	14.7	19.5
06-22	85	7	65	0	5	0	-	0	-	9	0	0	0	8	9.4	0	0	0	0	14.3	19.2
00-90	85	7	65	0	5	0	1	0	1	6	0	0	0	8	9.4	0	0	0	0	14.3	19.2

for Entec

Nationwide Data Collection

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July 2010 ic Count		Vpp	85		T		1	,	1	1	•	19.9	ı	1	-		,	1	,	•	·	ı	1	1	1	T			19.2	19.2	19.2	19.2
, tic Traff		Mean			13.9		ı		1		13.2	16.9	15	6	6.3	4.9	13.5	9.1	11.9	13.4	13.7	ı	-	9.3	T	-	ı	7.1	15	14.7	14.7	14.7
Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1%	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>PSL%	20		0	0	0	0	0	0	6.8	14.1	3.4	0	0	0	0	0	0	11.5	10.5	0	0	0	0	0	0	0	10.1	9.6	9.6	9.6
		>PSL	20		0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4
			12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20623			6	<b>A</b> RT5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	2	2	2
59543			œ	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SP		cation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ign, OS		Classifi	9	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop s			2	TB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ess, Att			4	TB2	0	0	0	0	0	0	0	2	-	0	L	0	0	0	0	1	0	0	0	0	0	0	0	0	2	5	2	5
Dacce			3	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er Gate	ay (7)		2	SV	0	0	0	0	0	0	6	18	с	0	0	0	-	-	-	2	3	0	0	0	0	0	0	0	30	36	36	36
Biceste South	Virtual D		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	1	-
		Total			0	0	0	0	0	0	6	21	4	-	-	0	-	-	2	4	3	0	0	0	0	0	0	0	38	45	45	45
Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

## 865 / Bicester & Telford

Site

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	Vpp	85		19.5	19.5	19.2	19.2	18.8	ı		19.2	19.2	19.2	Aean 5%ile SL1% SL2%
	Mean			14.8	15	14.3	15.4	15.3	13.9	3.6	15.0	14.7	14.7	
	>SL2%	35	DfT	0	0	0	0	0	0	0	0.0	0.0	0.0	5 Day Ave.
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	Sun  Sat
	>SL1%	24	ACPO	0	0	0	0	0	0	0	0.0	0.0	0.0	Fri
	>SL1	24	ACPO	0	0	0	0	0	0	0	0	0	0	Wed
	>PSL%	20		10.5	10.4	9.4	9.8	8.3	0	0	9.8	9.6	9.6	Tue Mon
	>PSL	20		9	7	ω	6	з	0	0	6	4	30	0 10 30 40 20 80 40 10 10 10 10 10 10 10 10 10 10 10 10 10
		12	DRT	0	0	0	0	0	0	0	0	0	0	DRT BD ART6 ART5 ART3 ART3 ART3 TB2 TB3 TB2 SVT SV SV MCL
		11	BD	0	0	0	0	0	0	0	0	0	0	
		10	ART6	0	0	0	0	0	0	0	0	0	0	7 Day Ave.
		6	<b>A</b> RT5	2	3	6	-	0	0	0	2	2	12	5 Day Ave.
		8	ART4	0	0	-	0	0	0	0	0	0	L	Sun
	ication	7	ART3	0	0	0	0	0	0	0	0	0	0	Sat
	Classif	6	T4	0	0	-	0	0	0	0	0	0	1	Fri
		2	TB3	0	0	0	0	-	0	0	0	0	1	Thu
		4	TB2	7	7	വ	8	4	0	4	9	പ	35	Wed
		m	SVT	0	0	0	0	0	0	0	0	0	0	Tue
IN MAAN		2	SV	47	55	65	52	31	с	-	50	36	254	Mon
VILUAI		-	MCL	-	2	7	0	0	0	0	2	-	10	No. of Vehicles
	Total			57	67	85	61	36	ς	2	61	45	314	
	Time			Mon	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	Summary Graphs

SP 59543 20623 SP 59543 20623 July 20 Automatic Traffic Co	Speed Bins (mph)	45 -       50 -       55 -       60 -       65 -       70 -       75 -       80 -       85 -       90 -       95 -       100 -       105 -       110 -       115 +       120 -       125 +       130 -       131 -         50       55       60       65       70       75       80       85       90       95       100       105       110       115       120       125 +       130 -       131       141								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								0       0									0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0	Image <th>CCC&lt;</th>	CCC<
		90 - 95 - 95 100	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0		0	0 0 0 0
		85 - 90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
		80 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
		75 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
	(hdm)	70 - 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
	d Bins	65 - 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
	Speed	50 - 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
23		5 - <del>(</del> 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
3 206		0 - 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
5954		2 - 2 20 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0 0
GR: SP		- C - E - E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ں, OSC		- 0 4 4		0	0	0	0	0	0	0	0		0		0		0	0	0			0	0	0		0		_	
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t - sto		30 - 30								0									0							0	,	_	
ss, At		5 3( 3(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	<u> </u>	
acce		5 50 50 -	0	0	0	0	0	0	0	9 3	-	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	•	9 	6 6
te D		) - 15 5 2	0	0	0	0	0	0		3 1	4	0	0	0	0	0	0	-	9	0	0	0	0	0	0	0		8	2 2
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лш() <mark>н</mark>	Total		0	0	0	0	0	0	8	30	11	0	0	0	0	0	з	5	4	0	0	0	0	0	0	0	53	;	61
ection	Time		0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	1-1-10	06-22

for Entec
ord	010 unt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf	luly 2 ic Co			130 - 1	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester	J Traffi			125 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice	natic			120 - 1	1Z5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 /	Autor			115 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				110 -	4115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				105 - 110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				100 -	۲U5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				90 - 21	<del>ر</del> ب	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				80 - 21	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(hdm)	70 -	¢/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Bins	55 - 	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Speed		ç9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23			2-0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3 2062				ې د	0	C	0	0	0	C	C	C	0	0	C	C	C	C	C	0	0	0	C	C	C	0	0	0	0	с С	0	
	5954:			<u>.</u>	2 0	0	0	0	0	0	0	(	0	0	0	0	0	0	0	0	0	0	0	-	-	0		0		0		-	-
	ir: SP				ۍ م	0	)	0	0	0	)	0	0	0	0	)	)	0	0	)	0	0	0	0	0	0		0		0	0	0	
	OSG			- 40	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	o sign			- 35	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- stop			- 30	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	s, Att			- 25 -	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	cces			20.	<b>5</b> 2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	ŝ
	еDа			- 15	20	0	0	0	0	0	0	0	16	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22
	r Gat	y 2010		10	4L	0	0	0	0	0	0	1	4	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	9	6
	cestel uth	23 Jul		, о о ,	2	0	0	0	0	0	0	3	0	-	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	-	5	5	Q
2	Bic So	Fri,	اد	0 '	Ω	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Totá			0	0	0	0	0	0	4	23	4	0	-	0	3	0	0	0	0	0	0	-	0	0	0	0	31	36	36	36
Site	Location Direction		Time			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

# Nationwide Data Collection

865 / Ricester & Telford

ite ocation irection		2 Bice Sout	ster ( h	Gate	Dac	cess, ,	Att - st	op siç	Jn, OS	GR: SI	P 5954	3 2062	ε										4	865 / Autom	Bices natic 1	ster & Ju Iraffic	Telfor ly 201 : Coui	<u></u> 19 19 19
		Sat, 2	4 July	2010																								
Time	Total				-	-	-	-	-	-	-	-	SF	oeed B	ins (mp	(h					-	-	-	-			-	
		20	5 -	10 - 15	15 - 20	20 - 25	25 - 3 30	30 - 35 35	35 - 4 40	40 - 4 45	45 - 5 50	55 - 55 55 60	- 60 65	- 65 5 70	- 70 - 75	- 75 80	- 80 - 85	85 - 90	90 - 95	95 - 100	100 - 105	105 - 110	110 - 1 115	115 - 1: 120 - 1	20 - 12 25 - 12	25 - 13 30 13	80 - 13 35 14	ۍ 10 -
0000	-	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0090	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1300	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
2000	0	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0
2100	0	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0 (	0	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
2300	0	0	0	0	0	0	0	0	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	0
07-19	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06-22	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00-90	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00-00	3	0	0	3	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	_
	NDC	and the second																				Z	ationw	vide Da	ata C	ollecti Ent	on for ec	

ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bico matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 - 1	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm	- 0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bins (I	5 - 7	02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	peed	9 - 0	<u>د </u>	0	0	0	0	0	0	0	0	0	0	C	0	C	C	C	0	0	C	C	C	C	0	0	c	0	0	0	0
c	S	99 - 90	9 0	0	0	0	0	0	) (	) (	0	0	0	•	) (	) (	) (	) (	0	) (	) (	)	0	)	) (	0	•	•	•	-	-
2062		- 26	9	0					)	)				0	)	)	)	)	)	)	)	)	0	)	)		0	0	0	0	
59543		- 50	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R: SP		- 45	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSGI		40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,		35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stop		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, Att -		25 -	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
scess		20 -	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
: D ac		15 -	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gate y 2010		10 -	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester - th <mark>25 July</mark>		2 -	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٢	0	0	-	-
2 Bicé Sou <b>Sun</b> ,		- 0	വ	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4
	Total			0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	-	4	4	5	5
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection for



Site Location Direction		2 Bice Sout	ster ( h	Sate [	) acc	cess, 4	Att - sto	pis dc	in, OS	GR: SI	o 5954	3 2062	ŝ											865 Auto	/ Bico	ester J c Traff	& Telf uly 20 ic Co	ord 010 unt
		Mon,	26 Jul	y 2010																								
Time	Total												S	peed	Bins (m	(hq												
		° 2	5 - 10	10 - 15	15 - 20	20 - 2 25	25 - 3 30	35 - 3	35 - 4 40	45 - 4 45	15 - 5 50	0 - 55 55 6(	)- 6( 0 6	0 - 65 5 7	- 70 7	- 75 8 25	0 - 80 85	- 85	- 90 95	- 95 100	- 100 105	- 105 - 110	- 110 - 115	115 - 120	120 - 125	125 - 1 130	130 - 1 135 -	35 - 140
0000	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0
0100	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0200	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0
0300	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0
0400	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0
0500	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0090	1	с	0	4	2	2	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0200	24	0	0	5	16	3	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0800	4	0	0	2	2	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0060	-	0	0	-	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0 0	) (	) (	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0
1100	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	-	0	0	-	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1300	2	0	0	2	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1400	5	0	4	1	0	0	0	0	0	0	0	0 0		0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0
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Site Location Direction		2 Bice Sout	ster ( h	Gate	D acı	cess, /	Att - st	op siç	Jn, OS	GR: S	P 5954	3 2062	3										4	865 / Nutom	Bicest atic Ti	ter & ] Jul raffic	elford y 201 Coun	t o d
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Site Location Direction		2 Bice: Soutl	ster G	àate [	) acc	cess, 4	Att - sto	ois qc	Jn, OS	GR: S	P 5954	3 2062	23											865 / Autorr	Bice	ster & Ju Traffic	Telfor Iy 20' Cou	<u>5</u> 6 <u></u>
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13	18	24	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	15	35	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	;	10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	<b>ART5</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		œ	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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y 2010		2	SV	0	0	0	0	0	0	7	26	9	0	1	0	15	26	0	0	0	0	1	1	0	0	0	0	75	83	83	83
wu wa ri, <mark>23 Jul</mark> i		-	MCL	0	0	0	0	0	0	0	0	0	0	2	0	2	3	0	0	0	0	0	0	0	0	0	0	7	7	7	7
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i	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
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for Entec

Nationwide Data Collection

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   |   |   | 13  | 13   |
| tic Traf             | Mean                                |  |   | 13.8  | ī  
   
   
   
                                | I   | 13.5   | I   | I   | I  | I   | I  | T  | T  
   | 13.5  | 12.9   | 12.3   | T   | I   | i.   | I  
  | I  | 9.4  | I   | I   | I  | 7.7   
   | 12.9  | 12.6  | 12.1  | 12.5   |
| Automa               | >SL2%                               | 35   | DfT   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
  | 0  | 0  | 0   | 0   | 0  | 0   
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| -                    | >SL2                                | 35   | DfT   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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|                      | SL1%                                | 24   | <b>VCPO</b>   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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|                      |                                     | 12   | DR  | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
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  | 0  | 0  | 0   | 0   | 0  | 0   
   | 0   | 0   | 0   | 0  |
|                      |                                     | 7  | BD  | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
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|                      |                                     | 10   | ART   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
  | 0  | 0  | 0   | 0   | 0  | 0   
   | 0   | 0   | 0   | 0  |
|                      |                                     | 6  | ART5  | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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|                      |                                     | 8  | ART4  | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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|                      | fication                            | 7  | ART3  | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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| )                    | Classi                              | 9  | T4  | 0   | 0  
   
   
   
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   | 0   | 0   | 0   | 0  |
|                      |                                     | 2  | TB3   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 1  | 0  | 0   | 0   | 0  | 0  
  | 0  | 1  | 0   | 0   | 0  | 0   
   | -   | 2   | 2   | 2  |
|                      |                                     | 4  | TB2   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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|                      |                                     | e  | SVT   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 0   | 0  | 0  | 0   | 0   | 0  | 0  
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| ay<br>10 2010        | •                                   | 2  | SV  | 2   | 0  
   
   
   
                                | 0   | 2  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
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| Two wa<br>sat, 24 Ju |                                     | -  | MCL   | 0   | 0  
   
   
   
                                | 0   | 0  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
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| ,                    | Total                               |  |   | 2   | 0  
   
   
   
                                | 0   | 2  | 0   | 0   | 0  | 0   | 0  | 0  | 0  
   | 2   | 5  | 2  | 0   | 0   | 0  | 0  
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| birection            | Time                                |  |   | 0000  | 0100   
   
   
   
                                | 0200  | 0300   | 0400  | 0500  | 0090   | 0700  | 0800   | 0060   | 1000   
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|                      | Direction Two way Sat, 24 July 2010 | Direction         Two way         Automatic Traffic Count           sat, 24 July 2010         sat, 24 July 2010         >S11 >S11% >S12 >S12% Mean         Vpp | Direction       Two way         sat, 24 July 2010       Classification       >       >       >       >       >       >       >       Automatic Traffic Count         Time       Total       1       2       3       4       5       6       7       8       9       10       11       12       20       20       24       24       35       35       85 | Direction       Two way         sat, 24 July 2010       Automatic Traffic Count         Image       Total       Total       Set, 24 July 2010         Mocl       SV       SV       S5       6       7       8       9       10       11       12       20       24       21       51%       51%       512%       Mean       Vpp         Mocl       SV       SV       TB2       TB3       T4       ARTA       ARTA | Direction       Two way         sat, 24 July 2010       Sat, 24 July 2010         Image: Sat, 24 July 2010       Sat, 24 July 2010         Image: Sat, 24 July 2010       Sat, 24 July 2010         Image: Sat, 24 July 2010       Sat, 24 July 2010         Image: Sat, 24 July 2010       Sat, 24 July 2010         Image: Sat, 24 July 2010       July 2010 <td>Direction         Two way           at, 24 July 201         Attornation           at, 24 July 201         at, 24 July 201           at, 24 July 201         at,</td> <td>Direction         Two way           Sat. 24 Junct         Two way           Sat. 24 Junct         Two way           Sat. 24 Junct         Time         Time         Time         Policity         Sat. 31 (month)         Automatication           Sat. 24 Junct         Time         Total         Sat. 3         Sat. 3&lt;</td> <td>Direction         Two way           at. 24 Juy         at. 24 Juy</td> <td>Direction         Two way           st. 24 Jug         Automatic Traffic Count           Set. 24 Jug         Automatic Traffic Count           Set. 24 Jug         Set. 24 Jug         Automatic Traffic Count           Set. 24 Jug         Set.</td> <td>Direction         Two waterial         Antical         Antical</td> <td>Direction         Turner         Image: state         State</td> <td>Direction         Turner         Indication         Automatic factore           as, 24 Jug/201         as, 24 Jug/201         as, 24 Jug/201         and and and and and and and and and and</td> <td>Diffection         Turner         Turner         State         State</td> <td>Direction         Turner         State         State</td> <td>Direction         Turne is a statistication         Part is a statisticat</td> <td>Interview         Automatic Traffic Contraction           Interview         Interview         Automatic Traffic Contraction           Interview         Automatic Traffic Contraction           Sat 21 Jug 201         Sat 21 Jug 201           Automatic Traffic Contraction           Auto</td> <td>Direction         Time         Image: image:</td> <td>Intendio         Turnet         Intendio         Antonational         &lt;</td> <td>Direction         Two way           Image         Image         Image         Sale         Sale</td> <td>Image: Decision term         Term&lt;</td> <td>Image: Territe Contractioned Site of the Si</td> <td>Involved           Involved           Involved</td> <td>Interesting transmetter         Interesting tr</td> <td>Term 2     Term 2     Term</td> <td>Intersection         Material propertion         Attract and the propertion           Attract and the propertion         Attract and the propertion         Attract and the propertion         Attract and the properiment of the properine of the properiment of the properiment of the pro</td> <td>Term Tarte Tartarte Tarte Tarte Tarte Tarte Tarte Tarte Tarte Tarte Tarte Tart</td> <td>The control of the control of</td> <td>Distributional productional producti producti productional productional productional 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Set. 24 Jug         Set. | Direction         Two waterial         Antical         Antical | Direction         Turner         Image: state         State | Direction         Turner         Indication         Automatic factore           as, 24 Jug/201         as, 24 Jug/201         as, 24 Jug/201         and | Diffection         Turner         Turner         State         State | Direction         Turner         State         State | Direction         Turne is a statistication         Part is a statisticat | Interview         Automatic Traffic Contraction           Interview         Interview         Automatic Traffic Contraction           Interview         Automatic Traffic Contraction           Sat 21 Jug 201         Sat 21 Jug 201           Automatic Traffic Contraction           Auto | Direction         Time         Image: | Intendio         Turnet         Intendio         Antonational         < | Direction         Two way           Image         Image         Image         Sale       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Automatic 1	>SL2% Me	35	DfT	0	0	0	0	0	0	0	0	0	0	0 5	0	0	0	0	0	0	0	0	0	0	0	0	6 0	0 5	0 5	9 0	0 6
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>PSL%	20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>PSL	20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-		10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 20623		6	ART5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		8	3 ART <sup>2</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sification	7	ART	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
)	Clas	9	3 T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	2		SV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vay 5 Iuly 20		2	SV	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	-	1	°	c
		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tota			0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	2	7	7	6	6
Direction	Time			0000	0100	0200	0300	0400	0200	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

