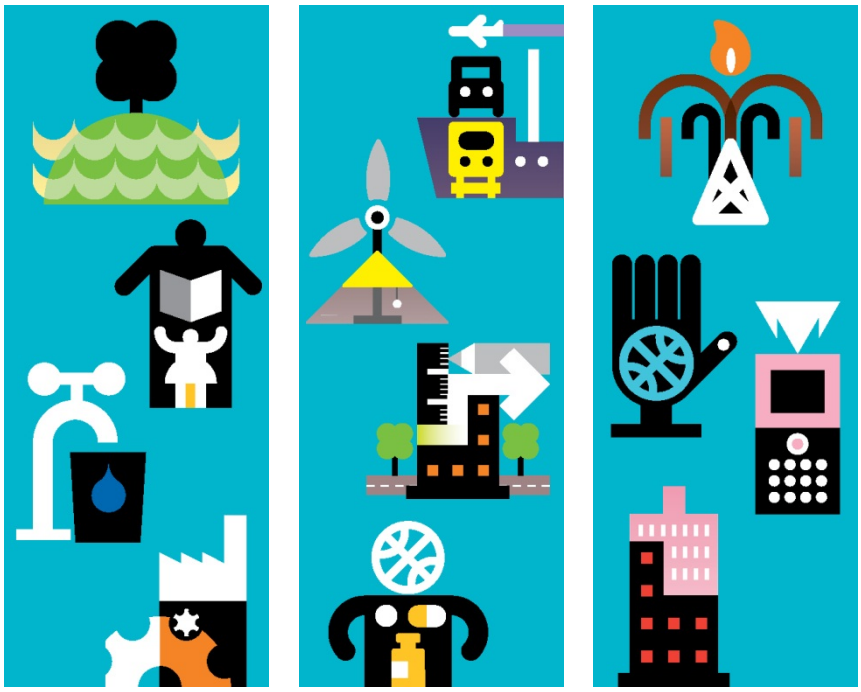

Lenham, Maidstone

Technical Note: Junction capacity assessment results

July 2015

Maidstone Borough Council

Mott MacDonald

Lenham, Maidstone

Technical Note: Junction capacity assessment results

July 2015

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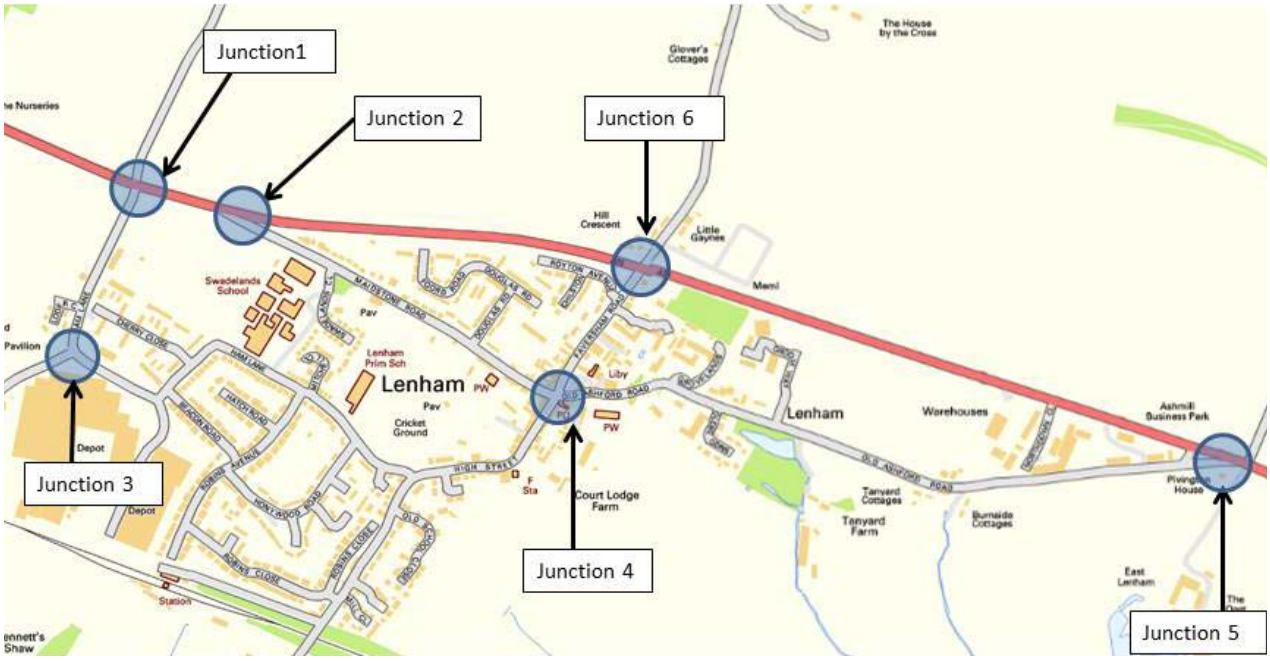
Contents

1 Introduction

Maidstone Borough Council (MBC) commissioned Mott MacDonald to undertake junction capacity assessments at six locations in Lenham, Maidstone. The junctions to be modelled are highlighted in **Figure 1.1** and listed below.

Figure 1.1: Lenham junction location



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- Junction 1 – Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20)
- Junction 2 – Ashford Road (A20) / Maidstone Road / Ashford Road (A20)
- Junction3 – Ham Lane / Old Ham Lane / Ham Lane
- Junction 4 – Faversham Road / Old Ashford Road / High Street / Maidstone Road
- Junction 5 – Ashford Road (A20) / Old Ashford Road / Ashford Road (A20)
- Junction 6 – Faversham Road / Ashford Road (A20) / Faversham Road / Ashford Road (A20)

All of the junctions are priority junctions, i.e. not roundabouts or signalised, and have been modelled for the existing year (2015) and future year (2031). The future year is defined as 2031, in order to fall in line with the timeframe MBC has anticipated the proposed developments to be completed. The future year has two scenarios; the first is 'Base', which includes forecasted background traffic for the year 2031, and the second is 'Design', which –includes forecasted background traffic for the year 2031, plus development traffic.

This document, referred to as a Technical Note, sets out the methodology used to calculate traffic flows, determine traffic distribution and summarise the results of the assessments.

Following this introductory section, the remainder of the Technical Note will be structured as follows:

Section 2 describes the data and methodology used and input assumptions for calculating 2015 and 2031 traffic flows

Section 3 summarise the results of the junction capacity analysis

Section 4 summarises the key findings

2 Data

2.1 Background

MBC provided information in the form of Transport Assessments / Transport Statements and a definitive list to determine which developments were required for the junction capacity assessments. The Transport Assessments (and any associated appendices) which were supplied are listed below:

- Residential development of 24 units at Maidstone Road, Lenham, Kent – TPHS – July 2014 – Transport Statement
- Land at Ham Lane, Lenham, Kent – dha Transport, Integrated transport & Travel Planning (August 2014) – Transport Statement
- The Paddock Site, Grove House, Lenham - Southern Heritage Development Limited (September 2014) – Transport Statement

Appendix A contains the list of developments which MBC confirmed as wanting included in the junction capacity models. Further detail of development traffic is described in S**ection 2.3.**

2.2 Existing traffic

In order to establish the existing traffic flows at each of the six junctions, the supplied Transport Assessments / Transport Statements were reviewed to see if there was any survey data, or peak hour traffic information, at the six junctions.

No such information was available, so an external traffic survey company was appointed to carry out fully classified turning counts at each junction. The surveys took place on Thursday 14th May 2015, on a neutral weekday during school term time, and outside of any public holidays. Collecting traffic flows on a neutral day should provide 'typical' traffic flow conditions.

The survey data for each of the six junctions, as listed in the introduction to this Technical Note, was analysed. The peak AM hour and peak PM hour was determined for each junction. Rather than using the general network peak hours, which are considered as being between 0800 and 0900 and between 1700 and 1800, the peak specific to each junction was determined. Having specific peak hours for each individual junction will generate capacity results for a worst case scenario, i.e. junction performance during existing peak and therefore, greatest demand.

The survey results were fully classified into vehicle type. To account for the differing vehicle type in the modelling, the data was converted to Passenger Car Units (PCUs) from vehicle units, to standardise the data.

HGV proportions were calculated using the May 2015 survey data, incorporating, OGV1, OGV2 and bus vehicle types. This proportional percentage was then applied to all scenarios modelled, keeping the HGV% consistent throughout the existing and future years. This is significant when identifying delays and queuing on individual junction arms, and therefore the HGV% was calculated and applied to each turning movement for each junction.

2.3 Development traffic information

The MBC Local Plan is at its draft stage, with no confirmation over what sites are definitely allocated for development and what sites are still aspirational.

However, MBC require that the junctions in the future year are assessed based on the draft Local Plan, so the potential impact of the various sites on all the six junctions can be assessed. In the absence of confirmed data in the Local Plan, MBC issued a list of development sites which they -required for the junction capacity assessments. This list was confirmed as the definitive list of sites to include in the modelling.

Appendix A contains the supplied list of development sites, which sets out location and development size. Where there was an associated Transport Assessment for a listed development, the number of arrivals and departures was contained within the document, which was isolated and used in this study. Where there was no Transport Assessment provided, the number of arrivals and departures was determined based on a worst case scenario trip rate from a supplied Transport Assessment for a different listed development within the Lenham study area.

2.3.1 Trip distribution

In order to determine traffic distribution associated with all listed development sites, two approaches were adopted.

1. The supplied Transport Assessments focused on junctions which the development in question would affect. The Transport Assessments did not necessarily contain distribution information for the junctions that this Technical Note looks at. If it did, the information was directly applied to the junction(s). Where limited distribution information was provided for this study area in the Transport Assessments, continuing assumptions were made on likely movements subsequent from the initial development traffic split.

2. Where no Transport Assessment had been completed as the development is still speculative or aspirational, i.e. the scheme has not been through planning, the distribution from the most comparable site with a Transport Assessment was used.

A final list of each scheme and its associated trip generation and trip distribution at the six junctions in Lenham was submitted to MBC for review and approval.

A list of the developments which MBC wanted accounting for in the junction capacity assessments and the agreed distribution can be found in **Appendix B**.

2.4 Growth

TEMPRO (version 6.2 with planning dataset 62 and NTM dataset AF09) has been interrogated with regards to forecast growth in background traffic. The growth rates for Maidstone (Rural) were then adjusted using the NTM for a rural minor or rural principal road.

The turning count data from the traffic surveys, carried out in May 2015, were uplifted to 2031, the agreed future year. **Table 2.1** and **Table 2.2** set out the growth rates used.

As shown in **Figure 1.1**, Junctions 1, 2, 5 and 6 are located on the A20, a principle road, so a rural principal growth rate was used. Junctions 3 and 4 are located on minor roads only, so rural minor growth rates were used.

Table 2.1: Tempro growth rates for rural principal – 2015-2031

Time period	Factor
Weekday AM peak	1.215732939
Weekday PM peak	1.229712149

Table 2.2: Tempro growth rates for rural minor –2015-2031

Time period	Factor
Weekday AM peak	1.213385000
Weekday PM peak	1.227337212

2.5 Models

MBC provided information, by way of Transport Assessments from their Planning Portal, confirming that the models contained in the supplied Transport Assessments can be used and replicated for this work.

No existing junction capacity assessments were contained within the supplied documents, so new models have been built based on geometric measurements from Ordnance Survey mapping. The model outputs are based on these features, which include major and minor road widths, right turn lanes and visibility distances.

3 Junctions Capacity Assessments

3.1 Introduction

Junction capacity analysis has been carried out at six priority junctions. These are described in **Table 3.1**.

Table 3.1: Priority junctions to be assessed

Junction	Road	Junction description		Right turn lane from major road into minor
1	Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20)	Four arm priority crossroads	Principal	Eastbound turning right – Yes Westbound turning right - Yes
2	Ashford Road (A20) / Maidstone Road / Ashford Road (A20)	Thee arm priority	Principal	Eastbound turning right – Yes Westbound turning right – n/a
3	Ham Lane / Old Ham Lane / Ham Lane	Three arm priority	Minor	No right turn lanes on any move
4	Faversham Road / Old Ashford Road / High Street / Maidstone Road	Four arm priority crossroads	Minor	No right turn lanes on any move
5	Ashford Road (A20) / Old Ashford Road / Ashford Road (A20)	Three arm priority	Principal	No right turn lanes on any move
6	Faversham Road / Ashford Road (A20) / Faversham Road / Ashford Road (A20)	Four arm priority crossroads	Principal	Eastbound turning right – Yes Westbound turning right - Yes

MBC agreed on the assessment years, which are 2015 and 2031, for both the AM and PM weekday peak hour.

PICADY (Junctions9) has been used to assess the capacity and operation performance of the junctions.

PICADY calculates a ratio of flow to capacity (RFC), estimated maximum queuing (in PCUs) and delay (in seconds). An RFC of 0.85 or below is the desirable threshold, but a junction would be considered to operate adequately between an RFC of 0.85 and 1.00. Any RFC values exceeding 1.00 indicates the junction would operate over maximum capacity and would become saturated with queuing and delay concerns.

If any modelling results exceed theoretical capacity; that being a RFC of 1.00, the junction capacity assessment has been re-run with proposed mitigation measures. Any improvements are model specific on the existing layout, and not based on engineering design standards, i.e. the mitigation has been applied within the model only. Appropriate technical layouts would have to take into consideration the model parameters and whether alternative layouts would be more suitable i.e. land availability and design and safety standards.

3.2 Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20)

Table 3.2 to **Table 3.4**, summarise the modelling results for junction 1 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.2: Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20) – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Ham Lane (S) – Ashford Road (W) and Pilgrims Way (N)	0	11	0.28	0	10	0.28
Ham Lane (S) – Ashford Road (E) and Pilgrims Way (N)	0	28	0.17	0	21	0.20
Ashford Road (E) – Ham Lane (S), Ashford Road (W) and Pilgrims Way (N)	0	0	0.00	0	7	0.00
Pilgrims Way (N) – Ashford Road (E), Ham Lane (S) and Ashford Road (W)	0	15	0.02	0	0	0.00
Ashford Road (W) – Ashford Road (E), Ham Lane (S) and Pilgrims Way (N)	0	11	0.27	0	10	0.27

Table 3.3: Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20) – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Ham Lane (S) – Ashford Road (W) and Pilgrims Way (N)	1	15	0.40	1	12	0.39
Ham Lane (S) – Ashford Road (E) and Pilgrims Way (N)	1	48	0.30	1	34	0.34
Ashford Road (E) – Ham Lane (S), Ashford Road (W) and Pilgrims Way (N)	0	0	0.00	0	8	0.00
Pilgrims Way (N) – Ashford Road (E), Ham Lane (S) and Ashford Road (W)	0	17	0.03	0	12	0.02
Ashford Road (W) – Ashford Road (E), Ham Lane (S) and Pilgrims Way (N)	1	13	0.36	1	12	0.35

Table 3.4: Pilgrims Way / Ashford Road (A20) / Ham Lane / Ashford Road (A20) – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Ham Lane (S) – Ashford Road (W) and Pilgrims Way (N)	1	22	0.51	1	15	0.45
Ham Lane (S) – Ashford Road (E) and Pilgrims Way (N)	2	**100**	0.56	1	53	0.46

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Ashford Road (E) – Ham Lane (S), Ashford Road (W) and Pilgrims Way (N)	0	0	0.00	0	9	0.00
Pilgrims Way (N) – Ashford Road (E), Ham Lane (S) and Ashford Road (W)	0	21	0.04	0	15	0.02
Ashford Road (W) – Ashford Road (E), Ham Lane (S) and Pilgrims Way (N)	1	15	0.41	1	14	0.40

- The modelling indicates that the junction is currently operating within desirable capacity.
- The modelling predicts that the junction would operate within capacity in Base 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.40 with a queue of 1 PCU and delay of 48 seconds, and for the PM peak, an RFC of 0.39, a queue of 1 PCU, and a delay of 34 seconds. These results are both for stream movements from the southern minor arm (Ham Lane), turning left onto Ashford Road (W) and ahead onto Pilgrims Way (N).
- The modelling predicts that the junction would operate within capacity in Design 2031, with minimal queuing. The maximum RFC in the AM peak is modelled as 0.56 with a queue of 2 and delay of 100 seconds. This is on the southern minor arm, Ham Lane, turning right onto Ashford Road (E) and ahead to Pilgrims Way (N). Although the model is showing the junction operating within capacity, the vehicles on this movement would have significant delays, waiting for 1.6 minutes, despite a queue of 2 PCUs. This is considered to be caused by the higher main line flows not creating a suitable gap for right turning traffic. The same stream movements have the highest RFC in the PM peak, with a RFC of 0. 46, a queue of 1 PCU, and a delay of 53 seconds.
- The northern minor arm Pilgrims Way (N) is a single track farm road with minimal traffic travelling in/out of this arm, even in the peak hour.