Nationwide Data Collection for Entec

& Telford	c Count		Vpp	85		1						19.7	18.3	'	1			'		1	17.2	22.8	,	ı	1	1	1	ı	ı	19.9	19.9	19.9
icester 8	utic Traffi		Mean			ī				1		12.9	16.6	13.2	10.5	ī		10.3	9.7	8.9	13.5	18.2	ı	8.7	I.	i	I.	·	ı	15.5	15.3	15.3
865 / B	Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL1%	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.6	0	0	0	0	0	0	0	5.1	4.6	4.6
			>SL1	24	ACPO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	6	6
			>PSL%	20		0	0	0	0	0	0	15.4	9.4	0	0	0	0	0	0	0	5	40.9	0	0	0	0	0	0	0	18.6	18.3	18.3
			>PSL	20		0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	1	18	0	0	0	0	0	0	0	22	24	24
				12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC7UC	CZ002			6	<b>ART5</b>	0	0	0	0	0	0	0	١	۱	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
	04060			8	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- NDC		ication	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200			Classif	6	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( + +				വ	TB3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	۱	0	0	0	0	0	2	2	2
+V	1029' AI			4	TB2	0	0	0	0	0	0	0	3	2	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	11	11	1
	בסכ	10		°	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	vay	6 July 20		7	SV	0	0	0	0	0	0	13	27	3	-	0	0	0	4	4	16	40	0	0	0	0	0	0	0	95	108	108
2 Dianost	Two w	Mon, 2		-	MCL	0	0	0	0	0	0	0	0	-	0	0	0	2	0	-	1	3	0	0	0	0	0	0	0	∞	∞	∞
			Total			0	0	0	0	0	0	13	32	7	-	0	0	2	4	7	20	44	0	-	0	0	0	0	0	118	131	131
Site	Direction		Time			0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90

for Entec Nationwide Data Collection

19.9

15.3

4.6

18.3

∞

00-00

Dir Dir

2 Bicester Gate D access, Att Two way	er Gate D access, Att ay	D access, Att	ess, Att		- stop si	ign, OS	GR: SP	59543 .	20623									865 / B Automa	icester & Ju ntic Traffio	Telford Ily 2010 c Count
Tue, 27 July	lul	2010																		
						Classific	cation						>PSL	% <b>TSd</b> <	LJS<	×2L1%	>SL2	>SL2%	Mean	Vpp
1 2	2		e	4	വ	9	7	ω	6	10	11	12	20	20	24	24	35	35		85
MCL SV	SV		SVT	TB2	TB3	T4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	,
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0 7	2		0	0	٦	0	0	0	0	0	0	0	1	12.5	0	0	0	0	15.2	
1 3	3	8	0	4	0	0	0	0	2	0	0	0	7	15.6	0	0	0	0	16	19.7
0 4	4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.8	1
0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.4	1
0	7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.4	
-	()	~ .	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	
0		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.3	I
0	2,	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.1	I
~		4	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	ı
4		23	0	3	0	0	0	0	1	0	0	0	6	19.4	1	3.2	0	0	15.1	20.1
2		32	0	1	0	0	0	0	0	0	0	0	6	25.7	L	2.9	0	0	16.8	21
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	ī
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	ı
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	ı
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	ī
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	I
6 1	_	14	0	10	0	0	0	0	8	0	0	0	22	16.2	2	1.5	0	0	14.9	19.9
9	-	21	0	10	-	0	0	0	3	0	0	0	23	16	2	1.4	0	0	14.9	19.9
9	-	21	0	10	-	0	0	0	S	0	0	0	23	16	2	1.4	0	0	14.9	19.9
9	-	21	0	10	-	0	0	0	3	0	0	0	23	16	2	1.4	0	0	14.9	19.9

Nationwide Data Collection for Entec

865 / Bicester & Telford

Site

lford 2010 ount	ſ	dd	35		,						6.3	0.1	5.7							15	2.8	0	0	0	0	0	0	0	0.4	0.1	0.1	1
r & Te July : Iffic Co		> _									-	2	1								2								2	2	2	2
siceste atic Tra		Meal			'	'				'	12.9	18.1	14	7.7		9.6	7.2	6	13.3	10.3	18.5	0	0	0	0	0	0	0	14.7	14.4	14.4	14.4
865 / E Automá		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
	-	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
	-	•SL1%	24	ACPO	0	0	0	0	0	0	0	2.7	0	0	0	0	0	0	0	3.2	10	0	0	0	0	0	0	0	4.1	3.6	3.6	3.6
	-	>SL1 >	24	CPO /	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	-	4	0	0	0	0	0	0	0	9	6	6	9
	-	SL%	20	A	0	0	0	0	0	0	0	24.3	0	0	0	0	0	0	0	3.2	12.5	0	0	0	0	0	0	0	18.6	16.4	16.4	6.4
	-	PSL >F	50		0	0	0	0	0	0	0	5 6	0	0	0	0	0	0	0	-	17 4	0	0	0	0	0	0	0	1 1 <u>1</u>	27 1	27 1	7 7
		<u>×</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Т																	·											
			12	DR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
			7	BC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
			10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
20623			6	<b>ART5</b>	0	0	0	0	0	0		L	Ļ	0	0	0	0	0		с	0	0	0	0	0	0	0	0	9	L	7	7
59543			8	ART4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	-
GR: SP		cation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ign, OS		Classifi	9	Τ4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	1	1	1	-
- stop s			5	TB3	0	0	0	0	0	0	0	0	0	0	0	0	0	ю	0	0	0	0	0	0	0	0	0	0	3	3	3	
ss, Att			4	TB2	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	8	8	8	~
) acce			с	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
· Gate I y	uly 2010		7	SV	0	0	0	0	0	0	18	33	6	4	0	2	2	5	2	20	35	0	0	0	0	0	0	0	112	130	130	130
icester wo wa	led, 28 J		-	MCL	0	0	0	0	0	0	-	0	0	4	0	0	0	-	0	Ð	4	0	0	0	0	0	0	0	14	15	15	15
ц Ц Ш Ц	\$	Total			0	0	0	0	0	0	20	37	13	ω	0	2	2	6	с	31	40	0	0	0	0	0	0	0	145	165	165	165
tion		me			000	100	200	300	400	500	600	700	800	006	000	100	200	300	400	500	600	700	800	006	000	100	200	300	1-19	5-22	00-9	00-0
Site Loca Direc		F			Õ	0	0	Ö	Ó	Ö	Ó	0	Ő	Ō	1	-	-	, -	Ļ.		Ļ	-	-	Ļ	2	2	2.	2	0	96	06	C

for Entec

Nationwide Data Collection

865 / Binastar & Talford

Location Direction		Biceste Two wi	er Gate av	D accé	ess, Att	- stop s	iign, OS	GR: SP	59543	20623									Automa	JL tic Traffic	uly 2010 c Count
		Virtual D	'ay (7)																		
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	ĸ	4	D	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	ART5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.8	
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.1	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.5	
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0090	ω	0	8	0	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	12.7	
0700	26	0	22	0	2	0	0	0	0	-	0	0	0	4	14.4	0	0.6	0	0	16.5	19.9
0800	9	0	£	0	-	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0	14	1
0060	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.7	1
1000	2	0	-	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
1100	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
1200	4	-	З	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.1	
1300	7	-	9	0	0	0	0	0	0	0	0	0	0	0	6.1	0	2	0	0	13.7	1
1400	с	0	2	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	ı
1500	14	2	10	0	-	0	0	0	0	-	0	0	0	-	10	0	2	0	0	12.5	18.1
1600	23	2	21	0	1	0	0	0	0	0	0	0	0	7	30.4	2	8.1	0	0	17.2	21.9
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	ı
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.4	1
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.4	I
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	I
2100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	ı
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	ı
2300	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.8	I
07-19	88	9	71	0	8	1	0	0	0	2	0	0	0	13	14.4	2	2.7	0	0	14.8	19.9
06-22	97	7	79	0	8	1	0	0	0	2	0	0	0	13	13.6	2	2.5	0	0	14.6	19.7
00-90	67	7	62	0	8	2	0	0	0	2	0	0	0	13	13.5	2	2.5	0	0	14.6	19.7
00-00	98	7	80	0	8	2	0	0	0	2	0	0	0	13	13.4	2	2.5	0	0	14.6	19.7

Nationwide Data Collection for Entec

## 865 / Bicester & Telford

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Site

c Count	March	vpp 85	2	19.9	19.9	20.1	19	18.6	13.9		19.5	19.7	19.7	Aean 5 %ile - PSL % - SL1 % - SL2 %
ic Iraffic		Mean		15.3	14.9	14.4	14.6	14.5	12.5	6.6	14.7	14.6	14.6	
utomat		>>L2%	DfT	0	0	0	0	0	0	0	0.0	0.0	0.0	5 Day Ave.
4		>>LZ 3.5	DfT	0	0	0	0	0	0	0	0	0	0	Sun
	140/	>>L1%	ACPO	4.6	1.4	3.6	1.6	-	0	0	2.3	2.5	2.5	Fri
	5	>>L1	ACPO	9	2	6	2	-	0	0	3	2	17	Wed
		>PSL%		18.3	16	16.4	9.8	6	0	0	13.5	13.4	13.4	Tue Mon
		>PSL 20	2	24	23	27	12	6	0	0	18	13	92	○ 1 5 3 4 2 0 0 0 0 0 0 0 10 10 10 10 10 10 10 10 1
		13	DRT	0	0	0	0	0	0	0	0	0	0	DRT BD ART6 ART5 ART3 ART3 ART3 TB2 TB3 TB2 SVT SVT SV MCL
		;	BD	0	0	0	0	0	0	0	0	0	0	
		9	ART6	0	0	0	0	0	0	0	0	0	0	7 Day Ave.
		σ	ART5	2	3	7	-	0	0	0	3	2	13	5 Day Ave.
		α	ART4	0	0	-	0	0	0	0	0	0	1	Sun
			ART3	0	0	0	0	0	0	0	0	0	0	Sat
			14	0	0	-	-	0	0	0	0	0	2	Fri
		۲ 	Č TB3	2	-	ę	-	с	2	0	2	2	12	Thu -
		4	TB2	11	10	ω	11	7	0	9	6	8	53	Wed
		~	SVT	0	0	0	0	0	0	0	0	0	0	Tue
väy Week (1)		- -	s '	108	121	130	102	83	13	c	109	80	560	Mon
Virtual		-	MCL .	œ	6	15	7	7	0	0	6	7	46	No. of Vehicles
	Tabel	lotal		131	144	165	123	100	15	6	133	98	687	
Direction		e		Mon	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	Summary Graphs

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 c Co		30 - 1	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster å J Traffi		25 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Bice natic		120 - 1	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Auton		15 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 - 1	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 - 1	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm	- 0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bins (	5 - 7	02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	peed	9 - 0	г. Г	0	С	0	0	0	0	0	0	0	0	С	C	C	С	0	C	0	C	C	C	0	C	C	С	0	0	0	0
ŝ	S	- 00	9	-	(	-		-		-	-	0	-	(	(	(	(	-	0		(	(		-		(	(		-	_	_
2062		- 55	9	0	0						0	0		)	)	)	)		0	0	0	)	0	0	0	)	0	0			
59543		- 50	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R: SP		- 45	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSG		- 40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,		35 .	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s, Att		25 -	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٦	0	0	0	0	0	0	0	1	1	-	-
ccess		20 -	25	0	0	0	0	0	0	0	4	~	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	11	11	1	1
e D a		15 -	20	0	0	0	0	0	0	с	21	7	0	0	0	0	0	0	-	15	0	0	0	0	0	0	0	44	47	47	47
Gate y ly 2010		10	15	0	0	0	0	0	0	4	8	4	0	0	0	0	0	4	4	17	0	0	0	0	0	0	0	37	41	41	41
ester o way <mark>, 22 Jul</mark>		2	10	0	0	0	0	0	0	2	33	-	0	١	0	0	0	0	10	5	0	0	0	0	0	0	0	20	22	22	22
2 Bic Tw(	_	0	വ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-
	Tota			0	0	0	0	0	0	6	36	13	0	-	0	0	0	4	18	42	0	0	0	0	0	0	0	114	123	123	123
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
& Tell uly 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ster J Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
/ Bice natic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
865 Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		85 -	06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	(hdm)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	d Bins	65 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Spee	- 09	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
523		55 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
43 206		50 -	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
P 595.		45 -	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GR: S		40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ju, OS		35 - 7	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
op sic		- 0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Att - st		12 - S	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ess, A		0 - 2	25	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	9	6	6	6	
) acc		15 - 2	20	0	0	0	0	0	0	0	17	3	0	0	0	6	19	0	0	0	0	0	0	0	0	0	0	48	48	48	48	
ate [		10 -	15	0	1	0	0	0	0	2	10	4	0	1	0	9	6	0	0	0	0	1	0	0	0	0	1	28	30	31	32	
ster G way July 20		5 -	10	0	0	0	0	0	0	4	0	-	0	0	0	4	1	0	0	0	0	0	-	0	0	0	0	9	11	1	1	
2 Bices Two v Fri, 23		- 0	വ	0	0	0	0	0	0	-	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	S	
	Total			0	-	0	0	0	0	7	30	8	0	3	0	19	29	0	0	0	0	1	1	0	0	0	1	06	98	66	100	
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00	

for Entec

Nationwide Data Collection



ford	on			135 - 140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
& Tel	fic Co			130 - 135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ester	c Traf			125 - 130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
/ Bic	matio			120 - 125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
865	Auto			115 - 120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				110 - 115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				100 105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				95 - 100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				90 - 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				85 - 90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				80 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(	75 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			qdm)	70 - 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			d Bins	65 - 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Spee	60 - 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ç	2.5			55 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3 200			55 <u>5</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7060			5 - 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- C - C	קע : אך דע			15 - 4 15 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1, Usu			- 0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	C	C	0	0	0	C	0	0	0	
5 				4 <u>3</u> E		0										•	•	0				0	0	0	0		-	0	-	-	-		
( + -	016 - 1			30 - 30	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
+ <	55, AI			- 25 5 3(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				; 0 2 2 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	0	0	0	0	0 (	0	0	0	
( +	с е	10		) - 15 5 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0		0	0	0	0	0	3 3	
( ( }	מא מא	uly 20 <sup>-</sup>		- 10		0	0	0	0	0	0	0	0	0	0	7 (	3	0	0	0	0	0	0	0	0 0	0	0	0	5 (	-	0, 0	2	
(+) () ()		at, 24 J		5 - 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	) (	. 0	) (	0	0	0	) 0	0	0	0	
	ם ∟	Š	tal	0	2	С	C	2	C	C	C	С	С	C	C	Ż	10	2	C	C	C	C	C	1	C	0	C	_	6	0	-	2 2	
			To															• •					)	•	)	0				-	-	-	
Site Location	Direction		Time		0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00	



for Entec Nationwide Data Collection

ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telì July 2 ïc Cc		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester J : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	l Bins	55 - J	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Speed	- 00	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		5 - 6	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 206		0 - 5	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5954		5 - 5	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SF		0 - 4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, OSC		5 - 40	0 4	0	0	0	0	0	0	0	0	0	0		C	0	0	0	0	0	0	0	C	0	0	0	C	(	0	0	-
p sigr		- 35	5 4	0	0	0	0	0	0	0	0	0	0	•	0	) (		0	0	0	0	0	)			0	•	•	-	-	_
t - sto		- 30	0 3	0		0										) (	0						)	0	5				5	-	
ss, At		- 25	5 3(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ассе		- 20	0 2!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
te D ;		15	5 2(	0	0	C	0	0	0	0	0	0	0	1	0	) C	0	0	0	0	0	0	C C	0	0	0	0	1	-	-	-
∋r Ga ay <mark>Iuly 20</mark>		- 10	0	) (		0		0	0	0	0	0	0		) (	) (	0	0	0	0	0	0	) (	0	5	0	-	1	5	2	2
icesté vo wä <b>in, 25 J</b>		) - 5	5 1	0	0	0	0	0	0	0	0	0	0	5	0	) (	0	0	0	0	0	0	) (	0	0	0	0	5	5	5	2
∼¤∠ <mark>S</mark>	tal	0		C	- -	) C	C		- -	- -	C	C	- -	2	C	) C	- -	C		C	C	C	C	- -	- -	C	5	2	~		6
	To															0	0						)	0	0				-~	5.	<u> </u>
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

### for Entec Nationwide Data Collection

NDC

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster å J Traffi		125 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice natic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 <i>i</i> Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 - `	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 - 1	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm	-0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bins (	5 - 1	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	peed	9 - 0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	S	90 - 90	۶ و	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	-
2062		- 25	9	0	0	0		-		-	-	0	-	)	-	0	)	-	0	0	0	)	0	0	0	)	0	0	-		
59543		- 50	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R: SP		- 45	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSG		- 40	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
o sign		- 35	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop		- 30	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s, Att		- 25	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	3	3	3 C
Icces		- 20	25	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	-	15	0	0	0	0	0	0	0	19	21	21	21
е D <i>а</i>		- 15	20	0	0	0	0	0	0	2	21	2	0	0	0	0	0	0	4	14	0	0	0	0	0	0	0	41	43	43	43
r Gat 1y July 20		- 10	15	0	0	0	0	0	0	9	8	4	-	0	0	-	2	~	13	6	0	0	0	0	0	0	0	39	45	45	45
ceste 10 W2 11, 26 -		ں م	2	0	0	0	0	0	0	0	0	-	0	0	0	-	) 2	9	0 2	2	0	1	0	0	0	0	0	15	15	15	12
2 Tv Mo	al	0	ц	0	0	0	0	0	0	(r) (r)	0	0	0	C	0	0	C	0	C	1	U	С	C	C	С	С	С	8 1	1 4	1 4	1 4
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Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0200	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf July 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester J : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice natic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 . Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 0/	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bins (	2 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	beed	0 - 6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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OSG		- 40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,		35 .	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- stop		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, Att -		25 -	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	١	-	-	-
ccess		20 -	25	0	0	0	0	0	0	-	7	0	0	0	0	0	0	0	9	8	0	0	0	0	0	0	0	21	22	22	22
b ac		15 -	20	0	0	0	0	0	0	4	24	-		0	0	-	0	0	6	13	0	0	0	0	0	0	0	49	53	53	53
Gate / y 2010		10 -	15	0	0	0	0	0	0	с	11	с	0	-	0	2	0	4	12	8	0	0	0	0	0	0	0	41	44	44	44
ester o way 27 July		2	10	0	0	0	0	0	0	0	3	0	0	-	٢	0	2	2	4	4	0	0	0	0	0	0	0	20	20	20	20
2 Bic <del>(</del> Twc		- 0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	-	0	0	0	0	0	0	0	4	4	4	4
	Tota			0	0	0	0	0	0	ω	45	4	-	2	4	3	2	9	31	35	0	0	0	0	0	0	0	136	144	144	144
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	01-19	06-22	00-90	00-00

for Entec Nationwide Data Collection

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ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Teli Iuly 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester J : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice natic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bins (	- 2	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	peed	9 - 0	<u>.</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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9543		- 50	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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DSGR		40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign, 0		35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stop s		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Att -		25 -	30	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	-	3	0	0	0	0	0	0	0	5	5	5	5
cess,		20 -	25	0	0	0	0	0	0	0	œ	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	22	22	22	22
Dac		15 -	20	0	0	0	0	0	0	10	23	3	0	0	0	0	0	-	5	16	0	0	0	0	0	0	0	48	58	58	58
Gate y 2010		10 -	15	0	0	0	0	0	0	4	5	10	0	0	1	0	3	2	11	5	0	0	0	0	0	0	0	37	41	41	41
ster ( way 28 Jul		2	10	0	0	0	0	0	0	9	0	0	7	0	L	2	9	0	8	2	0	0	0	0	0	0	0	25	31	31	31
2 Bice Two Wed,		- 0	2	0	0	0	0	0	0	0	0	0	-	0	0	0		0	9	0	0	0	0	0	0	0	0	8	8	8	∞
	Total			0	0	0	0	0	0	20	37	13	ω	0	2	2	6	с	31	40	0	0	0	0	0	0	0	145	165	165	165
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

Nationwide Data Collection for Entec

ord 10		35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, Telfi Jly 2( Co		30 - 1	35 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster & Ju Iraffic		25 - 1;	30 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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865 /   utom		12 - 12	20 1:	) (	0	0	0	0	0	0	0	0	0	) (	0	0	0	0	0	) (	) (	0	0	0	) (	0	) (	) (	) (	0	0
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	ed Bir	- 29	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Spe	- 09	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
623		55 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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P 595		- 51	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SI		- 0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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r Gat iy <mark>iy (7)</mark>		- 10	15	0	0	0	0	0	0	3	9	4	0	0	0	2	2	2	9	9	0	0	0	0	0	0	0	27	1 30	30	31
Cestel 'O Wa		20	10	0	0	0	0	0	0	2	-	0	<del>.</del>	0	0		2	<del>.</del>	3	2	0	0	0	0	0	0	0	12	14	15	15
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	Totá			0	0	0	0	0	0	8	26	9	-	2	-	4	7	с	14	23	0	0	0	0	0	0	-	88	97	67	98
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