3.3 Ashford Road (A20) / Maidstone Road / Ashford Road (A20)

Table 3.5 to **Table 3.7** summarise the modelling results for junction 2 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.5: Ashford Road (A20) / Maidstone Road / Ashford Road (A20) – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Maidstone Road (S) – Ashford Road (E) and Ashford Road (W)	0	7	0.13	0	6	0.13
Ashford Road (W) – Ashford Road (E) and Maidstone Road (S)	0	8	0.12	0	8	0.14

Table 3.6: Ashford Road (A20) / Maidstone Road / Ashford Road (A20) – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Maidstone Road (S) – Ashford Road (E) and Ashford Road (W)	0	8	0.18	0	7	0.17
Ashford Road (W) – Ashford Road (E) and Maidstone Road (S)	0	9	0.15	0	8	0.19

Table 3.7: Ashford Road (A20) / Maidstone Road / Ashford Road (A20) – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Maidstone Road (S) – Ashford Road (E) and Ashford Road (W)	1	10	0.32	0	8	0.24
Ashford Road (W) – Ashford Road (E) and Maidstone Road (S)	0	11	0.22	1	10	0.31

- The junction currently operates without any queuing or delay concerns.

- The modelling predicts that the junction would operate within capacity in Base 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.18 with no predicted queueing and delays of -9 seconds. This is for the stream movement from the minor road, Maidstone Road (S), turning onto the main road, Ashford Road, both to the right and left. In the PM peak, the reverse movements, Ashford Road travelling ahead in an eastbound direction and turning right into Maidstone Road, have the greatest level of demand, with a maximum RFC of 0.19, no queue, and delay of 8 seconds.

- The modelling predicts that the junction would operate within capacity in Design 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.32 with a queue of 1 and delay of 11 seconds. This is alike the Base 2031 scenario, travelling from Maidstone Road turning onto Ashford Road. Like the Base 2031 scenario again, the reverse movements have the greatest level of demand in PM peak, with a RFC of 0. 31, a queue of 1 PCU, and a delay of 10 seconds.

3.4 Ham Lane / Old Ham Lane / Ham Lane

Table 3.8 to **Table 3.10** summarise the modelling results for junction 3 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.8: Ham Lane / Old Ham Lane / Ham Lane – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ham Lane – Ham Lane (N)	0	6	0.01	0	6	0.02
Old Ham Lane – Ham Lane (S)	0	8	0.01	0	9	0.01
Ham Lane (N) – Ham Lane (S) and Old Ham Lane	0	6	0.01	0	6	0.02

Table 3.9: Ham Lane / Old Ham Lane / Ham Lane – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ham Lane – Ham Lane (N)	0	6	0.02	0	6	0.02
Old Ham Lane – Ham Lane (S)	0	8	0.02	0	9	0.01
Ham Lane (N) – Ham Lane (S) and Old Ham Lane	0	5	0.01	0	6	0.03

Table 3.10: Ham Lane / Old Ham Lane / Ham Lane – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ham Lane – Ham Lane (N)	0	6	0.02	0	6	0.02
Old Ham Lane – Ham Lane (S)	0	8	0.02	0	9	0.01
Ham Lane (N) – Ham Lane (S) and Old Ham Lane	0	5	0.01	0	6	0.03

- The junction currently operates without any queuing or delay concerns.
- The modelling predicts that the junction would operate within capacity in Base 2031, with no queuing and congestion. The maximum RFC in the AM peak is from the minor road, Old Ham Lane, turning right into Ham Lane (S). The results on this are showing a RFC of 0.02, with no predicted queueing and delays of 8 seconds. delay In the PM peak, the maximum RFC is 0.03, with no predicted queuing and a delay of 9 seconds.
- The modelling predicts that the junction would operate within capacity in Design 2031, with no / minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.02 with no queuing, and a delay of 8 seconds. In the PM peak, the highest RFC is 0.03, no queuing, and a delay of 9 seconds.
- The road layout at this junction shows the minor road meets the major road at a bend, possibly affecting driver visibility.

3.5 Faversham Road / Old Ashford Road / High Street / Maidstone Road

Table 3.11 to **Table 3.13** summarise the modelling results for junction 4 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.11: Faversham Road / Old Ashford Road / High Street / Maidstone Road – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (E) – Faversham Road (N), High Street (S) and Maidstone Road (W)	1	10	0.32	1	10	0.33
Faversham Road (N) – Old Ashford Road (E), High Street (S) and Maidstone Road (W)	0	6	0.01	0	6	0.03
Maidstone Road (W) – Faversham Road (N) and Old Ashford Road (E)	0	7	0.07	0	7	0.07
Maidstone Road (W) – Old Ashford Road (E) and High Street (S)	0	10	0.13	0	10	0.15
High Street (S) – Faversham Road (N), Old Ashford Road (E) and Maidstone Road (W)	0	8	0.26	0	7	0.25

Table 3.12: Faversham Road / Old Ashford Road / High Street / Maidstone Road – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (E) – Faversham Road (N), High Street (S) and Maidstone Road (W)	1	11	0.40	1	12	0.41
Faversham Road (N) – Old Ashford Road (E), High Street (S) and Maidstone Road (W)	0	6	0.02	0	6	0.04
Maidstone Road (W) – Faversham Road (N) and Old Ashford Road (E)	0	8	0.14	0	8	0.09
Maidstone Road (W) – Old Ashford Road (E) and High Street (S)	0	11	0.17	0	11	0.19
High Street (S) – Faversham Road (N), Old Ashford Road (E) and Maidstone Road (W)	1	8	0.32	1	8	0.31

Table 3.13: Faversham Road / Old Ashford Road / High Street / Maidstone Road – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (E) – Faversham Road (N), High Street (S) and Maidstone Road (W)	2	25	0.70	1	18	0.59
Faversham Road (N) – Old Ashford Road (E), High Street (S) and Maidstone Road (W)	0	6	0.02	0	6	0.04

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Maidstone Road (W) – Faversham Road (N) and Old Ashford Road (E)	0	8	0.12	0	9	0.15
Maidstone Road (W) – Old Ashford Road (E) and High Street (S)	0	13	0.22	0	14	0.29
High Street (S) – Faversham Road (N), Old Ashford Road (E) and Maidstone Road (W)	1	9	0.38	1	9	0.41

- The junction currently operates without any queuing or delay concerns.
- The modelling predicts that the junction would operate within capacity in Base 2031, with minimal queuing and congestion. Turning movements in all directions from the eastern minor road (Old Ashford Road) turning right onto Faversham Road, south to the High Street and ahead to Maidstone Road has the greatest level of demand, with the RFC in the AM peak as 0.40, 1 PCU queueing and delays of 11 seconds. The same movements have the highest RFC in the PM peak, with a RFC of 0.41, 1 PCU queueing, and a delay of 12 seconds.
- The modelling predicts that the junction would operate within capacity in Design 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.70 with2 PCUs queuing, and a delay of 25 seconds. In the PM peak, the highest RFC is 0.59, 1 PCU queuing, and a delay of 18 seconds. These are also for the same movements as stated above for Base 2031.
- Three of the seven development sites are located along Old Ashford Road, within close proximity to the town centre, leading to the increase in RFC from the Base to Design scenario..
- When comparing the Base and Design scenarios, there is a reduction in junction capacity, with increased time delay, although the results remain within the desired modelling thresholds.

3.6 Ashford Road (A20) / Old Ashford Road / Ashford Road (A20)

Table 3.14 to **Table 3.16** summarise the modelling results for junction 5 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.14: Ashford Road (A20) / Old Ashford Road / Ashford Road (A20) – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (S) – Ashford road (E) and Ashford Road (W)	0	14	0.26	1	14	0.37
Ashford Road (W) – Ashford Road (E) and Old Ashford Road (S)	0	5	0.01	0	4	0.01

Table 3.15: Ashford Road (A20) / Old Ashford Road / Ashford Road (A20) – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (S) – Ashford road (E) and Ashford Road (W)	1	22	0.41	1	24	0.55
Ashford Road (W) – Ashford Road (E) and Old Ashford Road (S)	0	5	0.01	0	4	0.01

Table 3.16: Ashford Road (A20) / Old Ashford Road / Ashford Road (A20) – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Old Ashford Road (S) – Ashford road (E) and Ashford Road (W)	1	32	0.57	2	29	0.63
Ashford Road (W) – Ashford Road (E) and Old Ashford Road (S)	0	5	0.01	0	4	0.01

- The junction currently operates without any queuing or delay concerns.
- The modelling predicts that the junction would operate within capacity in Base 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.41 with 1 PCU queueing and delays of 22 seconds. The same movements have the highest RFC in the PM peak, with a RFC of 0.55, 1 PCU queueing, and a delay of 24 seconds. These results are for stream movements from the southern minor arm turning right and left onto the main road.
- The modelling predicts that the junction would operate within capacity in Design 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.57 with 1 PCU queuing, and a delay of 32 seconds. In the PM peak, the highest RFC is 0.63, 2 PCUs queuing, and a delay of 29 seconds (also for the same stream movements as mentioned above in the Base scenario).
- When comparing the Base and Design, there is a reduction in junction capacity, with increased time delay, but the results are within the desired modelling thresholds. As previously mentioned under junction 4, three of the seven development sites are located along Old Ashford Road, leading to the increase in RFC from the Base to Design scenario.

3.7 Faversham Road / Ashford Road (A20) / Faversham Road / Ashford Road (A20)

Table 3.17 to **Table 3.19** summarise the modelling results for junction 6 for the worst performing 15 minute time segments within the peak hour, i.e. the peak within the peak.

Table 3.17: Faversham Road / Ashford Road (A20) Faversham Road / Ashford Road (A20) – Existing 2015

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Faversham Road (S) – Ashford Road West and Faversham Road (N)	0	11	0.06	0	9	0.10
Faversham Road (S) – Ashford Road East and Faversham Road (N)	0	16	0.21	0	12	0.16
Ashford Road East – Faversham Road (S), Ashford Road West and Faversham Road (N)	0	7	0.06	0	7	0.07
Faversham Road (N) – Ashford Road East and Faversham Road (S)	0	10	0.20	0	8	0.06
Faversham Road (N) – Faversham Road (S) and Ashford Road West	0	18	0.29	0	13	0.10
Ashford Road West – Ashford Road East, Faversham Road (S) and Faversham Road (N)	0	7	0.01	0	6	0.02

Table 3.18: Faversham Road / Ashford Road (A20) Faversham Road / Ashford Road (A20) – Base 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Faversham Road (S) – Ashford Road West and Faversham Road (N)	0	14	0.10	0	12	0.17
Faversham Road (S) – Ashford Road East and Faversham Road (N)	1	24	0.32	0	18	0.27
Ashford Road East – Faversham Road (S), Ashford Road West and Faversham Road (N)	0	8	0.08	0	8	0.11
Faversham Road (N) – Ashford Road East and Faversham Road (S)	1	15	0.31	0	11	0.11
Faversham Road (N) – Faversham Road (S) and Ashford Road West	1	29	0.43	0	20	0.19
Ashford Road West – Ashford Road East, Faversham Road (S) and Faversham Road (N)	0	8	0.02	0	6	0.03

Table 3.19: Faversham Road / Ashford Road (A20) Faversham Road / Ashford Road (A20) – Design 2031

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Faversham Road (S) – Ashford Road West and Faversham Road (N)	0	13	0.21	0	13	0.24
Faversham Road (S) – Ashford Road East and Faversham Road (N)	1	28	0.37	0	20	0.30
Ashford Road East – Faversham Road (S), Ashford Road West and Faversham Road (N)	0	8	0.08	0	9	0.11
Faversham Road (N) – Ashford Road East and Faversham Road (S)	1	17	0.33	0	11	0.12

	AM			PM		
	Queue (PCUs)	Delay (s)	RFC	Queue (PCUs)	Delay (s)	RFC
Faversham Road (N) – Faversham Road (S) and Ashford Road West	1	33	0.46	0	22	0.21
Ashford Road West – Ashford Road East, Faversham Road (S) and Faversham Road (N)	0	9	0.05	0	7	0.10

- The junction currently operates without any queuing or delay concerns.

- The modelling predicts that the junction would operate within capacity in Base 2031, with minimal queuing and congestion. Peak demand during the AM peak is predicted from the northern minor arm, Faversham Road north, travelling ahead to Faversham Road south and right onto Ashford Road westbound. The maximum RFC is modelled as 0.43 with 1 PCU queueing and delays of 29 seconds. In the PM peak, the opposite movements, those being from the southern minor arm, Faversham Road south, turning right onto Ashford Road and ahead to Faversham Road north is predicted to experience highest demand, with a RFC of 0.27, no predicted queueing, and a delay of 20 seconds.

- The modelling predicts that the junction would operate within capacity in Design 2031, with minimal queuing and congestion. The maximum RFC in the AM peak is modelled as 0.46 with 1 PCU queuing, and a delay of 33 seconds. In the PM peak, the highest RFC is 0.30, no queuing, and a delay of 22 seconds (also for the same stream movements as mentioned above in the Base scenario).

- When comparing the Base and Design, there is a reduction in junction capacity, with increased time delay, but the results are within the desired modelling thresholds.

3.8 Modelling summary

In summation, the modelling for existing 2015, Base 2031 and Design 2031 show that all six junctions would operate within capacity.

The modelling is based on, and sensitive to the various inputs. These inputs are:

- Peak hour survey data for each junction;
- Development sites (number of and locations) and associated development traffic;
- Distribution of development across the road network; and
- Junction layout and geometric parameters

The developments to be accounted for, and associated traffic distribution was supplied and agreed by MBC. If there is an increase / decrease in allocated development, or a change in allocated development site locations, the modelling and subsequent capacity assessment will need amending to reflect the change in development trips across the network.

3.9 Safety

This study has been concerned with how the predicted growth in background traffic to 2031, plus the application of development traffic associated with the schemes stated by MBC, would affect junction capacity, i.e. would the junction operate within what the industry considers acceptable.

The agreed scope was to assess junction operation in the Existing 2015, Base 2031 and Design 2031 scenarios, and not to analyse and review other aspects of junction operation such as safety. However, junction layout and safety could be considered interdependent of one another. Visibility and priority are two elements of junction safety. It should be noted that although not unsafe, priority crossroads are considered less safe that other types of junctions because of the number of movements dependent on drivers waiting and giving way. TD42/95 Part 6 Section 2 Volume 6 states that various methods have been shown to improve major/minor priority junctions. Chapter 4, page 4/1 lists the improvements, which include replacement of rural crossroads with staggered junctions, installation of channelising islands on minor rural approaches at crossroads, improving visibility, provision of good skid resistant surfaces and conversion of urban major/minor priority junctions to traffic signal or roundabout control.

All of the junctions which were modelled are predicted to operate within capacity in Design 2031. However, a possible recommendation in terms of improving safety would be to signalise the crossroads, as traffic flow on all arms would be controlled. Further studies into land availability and safety at the junctions would need to be undertaken to provide evidence of accident history and justification for improvement works.

Appendix C contains all of the modelling output files.

4 Summary

In summary:

- Traffic information was supplied by MBC by way of Transport Assessments and a definitive list of development sites;
- MBC confirmed that the Local Plan is still draft but the assessments are to account for development sites as currently stated, and how these sites would affect the six junctions. In the absence of confirmed allocated sites, MBC supplied a list of what developments to account for;
- The Transport Assessments were reviewed, and where possible, information was used to estimate traffic distribution. In the absence of information, assumptions were made based on the key destinations and trip attractors;
- MBC reviewed and agreed the development distribution for all developments, for both weekday AM and PM peak hours;
- Traffic surveys were carried out at the six junctions to establish existing traffic flows. These were converted into PCUs. The peak hour for each individual junction has been modelled rather than what is considered typical network peaks (0800-0900 and 1700-1800);
- Ordnance survey mapping was used to measure key geometric parameters for the PICADY models;
- The six priority junctions operate in Design 2031 without any queuing or capacity concerns. This modelling is based on the development sites provided and the associated distribution through the junctions;
- The presence of right turn lanes on the major road on several of the junctions allows vehicles to wait without blocking or inhibiting the main line through flow. This stacking ability means capacity on the mainline, which is generally where the higher traffic flows are, is not reduced; and
- The junctions operate within capacity, but possible mitigation would be to investigate accident history at the crossroads to determine whether signalising the crossroads would improve safety.

Appendices

Appendix A. List of developments from MBC

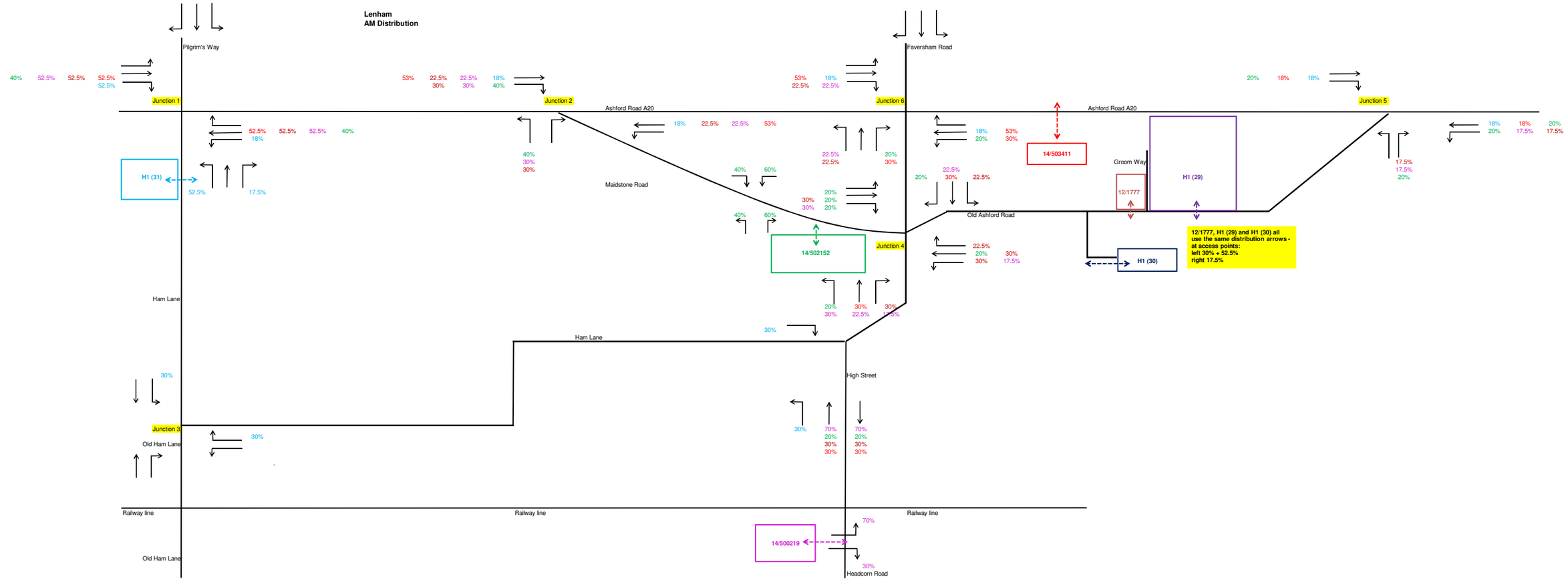
Lenham Allocated Sites									
Site Address	**Grid Ref.**	**Location type**	**Application number**	**Description of development**	**No. of houses and Mix**	**Private Dwellings**	**Affordable Dwellings**	**Other**	**Notes**
H1 (29) Tanyard Farm Old Ashford Road Lenham	TQ 90332 52104	Adjacent to Rural Service Centre			155	60%	40%		No Current application.
H1 (30) Glebe Gardens Lenham	TQ 90178 52037	Adjacent to Rural Service Centre	14/0174 (OUTLINE)	Outline application for the erection of 9 houses with access to be considered at this stage and all other matters reserved for future consideration.	9 units	100%	0%		
H1 (31) Ham Lane Lenham	TQ 89013 52504	Adjacent to Rural Service Centre	14/502973/FULL REFUSED 12/03/2015	Erection of 82 new residential dwellings together with access onto Ham Lane, internal roads, parking, landscaping and ancillary works on land at Ham Lane	36 x 4-bed houses 17 x 3-bed houses 9 x 2-bed houses 8 x 2-bed flats 12 x 1-bed flats	49 units 32 x 4-bed houses 10 x 3-bed houses 7 x 2-bed houses	33 units 12 x 1-bed flats 6 x 2-bed flats 4 x 2-bed houses 7 x 3-bed houses 4 x 4-bed houses		LIKELY TO BE AN APPEAL CABINET AGREED ON 4 FEBRUARY 2015 THAT THE SITE SHOULD BE SUBJECT TO REGULATION 18 CONSULTATION WITH A VIEW TO IT BEING DELETED AS A PROPOSED ALLOCATION
Other sites under construction or submitted									
The Paddock Grove House Old Ashford Road Lenham	TQ 90104 52319	Adjacent to Rural Service Centre	14/503411/FULL	Residential Development comprising erection of 23 dwellings.	23 5 x 4 bed houses 10 x 3 bed houses 4 x 2 bed houses 4x 1 bed flats	14 2 x 2-bed houses 7 x 3-bed houses 5 x 4-bed houses	9 units 4 x 1-bed flats 2 x2-bed houses 3 x 3- bed houses		APPLICATION PENDING
Land At Northland and Groom Way, Old Ashford Road, Lenham	TQ 90215 52144	Adjacent to Rural Service Centre	12/1777	Erection of 12(no) dwellings and associated works	12 8 x 3-bed houses 4 x-4-bed houses	100%		Occupancy of 9 Units (4-12 inclusive) is restricted by condition to persons of 55 years and over	UNDER CONSTRUCTION
Lenham United Reformed Church Maidstone Road Lenham	TQ 89753 52184	Within Rural Service Centre	14/502152/FULL	Demolition of United Reform Church and adjoining hall to facilitate the erection of 24 No. dwellings on this	24 6 x 2-bed houses 14 x 3-bed houses 4 x 4-bed houses	14 2 x 2-bed houses 9 x 3-bed houses 3 x 4-bed houses	10 4 x 2-bed houses 5 x 3-bed houses 1 x 4-bed house		APPLICATION PENDING

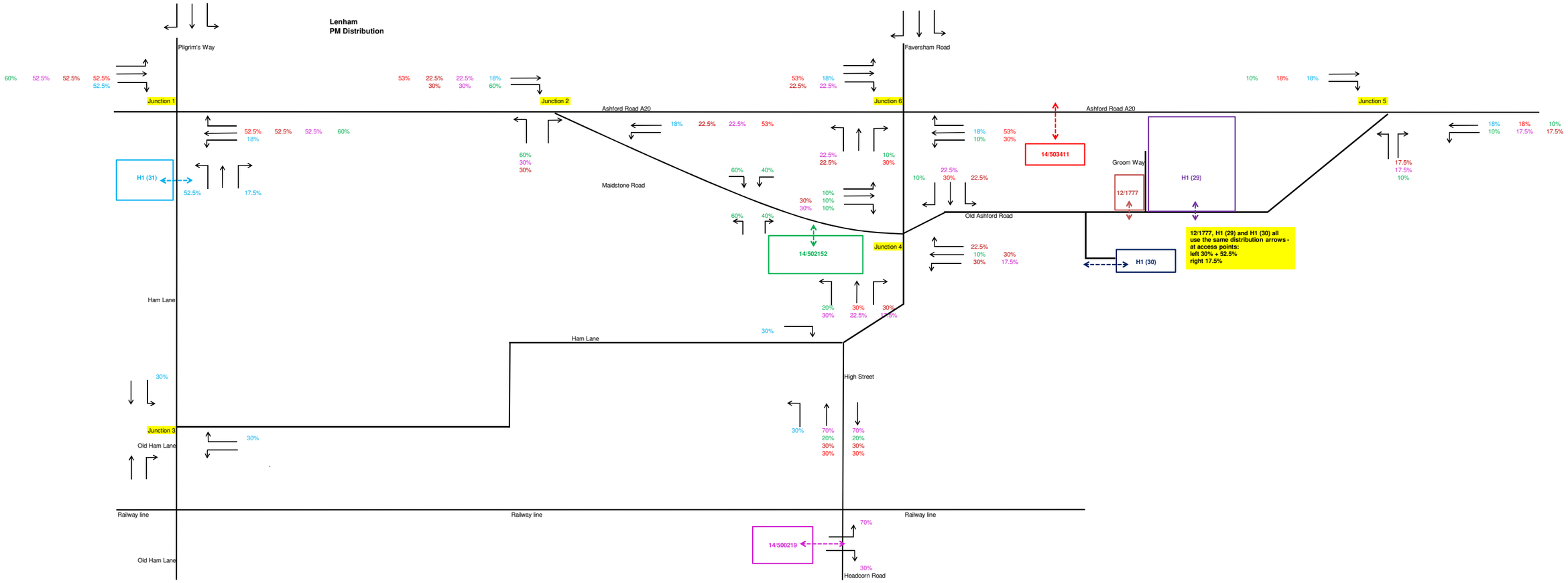
				land and land to the south with associated parking, access (from Maidstone Road) and landscaping					
The Old Goods Yard Headcorn Road Lenham	TQ 89324 51664	Adjacent to Rural Service Centre	14/500219/OUT REFUSED 04/09/2014	Outline application for the demolition of existing commercial buildings and the development (and re-development) of land for residential purposes. With all matters reserved for future consideration	66 2 x 1-bed flats 7 x 2-bed flats 10 x 2-bed houses 28 x 3-bed houses 11 x 4-bed houses 8 x 5-bed houses	39 2 x 2-bed houses 18 x 3-bed houses 11 x 4-bed houses 8 x 5-bed houses	27 2 x 1-bed flats 7 x 2-bed flats 8 x 2-bed houses 10 x 3-bed houses		APPEAL LIKELY TO BE SUBMITTED

Lenham as a Broad Location

Lenham has been earmarked under Policy H1(3) of the Regulation 18 Consultation version of the Maidstone Borough Local Plan 2014 as a broad location for the development of up to 1500 dwellings in the period after 2026. This would be reviewed in 2021 when the Local Plan would be subject to a mid-life review. Early indications are that land could be available to the west of Ham Lane/Old Ham Lane and to the south of Old Ashford Road split roughly 50-50 between E and W of the village.

Appendix B. Development distribution


Lenham
AM Distribution
Pilgrim's Way
Faversham Road
Junction 1
Junction 2
Junction 6
Junction 5
Junction 4
Junction 3
Ashford Road A20
Ashford Road A20
Maidstone Road
Old Ashford Road
Groom Way
Ham Lane
Ham Lane
High Street
Old Ham Lane
Old Ham Lane
Railway line
Railway line
Railway line
Headcorn Road
H1 (31)
H1 (29)
H1 (30)
12/1777
14/503411
14/502152
14/500219
12/1777, H1 (29) and H1 (30) all use the same distribution arrows - at access points: left 30% + 52.5% right 17.5%


Lenham
PM Distribution
Pilgrim's Way
Junction 1
Junction 2
Junction 6
Junction 5
Ashford Road A20
Ashford Road A20
Faversham Road
Maidstone Road
Junction 4
Junction 3
Ham Lane
Ham Lane
High Street
Old Ham Lane
Old Ham Lane
Railway line
Railway line
Railway line
Old Ashford Road
Groom Way
H1 (31)
H1 (30)
H1 (29)
12/1777
14/503411
14/502152
14/500219
Headcorn Road
12/1777, H1 (29) and H1 (30) all use the same distribution arrows - at access points: left 30% + 52.5% right 17.5%

Appendix C. Junction assessment outputs

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

Filename: J1 Ashford Road Ham Lane Pilgrims Way.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J1 Ashford Road Ham Lane Pilgrims Way
Report generation date: 17/07/2015 14:19:41

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J1 Ashford Road / Ham Lane / Pilgrims Way - Base 2015							
Stream B-CD	0.4	10.94	0.28	B	0.4	9.55	0.28	A
Stream B-AD	0.3	28.35	0.17	D	0.3	20.54	0.20	C
Stream A-BCD	0.0	0.00	0.00	A	0.0	7.10	0.00	A
Stream A-B								
Stream A-C								
Stream D-ABC	0.0	14.93	0.02	B	0.0	0.00	0.00	A
Stream C-ABD	0.4	10.62	0.27	B	0.4	10.01	0.27	B
Stream C-D								
Stream C-A								
	J1 Ashford Road / Ham Lane / Pilgrims Way - Base 2031							
Stream B-CD	0.7	14.74	0.40	B	0.6	12.47	0.39	B
Stream B-AD	0.5	47.92	0.30	E	0.5	33.84	0.34	D
Stream A-BCD	0.0	0.00	0.00	A	0.0	8.04	0.00	A
Stream A-B								
Stream A-C								
Stream D-ABC	0.0	16.86	0.03	C	0.0	11.80	0.02	B
Stream C-ABD	0.6	13.28	0.36	B	0.6	12.01	0.35	B
Stream C-D								
Stream C-A								
	J1 Ashford Road / Ham Lane / Pilgrims Way - Base 2031 + Dev							
Stream B-CD	1.1	22.35	0.51	C	0.8	15.38	0.45	C
Stream B-AD	1.5	100.13	0.56	F	0.8	53.26	0.46	F
Stream A-BCD	0.0	0.00	0.00	A	0.0	8.83	0.00	A
Stream A-B								
Stream A-C								
Stream D-ABC	0.1	21.11	0.04	C	0.0	14.76	0.02	B
Stream C-ABD	0.7	15.43	0.41	C	0.7	13.54	0.40	B
Stream C-D								
Stream C-A								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