126-1400 130-132 13	19-20-2000       19-20-1       20-1 </th <th></th> <th></th> <th></th> <th>(</th> <th>1</th> <th></th> <th>•</th> <th></th> <th>86</th> <th>o / Bio</th> <th>ceste</th> <th>r &amp; <u> </u></th> <th>ltord</th>				(	1		•																			86	o / Bio	ceste	r & <u> </u>	ltord
1         0	1:1:       1:1::       1:1:::       1:1::: <td>Bicester Gate Two way</td> <td>Bicester Gate Two way</td> <td>ter Gate vav</td> <td>et e</td> <td></td> <td>acce</td> <td>ess, At</td> <td>t - sto</td> <td>p sigr</td> <td>, USC</td> <td>ik: SF</td> <td>5954</td> <td>3 206</td> <td>23</td> <td></td> <td>Auto</td> <td>omat</td> <td>ic Ira</td> <td>July ffic C</td> <td>2010 ount</td>	Bicester Gate Two way	Bicester Gate Two way	ter Gate vav	et e		acce	ess, At	t - sto	p sigr	, USC	ik: SF	5954	3 206	23												Auto	omat	ic Ira	July ffic C	2010 ount
0         0	Speed Birs (mb)         Speed Birs	Virtual Week (1)	Virtual Week (1)	Week (1)	7																										
10       0	1:       0: <td< td=""><td>otal</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Speed</td><td>d Bins</td><td>(hdm)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	otal														Speed	d Bins	(hdm)													
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a       a	0       0	165         8         31         41	8 31 41	31 41		2	00	2			6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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135 - 140 130 - 135 125 - 130 120 - 125 115 - 120 110 - 115 105 - 110 100 - 105 95 - 100 90 - 95 85 - 90 80 - 85 75 - 80 70 - 75 <b>sell</b> 60 - 65 55 - 60 55 - 70 <b>eds</b> 55 - 70 40 - 45 35 - 50 40 - 45 35 - 40 30 - 35 25 - 30 20 - 25 15 - 20 10 - 15 5 - 10	135 - 140       Ione of the second seco					-	_			_	_	-	-	_	-	-	_	_	_		-	-	-	-	_	-	_	_			
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#### 865 / Bicester & Telford July 2010 Automatic Traffic Count

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85%ile Speed	24.4	23.5	23.9
Mean Speed	20.2	19.9	20.0
%. > DfT Limit.	0.0	0.0	0.0
No. > DfT Limit.	0	-	L
%. > ACPO Limit.	18.2	13.1	15.6
No. > ACPO Limit.	506	369	875
%. > Speed Limit.	53.5	50.2	51.8
No. > Speed Limit.	1486	1418	2904
7 Day Ave.	397	404	801
5 Day Ave.	521	530	1051
Total Vehicles.	2780	2827	5607
End Date.	Wed, 28 July 2010	Wed, 28 July 2010	Wed, 28 July 2010
Start Date.	Thu, 22 July 2010	Thu, 22 July 2010	Thu, 22 July 2010
Speed Limit - PSL (mph)	20	20	20
Direction.	East	West	Two way
Location.		Bicester Gate E access, Att - barrier warning sign, OSGR: SP 58936 21097	
Site No.		-	

Nationwide Data Collection for Entec

k Telford uly 2010	c Count		Vpp	85								25.7	24.8	22.8	22.4	21.7	22.4	24.2	22.8	23.3	24.6	24.6	25.3	25.5			22.6	20.1		24.2	24.2	23.9	24.2
icester & Ju	tic Traffi		Mean			23.5	20.9	17.8	22.5	20.1	19.6	21.4	20.9	19.3	19.5	18.4	19.9	20.9	20.3	19.4	20.5	21.1	21.2	20.5	19	22.7	20.2	17.4	18.5	20.2	20.3	20.2	20.2
865 / B	Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL1%	24	ACPO	50	25	33.3	33.3	0	16.7	29.4	26.7	3.8	16.1	6.5	8.3	16	13.2	12.1	20.4	21.1	24	26.7	0	40	8.3	0	0	15.8	16	15.6	16.1
			>SL1	24	ACPO	2	-	-	2	0	-	2	4	-	2	2	4	12	5	7	1	19	9	4	0	2	١	0	0	80	88	88	95
			>PSL%	20		100	50	33.3	83.3	66.7	33.3	64.7	53.3	46.2	41.9	35.5	50	66.7	55.3	43.1	61.1	66.7	68	53.3	33.3	60	58.3	21.4	0	55.7	55.7	54.8	55.1
			>PSL	20		4	2	-	5	2	2	11	ω	12	13	11	24	50	21	25	33	09	17	8	с	с	7	ę	0	282	306	309	325
				12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79				1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
936 210				10	ART6	0	0	0	0	0	0	0	0	0	-	2	2	1	0	2	2	0	0	0	0	0	0	-	0	10	10	11	11
R: SP 58				6	<b>ART5</b>	0	0	-	0	-	ę	ę	Ð	4	с	7	4	0	ω	Ð	с	1	2	2	-	0	2	2	1	44	50	53	58
n, OSGI				8	ART4	0	0	0	0	0	0	0	0	0	-	~	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
ıpis guir	)		ification	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ier warr			Class	9	T4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
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Site Location	Directio		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
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Nationwide Data Collection for Entec

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k Telford uly 2010 c Count		Vpp	85								23.5	24.6	21	23.5	25.5	25.3	23.9	23.3	26.4	23.7	27.1	23.3	I	I	·	24.8	ı	ı	24.8	24.8	24.8	24.8
cester 8 ار tic Traffi		Mean			22.8	20	21.4	23.2	16.9	19.7	18.9	21.1	17.7	19.3	20.9	21	20.4	18.6	22.1	20.8	21.7	21.1	21.4	19.5	22.2	22.9	16.2	19.4	20.2	20.2	20.2	20.2
865 / Bi Automa		>SL2%	35	DíT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С
		>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
		>SL1%	24	ACPO	0	0	33.3	33.3	20	33.3	6.7	30.8	3.3	13.2	24.3	26.5	15.9	12.5	42.3	15.8	41.4	11.1	30	22.2	0	38.5	0	0	20.2	20.2	19.8	20
		>SL1	24	ACPO	0	0	2	-	-	2	-	4	-	5	6	6	7	8	11	6	12	2	3	2	0	Ð	0	0	77	85	85	91
		PSL%	20	<u> </u>	100	50	66.7	100	20	33.3	33.3	53.8	36.7	34.2	54.1	61.8	63.6	46.9	65.4	65.8	65.5	55.6	09	44.4	100	92.3	14.3	50	54.3	54.9	54.2	54.2
		< IS4	20		2	-	4	с	-	2	£	7	11	13	20	21	28	30	17	25	19	10	9	4	3	12	1	-	207	231	233	246
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2			1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 21097			10	ART6	0	0	0	0	0	0	0	0	-	0	1	-	0	0	0	0	0	0	1	0	0	0	0	0	4	4	4	4
SP 5893			6	ART5	-	0	-	0	0	с	4	2	4	7	5	0	-	3	3	-	с	0	1	2	0	с	2	0	30	39	41	46
OSGR:			8	ART4	0	0	0	0	0	0	0	-	0	0	2	-	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4
ıg sign,		ation	7	<b>ART3</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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er Gate	ly 2010		2	SV	-	2	с	с	с	2	9	Ð	14	17	20	17	37	51	16	32	17	14	8	9	2	ω	2	2	248	270	274	288
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e cation ection		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
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865 / B Automa	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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7		1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 2109		10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3P 5893		6	<b>ART5</b>	0	0	0	-	0	0	١	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	4	5	5	6
SGR: S		8	RT4 /	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	-	1
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er Gate uly 2010		2	SV	2	١	<del>.                                    </del>	4	2	7	0	4	-	3	5	4	11	7	6	9	10	2	0	0	2	0	2	2	62	64	68	85
1 Biceste East Sat, 24 J		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	0	0	0	0	0	0	0	2	2	2	2
-	Total			2	2	2	5	2	7	2	5	2	3	7	6	12	8	12	6	11	2	0	0	2	2	2	2	80	86	06	110
te ocation irection	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
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Nationwide Data Collection

Site Location Direction		1 Biceste East Sun, 25 J	sr Gate   uly 2010	Eacce	ss, Att -	. barrie	r warnir	,ng sign,	OSGR:	SP 589	36 2109	Ţ							865 / Bi Automa	cester & Ju tic Traffic	Telford Ily 2010 : Count
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	с	4	2	9	7	8	6	10	11	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>A</b> RT3	ART4	<b>A</b> RT5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0100	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.6	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0090	с	0	2	0	-	0	0	0	0	0	0	0	0	2	66.7	0	0	0	0	21.2	
0700	4	0	-	0	2	0	0	0	0	-	0	0	0	2	50	-	25	0	0	19.6	
0800	2	0	-	0	-	0	0	0	0	0	0	0	0	2	100	0	0	0	0	22.5	
0060	7	0	ъ	0	2	0	0	0	0	0	0	0	0	7	100	4	57.1	0	0	25.5	
1000	2	0	5	0	0	0	0	0	0	0	0	0	0	4	80	4	80	0	0	25.2	
1100	7	0	6	0	-	0	0	0	0	0	0	0	0	5	71.4	3	42.9	0	0	23.1	ı
1200	4	0	4	0	0	0	0	0	0	0	0	0	0	4	100	1	25	0	0	24.3	
1300	-	0	-	0	0	0	0	0	0	0	0	0	0	-	100	-	100	0	0	25.9	
1400	4	0	2	0	2	0	0	0	0	0	0	0	0	З	75	2	50	0	0	24.2	
1500	പ	0	с	0	-	0	0	0	0	0	-	0	0	ę	60	2	40	0	0	21.1	
1600	10	0	6	0	0	0	0	0	0	1	0	0	0	8	80	5	50	0	0	22.7	•
1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		ı
1800	3	0	2	0	٦	0	0	0	0	0	0	0	0	1	33.3	0	0	0	0	18.4	ı
1900	۲	0	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.9	ı
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ţ	ı
2100	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17.5	ı
2200	5	0	2	0	2	0	0	0	0	٦	0	0	0	2	40	1	20	0	0	20.6	ı
2300	٦	0	1	0	0	0	0	0	0	0	0	0	0	1	100	0	0	0	0	20.7	ı
07-19	52	0	39	0	10	0	0	0	0	2	1	0	0	40	76.9	23	44.2	0	0	23	27.1
06-22	58	0	43	0	11	0	0	0	0	3	1	0	0	42	72.4	23	39.7	0	0	22.6	27.1
00-90	64	0	46	0	13	0	0	0	0	4	-	0	0	45	70.3	24	37.5	0	0	22.4	27.1
00-00	65	0	47	0	13	0	0	0	0	4	1	0	0	45	69.2	24	36.9	0	0	22.3	27.1

NDC

Site Location Direction		1 Bicesté East	er Gate I	Eacce	ss, Att -	barrier	warnir	ıg sign,	OSGR	SP 589	36 2109	Ĺ							865 / B Automa	icester & Ju tic Traffic	Telford Ily 2010 : Count
Time	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	ę	4	ъ	Ŷ	7	œ	6	10	11	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	Τ4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	2	0	~	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	15.5	,
0100	-	0	~	0	0	0	0	0	0	0	0	0	0	-	100	0	0	0	0	23.2	
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1
0300	2	0	2	0	0	0	0	0	0	0	0	0	0	-	50	-	50	0	0	17.2	1
0400	4	0	2	0	2	0	0	0	0	0	0	0	0	2	50	0	0	0	0	18.8	
0500	6	0	ę	0	с	0	0	0	0	ς	0	0	0	с	33.3	-	11.1	0	0	19.5	1
0090	6	0	4	0	-	0	0	0	0	-	0	0	0	4	66.7	ς	50	0	0	22.2	
0700	18	0	9	0	6	0	0	0	0	5	-	0	0	6	33.3	ς	16.7	0	0	19.8	22.8
0800	22	0	7	0	6	0	ю	0	-	-	-	0	0	Ð	22.7	0	0	0	0	17.4	20.4
0060	28	0	17	0	6	0	0	0	-	4	0	0	0	19	67.9	2	17.9	0	0	20.7	24.2
1000	31	0	11	0	10	-	-	0	0	7	0	0	-	16	51.6	2	6.5	0	0	19.1	21.5
1100	38	0	15	0	13	0	0	0	0	9	4	0	0	13	34.2	4	10.5	0	0	18.4	22.8
1200	44	3	25	1	10	0	0	0	0	5	0	0	0	23	52.3	9	13.6	0	0	19.2	23.3
1300	36	-	17	0	10	0	-	0	0	9	-	0	0	11	30.6	4	11.1	0	0	18.6	23.3
1400	29	-	14	0	7	0	0	0	0	7	0	0	0	11	37.9	4	13.8	0	0	19.7	23.7
1500	46	4	34	0	Ð	0	2	0	0	-	0	0	0	14	30.4	9	13	0	0	18.5	22.8
1600	89	0	91	0	5	1	0	0	1	4	2	0	0	55	61.8	14	15.7	0	0	20.9	23.9
1700	28	3	22	0	2	0	0	0	0	1	0	0	0	22	78.6	11	39.3	0	0	22.4	25.3
1800	11	0	8	0	١	0	0	0	0	2	0	0	0	7	63.6	4	36.4	0	0	21.5	26.2
1900	10	0	5	0	4	0	0	0	0	1	0	0	0	4	40	0	0	0	0	18.6	I
2000	2	0	<del>.                                    </del>	0	-	0	0	0	0	0	0	0	0	-	50	-	50	0	0	20.7	I
2100	12	0	7	0	2	0	0	0	0	3	0	0	0	9	75	3	25	0	0	21.4	24.2
2200	6	0	7	0	-	0	0	0	0	-	0	0	0	7	77.8	e	33.3	0	0	21.6	ı
2300	5	0	1	0	2	0	0	0	0	2	0	0	0	3	60	0	0	0	0	19.9	I
07-19	420	12	252	1	84	2	7	0	3	49	6	0	1	202	48.1	63	15	0	0	19.7	23.9
06-22	450	12	269	٦	92	2	7	0	3	54	6	0	-	220	48.9	70	15.6	0	0	19.8	23.9
00-90	464	12	277	1	95	2	7	0	3	57	6	0	1	230	49.6	73	15.7	0	0	19.8	23.9
00-00	482	12	286	1	100	2	7	0	3	61	6	0	1	237	49.2	75	15.6	0	0	19.8	23.9

for Entec

Nationwide Data Collection

Site

1 Biceste East	1 Biceste East		er Gate	Eacce	ss, Att -	barrier	warnir	ig sign,	OSGR:	SP 589	36 210	Lέ							865 / B Automa	icester 8 Ju tic Traffi	k Telford Jly 2010 c Count
Tue, 27 July 2010	Tue, 27 July 2010	luly 2010													-		-				
Total							Classific	ation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
1 2 3 4	1 2 3 4	2 3 4	3 4	4		ß	9	7	œ	6	10	11	12	20	20	24	24	35	35		85
MCL SV SVT TB2 T	MCL SV SVT TB2 TI	SV SVT TB2 TI	SVT TB2 TI	TB2 TI	F	B3	T4	ART3	ART4	<b>A</b> RT5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
4 0 3 0 0	0 3 0 0	3 0 0 0	0 0	0		0	0	0	0	0	-	0	0	3	75	2	50	0	0	22.1	ı
2 0 2 0 0	0 2 0 0	2 0 0 0	0 0	0	)	0	0	0	0	0	0	0	0	2	100	0	0	0	0	21.2	
2 0 1 0 0	0 1 0 0	1 0 0	0 0	0	0		0	0	0	-	0	0	0	-	50	0	0	0	0	17.2	
7 0 5 0 1 0	0 5 0 1 0	5 0 1 0	0 1 0	1 0	0		0	0	0	-	0	0	0	9	85.7	0	0	0	0	20.5	
5 0 3 0 0	0 3 0 0	3 0 0	0 0 0	0 0	0		0	0	0	2	0	0	0	3	09	2	40	0	0	21.9	ı
6 0 1 0 2 0	0 1 0 2 0	1 0 2 0	0 2 0	2 0	0		0	0	0	с	0	0	0	2	33.3	0	0	0	0	17.5	
18         0         14         0	0 14 0 0 0	14 0 0 0	0 0 0	0	0		0	0	0	4	0	0	0	13	72.2	Ζ	38.9	0	0	21.7	25.5
17 0 5 0 7 0	0 5 0 7 0	5 0 7 0	0 7 0	7 0	0		0	0	0	4	-	0	0	ω	47.1	2	11.8	0	0	18.7	23
28 1 10 0 10 0	1 10 0 10 0	10 0 10 0	0 10 0	10 0	0		0	0	0	4	2	0	-	ω	28.6	2	7.1	0	0	16.5	22.1
28 0 16 0 8 0	0 16 0 8 0	16         0         8         0	0 8 0	8 0	0		0	0	٢	3	0	0	0	14	50	5	17.9	0	0	18.6	24.2
39 1 13 0 12 0	1 13 0 12 0	13 0 12 0	0 12 0	12 0	0		0	0	0	11	2	0	0	13	33.3	9	15.4	0	0	18.3	23.7
40 1 20 0 11 0	1 20 0 11 0	20 0 11 0	0 11 0	11 0	0		0	0	2	9	0	0	0	22	55	7	17.5	0	0	19.5	25.3
45 2 35 0 5 1	2 35 0 5 1	35 0 5 1	0 5 1	5 1	٦		0	0	0	2	0	0	0	27	60	8	17.8	0	0	19.8	24.6
57 0 38 0 14 0	0 38 0 14 0	38 0 14 0	0 14 0	14 0	0		0	0	0	5	0	0	0	27	47.4	10	17.5	0	0	19.9	24.6
28 3 17 0 5 0	3 17 0 5 0	17 0 5 0	0 5 0	5 0	0		0	0	0	2	-	0	0	16	57.1	4	14.3	0	0	20.5	23.9
46 1 34 1 6 0	1 34 1 6 0	34 1 6 0	1 6 0	6 0	0		0	0	0	4	0	0	0	23	50	8	17.4	0	0	20.2	24.4
91 1 81 0 8 0	1 81 0 8 0	81 0 8 0	0 8 0	8 0	0		0	0	0	1	0	0	0	50	54.9	6	9.9	0	0	20	23.3
24 3 17 0 2 1	3 17 0 2 1	17 0 2 1	0 2 1	2 1	-		0	0	0	-	0	0	0	14	58.3	6	25	0	0	20.4	24.8
15         1         10         0         2         0	1 10 0 2 0	10 0 2 0	0 2 0	2 0	0		0	0	0	2	0	0	0	6	40	1	6.7	0	0	18.6	22.8
5 0 3 0 0 1	0 3 0 0 1	3 0 0 1	0 0 1	0 1	-		0	0	0	-	0	0	0	2	40	0	0	0	0	19.6	
4 0 2 0 2 0	0 2 0 2 0	2 0 2 0	0 2 0	2 0	0		0	0	0	0	0	0	0	3	75	-	25	0	0	21.5	
13 1 8 0 1 0	1 8 0 1 0	8 0 1 0	0 1 0	1 0	0		0	0	0	3	0	0	0	L	53.8	2	15.4	0	0	20.3	23.5
6 0 4 0 2 0	0 4 0 2 0	4 0 2 0	0 2 0	2 0	0		0	0	0	0	0	0	0	3	50	2	33.3	0	0	20.4	ı
3 0 1 0 1 0	0 1 0 1 0	1 0 1 0	0 1 0	1 0	0		0	0	0	1	0	0	0	١	33.3	0	0	0	0	19.1	
458         14         296         1         90         2	14 296 1 90 2	296 1 90 2	1 90 2	90 2	2		0	0	3	45	9	0	-	228	49.8	68	14.8	0	0	19.5	23.9
498         15         323         1         93         3	15         323         1         93         3	323 1 93 3	1 93 3	93 3	3		0	0	3	53	9	0	-	253	50.8	78	15.7	0	0	19.6	23.9
507 15 328 1 96 3	15         328         1         96         3	328 1 96 3	1 96 3	96 3	3		0	0	с	54	9	0	-	257	50.7	80	15.8	0	0	19.6	24.2
533 15 343 1 99 3	15 343 1 99 3	343 1 99 3	1 99 3	99 3	33		0	0	3	61	7	0	-	274	51.4	84	15.8	0	0	19.6	24.2