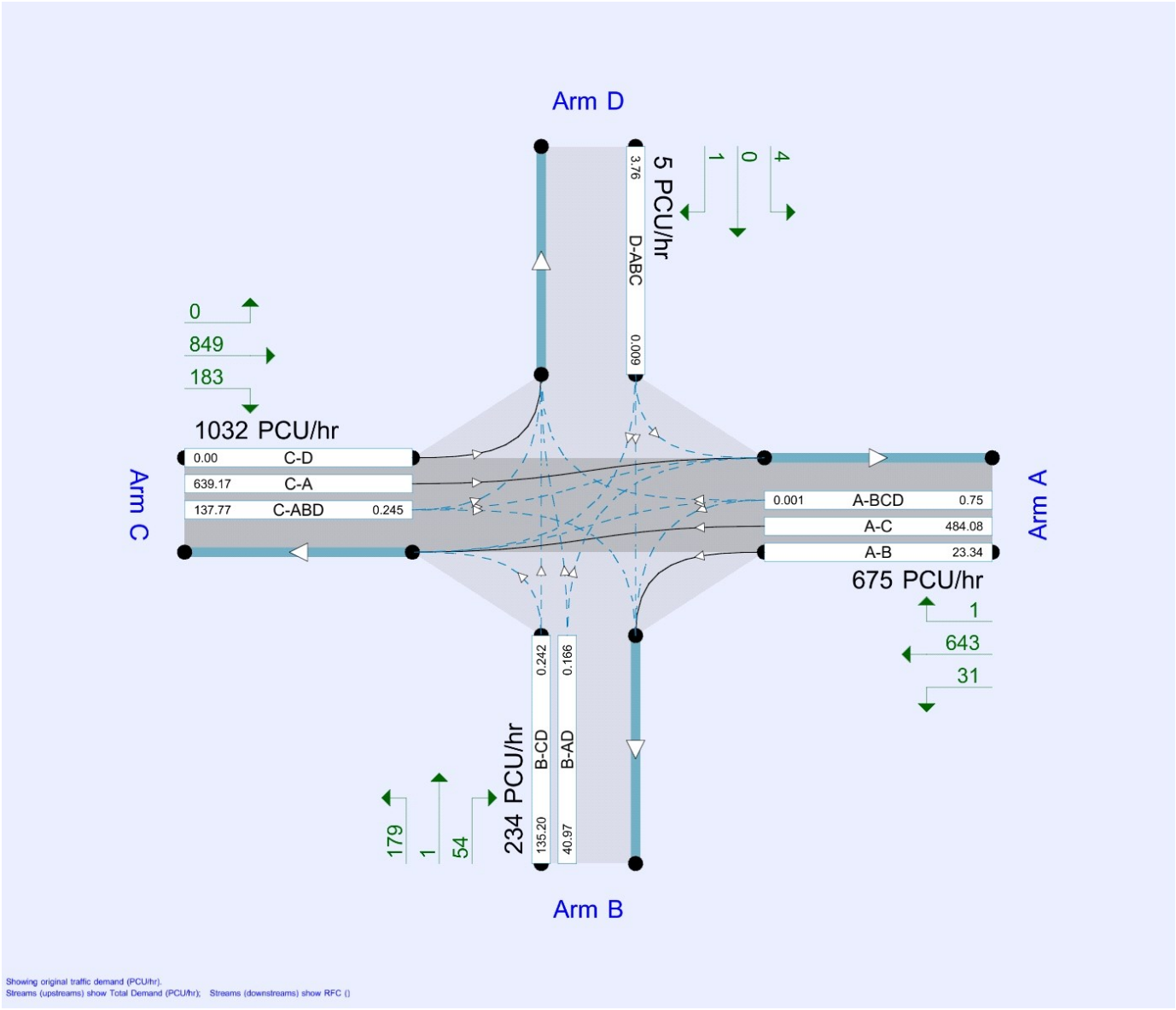
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	07:30	09:00	15	✓
Base 2015	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031	AM	ONE HOUR	07:30	09:00	15	✓
Base 2031	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031 + Dev	AM	ONE HOUR	07:30	09:00	15	✓
Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	2.51	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Ashford Road E		Major
B	Ham Lane S		Minor
C	Ashford Road W		Major
D	Pilgrims Way N		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	6.45		✓	2.80	250.0	✓	5.00
C	6.45		✓	2.60	160.0	✓	11.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare		10.00	7.25	5.30	4.00	3.50		2.00	35	19
D	One lane	3.00								35	65

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
1	A-D	765.675	-	-	-	-	-	-	0.291	0.416	0.291	-	-	-
1	B-A	486.778	0.087	0.220	0.220	-	-	-	0.138	0.314	-	0.220	0.220	0.110
1	B-C	721.717	0.108	0.274	-	-	-	-	-	-	-	-	-	-
1	B-D, nearside lane	565.494	0.101	0.255	0.255	-	-	-	0.161	0.365	0.161	-	-	-
1	B-D, offside lane	486.778	0.087	0.220	0.220	-	-	-	0.138	0.314	0.138	-	-	-
1	C-B	695.641	0.264	0.264	0.378	-	-	-	-	-	-	-	-	-
1	D-A	664.856	-	-	-	-	-	-	0.253	-	0.100	-	-	-
1	D-B, nearside lane	520.941	0.148	0.148	0.336	-	-	-	0.235	0.235	0.093	-	-	-
1	D-B, offside lane	520.941	0.148	0.148	0.336	-	-	-	0.235	0.235	0.093	-	-	-
1	D-C	520.941	-	0.148	0.336	0.118	0.235	0.235	0.235	0.235	0.093	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:30	09:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	691.00	100.000
B		ONE HOUR	✓	160.00	100.000
C		ONE HOUR	✓	625.00	100.000
D		ONE HOUR	✓	8.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	54.000	637.000	0.000
	B	31.000	0.000	128.000	1.000
	C	502.000	123.000	0.000	0.000
	D	5.000	2.000	1.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.08	0.92	0.00
	B	0.19	0.00	0.80	0.01
	C	0.80	0.20	0.00	0.00
	D	0.63	0.25	0.13	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	17	7	0
	B	35	0	8	0
	C	7	6	0	0
	D	100	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.170	1.070	1.000
	B	1.350	1.000	1.080	1.000
	C	1.070	1.060	1.000	1.000
	D	2.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:30-07:45	A	520.22	520.22
	B	120.46	120.46
	C	470.53	470.53
	D	6.02	6.02
07:45-08:00	A	621.19	621.19
	B	143.84	143.84
	C	561.86	561.86
	D	7.19	7.19
08:00-08:15	A	760.81	760.81
	B	176.16	176.16
	C	688.14	688.14
	D	8.81	8.81
08:15-08:30	A	760.81	760.81
	B	176.16	176.16
	C	688.14	688.14
	D	8.81	8.81
08:30-08:45	A	621.19	621.19
	B	143.84	143.84
	C	561.86	561.86
	D	7.19	7.19
08:45-09:00	A	520.22	520.22
	B	120.46	120.46
	C	470.53	470.53
	D	6.02	6.02

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.28	10.94	0.4	B	117.97	176.96
B-AD	0.17	28.35	0.3	D	28.85	43.27
A-BCD	0.00	0.00	0.0	A	0.00	0.00
A-B					49.55	74.33
A-C					584.52	876.78
D-ABC	0.02	14.93	0.0	B	7.34	11.01
C-ABD	0.27	10.62	0.4	B	112.87	169.30
C-D					0.00	0.00
C-A					460.64	690.97

Main Results for each time segment

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	96.77	96.77	24.19	0.00	572.35	0.169	95.90	0.0	0.2	8.143	A
B-AD	23.69	23.69	5.92	0.00	295.12	0.080	23.23	0.0	0.1	17.756	C
A-BCD	0.00	0.00	0.00	0.00	1308.62	0.000	0.00	0.0	0.0	0.000	A
A-B	40.65	40.65	10.16	0.00			40.65				
A-C	479.57	479.57	119.89	0.00			479.57				
D-ABC	6.02	6.02	1.51	0.00	445.24	0.014	5.94	0.0	0.0	11.918	B
C-ABD	92.60	92.60	23.15	0.00	558.17	0.166	91.77	0.0	0.2	8.166	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	377.93	377.93	94.48	0.00			377.93				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	115.57	115.57	28.89	0.00	541.65	0.213	115.28	0.2	0.3	9.109	A
B-AD	28.27	28.27	7.07	0.00	257.48	0.110	28.08	0.1	0.2	21.061	C
A-BCD	0.00	0.00	0.00	0.00	1246.82	0.000	0.00	0.0	0.0	0.000	A
A-B	48.54	48.54	12.14	0.00			48.54				
A-C	572.65	572.65	143.16	0.00			572.65				
D-ABC	7.19	7.19	1.80	0.00	410.73	0.018	7.17	0.0	0.0	12.975	B
C-ABD	110.57	110.57	27.64	0.00	531.49	0.208	110.31	0.2	0.3	9.054	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	451.29	451.29	112.82	0.00			451.29				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	141.57	141.57	35.39	0.00	497.31	0.285	141.04	0.3	0.4	10.892	B
B-AD	34.59	34.59	8.65	0.00	205.30	0.168	34.18	0.2	0.3	28.195	D
A-BCD	0.00	0.00	0.00	0.00	1162.16	0.000	0.00	0.0	0.0	0.000	A
A-B	59.46	59.46	14.86	0.00			59.46				
A-C	701.35	701.35	175.34	0.00			701.35				
D-ABC	8.81	8.81	2.20	0.00	359.74	0.024	8.77	0.0	0.0	14.917	B
C-ABD	135.43	135.43	33.86	0.00	494.60	0.274	134.95	0.3	0.4	10.596	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	552.71	552.71	138.18	0.00			552.71				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	141.57	141.57	35.39	0.00	496.95	0.285	141.56	0.4	0.4	10.935	B
B-AD	34.59	34.59	8.65	0.00	205.17	0.169	34.57	0.3	0.3	28.347	D
A-BCD	0.00	0.00	0.00	0.00	1161.74	0.000	0.00	0.0	0.0	0.000	A
A-B	59.46	59.46	14.86	0.00			59.46				
A-C	701.35	701.35	175.34	0.00			701.35				
D-ABC	8.81	8.81	2.20	0.00	359.58	0.025	8.81	0.0	0.0	14.927	B
C-ABD	135.43	135.43	33.86	0.00	494.60	0.274	135.41	0.4	0.4	10.623	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	552.71	552.71	138.18	0.00			552.71				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	115.57	115.57	28.89	0.00	541.18	0.214	116.09	0.4	0.3	9.153	A
B-AD	28.27	28.27	7.07	0.00	257.32	0.110	28.66	0.3	0.2	21.188	C
A-BCD	0.00	0.00	0.00	0.00	1246.16	0.000	0.00	0.0	0.0	0.000	A
A-B	48.54	48.54	12.14	0.00			48.54				
A-C	572.65	572.65	143.16	0.00			572.65				
D-ABC	7.19	7.19	1.80	0.00	410.52	0.018	7.23	0.0	0.0	12.984	B
C-ABD	110.57	110.57	27.64	0.00	531.49	0.208	111.03	0.4	0.3	9.087	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	451.29	451.29	112.82	0.00			451.29				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	96.77	96.77	24.19	0.00	571.86	0.169	97.07	0.3	0.2	8.191	A
B-AD	23.68	23.68	5.92	0.00	294.87	0.080	23.89	0.2	0.1	17.859	C
A-BCD	0.00	0.00	0.00	0.00	1307.63	0.000	0.00	0.0	0.0	0.000	A
A-B	40.65	40.65	10.16	0.00			40.65				
A-C	479.57	479.57	119.89	0.00			479.57				
D-ABC	6.02	6.02	1.51	0.00	444.97	0.014	6.05	0.0	0.0	11.932	B
C-ABD	92.60	92.60	23.15	0.00	558.17	0.166	92.88	0.3	0.2	8.207	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	377.93	377.93	94.48	0.00			377.93				

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	2.50	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2015	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	495.00	100.000
B		ONE HOUR	✓	181.00	100.000
C		ONE HOUR	✓	745.00	100.000
D		ONE HOUR	✓	4.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	21.000	473.000	1.000
	B	42.000	0.000	138.000	1.000
	C	610.000	135.000	0.000	0.000
	D	3.000	0.000	1.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.04	0.96	0.00
	B	0.23	0.00	0.76	0.01
	C	0.82	0.18	0.00	0.00
	D	0.75	0.00	0.25	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	3	0
	B	5	0	3	0
	C	1	12	0	0
	D	0	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.030	1.000
	B	1.050	1.000	1.030	1.000
	C	1.010	1.120	1.000	1.000
	D	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	372.66	372.66
	B	136.27	136.27
	C	560.88	560.88
	D	0.00	0.00
16:45-17:00	A	444.99	444.99
	B	162.72	162.72
	C	669.74	669.74
	D	0.00	0.00
17:00-17:15	A	545.01	545.01
	B	199.28	199.28
	C	820.26	820.26
	D	0.00	0.00
17:15-17:30	A	545.01	545.01
	B	199.28	199.28
	C	820.26	820.26
	D	0.00	0.00
17:30-17:45	A	444.99	444.99
	B	162.72	162.72
	C	669.74	669.74
	D	0.00	0.00
17:45-18:00	A	372.66	372.66
	B	136.27	136.27
	C	560.88	560.88
	D	0.00	0.00

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.28	9.55	0.4	A	127.16	190.74
B-AD	0.20	20.54	0.3	C	38.93	58.39
A-BCD	0.00	7.10	0.0	A	0.92	1.38
A-B					19.27	28.90
A-C					434.03	651.05
D-ABC	0.00	0.00	0.0	A	0.00	0.00
C-ABD	0.27	10.01	0.4	B	123.88	185.82
C-D					0.00	0.00
C-A					559.75	839.62

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	104.31	104.31	26.08	0.00	602.58	0.173	103.45	0.0	0.2	7.416	A
B-AD	31.96	31.96	7.99	0.00	313.52	0.102	31.49	0.0	0.1	13.375	B
A-BCD	0.75	0.75	0.19	0.00	589.87	0.001	0.75	0.0	0.0	6.110	A
A-B	15.81	15.81	3.95	0.00			15.81				
A-C	356.10	356.10	89.02	0.00			356.10				
D-ABC	0.00	0.00	0.00	0.00	361.59	0.000	0.00	0.0	0.0	0.000	A
C-ABD	101.64	101.64	25.41	0.00	597.08	0.170	100.73	0.0	0.2	8.109	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	459.24	459.24	114.81	0.00			459.24				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	124.57	124.57	31.14	0.00	577.82	0.216	124.30	0.2	0.3	8.170	A
B-AD	38.15	38.15	9.54	0.00	278.79	0.137	37.96	0.1	0.2	15.663	C
A-BCD	0.90	0.90	0.22	0.00	555.37	0.002	0.90	0.0	0.0	6.491	A
A-B	18.88	18.88	4.72	0.00			18.88				
A-C	425.22	425.22	106.30	0.00			425.22				
D-ABC	0.00	0.00	0.00	0.00	322.90	0.000	0.00	0.0	0.0	0.000	A
C-ABD	121.36	121.36	30.34	0.00	577.95	0.210	121.09	0.2	0.3	8.820	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	548.38	548.38	137.09	0.00			548.38				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	152.60	152.60	38.15	0.00	541.28	0.282	152.13	0.3	0.4	9.516	A
B-AD	46.68	46.68	11.67	0.00	230.70	0.202	46.30	0.2	0.3	20.444	C
A-BCD	1.10	1.10	0.28	0.00	508.08	0.002	1.10	0.0	0.0	7.099	A
A-B	23.12	23.12	5.78	0.00			23.12				
A-C	520.78	520.78	130.20	0.00			520.78				
D-ABC	0.00	0.00	0.00	0.00	268.26	0.000	0.00	0.0	0.0	0.000	A
C-ABD	148.64	148.64	37.16	0.00	551.50	0.270	148.19	0.3	0.4	9.986	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	671.62	671.62	167.91	0.00			671.62				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	152.60	152.60	38.15	0.00	540.95	0.282	152.59	0.4	0.4	9.546	A
B-AD	46.68	46.68	11.67	0.00	230.58	0.202	46.67	0.3	0.3	20.538	C
A-BCD	1.10	1.10	0.28	0.00	507.89	0.002	1.10	0.0	0.0	7.102	A
A-B	23.12	23.12	5.78	0.00			23.12				
A-C	520.78	520.78	130.20	0.00			520.78				
D-ABC	0.00	0.00	0.00	0.00	268.09	0.000	0.00	0.0	0.0	0.000	A
C-ABD	148.64	148.64	37.16	0.00	551.50	0.270	148.63	0.4	0.4	10.007	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	671.62	671.62	167.91	0.00			671.62				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	124.57	124.57	31.14	0.00	577.38	0.216	125.03	0.4	0.3	8.204	A
B-AD	38.14	38.14	9.54	0.00	278.63	0.137	38.52	0.3	0.2	15.760	C
A-BCD	0.90	0.90	0.22	0.00	555.07	0.002	0.90	0.0	0.0	6.498	A
A-B	18.88	18.88	4.72	0.00			18.88				
A-C	425.22	425.22	106.30	0.00			425.22				
D-ABC	0.00	0.00	0.00	0.00	322.64	0.000	0.00	0.0	0.0	0.000	A
C-ABD	121.36	121.36	30.34	0.00	577.95	0.210	121.80	0.4	0.3	8.847	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	548.38	548.38	137.09	0.00			548.38				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	104.31	104.31	26.08	0.00	602.12	0.173	104.58	0.3	0.2	7.457	A
B-AD	31.96	31.96	7.99	0.00	313.23	0.102	32.15	0.2	0.1	13.449	B
A-BCD	0.75	0.75	0.19	0.00	589.37	0.001	0.75	0.0	0.0	6.117	A
A-B	15.81	15.81	3.95	0.00			15.81				
A-C	356.10	356.10	89.02	0.00			356.10				
D-ABC	0.00	0.00	0.00	0.00	361.20	0.000	0.00	0.0	0.0	0.000	A
C-ABD	101.64	101.64	25.41	0.00	597.08	0.170	101.91	0.3	0.2	8.147	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	459.24	459.24	114.81	0.00			459.24				

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	3.47	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	07:30	09:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	840.00	100.000
B		ONE HOUR	✓	195.00	100.000
C		ONE HOUR	✓	760.00	100.000
D		ONE HOUR	✓	8.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	66.000	774.000	0.000
	B	38.000	0.000	156.000	1.000
	C	611.000	149.000	0.000	0.000
	D	6.000	2.000	0.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.08	0.92	0.00
	B	0.19	0.00	0.80	0.01
	C	0.80	0.20	0.00	0.00
	D	0.75	0.25	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	17	7	0
	B	35	0	8	0
	C	7	6	0	0
	D	100	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.166	1.070	1.000
	B	1.350	1.000	1.080	1.000
	C	1.070	1.060	1.000	1.000
	D	2.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:30-07:45	A	632.40	632.40
	B	146.81	146.81
	C	572.17	572.17
	D	6.02	6.02
07:45-08:00	A	755.14	755.14
	B	175.30	175.30
	C	683.22	683.22
	D	7.19	7.19
08:00-08:15	A	924.86	924.86
	B	214.70	214.70
	C	836.78	836.78
	D	8.81	8.81
08:15-08:30	A	924.86	924.86
	B	214.70	214.70
	C	836.78	836.78
	D	8.81	8.81
08:30-08:45	A	755.14	755.14
	B	175.30	175.30
	C	683.22	683.22
	D	7.19	7.19
08:45-09:00	A	632.40	632.40
	B	146.81	146.81
	C	572.17	572.17
	D	6.02	6.02

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.40	14.74	0.7	B	143.70	215.55
B-AD	0.30	47.92	0.5	E	35.23	52.85
A-BCD	0.00	0.00	0.0	A	0.00	0.00
A-B					60.56	90.84
A-C					710.24	1065.35
D-ABC	0.03	16.86	0.0	C	7.34	11.01
C-ABD	0.36	13.28	0.6	B	136.73	205.09
C-D					0.00	0.00
C-A					560.66	840.99

Main Results for each time segment

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	117.86	117.86	29.47	0.00	538.89	0.219	116.67	0.0	0.3	9.180	A
B-AD	28.94	28.94	7.24	0.00	253.81	0.114	28.27	0.0	0.2	21.401	C
A-BCD	0.00	0.00	0.00	0.00	1239.61	0.000	0.00	0.0	0.0	0.000	A
A-B	49.69	49.69	12.42	0.00			49.69				
A-C	582.71	582.71	145.68	0.00			582.71				
D-ABC	6.02	6.02	1.51	0.00	450.34	0.013	5.94	0.0	0.0	12.961	B
C-ABD	112.18	112.18	28.04	0.00	528.53	0.212	111.05	0.0	0.3	9.116	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	459.99	459.99	115.00	0.00			459.99				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	140.77	140.77	35.19	0.00	499.57	0.282	140.29	0.3	0.4	10.804	B
B-AD	34.54	34.54	8.63	0.00	207.73	0.166	34.17	0.2	0.3	27.833	D
A-BCD	0.00	0.00	0.00	0.00	1164.46	0.000	0.00	0.0	0.0	0.000	A
A-B	59.33	59.33	14.83	0.00			59.33				
A-C	695.81	695.81	173.95	0.00			695.81				
D-ABC	7.19	7.19	1.80	0.00	411.14	0.017	7.17	0.0	0.0	14.258	B
C-ABD	133.95	133.95	33.49	0.00	496.09	0.270	133.53	0.3	0.4	10.508	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	549.28	549.28	137.32	0.00			549.28				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	172.47	172.47	43.12	0.00	437.36	0.394	171.40	0.4	0.7	14.554	B
B-AD	42.23	42.23	10.56	0.00	143.35	0.295	41.16	0.3	0.5	46.908	E
A-BCD	0.00	0.00	0.00	0.00	1061.55	0.000	0.00	0.0	0.0	0.000	A
A-B	72.67	72.67	18.17	0.00			72.67				
A-C	852.19	852.19	213.05	0.00			852.19				
D-ABC	8.81	8.81	2.20	0.00	350.62	0.025	8.76	0.0	0.0	16.845	C
C-ABD	164.06	164.06	41.01	0.00	451.27	0.364	163.23	0.4	0.6	13.210	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	672.72	672.72	168.18	0.00			672.72				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	172.48	172.48	43.12	0.00	435.96	0.396	172.43	0.7	0.7	14.741	B
B-AD	42.22	42.22	10.56	0.00	143.05	0.295	42.15	0.5	0.5	47.920	E
A-BCD	0.00	0.00	0.00	0.00	1060.82	0.000	0.00	0.0	0.0	0.000	A
A-B	72.67	72.67	18.17	0.00			72.67				
A-C	852.19	852.19	213.05	0.00			852.19				
D-ABC	8.81	8.81	2.20	0.00	350.45	0.025	8.81	0.0	0.0	16.859	C
C-ABD	164.06	164.06	41.01	0.00	451.27	0.364	164.03	0.6	0.6	13.283	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	672.72	672.72	168.18	0.00			672.72				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	140.77	140.77	35.19	0.00	498.26	0.283	141.83	0.7	0.4	10.938	B
B-AD	34.53	34.53	8.63	0.00	207.43	0.166	35.59	0.5	0.3	28.347	D
A-BCD	0.00	0.00	0.00	0.00	1163.34	0.000	0.00	0.0	0.0	0.000	A
A-B	59.33	59.33	14.83	0.00			59.33				
A-C	695.81	695.81	173.95	0.00			695.81				
D-ABC	7.19	7.19	1.80	0.00	410.94	0.018	7.24	0.0	0.0	14.271	B
C-ABD	133.95	133.95	33.49	0.00	496.09	0.270	134.75	0.6	0.4	10.583	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	549.28	549.28	137.32	0.00			549.28				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	117.87	117.87	29.47	0.00	538.04	0.219	118.37	0.4	0.3	9.272	A
B-AD	28.94	28.94	7.24	0.00	253.42	0.114	29.34	0.3	0.2	21.645	C
A-BCD	0.00	0.00	0.00	0.00	1238.21	0.000	0.00	0.0	0.0	0.000	A
A-B	49.69	49.69	12.42	0.00			49.69				
A-C	582.71	582.71	145.68	0.00			582.71				
D-ABC	6.02	6.02	1.51	0.00	450.11	0.013	6.05	0.0	0.0	12.971	B
C-ABD	112.18	112.18	28.04	0.00	528.53	0.212	112.61	0.4	0.3	9.184	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	459.99	459.99	115.00	0.00			459.99				

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	3.38	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	609.00	100.000
B		ONE HOUR	✓	222.00	100.000
C		ONE HOUR	✓	916.00	100.000
D		ONE HOUR	✓	5.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	26.000	582.000	1.000
	B	51.000	0.000	170.000	1.000
	C	750.000	166.000	0.000	0.000
	D	4.000	0.000	1.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.04	0.96	0.00
	B	0.23	0.00	0.77	0.00
	C	0.82	0.18	0.00	0.00
	D	0.80	0.00	0.20	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	3	0
	B	5	0	3	0
	C	1	12	0	0
	D	0	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.030	1.000
	B	1.050	1.000	1.030	1.000
	C	1.010	1.120	1.000	1.000
	D	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	458.49	458.49
	B	167.13	167.13
	C	689.61	689.61
	D	3.76	3.76
16:45-17:00	A	547.48	547.48
	B	199.57	199.57
	C	823.47	823.47
	D	4.49	4.49
17:00-17:15	A	670.52	670.52
	B	244.43	244.43
	C	1008.53	1008.53
	D	5.51	5.51
17:15-17:30	A	670.52	670.52
	B	244.43	244.43
	C	1008.53	1008.53
	D	5.51	5.51
17:30-17:45	A	547.48	547.48
	B	199.57	199.57
	C	823.47	823.47
	D	4.49	4.49
17:45-18:00	A	458.49	458.49
	B	167.13	167.13
	C	689.61	689.61
	D	3.76	3.76

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.39	12.47	0.6	B	156.56	234.85
B-AD	0.34	33.84	0.5	D	47.15	70.72
A-BCD	0.00	8.04	0.0	A	0.92	1.38
A-B					23.86	35.79
A-C					534.05	801.08
D-ABC	0.02	11.80	0.0	B	4.59	6.88
C-ABD	0.35	12.01	0.6	B	152.33	228.49
C-D					0.00	0.00
C-A					688.21	1032.31

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	128.41	128.41	32.10	0.00	574.28	0.224	127.24	0.0	0.3	8.272	A
B-AD	38.72	38.72	9.68	0.00	271.78	0.142	38.04	0.0	0.2	16.119	C
A-BCD	0.75	0.75	0.19	0.00	549.52	0.001	0.75	0.0	0.0	6.559	A
A-B	19.57	19.57	4.89	0.00			19.57				
A-C	438.16	438.16	109.54	0.00			438.16				
D-ABC	3.76	3.76	0.94	0.00	433.99	0.009	3.73	0.0	0.0	8.367	A
C-ABD	124.97	124.97	31.24	0.00	574.40	0.218	123.74	0.0	0.3	8.923	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	564.64	564.64	141.16	0.00			564.64				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	153.37	153.37	38.34	0.00	541.29	0.283	152.93	0.3	0.4	9.536	A
B-AD	46.21	46.21	11.55	0.00	228.58	0.202	45.85	0.2	0.3	20.637	C
A-BCD	0.90	0.90	0.22	0.00	507.05	0.002	0.90	0.0	0.0	7.111	A
A-B	23.37	23.37	5.84	0.00			23.37				
A-C	523.21	523.21	130.80	0.00			523.21				
D-ABC	4.49	4.49	1.12	0.00	387.34	0.012	4.48	0.0	0.0	9.402	A
C-ABD	149.23	149.23	37.31	0.00	550.87	0.271	148.82	0.3	0.4	10.018	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	674.23	674.23	168.56	0.00			674.23				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	187.91	187.91	46.98	0.00	486.51	0.386	186.98	0.4	0.6	12.338	B
B-AD	56.52	56.52	14.13	0.00	168.24	0.336	55.54	0.3	0.5	33.241	D
A-BCD	1.10	1.10	0.28	0.00	448.87	0.002	1.10	0.0	0.0	8.039	A
A-B	28.63	28.63	7.16	0.00			28.63				
A-C	640.79	640.79	160.20	0.00			640.79				
D-ABC	5.51	5.51	1.38	0.00	311.11	0.018	5.48	0.0	0.0	11.779	B
C-ABD	182.78	182.78	45.69	0.00	518.36	0.353	182.03	0.4	0.6	11.960	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	825.75	825.75	206.44	0.00			825.75				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	187.91	187.91	46.98	0.00	485.20	0.387	187.88	0.6	0.6	12.465	B
B-AD	56.52	56.52	14.13	0.00	167.97	0.336	56.46	0.5	0.5	33.843	D
A-BCD	1.10	1.10	0.28	0.00	448.56	0.002	1.10	0.0	0.0	8.045	A
A-B	28.63	28.63	7.16	0.00			28.63				
A-C	640.79	640.79	160.20	0.00			640.79				
D-ABC	5.51	5.51	1.38	0.00	310.58	0.018	5.50	0.0	0.0	11.799	B
C-ABD	182.78	182.78	45.69	0.00	518.36	0.353	182.76	0.6	0.6	12.012	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	825.75	825.75	206.44	0.00			825.75				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	153.37	153.37	38.34	0.00	540.09	0.284	154.29	0.6	0.4	9.632	A
B-AD	46.20	46.20	11.55	0.00	228.29	0.202	47.18	0.5	0.3	20.972	C
A-BCD	0.90	0.90	0.22	0.00	506.56	0.002	0.90	0.0	0.0	7.121	A
A-B	23.37	23.37	5.84	0.00			23.37				
A-C	523.21	523.21	130.80	0.00			523.21				
D-ABC	4.49	4.49	1.12	0.00	386.80	0.012	4.52	0.0	0.0	9.419	A
C-ABD	149.23	149.23	37.31	0.00	550.86	0.271	149.96	0.6	0.4	10.077	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	674.23	674.23	168.56	0.00			674.23				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	128.42	128.42	32.10	0.00	573.46	0.224	128.87	0.4	0.3	8.349	A
B-AD	38.72	38.72	9.68	0.00	271.34	0.143	39.10	0.3	0.2	16.297	C
A-BCD	0.75	0.75	0.19	0.00	548.82	0.001	0.75	0.0	0.0	6.567	A
A-B	19.57	19.57	4.89	0.00			19.57				
A-C	438.16	438.16	109.54	0.00			438.16				
D-ABC	3.76	3.76	0.94	0.00	433.47	0.009	3.78	0.0	0.0	8.377	A
C-ABD	124.97	124.97	31.24	0.00	574.40	0.218	125.40	0.4	0.3	8.990	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	564.64	564.64	141.16	0.00			564.64				