Nationwide Data Collection

## 865 / Bicester & Telford

Site

uly 2010 c Count		Vpp	85						ı		27.1	23	23	24.2	22.6	23.7	22.8	24.2	24.4	23.3	23.9	25.9	22.4	ı	ī				23.7	24.4	24.4	24.4
l tic Traffi		Mean			22.7	20.7	22.3	23.6	16.7	20.1	23.8	20.3	19.9	20.3	18.1	19.4	19.4	20.2	19.9	18.7	20.7	21.7	20	21.3	16.7	25	22.3	18.8	19.9	20.1	20.1	20.2
Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		>SL1%	24	ACPO	33.3	0	33.3	62.5	0	30	50	15	10.7	21.9	5.6	12.8	8.8	17.8	18.5	11.3	14.9	31.3	7.7	33.3	0	70	22.2	0	14.5	16.7	16.7	17.8
		>SL1	24	ACPO	2	0	-	Ð	0	с	7	3	с	7	2	5	5	8	Ð	9	13	10	1	2	0	L	2	0	68	84	86	97
		>PSL%	20		83.3	75	66.7	87.5	0	50	85.7	09	50	43.8	33.3	35.9	40.4	48.9	51.9	41.5	64.4	65.6	46.2	50	0	80	66.7	33.3	49	50.4	50.6	51.6
		>PSL	20		5	с	2	7	0	5	12	12	14	14	12	14	23	22	14	22	56	21	9	3	0	8	9	1	230	253	260	282
			12	DRT	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	1
Lέ			11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 2109			10	ART6	0	0	0	0	0	0	-	0	0	-	2	1	3	2	0	1	0	0	0	0	0	0	0	0	10	11	11	11
SP 589			6	<b>ART5</b>	1	0	0	-	-	4	0	4	5	-	4	8	2	3	ю	3	2	0	2	1	1	0	-	1	37	39	41	48
OSGR:			8	ART4	0	0	0	0	0	0	0	0	2	-	2	0	1	2	-	0	0	0	0	0	0	0	0	0	6	6	6	6
ıg sign,		cation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
warnir		Classific	9	T4	0	0	0	0	0	0	0	0	З	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4
barrier			ß	TB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3	3	°	3
ss, Att -			4	TB2	2	-	0	2	0	2	-	6	7	6	10	7	6	12	9	5	5	0	2	0	1	١	-	0	81	84	85	92
Eacce			с	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	-	-	1
. Gate I	uly 2010		7	SV	3	ю	ю	2	0	4	12	7	11	18	17	23	40	26	16	40	77	28	6	5	1	6	7	2	312	339	348	366
Bicester East	Ved, 28 J		-	MCL	0	0	0	0	0	0	0	0	0	0	-	0	2	0	-	2	3	2	0	0	0	0	0	0	11	11	11	11
	^	Total			9	4	ю	ω	-	10	14	20	28	32	36	39	57	45	27	53	87	32	13	6	3	10	6	3	469	502	514	546
Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

865 / Bicester & Telford

<del>~</del>

Site

Nationwide Data Collection for Entec



			_																														
2 Telford	uly 2010 c Count		Vpp	85		I				T	T	25.5	24.8	22.8	24.4	23.9	23.9	24.2	24.2	24.8	24.2	24.6	25.5	ļ	ļ	ļ	I	ļ	I	24.4	24.4	24.4	24.4
icester 8	ון tic Traffi		Mean			21.6	20.5	20.3	21.7	19.6	19.9	21.4	20.3	18.3	20	19.3	19.7	20.3	19.6	20.3	19.7	20.9	21.4	20.2	19.3	21	21.7	19.8	19	20.1	20.1	20.1	20.2
865 / B	Automa		>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			>SL1%	24	ACPO	30	12.5	25	35.5	15	22.7	30.7	21.7	5.8	19.8	15.6	15.3	16.4	15.7	19	15.9	19.4	27.9	19.4	10	21.1	28.1	19.2	0	17.4	17.9	17.9	18.2
			>SL1	24	ACPO	۱	0	-	2	0	۱	с	ς	-	5	4	5	7	9	5	9	11	5	2	L	1	3	-	0	59	66	67	72
			>PSL%	20		75	62.5	56.3	80.6	50	45.5	64	51.1	38.4	49.7	44.1	47.4	59.1	47.8	51.1	49.8	63.1	65.9	50.7	40	57.9	68.8	46.2	41.2	52.7	53.3	53.1	53.5
			>PSL	20		2	-	-	4	-	3	7	7	ω	12	12	15	24	17	13	18	37	12	5	2	2	9	с	1	178	195	200	212
				12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ſ	16			11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	936 210			10	ART6	0	0	0	0	0	0	0	0	-	0	-	1	٦	0	0	-	0	0	0	0	0	0	0	0	9	9	6	9
	K: SP 58			6	<b>ART5</b>	0	0	0	0	-	2	2	с	с	с	വ	4	-	4	с	2	2	٦	L	L	0	2	-	٦	30	35	36	41
(	n, USGF			8	ART4	0	0	0	0	0	0	0	0	0	-	~	1	0	0	0	0	0	0	0	0	0	0	0	0	ŝ	3	3	ŝ
	ing sigr		fication	~	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	er warn		Classi	9	T4	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
-	i - barrie			2	TB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
	cess, At			4	TB2	0	0	-	0	-	٢	2	വ	6	7	7	6	9	ω	9	4	4	-	٢	٢	1	٦	2	0	64	69	71	75
L	e F aco			m	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	1	1	-
(	er Gate	Day (7)		7	SV	2	2	-	4	2	3	7	2	ω	13	12	17	30	23	16	28	50	15	7	3	2	9	4	1	222	241	246	259
- i	Bicest East	Virtual		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	2	1	0	0	0	0	0	0	∞	8	8	8
			Total			č	2	2	4	с	9	1	13	20	24	27	31	40	36	26	36	58	18	10	9	3	6	7	2	338	366	376	397
Site	Location Direction		Time			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00



Nationwide Data Collection for Entec

Site
Telford Ily 2010 Count		Vpp	85	03 O	24.2	24.4	24.2	24.8	26.8	27.1	24.3	24.4	24.4	lean 5%ile PSL% SL1% SL2%	or
c Traffic		Mean		10 8	19.6	20.2	20.2	20.2	22.4	22.3	20.0	20.2	20.2		Collectic f
865 / Bic utomati		>SL2%	35 DfT	5 -	0	0	0	0	0	0	0.0	0.0	0.0	7 Day Ave. 5 Day Ave.	de Data
~ <		>SL2 >	35 Dff	5 -	0	0	0	0	0	0	0	0	0	Sun	Jationwid
		>SL1%	24 ACBO	15.6	15.8	17.8	16.1	20	36.4	36.9	16.9	18.2	18.2	Fri Thu	2
		>SL1	24 ACBO	75	84	97	95	91	40	24	88	72	506	g Wed	
		>PSL%	20	0 0 1	51.4	51.6	55.1	54.2	70	69.2	52.4	53.5	53.5	Tue Mon	
		>PSL	20	737	274	282	325	246	77	45	273	212	1486	2 2 3 3 4 2 2 6 4 2 6 7 8 6 7 9 7 8 7 9 7 8 7 9 7 8 7 9 7 8 7 9 7 8 7 9 7 8 7 9 7 8 7 9 7 9	
			12 DDT	-		-	0	0	0	0	-	0	3	DRT BD ART6 ART6 ART3 ART3 ART3 T14 T14 T14 T182 SVT SVT SVT MCL	
76			11	3 <	0	0	0	0	0	0	0	0	0		
936 210			10 ADT4		, L	11	11	4	0	-	8	6	43	7 Day Ave.	
: SP 589			9 Adte		61	48	58	46	6	4	55	41	284	5 Day Ave.	
, osgr			8 A DT 4		n m	6	2	4	-	0	4	e	22	Sun	
ing sign		ication	7 ADT2		0	0	0	0	0	0	0	0	0	, Sat	
er warni		Classif	9 1	<u>t</u> ~	0	4	2	-	0	0	3	2	14	Fri	
- barrie			5		3 v	с	4	ю	0	0	3	2	15	Thu	
ess, Att			4 Car	100	66	92	102	100	16	13	66	75	522	Wed	
Eacc			3	- T		-	с	0	0	0	-	-	6	Tue	
er Gate	Neek (1)		2 7	786	343	366	399	288	85	47	336	259	1814	Mon	
1 Bicesto East	Virtual V		- U	10	15	11	6	8	2	0	11	8	57	No. of Vehicles 50 60 700 30 300 00 Vehicles 50 60 700 300 300 400 500 500 500 500 500 500 500 500 5	No.
		Total		487	533	546	590	454	110	65	521	397	2780		NDC
Site Location Direction		Time		UOM	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	Summary Graphs	

ford 2010 punt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		-	130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester . Trafi		-	125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bic		-	120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Auto		-	115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		_	95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	ċ	d Bins	65 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 210		Speed	- 0;	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893		-	2 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SP		-	- 0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, OSC		-	5 - 5	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sign		-	0 - 4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/arnin		-	5 - 4	7 0†	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rrier w		-	31	5 4	C	0	0	0	0	0	0	C	0	-	0	0	C	C	C	2	1	0	C	0	0	0	0	C	4	4	4	<b>.</b>
t - ba		-	: 30	0 3	o o	_	_	_	0	_	-	8	_	~	_	-	2	8	2		0	9	1		0	_	0	0	0	7	7	
ss, At		-	) - 25	5 3		`	`	` +	0	`	1	10	` ~	•	` o	7 0	5	8	0	5	9 1	2 5	1	<u> </u>	_	` .o	~	0	28 5	15 5	18 5	58 6
acce		-	5 - 20	0 2	с С	, C	1	1	-	` m	4	à 1	2	2	4	2 2	0 4	4 1	6 2	3 2	1 4	5 1	2 2	10	,	۶ «		1 (	72 22	36 24	93 24	01 25
tte E		-	) - <u>1</u>	5 2	0	0				-	5	. 0	2	6 1	6 1	2 2	5 2	2 1	7 2	8	9 2	2 (	2	<u> </u>	0	5	4	0	1 1	6 18	0 10	2 2(
er Ga	vz Vinc	-	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	~	0	1 5	1 5	2 6	2 6
icest( ast	. 22 'ni	-	- <sup>5</sup>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
— — ш <del> </del>		otal	<u> </u>		4	4	3	6	3	6	17	15	26	31	31	18	75	38	58	54	0ć	25	15	6	5	12	14	1	90	49	64	06
	ŀ	P														4				,	5		4						2	5	5	2
Site Location Direction	ī	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec Nationwide Data Collection

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 c Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster å J Traffi		25 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Bice natic		20 - 1	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Auton		115 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 - 1	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -   .	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		30 - 8	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5 - 8	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqn	<u>-</u> - c	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3ins (n		0	-	-	-	-	-	-	-	-	-		0				0	-	(						(	0			-	_
21097	eed E	- 65	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	C	C	0	C	C	0	0	0	0
3936 2	Sp	. 60	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SP 58		55 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGR:		50 -	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gn, C		45 -	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ing si		40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
warn		35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arrier		30 -	35	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	1	0	0	0	0	1	0	0	5	6	6	6
- tt		- <u>-</u>	30	0	0	2	0	-	-	-	2	-	3	7	9	6	3	7	с	6	2	2	1	0	1	0	0	51	54	54	58
ess, A		- 0	25	2	-	2	с	0	-	4	Ð	10	10	13	14	22	27	6	20	6	8	4	3	3	10	1	-	151	171	173	182
acce		15 - 2	20	0	-	2	0	с	с	9	2	ω	18	16	6	6	21	6	ω	6	8	4	5	0	1	3	-	121	133 .	137	146
ate E		- 01	15	0	0	0	0	0	-	4	<del>.                                    </del>	7	7	-	4	7	8	0	2	4	0	0	0	0	0	3	0	48	52	55	56
ter G		- 2 -	10	0	0	0	0	-	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4	4	4	2
1 Bicest East Fri, 23 J		- 0	ß	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	-	-
<u>_</u>	otal			2	2	6	с	2	9	15	13	30	38	37	34	44	64	26	38	29	18	10	6	3	13	7	2	381	421	430	454
	F																														
Site Locatior Directior	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ford 010 punt	ſ		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 ïc Cc		-	130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		-	125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic			120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi			115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	411 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			100 -	۲U5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	90 - 21	<del>ر</del> ب	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	- 20	ςβ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	75 - <del>2</del>	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdn	- -	c /	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
~		Bins (r		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2109		peed	' œ	ר 2	0		0	0		0	0	0	0	0	(	0	•	0	0	0	0	0	0		0		0	0	0	-	0	0
58936		s.		0	0	<u> </u>	0	0	0	0	0	0	0	0	) (	) (	) (	) (	)	) (	0	0	) (	0	0	0	) (	) (	) (	) (	0	0
S: SP		-	55	0 0	0	0		0		0	0				0	0	0	0	C	0	0	0	0	0		0	0	0	0	0	0	-
OSGI		-	- 50	Ϋ́	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,			- 45	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ırning		-	40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er wa			35 .	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
barri		-	30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	4	4	4	4
Att -			25 -	30	0	-	0	-	0	-	0	с	0	2	3	1	9	-	1	-	2	~	0	0	0	0	2	0	24	24	26	29
cess			20 -	<b>5</b> 2	-	0	-	2	2	D	-			-	3	2	4	9	9	4	2	0	0	0	-	~	0	0	30	33	33	44
Еас			15 -	20	0	-	-	-	0	~	-			0	Ļ	5	1	-	4	З	~	-	0	0	-	~	0	1	19	22	23	27
Gate	/ 2010	-	10-	15	-	0	0	-	0	0	0	0	0	0	0	1	0	0	0	0	-	0	0	0	0	0	0	-	2	2	3	5
ester t	24 Jul	-	2 2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	1	1	-	-
1 Bice East	Sat, 3		。 '	റ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total			2	2	2	2	2	7	2	2	2	с	7	6	12	8	12	6	1	2	0	0	2	2	2	2	80	86	60	110
Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	00-00

for Entec

ford 010 bunt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 Tic Co		-	130 - 125	1.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		-	125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic			120 -	C7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		-	115 -	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	105 -	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	100 -	ŝ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	95 -	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	90 - 21	C.K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	85 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-		00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	ۍ م	ß	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdn		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		Bins (r		- -	0	0	0	0	0	0	0	0	0	C	С	C	C	C	0	0	C	C	C	С	C	C	С	C	0	с С	0	
2109		peed	' <sup>0</sup>	` c	0		-	0	-	-	0	0	0	0	0	) (	(	(	0	-	•	0	(	(	(	(		0	0	•	0	
58936		s.	20 ×		0		0	0	0	-	0	0	0	-	0	•	0	)	0	0	•	0	)	0	)	)	0	0	-	-	-	-
S: SP		-	- 55	6	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSGF		-	- 50	ň	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,		-	- 45	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rning		-	40	C <del>1</del>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er wa		-	35 .	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
barrie			30 -	C C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	0	0	0	0	0	0	0	0	0	1	1	-	-
Att -			25 -	2C	0	0	0	0	0	0	0	-	0	3	3	3	١	۱	-	2	3	0	0	0	0	0	1	0	18	18	19	19
cess,		-	20 - 21	C7	0	0	0	0	0	0	2	-	2	4	L	2	3	0	<del>.                                    </del>	-	5	0	١	0	0	0	1	-	21	23	25	25
Eac			15 -	7N	0	0	0	0	0	0	-	2	0	0	-	2	0	0	-	-	١	0	2	0	0	2	3	0	10	13	16	16
Gate	y 2010	-	10-	<u>c</u>	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	-	٦	0	0	٢	0	0	0	0	2	3	°	4
ester (	25 Jul		ч С	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Bice East	Sun,		۰ <sup>ـ</sup>	ი	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total			0	-	0	0	0	0	с	4	2	7	2	7	4	-	4	വ	10	0	3	۱	0	2	5	1	52	58	64	65
Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	00-00

for Entec

ord 010 unt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf July 2 ic Co			130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , , Traff			125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic			120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi			115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hqm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70		Bins (	2 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2109		beed	0 - 6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58936		0,	<u>-</u> 6	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(	0	0	
S: SP			- 26	5 6	0		0				0	)	0	0		•	0	)	)	0	)	0	)	)	)	)	)	0	)	-	<u> </u>	
osgi			- 50	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,			. 45	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ning			40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er wai			35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
barrie			30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	L	0	١	0	0	0	0	0	0	0	2	2	2	2
Att -			25 -	30	0	0	0		0		-	3	0	4		۲	З	3	3	5	8	8	4	0	1	0	2	0	43	45	47	49
cess,			20 -	25	0	-	0	0	2	2	с	8	D	15	15	12	20	8	L	6	46	14	3	4	0	6	9	3	157	173	181	186
Eac	0		15 -	20	-	0	0	0		4	2	10	-	വ	10	17	13	21	14	24	29	4	3	4	0	2	1	2	161	169	172	178
Gate	ly 201(		10 -	15	-	0	0	0	-	2	0	2	9	4	2	9	7	4	4	9	5	2	-	2	1	٢	١	0	52	56	57	61
ester . t	, 26 Ju		5 -	10	0	0	0	-	0	0	0	0	0	0	0	2	-	0	0	2	0	0	0	0	0	0	0	0	5	5	5	6
1 Bice Eas	Mon		- 0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total			2		0	2	4	6	9	18	22	28	31	38	44	36	29	46	89	28	11	10	2	12	6	5	420	450	464	482
Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ord 010 unt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 ic Co			130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster å J Traffi			125 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Bice natic			120 - 1	125 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Autor			115 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdm	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		Bins (I	5 - 7	. 0,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2109		peed	- -	5 7	(	(													-	-			(	(	(	(	(	(		-	-	
8936		S	- 60	9 (	0	0					0					0	0		0		0	0	0	0	0	0	0	0	0	0	0	
SP 5			- 55	9(	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSGR			50	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ign, (			45 -	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s buir			40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wan			35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arriei			30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	1	1	-	-
Att - k			25 -	30	2	0	0	0	-	0	2	0	0	с	с	7	5	6	4	9	7	4	1	0	1	2	1	0	49	57	58	61
sess, I			20 -	25	-	2		9	2	2	ω	ω	ω	7	10	15	21	18	12	17	43	10	5	2	2	5	2	-	178	195	198	212
Eaco			15 -	20	0	0	0	0	2	-	4	2	10	9	17	11	1	24	ω	19	33	9	5	3	1	5	2	2	155	168	172	175
Gate	2010		10 -	15	-	0	-		0	с	-	с	7	9	ω	5	2	9	4	4	7	З	4	0	0	1	1	0	62	64	65	71
ster (	VINL 7		۲ 2	10	0	0	0	0	0	0	0	-	з	2	-	2	2	0	0	0	-	1	0	0	0	0	0	0	13	13	13	13
1 Bice East	Tue, 2		- 0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total			4	2	2	7	5	9	18	17	28	28	39	40	45	57	28	46	91	24	15	2	4	13	9	3	458	498	507	533
ב ב		0			6	6	6	_	_	_	6	_	_	_	_			_	~	6			-	0	6	6	(	6	6	2	_	0
ite ocatic irectic		Time			0000	0100	0200	0300	0400	0500	090	0700	0800	060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-1	06-2.	0-90	0-00
DEN																																