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	5.80	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	07:30	09:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	955.00	100.000
B		ONE HOUR	✓	215.00	100.000
C		ONE HOUR	✓	808.00	100.000
D		ONE HOUR	✓	9.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	68.000	887.000	0.000
	B	53.000	0.000	161.000	1.000
	C	653.000	155.000	0.000	0.000
	D	6.000	2.000	1.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.07	0.93	0.00
	B	0.25	0.00	0.75	0.00
	C	0.81	0.19	0.00	0.00
	D	0.67	0.22	0.11	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	17	7	0
	B	35	0	8	0
	C	7	6	0	0
	D	100	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.166	1.070	1.000
	B	1.350	1.000	1.080	1.000
	C	1.070	1.060	1.000	1.000
	D	2.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:30-07:45	A	718.97	718.97
	B	161.86	161.86
	C	608.30	608.30
	D	6.78	6.78
07:45-08:00	A	858.53	858.53
	B	193.28	193.28
	C	726.38	726.38
	D	8.09	8.09
08:00-08:15	A	1051.47	1051.47
	B	236.72	236.72
	C	889.62	889.62
	D	9.91	9.91
08:15-08:30	A	1051.47	1051.47
	B	236.72	236.72
	C	889.62	889.62
	D	9.91	9.91
08:30-08:45	A	858.53	858.53
	B	193.28	193.28
	C	726.38	726.38
	D	8.09	8.09
08:45-09:00	A	718.97	718.97
	B	161.86	161.86
	C	608.30	608.30
	D	6.78	6.78

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.51	22.35	1.1	C	148.36	222.54
B-AD	0.56	100.13	1.5	F	48.93	73.39
A-BCD	0.00	0.00	0.0	A	0.00	0.00
A-B					62.40	93.60
A-C					813.93	1220.89
D-ABC	0.04	21.11	0.1	C	8.26	12.39
C-ABD	0.41	15.43	0.7	C	142.24	213.36
C-D					0.00	0.00
C-A					599.19	898.79

Main Results for each time segment

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	121.65	121.65	30.41	0.00	521.35	0.233	120.35	0.0	0.3	9.663	A
B-AD	40.21	40.21	10.05	0.00	231.13	0.174	39.12	0.0	0.3	25.108	D
A-BCD	0.00	0.00	0.00	0.00	1216.16	0.000	0.00	0.0	0.0	0.000	A
A-B	51.19	51.19	12.80	0.00			51.19				
A-C	667.78	667.78	166.95	0.00			667.78				
D-ABC	6.78	6.78	1.69	0.00	399.45	0.017	6.67	0.0	0.0	13.745	B
C-ABD	116.69	116.69	29.17	0.00	505.65	0.231	115.44	0.0	0.3	9.749	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	491.61	491.61	122.90	0.00			491.61				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	145.31	145.31	36.33	0.00	469.95	0.309	144.70	0.3	0.5	11.927	B
B-AD	47.97	47.97	11.99	0.00	179.50	0.267	47.20	0.3	0.5	36.422	E
A-BCD	0.00	0.00	0.00	0.00	1136.34	0.000	0.00	0.0	0.0	0.000	A
A-B	61.13	61.13	15.28	0.00			61.13				
A-C	797.39	797.39	199.35	0.00			797.39				
D-ABC	8.09	8.09	2.02	0.00	348.73	0.023	8.05	0.0	0.0	15.848	C
C-ABD	139.34	139.34	34.84	0.00	468.78	0.297	138.83	0.3	0.4	11.546	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	587.03	587.03	146.76	0.00			587.03				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	178.11	178.11	44.53	0.00	362.18	0.492	176.01	0.5	1.0	20.647	C
B-AD	58.61	58.61	14.65	0.00	106.12	0.552	55.01	0.5	1.4	89.579	F
A-BCD	0.00	0.00	0.00	0.00	1027.06	0.000	0.00	0.0	0.0	0.000	A
A-B	74.87	74.87	18.72	0.00			74.87				
A-C	976.61	976.61	244.15	0.00			976.61				
D-ABC	9.91	9.91	2.48	0.00	266.52	0.037	9.82	0.0	0.1	21.030	C
C-ABD	170.69	170.69	42.67	0.00	417.85	0.408	169.60	0.4	0.7	15.302	C
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	718.94	718.94	179.73	0.00			718.94				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	178.13	178.13	44.53	0.00	351.23	0.507	177.84	1.0	1.1	22.349	C
B-AD	58.59	58.59	14.65	0.00	105.33	0.556	58.04	1.4	1.5	100.127	F
A-BCD	0.00	0.00	0.00	0.00	1026.10	0.000	0.00	0.0	0.0	0.000	A
A-B	74.87	74.87	18.72	0.00			74.87				
A-C	976.61	976.61	244.15	0.00			976.61				
D-ABC	9.91	9.91	2.48	0.00	265.68	0.037	9.91	0.1	0.1	21.112	C
C-ABD	170.69	170.69	42.67	0.00	417.85	0.408	170.65	0.7	0.7	15.429	C
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	718.94	718.94	179.73	0.00			718.94				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	145.32	145.32	36.33	0.00	464.36	0.313	147.61	1.1	0.5	12.354	B
B-AD	47.96	47.96	11.99	0.00	179.19	0.268	51.90	1.5	0.5	39.131	E
A-BCD	0.00	0.00	0.00	0.00	1134.90	0.000	0.00	0.0	0.0	0.000	A
A-B	61.13	61.13	15.28	0.00			61.13				
A-C	797.39	797.39	199.35	0.00			797.39				
D-ABC	8.09	8.09	2.02	0.00	347.91	0.023	8.17	0.1	0.0	15.900	C
C-ABD	139.34	139.34	34.84	0.00	468.78	0.297	140.40	0.7	0.5	11.659	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	587.03	587.03	146.76	0.00			587.03				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	121.65	121.65	30.41	0.00	519.45	0.234	122.32	0.5	0.3	9.803	A
B-AD	40.21	40.21	10.05	0.00	230.73	0.174	41.11	0.5	0.3	25.685	D
A-BCD	0.00	0.00	0.00	0.00	1214.55	0.000	0.00	0.0	0.0	0.000	A
A-B	51.19	51.19	12.80	0.00			51.19				
A-C	667.78	667.78	166.95	0.00			667.78				
D-ABC	6.78	6.78	1.69	0.00	398.91	0.017	6.82	0.0	0.0	13.772	B
C-ABD	116.69	116.69	29.17	0.00	505.65	0.231	117.23	0.5	0.3	9.839	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	491.61	491.61	122.90	0.00			491.61				

J1 Ashford Road/Ham Lane/Pilgrims Way - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J1 Ashford Road/Ham Lane/Pilgrims Way	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	4.22	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	675.00	100.000
B		ONE HOUR	✓	234.00	100.000
C		ONE HOUR	✓	1032.00	100.000
D		ONE HOUR	✓	5.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	31.000	643.000	1.000
	B	54.000	0.000	179.000	1.000
	C	849.000	183.000	0.000	0.000
	D	4.000	0.000	1.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.05	0.95	0.00
	B	0.23	0.00	0.76	0.00
	C	0.82	0.18	0.00	0.00
	D	0.80	0.00	0.20	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	3	0
	B	5	0	3	0
	C	1	12	0	0
	D	0	0	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.030	1.000
	B	1.050	1.000	1.030	1.000
	C	1.010	1.120	1.000	1.000
	D	1.000	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	508.18	508.18
	B	176.17	176.17
	C	776.94	776.94
	D	3.76	3.76
16:45-17:00	A	606.81	606.81
	B	210.36	210.36
	C	927.75	927.75
	D	4.49	4.49
17:00-17:15	A	743.19	743.19
	B	257.64	257.64
	C	1136.25	1136.25
	D	5.51	5.51
17:15-17:30	A	743.19	743.19
	B	257.64	257.64
	C	1136.25	1136.25
	D	5.51	5.51
17:30-17:45	A	606.81	606.81
	B	210.36	210.36
	C	927.75	927.75
	D	4.49	4.49
17:45-18:00	A	508.18	508.18
	B	176.17	176.17
	C	776.94	776.94
	D	3.76	3.76

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.45	15.38	0.8	C	164.86	247.28
B-AD	0.46	53.26	0.8	F	49.87	74.80
A-BCD	0.00	8.83	0.0	A	0.92	1.38
A-B					28.45	42.67
A-C					590.03	885.04
D-ABC	0.02	14.76	0.0	B	4.59	6.88
C-ABD	0.40	13.54	0.7	B	167.94	251.91
C-D					0.00	0.00
C-A					779.04	1168.56

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	135.20	135.20	33.80	0.00	557.97	0.242	133.90	0.0	0.3	8.718	A
B-AD	40.97	40.97	10.24	0.00	246.79	0.166	40.15	0.0	0.2	18.217	C
A-BCD	0.75	0.75	0.19	0.00	522.52	0.001	0.75	0.0	0.0	6.898	A
A-B	23.34	23.34	5.83	0.00			23.34				
A-C	484.08	484.08	121.02	0.00			484.08				
D-ABC	3.76	3.76	0.94	0.00	406.57	0.009	3.73	0.0	0.0	8.936	A
C-ABD	137.77	137.77	34.44	0.00	561.27	0.245	136.33	0.0	0.4	9.456	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	639.17	639.17	159.79	0.00			639.17				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	161.48	161.48	40.37	0.00	519.06	0.311	160.95	0.3	0.5	10.337	B
B-AD	48.88	48.88	12.22	0.00	198.49	0.246	48.37	0.2	0.3	25.083	D
A-BCD	0.90	0.90	0.22	0.00	474.73	0.002	0.90	0.0	0.0	7.596	A
A-B	27.87	27.87	6.97	0.00			27.87				
A-C	578.04	578.04	144.51	0.00			578.04				
D-ABC	4.49	4.49	1.12	0.00	350.38	0.013	4.48	0.0	0.0	10.407	B
C-ABD	164.52	164.52	41.13	0.00	535.19	0.307	164.00	0.4	0.5	10.847	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	763.23	763.23	190.81	0.00			763.23				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	197.88	197.88	49.47	0.00	442.63	0.447	196.48	0.5	0.8	14.976	B
B-AD	59.76	59.76	14.94	0.00	130.60	0.458	57.86	0.3	0.8	50.717	F
A-BCD	1.10	1.10	0.28	0.00	409.26	0.003	1.10	0.0	0.0	8.819	A
A-B	34.13	34.13	8.53	0.00			34.13				
A-C	707.96	707.96	176.99	0.00			707.96				
D-ABC	5.51	5.51	1.38	0.00	250.47	0.022	5.47	0.0	0.0	14.692	B
C-ABD	201.54	201.54	50.38	0.00	499.26	0.404	200.53	0.5	0.7	13.449	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	934.72	934.72	233.68	0.00			934.72				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	197.89	197.89	49.47	0.00	438.57	0.451	197.80	0.8	0.8	15.383	C
B-AD	59.75	59.75	14.94	0.00	130.13	0.459	59.59	0.8	0.8	53.264	F
A-BCD	1.10	1.10	0.28	0.00	408.84	0.003	1.10	0.0	0.0	8.828	A
A-B	34.13	34.13	8.53	0.00			34.13				
A-C	707.96	707.96	176.99	0.00			707.96				
D-ABC	5.51	5.51	1.38	0.00	249.34	0.022	5.50	0.0	0.0	14.763	B
C-ABD	201.54	201.54	50.38	0.00	499.25	0.404	201.50	0.7	0.7	13.536	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	934.72	934.72	233.68	0.00			934.72				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	161.48	161.48	40.37	0.00	516.48	0.313	162.90	0.8	0.5	10.528	B
B-AD	48.88	48.88	12.22	0.00	198.12	0.247	50.83	0.8	0.4	25.968	D
A-BCD	0.90	0.90	0.22	0.00	474.08	0.002	0.90	0.0	0.0	7.610	A
A-B	27.87	27.87	6.97	0.00			27.87				
A-C	578.04	578.04	144.51	0.00			578.04				
D-ABC	4.49	4.49	1.12	0.00	349.43	0.013	4.53	0.0	0.0	10.438	B
C-ABD	164.52	164.52	41.13	0.00	535.18	0.307	165.49	0.7	0.5	10.934	B
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	763.23	763.23	190.81	0.00			763.23				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	135.20	135.20	33.80	0.00	556.81	0.243	135.77	0.5	0.3	8.817	A
B-AD	40.97	40.97	10.24	0.00	246.26	0.166	41.53	0.4	0.2	18.508	C
A-BCD	0.75	0.75	0.19	0.00	521.68	0.001	0.75	0.0	0.0	6.912	A
A-B	23.34	23.34	5.83	0.00			23.34				
A-C	484.08	484.08	121.02	0.00			484.08				
D-ABC	3.76	3.76	0.94	0.00	405.88	0.009	3.78	0.0	0.0	8.952	A
C-ABD	137.77	137.77	34.44	0.00	561.27	0.245	138.32	0.5	0.4	9.546	A
C-D	0.00	0.00	0.00	0.00			0.00				
C-A	639.17	639.17	159.79	0.00			639.17				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

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Filename: J2 Ashford Road Maidstone Road.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J2 Ashford Road Maidstone Road
Report generation date: 17/07/2015 14:24:28

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J2 Ashford Road / Maidstone Road - Base 2015							
Stream B-AC	0.2	7.31	0.13	A	0.2	6.48	0.13	A
Stream C-AB	0.1	8.32	0.12	A	0.2	7.51	0.14	A
Stream C-A								
Stream A-B								
Stream A-C								
	J2 Ashford Road / Maidstone Road - Base 2031							
Stream B-AC	0.2	8.36	0.18	A	0.2	7.13	0.17	A
Stream C-AB	0.2	9.43	0.15	A	0.2	8.32	0.19	A
Stream C-A								
Stream A-B								
Stream A-C								
	J2 Ashford Road / Maidstone Road - Base 2031 + Dev							
Stream B-AC	0.5	10.49	0.32	B	0.3	7.93	0.24	A
Stream C-AB	0.3	10.53	0.22	B	0.5	9.97	0.31	A
Stream C-A								
Stream A-B								
Stream A-C								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