for Entec

ord 010 unt			35 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf uly 2 c Co			130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ster J Traff			125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic			120 - `	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Autor			115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hqm	- 0/	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L		Bins (	- 2	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2109		beed	0 - 6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58936		S	- 0	0 6	0	0	0		0	0	0		0	0	0	•	0	0	0	0	•	0	0	0	0	0	0	0	•	-	0	
SP 5			- 55	5 6	0						)			0		0	0	)	0	0	0	)	0	0	)	0	0	)	0		0	
OSGF			- 50	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign,			- 45	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ning			40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er wa			35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
barrie			30 -	35	0	0	0	0	0	0	0	0	0	-	0	۱	L	0	-	0	2	2	0	0	0	2	-	0	8	10	11	11
Att -			25 -	30	2	0		с	0	-	L	с	с	с	2	3	4	2	с	5	8	9	-	٦	0	с	-	0	46	57	58	65
cess,			20 -	25	3	3	-	4	0	4	5	6	1	10	10	10	18	17	10	17	46	13	D	2	0	с	4	1	176	186	191	206
Eac	0		15 -	20	-	-		-	-	с	2	9	12	16	18	20	26	19	8	18	25	10	9	2	3	2	З	2	184	193	198	206
Gate	ly 201(		10 -	15	0	0	0	0	0	2	0	2	2	2	വ	5	9	4	വ	10	5	-		-	0	0	0	0	48	49	49	51
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Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00



for Entec Nationwide Data Collection

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ster å J Traffi		125 - 1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Bice natic		120 - 1	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 / Autor		115 - 1	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ŝR: SP		0 - 5	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, OSG		5 - 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sign		- C	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	Ic											- 4		- 1								-						3	3	e	<del>с</del>
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

felford y 2010 Count		. 135 - 5 110	0 140	0	0	0	0	0	0	0	0	0	0	Mon Tue Wed Fri Sun	r o Sc
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ceste ic Tr		- 125 130	2	0	0	0	0	0	0	0	0	0	0	135 - 140	a Col
omat		- 120 125	C7	0	0	0	0	0	0	0	0	0	0	130 - 135	e Data
865 Auto		115		0	0	0	0	0	0	0	0	0	0	125 - 130	abiwr
		110	C	0	0	0	0	0	0	0	0	0	0	120 - 125	Vation
		105	2	0	0	0	0	0	0	0	0	0	0	115 - 120	2
		100 -	COL	0	0	0	0	0	0	0	0	0	0		
		95 - 100	201	0	0	0	0	0	0	0	0	0	0		
		90 - 05	0.4	0	0	0	0	0	0	0	0	0	0		
		35 - 00	70	0	0	0	0	0	0	0	0	0	0		
		- 2	00	0	0	0	0	0	0	0	0	0	0	85 - 90	
		ه د د	2	0	0	0	0	0	0	0	0	0	0	80 - 85	
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	us (m	- 70	× '	0	0	0	0	0	0	0	0	0	0	70 - 75 <b>80</b>	
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36 2	Spe	60 - 65	6	0	0	0	0	0	0	0	0	0	0	60 - 65	
P 589		55 - 40	8	0	0	0	0	0	0	0	0	0	0	55 - 60	
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er wo		35	<del>}</del>	0	0	0	0	0	0	0	0	0	0		
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Att -		25 - 30	PC -	49	61	65	63	58	29	19	59	49	344	15 - 20	
cess, a		20 - 25	C7	186	212	206	258	182	44	25	209	159	1113	10 - 15	
aco		- 15 - 20	Ŋ	178	175	206	201	146	27	16	181	136	949	5 - 10	
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ter G Week		5 -	2	9	13	7	2	പ	-	0	7	ß	34	300 + 250 + 250 + 250 + 250 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	
1 Bices East Virtual		- <u>-</u>	0	0	0	0	0	-	0	0	0	0	-	No. of Vehicles	ň
/	Total			482	533	546	590	454	110	65	521	397	2780		
Site Location Direction	Time			Mon	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	sugery Graphs	

r Telford Jly 2010 C Count	Vpp	85		,				1	21.7	24.6	23.5	21	23.3	21	21.7	25.1	22.8	21.5	22.8	22.8	ı	I	I	i	23.9	I	1	22.8	23.3	23.3	23.3
icester 8 ג tic Traffi	Mean			17.7	17.7	19.1	21.3	19.5	18.9	21.5	20	19.7	19.4	18.7	19.5	21.2	19.7	17.4	20.1	20.2	18.5	20.1	19.1	21.7	19.3	17.3	I	19.6	19.8	19.8	19.7
865 / B Automa	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	0	0	0	25	0	8.3	26.4	12.1	9.1	11.8	4.8	6.5	21.2	11.1	2.5	4.5	0	0	11.1	25	16.7	18.8	25	0	9.6	11.8	11.9	11.6
	>SL1	24	ACPO	0	0	0	2	0	2	14	ω	4	8	2	З	11	Ð	-	-	0	0	1	2	1	с	1	0	44	64	65	69
	>PSL%	20		0	0	09	50	50	33.3	73.6	47	45.5	42.6	35.7	45.7	61.5	46.7	30	50	68.8	33.3	55.6	50	66.7	37.5	25	0	46	48.7	48.5	47.6
	>PSL	20		0	0	з	4	2	8	39	31	20	29	15	21	32	21	12	11	11	ю	5	4	4	9	1	0	211	264	265	282
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	~	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	-
797		11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ir: SP 58		6	ART5	0	2	2	-	-	0	-	с	-	9	4	2	4	ς	2	2	4	с	2	-	0	Ð	1	0	42	49	50	56
In, OSG		∞	3 ART4	0	0	0	0	0	0	0	0	-	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	ς
ning sig	sificatior	2	<b>ART</b> 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rier war	Clas	9	T4	0	0	0	0	0	0	-	0	0	0	-	0	0	-	0	0	0	0	0	0	0	0	0	0	2	3	3	°
tt - bar		2	2 TB3	0	0	0	0	0	0	-	0	0	-	0	-	0	-	-	0	0	0	L	0	0	0	0	0	5	9	9	6
ccess, A		4	T TB2	-	-	2	0	0	-	-	4	9	12	8	12	11	9	14	9	S	2	3	-	1	2	2	0	87	92	94	66
ate E ac		ۍ 	v SV	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 1	9 1	0 1	2 1
ester Ga st 22 July 20		2	S SV	-	-	-	9	c	20	48	56	36	45	27	28	37	33	15	7	8	4	2	9	5	6	1	0	30	36	37	40
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Site Locatio Directio	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	00-00

for Entec

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c Coun	ddv	85		I	ļ	T	ı	ı	23.9	25.5	23.5	22.6	23.7	22.4	24.6	24.2	24.4	22.6	ı	21.5	22.4	ļ		ı	I	I	ļ	23.7	23.9	23.9	23.9
tic Traffi	Mean			16.5	18.9	19.6	20	19.6	20.6	20.8	20.2	18.5	20.2	19.5	20.9	20.6	20.4	20	22.4	20.2	21.1	20.3	21.3	20.1	19.7	18.4	16	20.1	20.2	20.1	20.1
Automa	> <b>&gt;</b> 212%	35 Def	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>>L2	35 Def	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CI 10/	> <b>&gt;</b> L1%	24	ACPO	0	0	0	12.5	0	19	26.2	15.4	8	14.9	9.1	28	17.2	25	9.5	20	16.7	7.7	0	33.3	16.7	0	0	0	14.7	15.9	15.6	15.2
13	> <b>&gt;</b> L1	24	ACPO	0	0	0	-	0	4	11	12	4	7	3	7	5	9	2	2	2	1	0	2	-	0	0	0	51	65	65	70
10 ISU	>PSL%	20		0	33.3	50	50	66.7	66.7	59.5	55.1	48	55.3	48.5	56	48.3	54.2	42.9	80	50	61.5	60	33.3	33.3	62.5	20	0	53	53.3	52.6	52.8
50	>PSL	20		0	1	1	4	4	14	25	43	24	26	16	14	14	13	6	ω	9	8	3	2	2	5	-	0	184	218	219	243
		12 DT	٦KI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	_	11	вIJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	_	10 ADT2	AKIO	0	0	0	0	0	0	0	2	2	-	-	0	0	0	0	0	0	0	2	0	0	0	0	0	8	8	8	∞
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action	cation	7	AKI 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Classif	9 <sup>-</sup>	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ily 2010		2	70	-	0	0	4	9	20	37	62	36	26	20	6	12	18	12	4	2	4	2	4	-	9	4	2	207	254	260	291
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Totol	lotal			4	3	2	ω	9	21	42	78	50	47	33	25	29	24	21	10	12	13	5	9	9	8	Q	2	347	409	416	460
	IIme			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec Nationwide Data Collection

865 / Bicester & Telford

Site

Bicester Gate E access, Att - barrier warning sign, OSGR: SP 58 West	er Gate E access, Att - barrier warning sign, OSGR: SP 58 <sup>4</sup>	E access, Att - barrier warning sign, OSGR: SP 58	ss, Att - barrier warning sign, OSGR: SP 58	במוויה אמוויויש אימויי כיסי סי סי														Automa	tic Traffi	c Count
	Jal, 24 J					Classific	ation						>PSI	% ISd<	>SI 1	>SI 1%	<ul><li>SI 2</li></ul>	>SI 2%	Mean	Vnn
	-	2	e	4	5	6	7	œ	6	10	11	12	20	20	24	24	35	35		- 77 85
	MCL	SV	SVT	TB2	TB3	T4	<b>A</b> RT3	ART4	ART5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
	0	0	0	-	0	0	0	0	2	0	0	0	2	66.7	0	0	0	0	20.4	1
	0	2	0	-	0	0	0	0	0	-	0	0	2	50	0	0	0	0	17.5	
	0	-	0	0	0	0	0	0	-	0	0	0	-	50	0	0	0	0	19.7	
	0	-	0	2	0	0	0	0	0	0	0	0	с	100	0	0	0	0	21.6	
	0	-	0	0	0	0	0	0	2	0	0	0	2	66.7	0	0	0	0	19.8	ı
	-	13	0	0	0	0	0	0	0	0	0	0	4	28.6	2	14.3	0	0	20.2	23.3
	0	17	0	1	0	0	0	0	1	0	0	0	14	73.7	2	10.5	0	0	21.5	23.5
	0	4	0	-	0	0	0	0	0	0	0	0	5	100	с	90	0	0	25.7	ı
	0	-	0	-	0	0	0	0	0	0	0	0	-	50	-	50	0	0	22.7	
	٢	1	0	0	0	0	0	0	١	0	0	0	-	33.3	٢	33.3	0	0	16.8	I
	0	8	0	3	0	0	0	٢	١	0	0	0	7	53.8	3	23.1	0	0	20.8	24.4
	0	-	0	0	0	0	0	0	-	0	0	0	-	50	0	0	0	0	19.5	
	0	7	0	2	0	0	0	0	0	0	0	0	9	66.7	3	33.3	0	0	22.4	ı
	0	2	0	1	0	0	0	0	1	0	0	0	3	75	1	25	0	0	22.1	I
	0	2	0	2	0	0	0	0	0	0	0	0	с С	75	2	50	0	0	21.8	I
	0	1	0	2	0	0	0	0	0	0	0	0	-	33.3	٢	33.3	0	0	20.9	I
	0	4	0	0	0	0	0	0	٦	0	0	0	-	20	0	0	0	0	17.9	I
	0	2	0	0	0	0	0	0	0	0	0	0	2	100	1	50	0	0	25.5	I
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	·	I
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.4	I
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.5	I
	0	0	0	2	0	0	0	0	0	0	0	0	-	50	0	0	0	0	20.7	ı
	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	19.9	I
	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.7	I
	1	33	0	12	0	0	0	٦	5	0	0	0	31	59.6	16	30.8	0	0	21.4	25.9
	-	52	0	15	0	0	0	-	9	0	0	0	46	61.3	18	24	0	0	21.3	25.5
	-	55	0	15	0	0	0	-	9	-	0	0	46	58.2	18	22.8	0	0	21.1	25.5
	2	73	0	19	0	0	0	-	11	2	0	0	60	55.6	20	18.5	0	0	20.8	24.6

for Entec

Nationwide Data Collection

Site Location Direction

~

Bicester Gate E access, Att - barrier warning sign, OSGR: SP 58936 21097 West

1000

865 / Bicester & Telford July 2010 Automatic Traffic Count

	Vpp	85				,			21.9											•	,		ı.	ı.				24.2	24.2	23.9	23.9
	Mean			15		,		1	20.8	20.5	21.1	21.3	23.2	21.2	19.3	19.1	25.1	21.6	23.6	20.6	ı	19.2	Ĩ	27.8	19	20.5	16.3	21	20.9	20.8	20.7
	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	0	0	0	0	0	16.7	0	25	0	09	16.7	0	40	100	50	0	0	0	0	0	100	0	0	0	24.3	20.4	18.5	17.9
	>SL1	24	ACPO	0	0	0	0	0	2	0	-	0	с	-	0	2	-	-	0	0	0	0	0	L	0	0	0	6	10	10	12
	>PSL%	20		0	0	0	0	0	50	71.4	75	100	80	66.7	50	09	100	50	100	66.7	0	33.3	0	100	50	25	0	67.6	67.3	63	59.7
	>PSL	20		0	0	0	0	0	9	2	с	2	4	4	-	3	-	-	<del>, -</del>	4	0	-	0	١	2	١	0	25	33	34	40
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		11	6 BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	5 ART	0	0	0	0	0	0	0	0	0	0	0	0	L	0	0	0	0	0	0	0	0	0	0	0	1	1	1	-
		6	4 ARTE	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
	_	8	8 ART	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	flicatior	7	<b>ART</b> 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Class	9	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	TB3	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	-
		4	TB2	0	0	0	0	0	0	-	-	-	2	0	0	۱	-	2	0	0	0	-	0	0	0	۱	0	6	10	11	11
		S	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
uly 2010		2	SV	٦	0	0	0	0	12	9	с	0	2	Ð	2	3	0	0	-	9	0	2	0	١	4	3	1	24	35	39	52
Sun, 25 J		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total			-	0	0	0	0	12	7	4	2	5	6	2	5	<del>.                                    </del>	2	<del>.                                    </del>	6	0	З	0	-	4	4	-	37	49	54	67
	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00



Site		-																	865 / B	icester &	Telford
-ocation Direction		Biceste West	r Gate I	Eacce	ss, Att -	barrier	warnir	ıg sign,	OSGR:	SP 589	36 2109	2							Automa	Ju tic Traffic	ily 2010 c Count
		Mon, 26.	July 2010																		
Time	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	2	9	7	œ	6	10	11	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	Τ4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	3	0	-	0	0	0	0	0	0	2	0	0	0	2	66.7	0	0	0	0	20.2	
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0200	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.4	
0300	2	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.9	
0400	ω	0	7	0	-	0	0	0	0	0	0	0	0	5	62.5	2	25	0	0	21.7	
0500	20	ę	17	0	0	0	0	0	0	0	0	0	0	12	60	2	10	0	0	19.4	22.6
0090	44	2	40	0	-	0	0	0	0	-	0	0	0	29	65.9	10	22.7	0	0	21.2	24.4
0100	72	0	63	0	5	1	0	0	0	1	2	0	0	42	58.3	13	18.1	0	0	20.3	23.9
0800	53	-	37	0	7	0	3	0	2	3	0	0	0	25	47.2	4	7.5	0	0	19.1	22.8
0060	36	-	21	0	9	-	0	0	-	9	0	0	0	15	41.7	с	8.3	0	0	19.4	22.8
1000	35	0	14	-	12	2	-	0	0	2	0	0	0	19	54.3	2	14.3	0	0	19.6	23
1100	27	0	8	0	13	-	0	0	0	с	2	0	0	8	29.6	-	3.7	0	0	17.8	21.7
1200	28	2	13	0	7	0	0	0	0	9	0	0	0	12	42.9	4	14.3	0	0	19.5	23.7
1300	44	0	29	0	6	0	1	0	0	4	1	0	0	23	52.3	2	4.5	0	0	19.5	21.9
1400	22	-	6	0	11	0	0	0	0	1	0	0	0	8	36.4	2	9.1	0	0	19	22.1
1500	40	с	20	0	7	0	2	0	-	6	-	0	0	14	35	-	2.5	0	0	18.3	22.1
1600	11	0	с	0	4	0	0	0	0	4	0	0	0	4	36.4	-	9.1	0	0	19.9	21.3
1700	6	0	2	0	-	0	0	0	0	9	0	0	0	9	66.7	-	11.1	0	0	20.9	
1800	8	0	4	0	3	0	0	0	0	۱	0	0	0	5	62.5	2	25	0	0	21.1	,
1900	4	0	2	0	2	0	0	0	0	0	0	0	0	2	50	١	25	0	0	20.7	ı
2000	7	0	4	0	1	0	0	0	0	2	0	0	0	9	85.7	2	28.6	0	0	21.8	1
2100	17	0	12	0	2	0	0	0	0	3	0	0	0	11	64.7	2	11.8	0	0	21.1	22.8
2200	4	0	<del>, -</del>	0	2	0	0	0	0	-	0	0	0	0	0	0	0	0	0	14.6	
2300	4	0	2	0	1	0	0	0	0	1	0	0	0	3	75	1	25	0	0	21.4	
07-19	385	œ	223	-	85	5	7	0	4	46	9	0	0	181	47	39	10.1	0	0	19.4	23
06-22	457	10	281	1	91	5	7	0	4	52	6	0	0	229	50.1	54	11.8	0	0	19.7	23.3
06-00	465	10	284	1	94	5	7	0	4	54	6	0	0	232	49.9	55	11.8	0	0	19.7	23.3
00-00	499	14	311	1	95	5	7	0	4	56	6	0	0	251	50.3	59	11.8	0	0	19.7	23.3

for Entec Nationwide Data Collection

Site

for Entec

Nationwide Data Collection

865 / Ricester & Telford

Site

Site Location Direction		1 Biceste West	er Gate	Eacce	ss, Att -	- barrie	r warnir	,ngi sign,	OSGR	: SP 589	)36 2109	7							865 / Bi Automat	cester & Ju iic Traffic	Telford ly 2010 : Count
Time	Total	MCU, 20					Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	ъ	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	<b>A</b> RT5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	С	0	-	0	0	0	0	0	0	-	-	0	0	-	33.3	0	0	0	0	19.8	,
0100	2	0		0	0	0	0	0	0	-	0	0	0	-	50	0	0	0	0	19.7	
0200	5	0	З	0	-	0	0	0	0	-	0	0	0	с	09	2	40	0	0	22.3	
0300	7	-	с	0	-	0	0	0	0	2	0	0	0	с	42.9	-	14.3	0	0	19.9	
0400	7	0	£	0	-	0	0	0	0	-	0	0	0	Ð	71.4	З	42.9	0	0	22.3	1
0500	21	2	19	0	0	0	0	0	0	0	0	0	0	12	57.1	4	19	0	0	20.5	23.9
0090	58	0	50	0	5	0	1	0	0	0	2	0	0	39	67.2	12	20.7	0	0	20.9	24.4
0700	75	2	99	0	9	0	0	0	1	0	0	0	0	44	58.7	13	17.3	0	0	21	24.4
0800	54	-	36	-	ω	0	с	0	0	4	-	0	0	26	48.1	7	13	0	0	19.9	23.5
0060	54	2	29	0	10	2	-	0	2	6	2	0	0	16	29.6	2	3.7	0	0	18.5	22.1
1000	24	0	12	0	7	2	0	0	0	-	2	0	0	11	45.8	Ð	20.8	0	0	19.4	23.9
1100	36	0	20	0	6	-	-	0	-	4	с	0	0	13	36.1	2	5.6	0	0	18.9	21.7
1200	46	0	31	0	6	0	0	-	2	с	0	0	0	22	47.8	2	4.3	0	0	19.2	22.1
1300	53	0	33	1	12	0	0	0	0	5	2	0	0	14	26.4	0	0	0	0	18.1	20.6
1400	26	0	13	٦	6	0	0	0	1	٦	-	0	0	15	57.7	٦	3.8	0	0	19.6	22.8
1500	22	0	13	0	S	0	0	0	0	4	2	0	0	7	31.8	З	13.6	0	0	18.4	23
1600	14	0	7	0	с	0	-	0	0	с	0	0	0	Ð	35.7	2	14.3	0	0	19.8	22.6
1700	10	0	9	0	0	0	0	0	0	4	0	0	0	4	40	2	20	-	10	21.5	
1800	11	0	7	0	2	0	0	0	0	2	0	0	0	9	54.5	-	9.1	0	0	20.5	21.9
1900	ю	0	2	0	0	0	0	0	0	-	0	0	0	2	66.7	-	33.3	0	0	22	1
2000	9	0	5	0	-	0	0	0	0	0	0	0	0	4	66.7	4	66.7	0	0	25.3	1
2100	14	0	10	0	-	0	0	0	0	с	0	0	0	ø	57.1	ę	21.4	0	0	21.2	24.6
2200	3	0	1	0	1	0	0	0	0	٢	0	0	0	2	66.7	0	0	0	0	20.3	ı
2300	7	0	5	0	0	0	0	0	0	2	0	0	0	3	42.9	1	14.3	0	0	18.6	ı
07-19	425	5	273	3	75	5	6	1	7	37	13	0	0	183	43.1	40	9.4	1	0.2	19.4	23
06-22	506	5	340	3	82	5	7	1	7	41	15	0	0	236	46.6	60	11.9	1	0.2	19.7	23.5
00-90	516	5	346	ς	83	ß	7	-	7	44	15	0	0	241	46.7	61	11.8	-	0.2	19.7	23.5
00-00	561	8	378	с	86	5	7	-	7	50	16	0	0	266	47.4	71	12.7	-	0.2	19.8	23.5