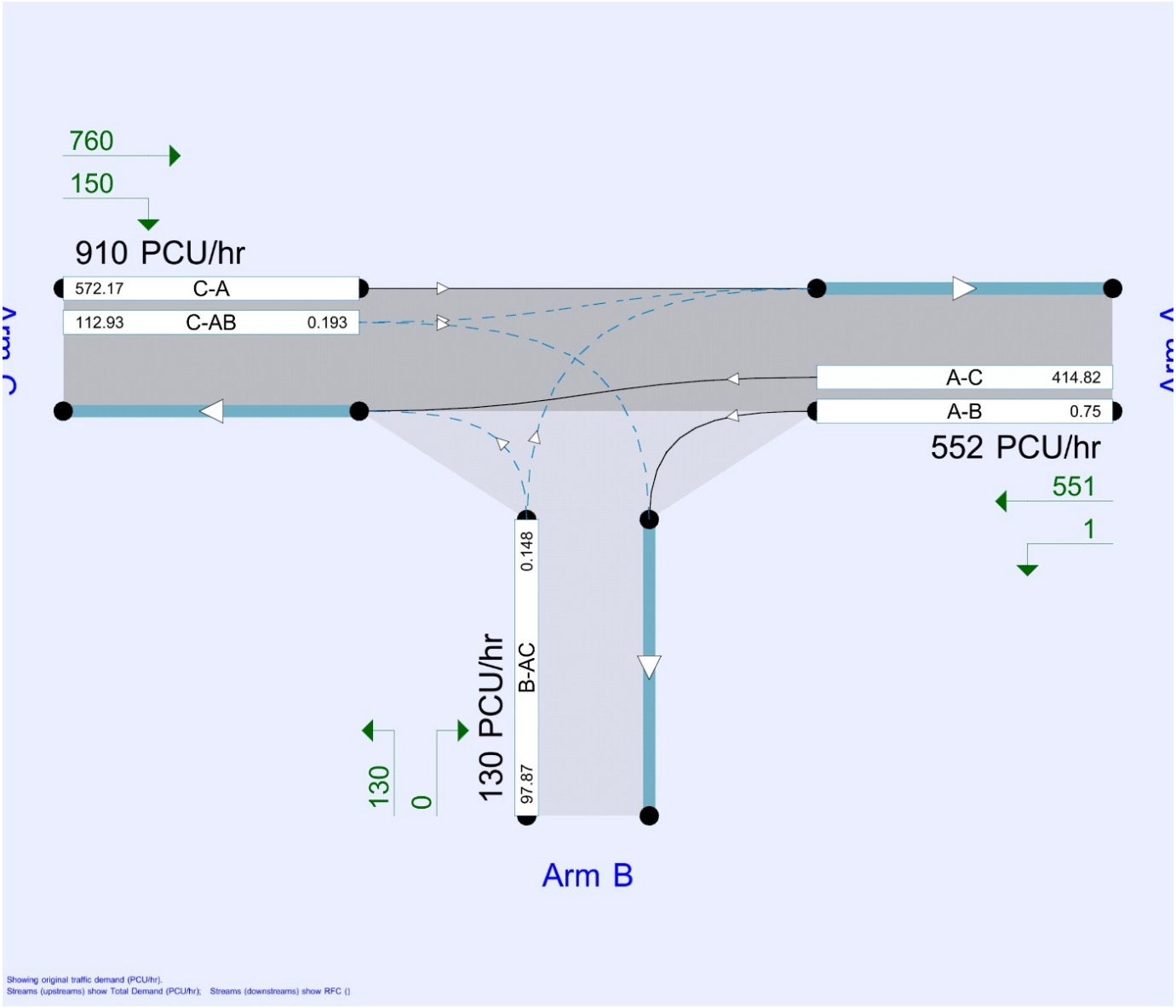
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	07:15	08:45	15	✓
Base 2015	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031	AM	ONE HOUR	07:15	08:45	15	✓
Base 2031	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031 + Dev	AM	ONE HOUR	07:15	08:45	15	✓
Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

J2 Ashford Road/Maidstone Road - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.77	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Ashford Road E		Major
B	Maidstone Road S		Minor
C	Ashford Road W		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00		✓	2.80	142.0	✓	12.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.00	130	145

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	654.254	0.119	0.301	0.189	0.430
1	B-C	786.824	0.121	0.305	-	-
1	C-B	699.047	0.271	0.271	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	636.00	100.000
B		ONE HOUR	✓	69.00	100.000
C		ONE HOUR	✓	534.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	636.000
	B	0.000	0.000	69.000
	C	480.000	54.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.90	0.10	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	7
	B	0	0	1
	C	6	4	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.070
	B	1.000	1.000	1.010
	C	1.060	1.040	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	478.81	478.81
	B	51.95	51.95
	C	402.02	402.02
07:30-07:45	A	571.75	571.75
	B	62.03	62.03
	C	480.06	480.06
07:45-08:00	A	700.25	700.25
	B	75.97	75.97
	C	587.94	587.94
08:00-08:15	A	700.25	700.25
	B	75.97	75.97
	C	587.94	587.94
08:15-08:30	A	571.75	571.75
	B	62.03	62.03
	C	480.06	480.06
08:30-08:45	A	478.81	478.81
	B	51.95	51.95
	C	402.02	402.02

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	7.31	0.2	A	63.32	94.97
C-AB	0.12	8.32	0.1	A	49.55	74.33
C-A					440.46	660.68
A-B					0.00	0.00
A-C					583.60	875.41

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	51.95	51.95	12.99	0.00	640.85	0.081	51.59	0.0	0.1	6.166	A
C-AB	40.65	40.65	10.16	0.00	569.36	0.071	40.34	0.0	0.1	7.072	A
C-A	361.37	361.37	90.34	0.00			361.37				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	478.81	478.81	119.70	0.00			478.81				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	62.03	62.03	15.51	0.00	612.52	0.101	61.93	0.1	0.1	6.604	A
C-AB	48.54	48.54	12.14	0.00	544.19	0.089	48.46	0.1	0.1	7.552	A
C-A	431.51	431.51	107.88	0.00			431.51				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	571.75	571.75	142.94	0.00			571.75				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	75.97	75.97	18.99	0.00	573.35	0.133	75.81	0.1	0.2	7.306	A
C-AB	59.46	59.46	14.86	0.00	509.39	0.117	59.31	0.1	0.1	8.316	A
C-A	528.49	528.49	132.12	0.00			528.49				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	700.25	700.25	175.06	0.00			700.25				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	75.97	75.97	18.99	0.00	573.35	0.133	75.97	0.2	0.2	7.309	A
C-AB	59.46	59.46	14.86	0.00	509.39	0.117	59.45	0.1	0.1	8.320	A
C-A	528.49	528.49	132.12	0.00			528.49				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	700.25	700.25	175.06	0.00			700.25				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	62.03	62.03	15.51	0.00	612.52	0.101	62.18	0.2	0.1	6.607	A
C-AB	48.54	48.54	12.14	0.00	544.19	0.089	48.68	0.1	0.1	7.556	A
C-A	431.51	431.51	107.88	0.00			431.51				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	571.75	571.75	142.94	0.00			571.75				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	51.95	51.95	12.99	0.00	640.85	0.081	52.05	0.1	0.1	6.175	A
C-AB	40.65	40.65	10.16	0.00	569.36	0.071	40.74	0.1	0.1	7.082	A
C-A	361.37	361.37	90.34	0.00			361.37				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	478.81	478.81	119.70	0.00			478.81				

J2 Ashford Road/Maidstone Road - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.91	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2015	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	424.00	100.000
B		ONE HOUR	✓	76.00	100.000
C		ONE HOUR	✓	657.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	1.000	423.000
	B	0.000	0.000	76.000
	C	582.000	75.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.89	0.11	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	5
	B	0	0	1
	C	3	2	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.050
	B	1.000	1.000	1.010
	C	1.030	1.023	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	319.21	319.21
	B	57.22	57.22
	C	494.62	494.62
16:45-17:00	A	381.17	381.17
	B	68.32	68.32
	C	590.63	590.63
17:00-17:15	A	466.83	466.83
	B	83.68	83.68
	C	723.37	723.37
17:15-17:30	A	466.83	466.83
	B	83.68	83.68
	C	723.37	723.37
17:30-17:45	A	381.17	381.17
	B	68.32	68.32
	C	590.63	590.63
17:45-18:00	A	319.21	319.21
	B	57.22	57.22
	C	494.62	494.62

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.48	0.2	A	69.74	104.61
C-AB	0.14	7.51	0.2	A	68.82	103.23
C-A					534.05	801.08
A-B					0.92	1.38
A-C					388.15	582.23

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	57.22	57.22	14.30	0.00	689.65	0.083	56.85	0.0	0.1	5.744	A
C-AB	56.46	56.46	14.12	0.00	612.59	0.092	56.05	0.0	0.1	6.613	A
C-A	438.16	438.16	109.54	0.00			438.16				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	318.46	318.46	79.61	0.00			318.46				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	68.32	68.32	17.08	0.00	670.79	0.102	68.23	0.1	0.1	6.034	A
C-AB	67.42	67.42	16.86	0.00	595.81	0.113	67.32	0.1	0.1	6.966	A
C-A	523.21	523.21	130.80	0.00			523.21				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	380.27	380.27	95.07	0.00			380.27				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	83.68	83.68	20.92	0.00	644.71	0.130	83.53	0.1	0.1	6.477	A
C-AB	82.58	82.58	20.64	0.00	572.61	0.144	82.41	0.1	0.2	7.511	A
C-A	640.79	640.79	160.20	0.00			640.79				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	465.73	465.73	116.43	0.00			465.73				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	83.68	83.68	20.92	0.00	644.71	0.130	83.68	0.1	0.2	6.480	A
C-AB	82.58	82.58	20.64	0.00	572.61	0.144	82.57	0.2	0.2	7.514	A
C-A	640.79	640.79	160.20	0.00			640.79				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	465.73	465.73	116.43	0.00			465.73				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	68.32	68.32	17.08	0.00	670.79	0.102	68.46	0.2	0.1	6.037	A
C-AB	67.42	67.42	16.86	0.00	595.81	0.113	67.58	0.2	0.1	6.976	A
C-A	523.21	523.21	130.80	0.00			523.21				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	380.27	380.27	95.07	0.00			380.27				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	57.22	57.22	14.30	0.00	689.65	0.083	57.31	0.1	0.1	5.752	A
C-AB	56.46	56.46	14.12	0.00	612.59	0.092	56.57	0.1	0.1	6.624	A
C-A	438.16	438.16	109.54	0.00			438.16				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	318.46	318.46	79.61	0.00			318.46				

J2 Ashford Road/Maidstone Road - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.87	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	773.00	100.000
B		ONE HOUR	✓	84.00	100.000
C		ONE HOUR	✓	648.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	773.000
	B	0.000	0.000	84.000
	C	583.000	65.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.90	0.10	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	7
	B	0	0	1
	C	6	4	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.070
	B	1.000	1.000	1.010
	C	1.060	1.040	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	581.95	581.95
	B	63.24	63.24
	C	487.85	487.85
07:30-07:45	A	694.91	694.91
	B	75.51	75.51
	C	582.54	582.54
07:45-08:00	A	851.09	851.09
	B	92.49	92.49
	C	713.46	713.46
08:00-08:15	A	851.09	851.09
	B	92.49	92.49
	C	713.46	713.46
08:15-08:30	A	694.91	694.91
	B	75.51	75.51
	C	582.54	582.54
08:30-08:45	A	581.95	581.95
	B	63.24	63.24
	C	487.85	487.85

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	8.36	0.2	A	77.08	115.62
C-AB	0.15	9.43	0.2	A	59.65	89.47
C-A					534.97	802.46
A-B					0.00	0.00
A-C					709.32	1063.98

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	63.24	63.24	15.81	0.00	609.41	0.104	62.78	0.0	0.1	6.646	A
C-AB	48.94	48.94	12.23	0.00	541.43	0.090	48.53	0.0	0.1	7.589	A
C-A	438.91	438.91	109.73	0.00			438.91				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	581.95	581.95	145.49	0.00			581.95				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	75.51	75.51	18.88	0.00	574.98	0.131	75.37	0.1	0.2	7.276	A
C-AB	58.43	58.43	14.61	0.00	510.83	0.114	58.31	0.1	0.1	8.272	A
C-A	524.11	524.11	131.03	0.00			524.11				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	694.91	694.91	173.73	0.00			694.91				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	92.49	92.49	23.12	0.00	527.36	0.175	92.24	0.2	0.2	8.352	A
C-AB	71.57	71.57	17.89	0.00	468.53	0.153	71.36	0.1	0.2	9.421	A
C-A	641.89	641.89	160.47	0.00			641.89				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	851.09	851.09	212.77	0.00			851.09				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	92.49	92.49	23.12	0.00	527.36	0.175	92.48	0.2	0.2	8.360	A
C-AB	71.57	71.57	17.89	0.00	468.53	0.153	71.56	0.2	0.2	9.431	A
C-A	641.89	641.89	160.47	0.00			641.89				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	851.09	851.09	212.77	0.00			851.09				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	75.51	75.51	18.88	0.00	574.98	0.131	75.75	0.2	0.2	7.288	A
C-AB	58.43	58.43	14.61	0.00	510.83	0.114	58.64	0.2	0.1	8.283	A
C-A	524.11	524.11	131.03	0.00			524.11				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	694.91	694.91	173.73	0.00			694.91				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	63.24	63.24	15.81	0.00	609.41	0.104	63.38	0.2	0.1	6.660	A
C-AB	48.94	48.94	12.23	0.00	541.43	0.090	49.06	0.1	0.1	7.608	A
C-A	438.91	438.91	109.73	0.00			438.91				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	581.95	581.95	145.49	0.00			581.95				

J2 Ashford Road/Maidstone Road - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.00	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	521.00	100.000
B		ONE HOUR	✓	93.00	100.000
C		ONE HOUR	✓	808.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	1.000	520.000
	B	0.000	0.000	93.000
	C	716.000	92.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.89	0.11	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	5
	B	0	0	1
	C	3	2	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.050
	B	1.000	1.000	1.010
	C	1.030	1.023	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	392.24	392.24
	B	70.02	70.02
	C	608.30	608.30
16:45-17:00	A	468.37	468.37
	B	83.61	83.61
	C	726.38	726.38
17:00-17:15	A	573.63	573.63
	B	102.39	102.39
	C	889.62	889.62
17:15-17:30	A	573.63	573.63
	B	102.39	102.39
	C	889.62	889.62
17:30-17:45	A	468.37	468.37
	B	83.61	83.61
	C	726.38	726.38
17:45-18:00	A	392.24	392.24
	B	70.02	70.02
	C	608.30	608.30

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	7.13	0.2	A	85.34	128.01
C-AB	0.19	8.32	0.2	A	84.42	126.63
C-A					657.01	985.52
A-B					0.92	1.38
A-C					477.16	715.74