Nationwide Data Collection for

for Entec

cation ection	-	1 Biceste West	r Gate F	acce	ss, Att -	. barrieı	warnir	,ngis gr	OSGR:	SP 589	36 2109	76							865 / B Automa	icester 8 Ju tic Traffio	, Telford Jly 2010 c Count
ue [	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	ę	4	ß	6	7	8	6	10	1	12	20	20	24	24	35	35		
		MCL	SV	SVT	TB2	TB3	T4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
00	2	0	-	0	0	0	0	0	0	-	0	0	0	-	29.4	0	0	0	0	18.7	
00	2	0	~	0	0	0	0	0	0	-	0	0	0	-	31.3	0	0	0	0	18.1	
00	з	0	-	0	-	0	0	0	0	-	0	0	0	-	50	0	15	0	0	20	
00	Ð	-	2	0	-	0	0	0	0	-	0	0	0	2	51.5	٦	15.2	0	0	20.5	1
00	2	0	4	0	0	0	0	0	0	-	0	0	0	с	62.9	-	14.3	0	0	20.8	
00	19	2	17	0	0	0	0	0	0	0	0	0	0	10	51.9	с	14.8	0	0	20.1	
00	39	-	35	0	2	0	0	0	0	0	0	0	0	27	69.1	6	22.2	0	0	21.2	
00	53	-	44	0	4	0	0	0	0	-	-	0	0	29	54.7	6	16.2	0	0	20.4	23.9
00	37	0	26	0	5	0	-	0	-	2	-	0	0	17	47.3	с	8.9	0	0	19.2	22.6
00	38	-	23	0	7	-	0	0	-	4	-	0	0	17	43.1	4	10.8	0	0	19.2	23.3
00	25	0	14	0	6	-	0	0	0	с	-	0	0	12	46.3	с	13	0	0	19.4	23
OC	26	0	13	0	8	0	0	0	-	с	-	0	0	11	43.2	2	8.7	0	0	19.3	23
OC	29	0	18	0	7	0	0	0	0	с	0	0	0	16	54.2	Ð	15.8	0	0	20.4	23.9
00	32	0	22	0	9	0	0	0	0	2	1	0	0	14	42.8	3	6	0	0	19.4	22.8
00	20	0	6	0	ω	0	0	0	0	2	1	0	0	80	40.3	2	7.9	0	0	18.9	22.6
00	17	0	6	0	4	0	0	0	0	с	-	0	0	8	44.9	-	7.6	0	0	19.2	23
00	1	0	5	0	S	0	0	0	0	с	0	0	0	5	47.4	-	10.3	0	0	20	22.8
00	ω	0	с	0	-	0	0	0	0	с	0	0	0	2	61.1	-	9.3	0	1.9	21	
00	9	0	с	0	2	0	0	0	0	-	-	0	0	4	57.8	-	13.3	0	0	20.4	
00	3	0	2	0	٦	0	0	0	0	0	0	0	0	2	47.8	١	30.4	0	0	20.5	ļ
OC	2	0	3	0	١	0	0	0	0	1	0	0	0	3	61.1	2	33.3	0	0	21.9	Ţ
00	11	0	7	0	١	0	0	0	0	2	0	0	0	9	54.7	١	13.3	0	0	20.2	23.3
00	3	0	1	0	1	0	0	0	0	1	0	0	0	-	25	0	4.2	0	0	18.3	-
00	3	0	2	0	0	0	0	0	0	1	0	0	0	-	33.3	0	14.3	0	0	18.7	-
19	302	4	188	1	62	3	2	0	4	30	8	0	0	145	47.8	35	11.4	0	0	19.7	23.3
22	361	5	236	1	67	3	2	0	4	34	8	0	0	182	50.5	47	13.1	0	0	19.9	23.5
00	367	5	240	-	68	3	2	0	4	35	8	0	0	184	50.1	48	13.1	0	0	19.9	23.5
00	404	8	266	-	71	e	2	0	4	40	6	0	0	203	50.2	53	13.1	0	0	19.9	23.5



for Entec

elford / 2010 Count		Vpp 85	3	23.3	23.3	23.5	23.3	23.9	24.6	23.9	23.5	23.5	23.5	23.5 84 2% 2%	
ster & ] Jul Traffic		ean		9.7	9.8	9.8	9.7	20.1	0.8	20.7	9.8	9.9	9.9	→ → → → → → → → → → → → → → → → → → →	ollectior fo Ented
65 / Bice Itomatic		SL2% M 35	DfT	0	0	0.2 1	0	0	0	0	0.0 1	0.0	0.0 1	7 Day Ave.   5 Day Ave.	e Data Co
B Ar				0	0	-	0	0	0	0	0	0	1	Sun	tionwid
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	, D	œ	9.	.7	9.	.2	.5	6.	9.	۲.	.1	- Sat	Na
		>SL	ACI	-	12	12	11	15	18	17	12	13	13	2 Thu	
		>SL1	ACPC	59	68	71	69	70	20	12	67	53	369	Wed Tue	
		>PSL%	2	50.3	51.2	47.4	47.6	52.8	55.6	59.7	49.8	50.2	50.2	Mon	
		>PSL	2	251	276	266	282	243	60	40	264	203	1418	20 20 20 20 20 20 20 20 20 20 20 20 20 2	
		13	DRT	0	0	0	-	0	0	0	0	0	1	- DRT BD ART6 ART5 ART3 ART3 ART3 T14 T14 T183 T183 SVT SVT SV SVT SV MCL	
Ĺ		;	BD	0	0	0	0	0	0	0	0	0	0		
36 2109		6	ART6	9	16	16	11	ω	2	-	11	6	60	<b>7</b> Day Ave.	
SP 5893		0	ART5	56	53	50	56	51	1	2	53	40	279	5 Day Ave.	
OSGR:		α	ART4	4	6	7	с	Ð	-	0	5	4	26	s	
g sign,		ation	, ART3	0	-	-	0	0	0	0	0	0	2		
warnin	-	Classific حا	24	٢	0	7	3	0	0	0	3	2	17		
barrier		_ `` ۲	, TB3	2	ε	D	6	ę	0	-	4	°.	23	<b>?</b>	
s, Att - I		-	TB2	95	92	86	66	95	19	11	93	71	497	Wed	
acces		~	, SVT	-	2	ę	-	0	0	0	1	-	7	Tue	
Gate E		ç	SV <sup>2</sup>	311	354	378	402	291	73	52	347	266	1861	Mon	
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- m > >	-	Total		499	539	561	593	460	108	67	530	404	2827	72821	<b>IDC</b>
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ford :010 sunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	(ham)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection

Special Bins (mp)      300 21097      300 200 200 200 200 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 105 100 100	0 0 0 <b>0 0 0 0</b>
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Special Bins        Application	0 0 0 <b>0 0 0 0</b>
9936 21097          Special Rink (mph)          5        70        75        90        95          0        0        0        95        100          0        0        95        100          0        0        95        100          0        0        0        95          0        0        0        95          0        0        0        90        95          0        0        0        0          0        0        0        0          0        0        0        0          0        0        0        0          0        0        0        0          0         <th colspan="</td> <td>0    0    0    0    0    0</td>	0    0    0    0    0    0
S9036 21097        Spore all month        Spore all mont	0 0 0 <b>0 0 0 0</b>
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S8936 21097      70      75      80      85        0      65      70      75      80      85        1      70      75      80      85        1      10      0      0      0      0        1      0      0      0      0      0        1      0      0      0      0      0        1      0      0      0      0      0        1      0      0      0      0      0      0        1      0      0      0      0      0      0      0        1      0      0      0      0      0      0      0      0        1      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0 <td< td=""><td>0 0 0 <b>0 0 0 0</b></td></td<>	0 0 0 <b>0 0 0 0</b>
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Speed Bins (i      Speed Bins (i        0      65      70        1      60      65      70        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0      0        1      0      0<	0 0 0 <b>0 0 0 0</b>
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Total          101          4          4          4          4          4          5          22          23          333          21          10          11          11          11          11          11          11          11          11          11          11          11          11          11          12          23          24          25          27          28          8          8          8          8          8          8          8          7          7          7          7          7          8          410          410	8 5 2 <b>347</b> 409 416 460
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ord 010 unt			35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		dm) si	.07	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
260		ed Bir	65 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 21		Spe	- 09	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P 589			55 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SI			- 02	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ı, OSc			- 2	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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- ban			- 30	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s, Att			- 25	30	0	0	0	0	0	2	0	0	0	с	0	0	-	1	0	0	0	0	0	0	1	0	0	0	5	9	9	8
cces			- 20	25	0	0	0	0	0	4	2	ς	2	~	4	-	2	0	~	-	4	0	1	0	0	2	-	0	20	27	28	32
е Б	0		15	20	0	0	0	0	0	9	2		0	~	2	-	0	0	~	0	1	0	2	0	0	2	3	-	6	13	17	23
Gat	ıly 201		10	15	-	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	3	3	3	4
ester: St	1, 25 Ju		ы Ч	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00



for Entec Nationwide Data Collection

ford 010 bunt	ſ		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		-	130 - 135	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester : Traff		-	125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bico matic		-	120 -	C7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Auto		-	115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	110 - 115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	105 -		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		_	95 -	001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			90 - 90	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	85 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		(hdm)	70 - 75	c/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76		l Bins	22 -	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 210		Speec		00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893		-	5-6	00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sR: SP		-		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSO		-	<u>م</u>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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s, Att		-	- 25	20	0	0	0	0	-		2	5 7	3	-	1 2	-	) 2	2 1	0	3 1	-	1	2	-	-	1	0	0	9 22	7 30	0 30	7 32
acces		-	- <mark>20</mark>	Z Z	2	0	0	0	4		3 23	5 35	) 22	3 17	2 17	3 7	10	5 22	1 8	3 13	S	5	3	-	2	6	0	3	1 15	1 19	4 20	6 21
te E a	2	-	- 15 2 5	v v	-	0	-	2	e C	2	~	50	2(	3	1	~	1	1(	1	18	~	3	ŝ	-		2	2	-	4 16	3 18	9 18	0 19
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Site Location Direction	i	Time			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ford 010 punt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Bins (		70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 2109	Speec	- 0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893		5 - 6	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SP		0 - 5	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I, OSC		5 - 5	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sigr		0 - 4	45 <u>(</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/arnin		5 - 4	7 Ot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rrier w		) - 3	5 2	С	0	0	0	0	0	0	0	0	0	0	0	С	0	C	0	С	С	С	C	С	С	С	С	0	0	0	0
t - ba		5 - 3(	3	C	0	-	0	0	4	2	\$	5	e	5	5	2	3	-	-	2	C	-	_	2	-	C	C	8	8	80	33
ss, At		) - 25	5 3	) (	-		0 0	4	` 0	е С	6	5	5	 	6	6	7	. 1	0	4	0			3	. 1	1 0	1 0	59 2	12 3	14 3	33 4
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ate E		0 - 1	5 2	0	-	0	0	0	-	2	8	9	1		с С	1	3 2	3 1	9	0	0	1	0	1	2	0	0	52 1	57 1	57 13	59 2 <sup>1</sup>
er Ga July 20		- 1	10	0	0	0	0	0	-	0	0	-	` 0	-	0	0	0	-	0	0	0	0	0	0	0	0	0	3	3	3	4
licest Vest <b>Je</b> , 27		0 - 1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
←ш> ≓	otal			-	с	5	5	7	23	52	71	53	56	24	45	34	51	24	20	14	11	6	-	6	14	3	4	412	188	195	539
	Ĭ											<u> </u>																7	7	7	
Site Locatior Directior	Time			0000	0100	0200	0300	0400	0500	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ford 010 vunt			135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Teli July 2 ic Cc		-	130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		-	125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		-	120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autor		-	115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(hdm	-0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Г		Bins (	5 - 7	0/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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DSGF		-	. 50	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign, (		-	45 -	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ning		-	40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
r war			35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٢	0	0	0	0	0	0	١	-	-	-
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Eaco		-	15 -	20	2	-	2	4	2	7	12	27	22	28	6	19	17	30	6	11	8	5	4	-	2	6	1	4	189	210	215	233
Gate	y 2010	-	10 -	15	0	0	0	0	0	-	7	3	9	ω	4	4	7	7	2	3	1	1	-	0	0	0	0	0	47	54	54	55
ster ( t	Jul 28	-	5 -	10	0	0	0	0	0	-	0	1	0	2	0	0	0	2	0	1	0	0	0	0	0	0	0	0	9	6	6	7
1 Bice Wes	Wed,		- 0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total			3	2	ъ	7	7	21	58	75	54	54	24	36	46	53	26	22	14	10	11	3	9	14	3	7	425	506	516	561
Site Location Direction		Time			0000	0100	0200	0300	0400	0500	0090	0200	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ford :010 sunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 - 1	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm	- 0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Bins (	5 - 17	02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, 2109	peed	0 - 6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58936		5 - 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R: SP		) - 5	5	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0		0	0	0	0	0	-	-	-
OSG		50	0	0	) (	0	0	0	0	0	0	0	0	) (	0	) (	) (	0	) (	0	) (	0	0	0	) (	0	0	)	0	0	-
g sign,		- 45	2	0	0	0	0	0	0	0		0	0	)	0	0	•	0	0		0	0		0	)	0	0		-	-	-
arning		- 40	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rier w		- 35	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- bar		- 30	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	-
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cces		- 20	) 25	-	١		2	3 C	ω	22	24	. 15	14	10	10	12	12	8	7	4	4	3	-	2	2	-	-	5 12;	2 15,	6 15!	1 17(
ега		- 15	20	-	١		2	2	7	10	20	14	15	11	12	11	15	6	9	2	3	2	-	2	4	2	2	12	14:	140	16.
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cester est		- 2	10	0	0	0	0	0		0	0	-	~	0	0	0	1	0	-	0	0	0	0	0	0	0	0	4	4	4	5
− Bic Vé	-	o	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tota			2	2	с	2	2	19	39	53	37	38	25	26	29	32	20	17	1	8	9	ŝ	ъ	11	с	3	302	361	367	404
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0200	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec Nationwide Data Collection

ite		<del>, -</del>																								ω	365 /	Bices	iter &	Telfo	ō
ocation Direction		Bice West	ster t	Gate	Eac	ccess	i, Att	- ban	rier w	/arnin	g sigi	OS, ۱	GR: S	P 589	36 21	260										Ā	utom	atic ]	Ju Iraffic	lly 20 : Cou	⊒ 9
		Virtua	Meć	sk (1)																											
Time	Total			_	_	_	_	-	-	-	-	-	-	_	Spe	ed Bir	dm) si	( <b>4</b>	-	-	-	-	-	-	-	-	-	-	-	-	
		<del>،</del> م	5 -	10 - 15	15 - 20	20 - 25	. 25 .	- 30	4 3	- 0 - 4	15 -	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	- 07 75	75 80	8 8	- 85 9(	- 0 2 6	5 - <u>9</u> 5 10	- <u>10</u> 10	00 - 10 05 - 11	11 1 10 1	0 - 11 15 13	15 - 12 20 1	25 - 12 25 - 12	25 - 13 30 13	30 - 13 35 - 12	10 ·
Mon	499	0	12	40	196	217	32	2		0	0	0	0	0	0	0	0	0	0	0							0		0	0	
Tue	539	0	4	59	200	233	43	0		C	0	0	0	0	0	0	0	0	0	0		0			0	0	0	0	0	0	0
Wed	561	0	7	55	233	221	43	-		-	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	
Thu	593	0	8	53	250	245	35	2		0	0	0	0	0	0	0	0	0	0	0			0	0	0		0	0	0	0	0
Fri	460		2	29	182	199	42	2		0	0	0	0	0	0	0	0	0	0	0					0		0	0	0	0	0
Sat	108	0		D	42	45	13	2		C	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Sun	67	0	0	4	23	32	8	0		C	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
5 Day Ave.	530	0	7	47	212	223	39	-		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
7 Day Ave.	404	0	5	35	161	170	31	-		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0	0	0	_
:	2827	-	37	245	1126	1192	216	6		-	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
sydeið Graphs		No. of Vehicles	300 250 200 150 0 0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35		45 - 50	50 - 55	55 - 60	60 - 65	65 - 70 <b>2</b>	70 - 75 <b>ដែ</b>	75 - 80	85 - 90	90 - 95	95 - 100	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130			Mon Tue Wed Fri   Sun	
	NDC	ş																							Nat	ionwi	de Di	ata C	ollect Ent	ion for tec	

tor Entec

2010 2010	dd	5					5.1		2.1	4.8	3.9	2.6	3.3	1.7	2.1	<b>1.2</b>	2.8	2.6	3.9	4.4	4.8	5.1	1.9	4.2	3.3	D.1		3.5	3.7	3.7	3.7
r & lel July 2 Iffic Co	> د						2		2	2	2	2	2	2	2	2,	2	2	2	2	2	2	2	2.	2	2		2	3	3	2
iiceste ntic Tra	Mear			21.5	19.3	18.6	21.8	19.7	19	21.5	20.2	19.6	19.4	18.6	19.7	21	20	18.6	20.4	21	20.5	20.4	19.1	22.1	19.7	17.3	18.5	19.9	20	20	20
865 / B Automa	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	אן אין אין אין אין אין אין אין אין אין א	24	СРО	33.3	12.5	12.5	28.6	0	10	27.1	14.8	7.1	13.1	5.5	7.4	18.1	12	8.2	15.8	17.9	17.6	20.8	11.8	27.3	14.3	5.6	0	12.8	13.9	13.8	13.9
	г1 >S	4	PO					_		6	,		3	-	_	3	C	~	,	. 6	`							4	5	3	4
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	>PSL9	20		66.7	25	20	64.3	57.1	33.3	71.4	48.1	45.7	42.4	35.6	47.9	64.6	50.6	37.8	57.9	67	58.8	54.2	41.2	63.6	46.4	22.2	0	51.1	52.2	51.7	51.3
	>PSL	20		4	2	4	6	4	10	50	39	32	42	26	45	82	42	37	44	71	20	13	7	7	13	4	0	493	570	574	607
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
L		11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 2109		10	ART6	0	0	0	0	0	0	0	0	-	3	4	с	1	0	5	2	1	0	1	0	0	0	1	0	21	21	22	22
SP 5893		6	ART5	0	2	с	-	2	3	4	8	5	6	11	6	4	11	10	8	5	5	4	2	0	L	3	1	86	66	103	114
<b>DSGR:</b>		8	ART4	0	0	0	0	0	0	0	0	-	2	1	-	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5
j sign, (	ation	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
varning	lassifica	9	T4 /	0	0	0	0	0	0	1	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	4	5	5	5
Att - barrier w	с	2	IB3	0	0	0	0	0	0	1	0	0	2	0	-	1	1	2	0	0	0	1	1	0	0	0	0	8	10	10	10
		4	B2	2	-	с С	0	-	2	4	10	14	20	15	23	24	16	25	10	6	3	5	4	1	3	6	0	74	86	92	01
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ate E a 010			s s				2		2	6	0	ω	2	6	6	5	1	2	2	8	6	3	0	0	8			18	15	52	1
ster G way 22 July 2			S I	7			~	7	2	9	9	4	9	3	2	6	2	2	2	8	2	1	-	L	L		0	. 64	17	75	80
1 Bice Two Thu, 3	=	-	ğ	0	0	0	~	0	3	-	2	0	٦	0	0	1	3	3	~	3	0	0	0	0	0	-	0	14	1 15	16	3 20
	Tota			9	8	8	14	7	30	70	81	70	66	73	94	127	83	98	76	106	34	24	17	11	28	18	-	965	109	111(	1183
Site Location Direction	Time			0000	0100	0200	0300	0400	0200	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

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for Entec

iite		- - i	-	L	-	-	-	-	()			ŗ							865 / Bi	cester &	Telford
ocation Direction		BICESTE Two wa	er Gale ay	E acce	- 111 - SS, AII	parrier	warnir	,ng sign,	UNGK.	280 YS :	130 Z I U'							-	Automa	uu tic Traffic	IY 2010 Count
		Fri, 23 Ju	ly 2010																		
Time	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	ę	4	വ	9	7	œ	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	9	0	2	0	1	0	0	0	0	3	0	0	0	2	33.3	0	0	0	0	18.6	ŗ
0100	5	0	2	0	1	0	0	0	0	2	0	0	0	2	40	0	0	0	0	19.3	ı
0200	ω	0	с	0	2	0	0	0	0	с	0	0	0	വ	62.5	2	25	0	0	21	
0300	11	-	7	0	2	0	0	0	0	-	0	0	0	7	63.6	2	18.2	0	0	20.9	22.8
0400	11	0	6	0	2	0	0	0	0	0	0	0	0	D	45.5	-	9.1	0	0	18.4	21
0500	27	-	22	0	-	0	0	0	0	с	0	0	0	16	59.3	9	22.2	0	0	20.4	24.2
0090	57	£	43	0	5	0	0	0	0	4	0	0	0	30	52.6	12	21.1	0	0	20.3	24.6
0700	16	0	67	0	12	1	0	0	3	9	2	0	0	50	54.9	16	17.6	0	0	20.4	23.9
0800	80	-	50	0	16	-	-	0	0	ω	З	0	0	35	43.8	5	6.3	0	0	18.2	22.1
0060	85	0	43	0	27	-	0	0	-	12	-	0	0	39	45.9	12	14.1	0	0	19.8	23.7
1000	70	0	40	0	15	2	0	0	с	ω	2	0	0	36	51.4	12	17.1	0	0	20.2	24.2
1100	59	0	26	0	26	0	0	0	2	4	-	0	0	35	59.3	16	27.1	0	0	21	24.8
1200	73	0	49	0	17	1	0	0	0	9	0	0	0	42	57.5	12	16.4	0	0	20.5	23.9
1300	88	2	69	0	14	0	0	0	0	3	0	0	0	43	48.9	14	15.9	0	0	19.1	23.9
1400	47	0	28	0	14	0	0	0	0	5	0	0	0	26	55.3	13	27.7	0	0	21.2	25.5
1500	48	-	36	0	6	0	0	0	0	2	0	0	0	33	68.8	8	16.7	0	0	21.1	24.2
1600	41	ю	19	0	12	0	0	0	0	7	0	0	0	25	61	14	34.1	0	0	21.3	26.2
1700	31	0	18	0	6	0	0	0	0	4	0	0	0	18	58.1	3	9.7	0	0	21.1	23.3
1800	15	0	10	0	0	0	0	0	0	2	3	0	0	6	09	3	20	0	0	21	24.8
1900	15	0	10	0	ю	0	0	0	0	2	0	0	0	9	40	4	26.7	0	0	20.2	25.7
2000	6	0	3	0	1	0	0	0	0	5	0	0	0	5	55.6	1	11.1	0	0	20.8	I
2100	21	0	13	0	4	0	0	0	0	4	0	0	0	17	81	5	23.8	0	0	21.7	24.6
2200	12	1	6	0	2	0	0	0	0	3	0	0	0	2	16.7	0	0	0	0	17.1	19
2300	4	0	4	0	0	0	0	0	0	0	0	0	0	1	25	0	0	0	0	17.7	ŀ
07-19	728	7	455	0	171	9	1	0	6	67	12	0	0	391	53.7	128	17.6	0	0	20.1	24.2
06-22	830	12	524	0	184	9	-	0	6	82	12	0	0	449	54.1	150	18.1	0	0	20.2	24.4
06-00	846	13	534	0	186	6	1	0	6	85	12	0	0	452	53.4	150	17.7	0	0	20.2	24.4
00-00	914	15	579	0	195	6	-	0	6	97	12	0	0	489	53.5	161	17.6	0	0	20.1	24.2

for Entec

Nationwide Data Collection

Site

Site Location Direction		1 Bicesté Two w. <mark>Sat, 24 J</mark>	∋r Gate ay u <mark>ly 2010</mark>	Eacce	ss, Att -	barriei	warnir	,ngi sign,	OSGR:	SP 589	36 2109	Lt							865 / Bi Automat	cester & Ju ic Traffic	Telford ly 2010 : Count
Time	Total						Classifi	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	2	9	7	8	6	10	11	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>A</b> RT3	ART4	<b>A</b> RT5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	Ð	0	2	0	-	0	0	0	0	2	0	0	0	с	09	0	0	0	0	19.6	ı
0100	9	0	с	0	2	0	0	0	0	0	-	0	0	с	50	-	16.7	0	0	18.8	
0200	4	0	2	0	-	0	0	0	0	-	0	0	0	2	50	0	0	0	0	20.1	ı
0300	ω	0	5	0	2	0	0	0	0	-	0	0	0	6	75	2	25	0	0	20.9	,
0400	വ	0	с	0	0	0	0	0	0	2	0	0	0	4	80	0	0	0	0	21	,
0500	21	1	20	0	0	0	0	0	0	0	0	0	0	10	47.6	5	23.8	0	0	21	24.4
0090	21	0	17	0	2	0	0	0	0	2	0	0	0	15	71.4	2	9.5	0	0	21.2	23.5
0700	10	0	8	0	2	0	0	0	0	0	0	0	0	6	06	9	09	0	0	25	I
0800	4	0	2	0	٦	0	0	0	0	٢	0	0	0	2	50	2	50	0	0	21.8	I
0060	9	-	4	0	0	0	0	0	0	-	0	0	0	4	66.7	ю	50	0	0	20.6	
1000	20	0	13	0	4	0	0	0	-	2	0	0	0	13	65	7	35	0	0	21.9	26.6
1100	11	0	5	0	3	0	0	0	1	2	0	0	0	4	36.4	1	9.1	0	0	19.3	20.8
1200	21	0	18	0	3	0	0	0	0	0	0	0	0	17	81	10	47.6	0	0	24.2	28.2
1300	12	0	6	0	2	0	0	0	0	1	0	0	0	10	83.3	4	33.3	0	0	23	24.6
1400	16	0	11	0	4	0	0	0	0	L	0	0	0	11	68.8	4	25	0	0	22	24.6
1500	12	1	7	0	4	0	0	0	0	0	0	0	0	9	50	2	16.7	0	0	20.1	21.7
1600	16	1	14	0	0	0	0	0	0	٦	0	0	0	10	62.5	7	43.8	0	0	22.7	28.6
1700	4	0	4	0	0	0	0	0	0	0	0	0	0	3	75	2	50	0	0	23.4	I
1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	I	I
1900	1	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.4	
2000	3	0	3	0	0	0	0	0	0	0	0	0	0	1	33.3	0	0	0	0	19.4	
2100	4	0	0	0	4	0	0	0	0	0	0	0	0	2	50	0	0	0	0	21	I
2200	3	0	2	0	0	0	0	0	0	0	1	0	0	2	66.7	2	66.7	0	0	25	I
2300	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.9	ı
07-19	132	3	95	0	23	0	0	0	2	6	0	0	0	89	67.4	48	36.4	0	0	22.3	26.8
06-22	161	e	116	0	29	0	0	0	2	11	0	0	0	107	66.5	50	31.1	0	0	22	26.6
00-90	169	°	123	0	29	0	0	0	2	11	-	0	0	109	64.5	52	30.8	0	0	21.9	26.6
00-00	218	4	158	0	35	0	0	0	2	17	2	0	0	137	62.8	60	27.5	0	0	21.6	25.9

NDC

for Entec

Location Site

Direction

Bicester Gate E access, Att - barrier warning sign, OSGR: SP 58936 21097

Two way

July 2010 Automatic Traffic Count 865 / Bicester & Telford

	νpp	85		ī		ı	,	1	21.9	ı	ı	1	25.7	25.3	I	1	ı	i.		26.2	ı	I	ı	I	I	ı	ı	26.4	26.2	25.7	25.7
	Mean			15	13.6				20.8	20.7	20.4	21.9	24.6	23	22.2	21.5	25.5	23.4	21.5	21.9	1	18.8	13.9	27.8	18.5	20.6	18.5	22.2	21.8	21.7	21.5
	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	0	0	0	0	0	16.7	0	25	0	58.3	45.5	33.3	33.3	100	50	33.3	31.3	0	0	0	100	0	11.1	0	36	30.8	28.8	27.3
	>SL1	24	ACPO	0	0	0	0	0	2	0	2	0	7	5	3	З	2	3	2	5	0	0	0	1	0	<del>.                                    </del>	0	32	33	34	36
	>PSL%	20		0	0	0	0	0	50	70	62.5	100	91.7	72.7	66.7	77.8	100	66.7	66.7	75	0	33.3	0	100	33.3	33.3	50	73	70.1	66.9	64.4
	>PSL	20		0	0	0	0	0	9	7	5	4	11	8	9	7	2	4	4	12	0	2	0	1	2	С	1	65	75	79	85
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	ART6	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0	0	0	0	0	0	0	0	2	2	2	2
		6	<b>ART5</b>	0	0	0	0	0	0	0	-	-	-	0	0	0	0	0	0	-	0	0	0	0	٦	-	0	4	5	6	9
		∞	ART4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	fication	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Classi	6	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	TB3	0	0	0	0	0	0	0	0	0	0	٦	0	0	0	0	0	0	0	0	0	0	0	0	0	-	1	1	-
		4	TB2	0	0	0	0	0	0	2	e	2	4	0	1	-	1	4	-	0	0	2	0	0	0	e	0	19	21	24	24
0		Υ	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
i July 201		2	SV	-	-	0	0	0	12	8	4	-	7	10	8	7	1	2	4	15	0	4		1	5	Ð	2	63	78	85	66
Sun, 25		-	MCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total			-	-	0	0	0	12	10	8	4	12	11	6	6	2	9	9	16	0	9	-	1	9	6	2	89	107	118	132
	Time			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

NDC

for Entec

Site Location Direction		1 Bicesté Two w. Mon, 26	er Gate ay July 2010	Eacce	ss, Att -	barriel	r warnir	,ng sign	OSGR	: SP 589	36 2109	76							865 / Bi Automai	cester & Ju tic Traffic	Telford Iy 2010 : Count
Time	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	ß	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	<b>ART3</b>	ART4	<b>A</b> RT5	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	2	0	2	0	0	0	0	0	0	з	0	0	0	2	40	0	0	0	0	18.4	,
0100	-	0	-	0	0	0	0	0	0	0	0	0	0	-	100	0	0	0	0	23.2	
0200	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.4	
0300	4	-	с	0	0	0	0	0	0	0	0	0	0	-	25	-	25	0	0	18	
0400	12	0	6	0	с	0	0	0	0	0	0	0	0	7	58.3	2	16.7	0	0	20.7	23.5
0500	29	З	20	0	с	0	0	0	0	с	0	0	0	15	51.7	с	10.3	0	0	19.4	22.6
0090	50	2	44	0	2	0	0	0	0	2	0	0	0	33	66	13	26	0	0	21.4	24.8
0700	06	0	69	0	11	-	0	0	0	6	3	0	0	48	53.3	16	17.8	0	0	20.2	24.2
0800	75	٦	44	0	16	0	9	0	3	4	-	0	0	30	40	4	5.3	0	0	18.6	21.9
0060	64	-	38	0	12	-	0	0	2	10	0	0	0	34	53.1	8	12.5	0	0	20	23
1000	66	0	25	-	22	с	2	0	0	12	0	0	-	35	53	7	10.6	0	0	19.4	22.8
1100	65	0	23	0	26	-	0	0	0	6	9	0	0	21	32.3	2	7.7	0	0	18.1	22.1
1200	72	2	38	-	17	0	0	0	0	11	0	0	0	35	48.6	10	13.9	0	0	19.3	23.7
1300	80	-	46	0	19	0	2	0	0	10	2	0	0	34	42.5	9	7.5	0	0	19.1	22.4
1400	51	2	23	0	18	0	0	0	0	ω	0	0	0	19	37.3	9	11.8	0	0	19.4	23
1500	86	7	54	0	12	0	4	0	-	7	-	0	0	28	32.6	7	8.1	0	0	18.4	22.1
1600	100	0	6 <i>L</i>	0	6	1	0	0	1	8	2	0	0	59	59	15	15	0	0	20.8	23.7
1700	37	З	24	0	3	0	0	0	0	7	0	0	0	28	75.7	12	32.4	0	0	22	25.1
1800	19	0	12	0	4	0	0	0	0	3	0	0	0	12	63.2	9	31.6	0	0	21.3	25.3
1900	14	0	7	0	6	0	0	0	0	-	0	0	0	6	42.9	-	7.1	0	0	19.2	22.4
2000	6	0	5	0	2	0	0	0	0	2	0	0	0	7	77.8	3	33.3	0	0	21.5	I
2100	29	0	19	0	4	0	0	0	0	6	0	0	0	20	69	5	17.2	0	0	21.2	24.2
2200	13	0	8	0	3	0	0	0	0	2	0	0	0	7	53.8	3	23.1	0	0	19.5	23.9
2300	6	0	3	0	3	0	0	0	0	3	0	0	0	6	66.7	-	11.1	0	0	20.6	ı
07-19	805	20	475	2	169	7	14	0	7	95	15	0	1	383	47.6	102	12.7	0	0	19.6	23.5
06-22	907	22	550	2	183	7	14	0	7	106	15	0	1	449	49.5	124	13.7	0	0	19.7	23.5
00-90	929	22	561	2	189	7	14	0	7	111	15	0	1	462	49.7	128	13.8	0	0	19.7	23.7
00-00	981	26	597	2	195	7	14	0	7	117	15	0	-	488	49.7	134	13.7	0	0	19.7	23.5

for Entec Nationwide Data Collection

2010 Sount	۷pp	85		1	I		22.4	23.5	23.7	25.5	23.3	22.1	23	23.9	23.3	24.6	23.3	23.5	23.5	23.3	24.4	22.8	ŗ	25.1	23.5	I	I	23.5	23.7	23.7	23.7
uly raffic (	an			9.	6	6	9.	←.	0	.7	9.	6.	9.	9.	.5	.3	.7	.5	œ.	.1	8.	.4	9.	.1	.1	8.	8.	.5	۲.	۲.	.7
natic T	6 Me			21	10	1	20	21	2(	21	19	17	18	18	19	20	19	19	19	20	20	19	20	21	20	19	19	19	19	19	19
Auton	>SL29	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	40	0	14.3	8.3	16.7	13.8	27.1	13.6	6.2	11.9	15.9	11.8	16.5	13.9	11.5	13.6	11.4	17.1	12.5	16.7	30.8	14.8	22.2	14.3	12.8	14.1	14.2	14.2
	>SL1	24	ACPO	2	0	-	-	2	4	19	12	5	10	10	10	13	15	9	6	12	9	3	-	4	4	2	1	111	139	142	152
	%TSc	20	<u> </u>	09	09	12.9	75	58.3	55.2	74.3	6.8t	39.5	16.4	36.5	50.6	50.8	13.5	16.2	51.5	53.3	68.6	50	50	ó1.5	55.6	14.4	28.6	18.9	51	50.8	51.3
	SL >F					7			5 6	2	3 7	2	6	3 3	3	8	1 1	7 7	4	5 6	4 (	2		•	2	7		2 7	3	6	0
	Ч~	5					0,		-	2	4:	3	ñ	2	4	4	4.	2.	Ċ	5	2	1	(1)	8	1	4	(1	42	50	50	55
		12	DRI	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
260		7	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
936 21		10	ART6	-	Ļ	0	0	0	0	0	2	9	4	2	-	1	1	-	2	0	0	-	0	0	0	0	0	21	21	21	23
: SP 58		6	<b>ART5</b>	0	۱	4	З	2	3	4	9	L	ω	15	10	9	7	4	9	8	9	3	-	2	9	1	2	85	98	101	114
OSGR		8	ART4	0	0	0	0	0	0	0	0	2	2	0	3	1	1	0	0	0	0	0	0	0	0	0	0	6	6	6	6
ng sign	cation	7	ART3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	1	1
warnir	Classific	9	T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
barrier		2	TB3	0	0	0	0	0	0	0	1	-	0	0	0	1	0	-	0	0	1	0	-	0	0	0	0	5	6	6	6
s, Att -		4	TB2	0	0		2	-	2	1	14	15	17	20	27	6	25	15	12	11	4	4	0	4	1	4	2	173	179	185	191
acces		°	SVT	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	-	0	0	0	0	0	0	0	0	3	3	3	3
Gate E		2	SV	4	3	2	7	ω	22	63	61	47	52	25	41	57	74	28	44	85	22	15	4	7	19	4	3	551	644	651	697
cester ( o way , 27 July			lCL	0	0	0	0	-	2	2	4	1	-	1	2	3	0	3	-	1	3	1	0	0	1	0	0	21	24	24	27
- T ∎ Tue Tue Tue Tue Tue Tue Tue Tue	otal		2	5	5	7	12	12	29	70	88	81	84	63	85	79	108	52	66	105	35	24	6	13	27	6	7	170	186	002	072
	Tc										2						1		-	-								8	6	1	1
bite Locatic Directic	Time			0000	0100	0200	0300	0400	0500	0600	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	00-00

for Entec

Site Location Direction		1 Bicesté Two wa	er Gate - ay	Eacce	ss, Att -	barrier	warnir	,ngi sign,	OSGR:	SP 589.	36 2109	L							865 / Bi Automa	cester & Ju tic Traffic	Telford Ily 2010 : Count
Time	Total						Classific	cation						>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%	Mean	Vpp
		-	2	e	4	വ	9	7	8	6	10	1	12	20	20	24	24	35	35		85
		MCL	SV	SVT	TB2	TB3	T4	ART3	ART4	<b>ART5</b>	ART6	BD	DRT			ACPO	ACPO	DfT	DfT		
0000	6	0	4	0	2	0	0	0	0	2	-	0	0	9	66.7	2	22.2	0	0	21.7	
0100	6	0	4	0	-	0	0	0	0	-	0	0	0	4	66.7	0	0	0	0	20.4	
0200	ω	0	6	0	-	0	0	0	0	-	0	0	0	വ	62.5	с	37.5	0	0	22.3	
0300	15	-	ω	0	ю	0	0	0	0	с	0	0	0	10	66.7	9	40	0	0	21.9	25.5
0400	8	0	5	0	-	0	0	0	0	2	0	0	0	5	62.5	з	37.5	0	0	21.6	ı
0500	31	2	23	0	2	0	0	0	0	4	0	0	0	17	54.8	7	22.6	0	0	20.4	23.9
0090	72	0	62	0	9	0	-	0	0	0	с	0	0	51	70.8	19	26.4	0	0	21.5	25.5
0700	95	2	73	0	15	0	0	0	1	4	0	0	0	56	58.9	16	16.8	0	0	20.8	24.4
0800	82	-	47	-	15	0	6	0	2	6	-	0	0	40	48.8	10	12.2	0	0	19.9	23.5
0060	86	2	47	0	19	2	2	0	с	7	с	0	-	30	34.9	6	10.5	0	0	19.2	23.5
1000	09	-	29	0	17	2	0	0	2	Ð	4	0	0	23	38.3	7	11.7	0	0	18.6	23.5
1100	75	0	43	0	13	-	-	0	-	12	4	0	0	27	36	7	9.3	0	0	19.2	22.8
1200	103	2	71	0	18	0	0	1	3	5	3	0	0	45	43.7	7	6.8	0	0	19.3	22.8
1300	86	0	59	-	24	0	0	0	2	80	4	0	0	36	36.7	8	8.2	0	0	19.1	22.6
1400	53	-	29	-	15	0	0	0	2	4	-	0	0	29	54.7	9	11.3	0	0	19.8	23.3
1500	75	2	53	-	ω	-	0	0	0	7	с	0	0	29	38.7	6	12	0	0	18.6	23.3
1600	101	с	84	0	ω	0	-	0	0	2	0	0	0	61	60.4	15	14.9	0	0	20.6	23.9
1700	42	2	34	0	0	2	0	0	0	4	0	0	0	25	59.5	12	28.6	1	2.4	21.7	26.4
1800	24	0	16	0	4	0	0	0	0	4	0	0	0	12	50	2	8.3	0	0	20.2	22.4
1900	6	0	7	0	0	0	0	0	0	2	0	0	0	5	55.6	3	33.3	0	0	21.6	ı
2000	6	0	9	0	2	0	0	0	0	1	0	0	0	4	44.4	4	44.4	0	0	22.4	ı
2100	24	0	19	0	2	0	0	0	0	3	0	0	0	16	66.7	10	41.7	0	0	22.8	26.6
2200	12	0	8	0	2	0	0	0	0	2	0	0	0	8	66.7	2	16.7	0	0	21.8	23.9
2300	10	0	7	0	0	0	0	0	0	3	0	0	0	4	40	1	10	0	0	18.6	
07-19	894	16	585	4	156	8	10	1	16	74	23	0	1	413	46.2	108	12.1	1	0.1	19.7	23.5
06-22	1008	16	679	4	166	8	11	1	16	80	26	0	1	489	48.5	144	14.3	1	0.1	19.9	23.7
00-90	1030	16	694	4	168	8	11	1	16	85	26	0	1	501	48.6	147	14.3	1	0.1	19.9	23.7
00-00	1107	19	744	4	178	80	11	-	16	98	27	0	-	548	49.5	168	15.2	-	0.1	20	23.9

for Entec

Nationwide Data Collection

865 / Binastar & Talford

r Telford Jy 2010 C Count	Vpp	85		1					23.9	24.8	24.2	22.6	23.7	23.7	23.3	24.2	23.3	23.9	23.7	24.4	25.3	24.8	I	I	24.6	23.9		23.7	23.9	23.9	23.9
icester 8 Ju tic Traffio	Mean			20.2	19.3	20.1	21.1	20.4	20.1	21.3	20.3	18.9	19.5	19.4	19.5	20.3	19.5	19.7	19.6	20.8	21.3	20.3	19.8	21.6	20.9	19.3	18.8	19.9	20	20	20
865 / Bi Automa	>SL2%	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
-	>SL2	35	DfT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>SL1%	24	ACPO	16.2	6.3	19.4	25	14.5	16.8	24	17.3	7.8	14.2	14.3	12.3	16.1	12.5	14.2	13.3	17.9	22.4	17	17.5	29.1	20.1	14.5	7.9	14.6	15.6	15.5	15.6
	>SL1	24	ACPO	-	0	-	2	-	4	12	11	4	6	7	7	11	8	7	7	12	9	з	2	2	4	2	0	93	113	115	125
	>PSL%	20		54.1	46.9	52.8	65.6	58.2	50.3	68	54	44.2	45.6	45.2	45.5	57	45.4	46.4	48.2	60.6	64.5	53.6	42.9	60	61.2	39.5	36.8	50.4	51.9	51.6	51.8
	>PSL	20		с	2	с	6	D	13	34	36	25	28	23	26	39	31	21	25	42	17	6	4	5	12	4	2	323	377	384	415
		12	DRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	-	-
7		11	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 2109		10	ART6	0	0	0	0	0	0	0	1	2	2	2	2	1	1	-	-	0	0	-	0	0	0	0	0	13	14	14	15
: SP 589		6	<b>ART5</b>	-	-	2	-	-	2	2	4	5	7	ω	9	5	9	2	4	5	4	2	-	1	4	2	1	09	69	72	80
, OSGR		8	ART4	0	0	0	0	0	0	0	1	L	-	-	-	1	0	0	0	0	0	0	0	0	0	0	0	L	7	7	7
ing sign	ication	7	ART3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
er warn	Classif	9	T4	0	0	0	0	0	0	0	0	2	0	-	0	0	0	0	-	0	0	0	0	0	0	0	0	4	4	4	4
: - barrie		വ	TB3	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	വ	2
cess, Att		4	TB2	-	-	-	-	-	~	S	10	11	14	13	17	13	14	14	ω	7	3	с	2	1	3	3	-	126	135	139	146
e E acc		ۍ 	SVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
ter Gat vay		2	SV	ε	ε	2	9	2	20	42	49	34	36	26	29	48	44	25	36	55	18	10	9	5	13	9	3	410	477	486	525
1 Bices Two v		-	MCL	0	0	0		0	2	-	1	1		0	0	2	1	-	2	2	1	0	0	0	0	0	0	12	13	13	16
	Tota			വ	വ	വ	6	8	26	50	99	57	62	52	57	69	67	46	53	69	26	16	6	8	20	11	5	640	727	743	801
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0200	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec
Count		Vpp	ŝ	23.5	23.7	23.9	23.7	24.2	25.9	25.7	23.8	23.9	23.9	ean 5%ile 5L1% 5L2%	Ľ
c Traffic		Mean		19.7	19.7	20	20	20.1	21.6	21.5	19.9	20.0	20.0		Collectio
utomati		>SL2%	cs DfI	0	0	0.1	0	0	0	0	0.0	0.0	0.0	7 Day Ave. 5 Day Ave.	de Data (
A		SL2	دد DfT	0	0	-	0	0	0	0	0	0	1	-  Sun	ationwid
		SL1%	24 ACPO	13.7	14.2	15.2	13.9	17.6	27.5	27.3	14.8	15.6	15.6	Fri	Z
	-	>SL1	ACPO	134	152	168	164	161	60	36	156	125	875	Wed	
		>PSL%	N N	49.7	51.3	49.5	51.3	53.5	62.8	64.4	51.0	51.8	51.8	Tue Mon	
		>PSL	Ŋ	488	550	548	607	489	137	85	536	415	2904	200 200 200 200 200 200 200 200 200 200	
		ç	DRT	-	-	-	-	0	0	0	1	-	4	ART6 BD ART6 ART6 ART4 ART3 ART3 ART3 ART3 BR3 BR3 BR3 BR3 BR2 SVT SVT MCL	
			E B	0	0	0	0	0	0	0	0	0	0		
			ART6	15	23	27	22	12	2	2	20	15	103	7 Day Ave.	
			, ART5	117	114	98	114	67	17	6	108	80	563	5 Day Ave.	
			8 ART4	7	6	16	വ	6	2	0	6	7	48	Provide the second seco	
		cation	/ ART3	0	-	-	0	0	0	0	0	0	2	Sat	
		Classific	o 4	14	0	11	Ð	~	0	0	9	4	31	Fri	
			c TB3	7	9	ω	10	6	0	1	7	5	38	Thu	
			4 TB2	195	191	178	201	195	35	24	192	146	1019	Wed	
		(	s SVT	2	С	4	4	0	0	0	3	2	13		
ay Pool (1)		(	SV 2	597	697	744	801	579	158	66	684	525	3675	Mon	
Two wi			MCL	26	27	19	20	15	4	0	21	16	111	No. of Vehicles 1 1200 2 400 00 00 00 00 00 00 00 00 00 00 00 00	
		Total		981	1072	1107	1183	914	218	132	1051	801	5607		
Direction		Time		Mon	Tue	Wed	Thu	Fri	Sat	Sun	5 Day Ave.	7 Day Ave.	:	sydeið Graphs	1

ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf July 2 ic Cc		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Bins (	20	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 2109	Speec	- 0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893(		5 - 6	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sR: SP		0 - 5	55 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSO		5 - 5	09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sign		9 - 4	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arnin/		4	0	C	0	0	0	0	0	0	0	0	0	C	С	0	C	С	0	0	0	0	С	С	С	С	C	0	0	0	0
rrier w		) - 3	5 4	0	0	0	_	0	0	0	0	0	1	C	C	1	0	C	2	_	0	0	C	C	C	C	0			10	2
t - ba		2 - 3(	0 3	2	_	_		0	0	•	~	~	~	2	, ,	3				0		-		2	-	1	0	9	6	0	8
ss, At		) - 25	5 3	2			,0 ,0	4	 	5		6	3	4	6	8 1	i L	2	9	0	ц С		, ý	-0	2	. 2	0	12 7	76 8	79 9	03 9
acce		5 - 2(	20 2	2	9	1	4	e e	2	17 4	35 3	34 2	E Ot	37 2	t3 3	39 6	35 3	t2 3	22 3	25 6	1	6	8	4	1	L	1	72 4	12 4	20 4	51 5
ate E 310		0 - 1	15 2	0	0	3	-	0	` m	` m	2	4	16 4	10	4 4	9	4	17 7	10	10	` m	2	2	0	4	9	0	93 3	02 4	08 4	15 4
er Ga /ay July 20		-	10 1	0	0	0	0	0	2	0	0	0	1	0	2	0	2	2	` 0	` 0	0	0	0	0	0	1	0	7 6	7 1	8	10 1
Sicest WO M		<u> </u>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<del>- ш - <mark>-</mark></del>	otal			9	ω	ω	14	7	30	70	81	70	66	73	94	127	83	98	76	106	34	24	17	11	28	18	-	965	091	110	183
	ř																												1	-	-
Site Locatior Directior	Time			0000	0100	0200	0300	0400	0200	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

ford 010 bunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Tel July 2 fic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bico matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Auto		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 -	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Bins	55 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 210	Speed	- 00	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893		5 - 6	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sR: SP		0 - 5	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, OSG		5 - 5	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sign		0 - 4	15 E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arnin,		5 - 40	0 4	0	C	0	0	0	0	0	0	0	0	C	0	0	с С	0	C	0	0	0	0	0	0	0	0	(	(	- -	-
rier w		) - 35	5 4	0	) (	0	_	0	0	0	0	0	0	) (	_	0	) (	0	5	_	) (	)		0	_	)	0	ç (		-	~
t - ba		30	0 3	0	)	0		_	~	•	0	0	~	•	` ~	~		~		-	8	0 7	~	_		)	0	0	4	4	0
ss, At		) -   2E	5 3	5	5	~		` +	en en	-0	0	e e	5	5 2	د	4	7 (	9 9	6 5	3 1	2	1	<u> </u>	, +	ى ب	5 0	0	35 8	48 9	51 9	31 10
acce		5 - 20	0 2	с С	33	с с	е м	۔ م	9	9 2	5 4	23	35 3	31 2	9 2	24 3	6 3	1 1	0 2	2 1	3 1	9	6	4	33	7	. 3	57 3(	92 3,	02 3!	28 3
o ate E		0 - 15	5 2	-	0	0		0	-	8	5 3	20 2	~ ~	3 3	5	7 2	0 2	0 2	5 1	4 1	0 1	0	0	0	<del>-</del>	3	0	70 29	19 20	32 30	35 3.
er Ga ay <mark>Jly 201</mark>		-	1	0	0	0	0		-	0	-	2 2	0	0	0	0	5 1	0	0	0	0	0	0	0	0	0	0	8 7	8 7	8	8
iceste wo w i, 23 Ju		0 - 5	5 1	0	0	0	0	0	0	0	0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2	2	2 1
	otal			9	5	ω	11	11	27	57	91	80	85	70	59	73	88	47	48	41	31	15	15	6	21	12	4	128	130	146	014
	2																											2	8	8	5
Site Location Directior	Time			0000	0100	0200	0300	0400	0200	0090	0100	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

Nationwide Data Collection

for Entec

NDC

ford 010 bunt		135 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf July 2 ic Co		135 - 135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice natio		120 - 125		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 - 115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		90 - 05	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 - 00	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		80 - 85	3 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 - 80	3 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hqm)	70 - 75	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Bins (		2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 2109	Speed	- 4	3 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893(		2-6	3 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sr: SP		0 - 5	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSO		<u>د</u> م	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sign		- u - u - u	, ·	0	0	0	0		0	C	0	0	C	0	C	C	0	0	0	C	C	C	C	0	0	C	с С	0	0	0
arning		- 4 - 4					0	0	0	)	0	0	) (	0	) (	0	0	0	0	) (	) (	) (	) (	0	0	0	) (		)	
rier w		- <u>3</u>				0	0	-	•	0	0	0	)	0	-	)		0	0	)	) (	) (	)	<u> </u>	0	0				
- bar		30	, 0						0				0		· ·	0	·			· ·	0	0	0		0	0	9 t	9	•	
ss, Att		- 25	s 0	-	0	-	0	3	t 1	2	-	с	9	-	6		-	2	2	1	0	0	0	0	2	0	·E 6	5 35	5 37	9 42
acce		- <u>5</u>	" <sup>~</sup>	2	2	2	4	<u>ہ</u>	1	3	-		8	°	7	6	6	4	°	1	0	0	-	5	0	0	7 49	90	2 6(	6
10 te E		- 15 2	i –		2	-	1	7	9 (	1	5	0	L (	6	4	) 2	0	0	4	1 (	0 (	1 (	) 2	5	-	3	.6 1	4	5	0 6
er Ga ay uly 201		- 10	· -	-	0	-	0	-	0	0	0	-	0 0	-	0	0	0	_	0	0 0	0 0	0 0	0	0	0	0	2 2	2	5	5
iceste NO Wi at, 24 J		- u - u		0	0	0	0	0	0	0	0	` 0	0	0	0	0	0	` 0	0	) (	) (	) (	0	0	0	0	0	0	0	0
← @ ← <mark>%</mark>	tal	0	2	9	4	8	5	L:	1	0	4	6	0	-	1	12	91	12	16	4	0	1	3	4	3	5	32	61	69	18
	To							7	2	-			~	-	2	,	<u>,                                     </u>	<u>,                                     </u>	<u>,                                     </u>	-				-			1.	1	1	2
Site Location Direction	Time		0000	0100	0200	0300	0400	0500	0090	0200	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

NDC

for Entec

ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Teli uly 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
J J Traffi		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autor		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 01	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	d Bins	65 -	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 210	Spee	- 09	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5893		55 -	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR: SF		- 0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, OSG			50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g sigr		0 - 4	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/arnin		5 - 4	` 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rrier w		) - 3	2	0	0	0	0	0	C	C	0	0	C	C	0	C	C	-	0	0	0	0	C	C	0	C	0	1	1	_	_
t - ba		2 - 3	3	(	0	0	0	-	ā	0	_	0		~	8	ā	2	_	0	~	(	0	(		(		0	3	4	5	7
ss, At		0 - 25	5	0	0		0	0	+	2	` 	4	2	10	8	2		, 	2	6	0	0	0 0	, ,	5 0	2	0	1 2	0 2	3 2	7 2
acce		5 - 20	0	0	0	0	0	0	9	с С	ہ ص	0	1	33	3	0	0		-	2	0	4	0	0	4	9	` 	9 4	6 5	3 5	39 5
ate E. 010		0 - 1	15	-	-	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	1	0	0	0	0	5 1	6 2	9	 ∞
er Ga /ay July 2			, 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
l Bicest WO M		- 0	ک	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ш <b>— о</b>	otal			-	-	0	0	0	12	10	ω	4	12	11	6	6	2	6	6	16	0	9	-	-	9	6	2	89	107	118	132
	ž																														
Site Locatior Directior	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00

for Entec

Nationwide Data Collection

NDC

ord 010 unt			135 - 140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf <sup>1</sup> uly 2 ic Co		-	130 - 135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester J : Traff		-	125 130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice natic		-	120 - 125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 <i>,</i> Autor		-	115 120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	110 - 7 115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	105 - 1 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	95 - 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	90 - 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	85 - 90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	80 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-	- 22 80 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(400	(udu	- 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Dinc (*	) - Lucit	<u>, 0</u>	0	0	0	0	0	0	0	0	0	0		0		0	0	0	(	0	0		C	0	0	0	0	0	0	
2109	0000		- 65							0	•	0	0		)		)	0	0	)	)	0		)	)	)	0	•	-		
8936	J	<u>7</u>	- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
: SP 5		-	- 55 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JSGR		-	50 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ign, C		_	45 - 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s guir			40 - 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
warr			35 - 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arrier		-	30 - 35	0	0	0	0	0	0	1	0	0	0	0	0	0	0	-	0	1	0	0	0	0	1	0	0	2	4	4	4
Att - b		-	25 - 30	0	0	0	-	-	2	6	10	3	വ	с	2	ъ	4	с	6	6	6	9	-	2	1	2	0	65	75	77	81
ess, A		-	20 - 25	2	-	0	0	9	13	26	38	27	29	32	19	30	30	15	22	49	19	9	2	5	18	5	6	316	370	381	403
acc		-	15 - 20	2	0	-	2	4	6	15	36	31	23	22	30	27	37	25	42	36	7	9	Ð	-	7	3	3	322	350	356	374
bate F		-	10 - 15	-	0	0	0	-	с	2	9	13	9	٢	12	ω	6	7	10	5	2	-	с	1	2	2	0	86	94	96	101
way		-	5 -	0	0	0	-	0	2	0	0	-	<del>.                                    </del>	2	2	2	0	0	6	0	0	0	0	0	0	1	0	14	14	15	18
1 Bice Two			<u>, с</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Totol	lotal		5	-	-	4	12	29	50	06	75	64	99	65	72	80	51	86	100	37	19	14	6	29	13	6	805	907	929	981
te ocation irection	Time	emi		0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	00-90	00-00
Site Location Direction	Time	ami		0000	0100	0200	0300	0400	0500	0600	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	

for Entec Nationwide Data Collection

NDC

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ord 010 unt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telì July 2 ïc Cc		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester J : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 06	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		85 -	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 08	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		75 -	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(hdm)	- 02	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ĺ	Bins (	<u>-</u> 2	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2109	peed	9 - 0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58936	S	- 90	0 6	(	(		-	-	-	-	-		(		-	(	-		-	-	(	-		(	(	-	(		-	-	-
SP 5		- 55	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSGF		- 50	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sign, e		45 .	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ning		40 -	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
r war		35 -	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
oarrie		30 -	35	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	-	1	-	-
Att - k		25 -	30	2	0	-	0	-	4	1	9	2	6	2	6	10	12	5	7	6	4	2	-	3	3		0	77	95	96	104
cess, r		20 -	25	1	3	2	6	9	12	41	37	30	33	18	34	37	35	19	27	47	20	10	2	5	12	с	2	347	407	412	445
Eaco		15 -	20	1	١	с	2	വ	ω	15	33	29	22	27	32	23	52	20	22	41	7	7	ю	4	6	4	5	315	346	355	375
Gate		10 -	15	1	1		<del>.                                    </del>	0	4	с	11	16	21	1	ω	9	6	7	10	7	3	5	0	-	3	<del>.                                    </del>	0	114	121	122	130
ster ( way 27 July		2 -	10	0	0	0	0	0	-	0	1	4	2	2	2	2	0	1	0	-	1	0	0	0	0	0	0	16	16	16	17
1 Bice Two Tue, 1		- 0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total			5	2	7	12	12	29	70	88	81	84	63	85	79	108	52	99	105	35	24	9	13	27	6	7	870	986	1002	1072
Site Location Direction	Time			0000	0100	0200	0300	0400	0500	0090	0700	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	07-19	06-22	06-00	00-00

NDC

for Entec

ford 010 vunt		135 -	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
& Telf July 2 ic Co		130 -	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ester , : Traff		125 -	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ Bice matic		120 -	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
865 Autoi		115 -	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		110 -	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		105 -	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		100 -	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		95 -	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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