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	70.02	70.02	17.50	0.00	667.39	0.105	69.55	0.0	0.1	6.082	A
C-AB	69.26	69.26	17.32	0.00	592.81	0.117	68.73	0.0	0.1	7.019	A
C-A	539.04	539.04	134.76	0.00			539.04				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	391.48	391.48	97.87	0.00			391.48				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	83.61	83.61	20.90	0.00	644.20	0.130	83.48	0.1	0.1	6.482	A
C-AB	82.71	82.71	20.68	0.00	572.19	0.145	82.56	0.1	0.2	7.519	A
C-A	643.67	643.67	160.92	0.00			643.67				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	467.47	467.47	116.87	0.00			467.47				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	102.39	102.39	25.60	0.00	612.15	0.167	102.19	0.1	0.2	7.126	A
C-AB	101.29	101.29	25.32	0.00	543.68	0.186	101.05	0.2	0.2	8.316	A
C-A	788.33	788.33	197.08	0.00			788.33				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	572.53	572.53	143.13	0.00			572.53				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	102.39	102.39	25.60	0.00	612.15	0.167	102.39	0.2	0.2	7.131	A
C-AB	101.29	101.29	25.32	0.00	543.68	0.186	101.29	0.2	0.2	8.324	A
C-A	788.33	788.33	197.08	0.00			788.33				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	572.53	572.53	143.13	0.00			572.53				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	83.61	83.61	20.90	0.00	644.20	0.130	83.81	0.2	0.2	6.489	A
C-AB	82.71	82.71	20.68	0.00	572.19	0.145	82.94	0.2	0.2	7.530	A
C-A	643.67	643.67	160.92	0.00			643.67				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	467.47	467.47	116.87	0.00			467.47				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	70.02	70.02	17.50	0.00	667.39	0.105	70.15	0.2	0.1	6.088	A
C-AB	69.26	69.26	17.32	0.00	592.81	0.117	69.41	0.2	0.1	7.040	A
C-A	539.04	539.04	134.76	0.00			539.04				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	391.48	391.48	97.87	0.00			391.48				

J2 Ashford Road/Maidstone Road - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.50	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	823.00	100.000
B		ONE HOUR	✓	149.00	100.000
C		ONE HOUR	✓	695.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	0.000	823.000
	B	0.000	0.000	149.000
	C	606.000	89.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.87	0.13	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	7
	B	0	0	1
	C	6	4	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.070
	B	1.000	1.000	1.010
	C	1.060	1.040	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	619.60	619.60
	B	112.18	112.18
	C	523.23	523.23
07:30-07:45	A	739.86	739.86
	B	133.95	133.95
	C	624.79	624.79
07:45-08:00	A	906.14	906.14
	B	164.05	164.05
	C	765.21	765.21
08:00-08:15	A	906.14	906.14
	B	164.05	164.05
	C	765.21	765.21
08:15-08:30	A	739.86	739.86
	B	133.95	133.95
	C	624.79	624.79
08:30-08:45	A	619.60	619.60
	B	112.18	112.18
	C	523.23	523.23

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.32	10.49	0.5	B	136.73	205.09
C-AB	0.22	10.53	0.3	B	81.67	122.50
C-A					556.08	834.11
A-B					0.00	0.00
A-C					755.20	1132.80

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	112.18	112.18	28.04	0.00	597.94	0.188	111.25	0.0	0.2	7.457	A
C-AB	67.00	67.00	16.75	0.00	531.23	0.126	66.41	0.0	0.1	8.045	A
C-A	456.23	456.23	114.06	0.00			456.23				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	619.60	619.60	154.90	0.00			619.60				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	133.95	133.95	33.49	0.00	561.27	0.239	133.62	0.2	0.3	8.489	A
C-AB	80.01	80.01	20.00	0.00	498.66	0.160	79.82	0.1	0.2	8.935	A
C-A	544.78	544.78	136.20	0.00			544.78				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	739.86	739.86	184.97	0.00			739.86				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	164.05	164.05	41.01	0.00	510.58	0.321	163.42	0.3	0.5	10.455	B
C-AB	97.99	97.99	24.50	0.00	453.62	0.216	97.65	0.2	0.3	10.505	B
C-A	667.22	667.22	166.80	0.00			667.22				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	906.14	906.14	226.53	0.00			906.14				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	164.05	164.05	41.01	0.00	510.58	0.321	164.04	0.5	0.5	10.492	B
C-AB	97.99	97.99	24.50	0.00	453.62	0.216	97.98	0.3	0.3	10.527	B
C-A	667.22	667.22	166.80	0.00			667.22				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	906.14	906.14	226.53	0.00			906.14				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	133.95	133.95	33.49	0.00	561.27	0.239	134.56	0.5	0.3	8.532	A
C-AB	80.01	80.01	20.00	0.00	498.66	0.160	80.34	0.3	0.2	8.958	A
C-A	544.78	544.78	136.20	0.00			544.78				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	739.86	739.86	184.97	0.00			739.86				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	112.18	112.18	28.04	0.00	597.94	0.188	112.51	0.3	0.2	7.494	A
C-AB	67.00	67.00	16.75	0.00	531.23	0.126	67.20	0.2	0.2	8.073	A
C-A	456.23	456.23	114.06	0.00			456.23				
A-B	0.00	0.00	0.00	0.00			0.00				
A-C	619.60	619.60	154.90	0.00			619.60				

J2 Ashford Road/Maidstone Road - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J2 Ashford Road/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.59	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	552.00	100.000
B		ONE HOUR	✓	130.00	100.000
C		ONE HOUR	✓	910.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	1.000	551.000
	B	0.000	0.000	130.000
	C	760.000	150.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.00	1.00
	B	0.00	0.00	1.00
	C	0.84	0.16	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	5
	B	0	0	1
	C	3	2	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.050
	B	1.000	1.000	1.010
	C	1.030	1.023	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	415.57	415.57
	B	97.87	97.87
	C	685.10	685.10
16:45-17:00	A	496.24	496.24
	B	116.87	116.87
	C	818.07	818.07
17:00-17:15	A	607.76	607.76
	B	143.13	143.13
	C	1001.93	1001.93
17:15-17:30	A	607.76	607.76
	B	143.13	143.13
	C	1001.93	1001.93
17:30-17:45	A	496.24	496.24
	B	116.87	116.87
	C	818.07	818.07
17:45-18:00	A	415.57	415.57
	B	97.87	97.87
	C	685.10	685.10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	7.93	0.3	A	119.29	178.94
C-AB	0.31	9.97	0.5	A	137.64	206.46
C-A					697.39	1046.08
A-B					0.92	1.38
A-C					505.61	758.41

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	97.87	97.87	24.47	0.00	660.27	0.148	97.17	0.0	0.2	6.449	A
C-AB	112.93	112.93	28.23	0.00	586.49	0.193	111.96	0.0	0.2	7.746	A
C-A	572.17	572.17	143.04	0.00			572.17				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	414.82	414.82	103.71	0.00			414.82				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116.87	116.87	29.22	0.00	635.71	0.184	116.66	0.2	0.2	7.001	A
C-AB	134.85	134.85	33.71	0.00	564.64	0.239	134.54	0.2	0.3	8.556	A
C-A	683.22	683.22	170.81	0.00			683.22				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	495.34	495.34	123.83	0.00			495.34				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	143.13	143.13	35.78	0.00	601.75	0.238	142.79	0.2	0.3	7.917	A
C-AB	165.15	165.15	41.29	0.00	534.44	0.309	164.62	0.3	0.5	9.943	A
C-A	836.78	836.78	209.19	0.00			836.78				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	606.66	606.66	151.67	0.00			606.66				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	143.13	143.13	35.78	0.00	601.75	0.238	143.13	0.3	0.3	7.927	A
C-AB	165.15	165.15	41.29	0.00	534.44	0.309	165.14	0.5	0.5	9.972	A
C-A	836.78	836.78	209.19	0.00			836.78				
A-B	1.10	1.10	0.28	0.00			1.10				
A-C	606.66	606.66	151.67	0.00			606.66				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116.87	116.87	29.22	0.00	635.71	0.184	117.20	0.3	0.2	7.018	A
C-AB	134.85	134.85	33.71	0.00	564.64	0.239	135.36	0.5	0.3	8.589	A
C-A	683.22	683.22	170.81	0.00			683.22				
A-B	0.90	0.90	0.22	0.00			0.90				
A-C	495.34	495.34	123.83	0.00			495.34				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	97.87	97.87	24.47	0.00	660.27	0.148	98.08	0.2	0.2	6.471	A
C-AB	112.93	112.93	28.23	0.00	586.49	0.193	113.24	0.3	0.2	7.788	A
C-A	572.17	572.17	143.04	0.00			572.17				
A-B	0.75	0.75	0.19	0.00			0.75				
A-C	414.82	414.82	103.71	0.00			414.82				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

For sales and distribution information, program advice and maintenance, contact TRL:
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Filename: J3 Ham Lane Old Ham Lane.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J3 Ham Lane Old Ham Lane
Report generation date: 17/07/2015 14:27:32

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J3 Ham Lane/Old Ham Lane - Base 2015							
Stream B-C	0.0	6.14	0.01	A	0.0	6.05	0.02	A
Stream B-A	0.0	8.08	0.01	A	0.0	8.66	0.01	A
Stream C-AB	0.0	5.56	0.01	A	0.0	5.65	0.02	A
Stream C-A								
Stream A-B								
Stream A-C								
	J3 Ham Lane/Old Ham Lane - Base 2031							
Stream B-C	0.0	6.24	0.02	A	0.0	6.16	0.02	A
Stream B-A	0.0	8.38	0.02	A	0.0	9.04	0.01	A
Stream C-AB	0.0	5.49	0.01	A	0.0	5.59	0.03	A
Stream C-A								
Stream A-B								
Stream A-C								
	J3 Ham Lane/Old Ham Lane - Base 2031 + Dev							
Stream B-C	0.0	6.25	0.02	A	0.0	6.18	0.02	A
Stream B-A	0.0	8.42	0.02	A	0.0	9.10	0.01	A
Stream C-AB	0.0	5.46	0.01	A	0.0	5.59	0.03	A
Stream C-A								
Stream A-B								
Stream A-C								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

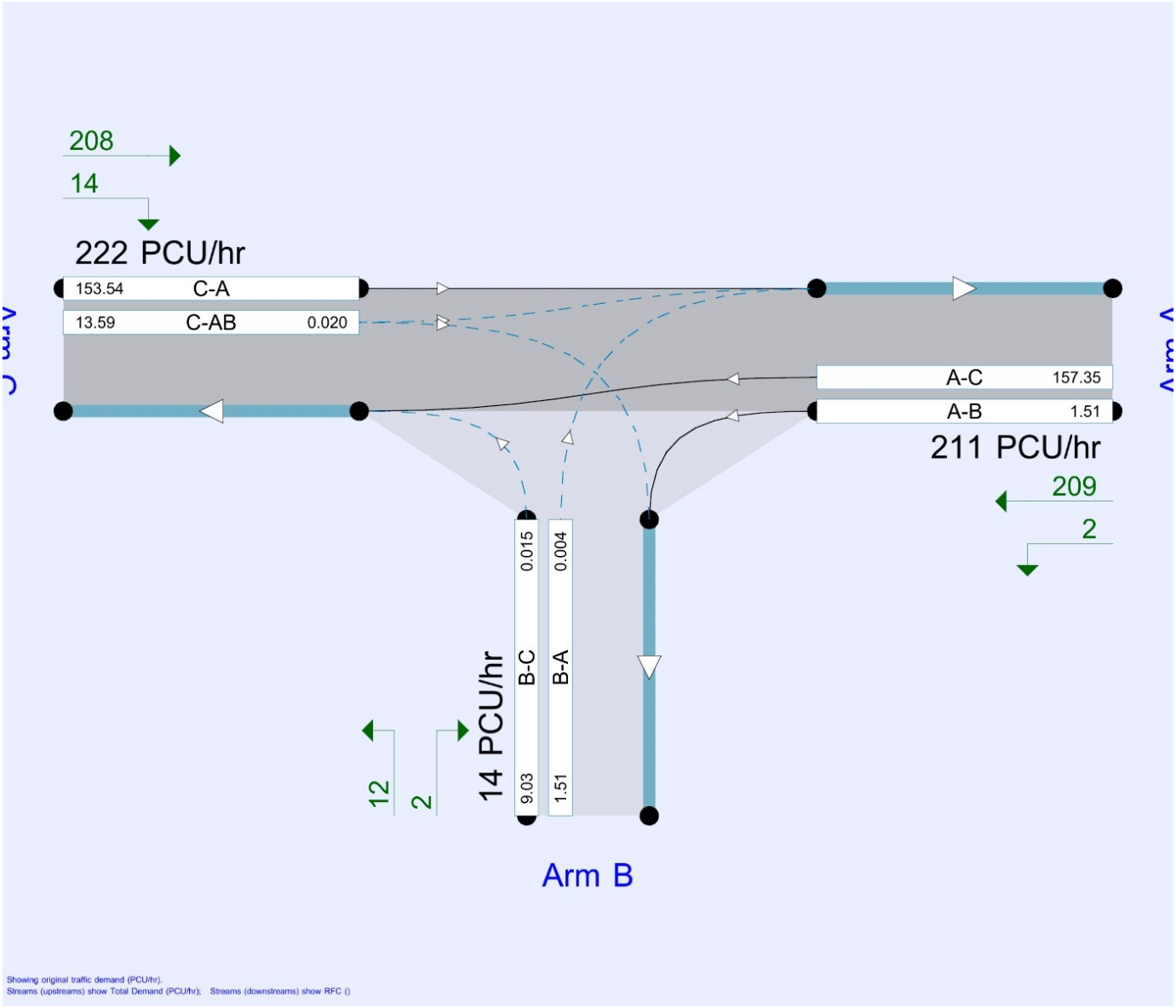
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	07:45	09:15	15	✓
Base 2015	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031	AM	ONE HOUR	07:45	09:15	15	✓
Base 2031	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

J3 Ham Lane/Old Ham Lane - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Ham Lane S		Major
B	Old Ham Lane		Minor
C	Ham Lane N		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.25			55.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	9.60	4.60	2.30	2.30	2.30		1.00	28	26

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	513.727	0.088	0.224	0.141	0.319
1	B-C	634.260	0.092	0.232	-	-
1	C-B	605.814	0.222	0.222	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	148.00	100.000
B		ONE HOUR	✓	14.00	100.000
C		ONE HOUR	✓	162.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	5.000	143.000
	B	6.000	0.000	8.000
	C	157.000	5.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.03	0.97
	B	0.43	0.00	0.57
	C	0.97	0.03	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	7	12
	B	0	0	0
	C	8	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.065	1.120
	B	1.000	1.000	1.000
	C	1.080	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	111.42	111.42
	B	10.54	10.54
	C	121.96	121.96
08:00-08:15	A	133.05	133.05
	B	12.59	12.59
	C	145.63	145.63
08:15-08:30	A	162.95	162.95
	B	15.41	15.41
	C	178.37	178.37
08:30-08:45	A	162.95	162.95
	B	15.41	15.41
	C	178.37	178.37
08:45-09:00	A	133.05	133.05
	B	12.59	12.59
	C	145.63	145.63
09:00-09:15	A	111.42	111.42
	B	10.54	10.54
	C	121.96	121.96

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	6.14	0.0	A	7.34	11.01
B-A	0.01	8.08	0.0	A	5.51	8.26
C-AB	0.01	5.56	0.0	A	5.84	8.75
C-A					142.82	214.23
A-B					4.59	6.88
A-C					131.22	196.83

Main Results for each time segment

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	6.02	6.02	1.51	0.00	607.44	0.010	5.98	0.0	0.0	5.985	A
B-A	4.52	4.52	1.13	0.00	471.48	0.010	4.48	0.0	0.0	7.709	A
C-AB	4.56	4.56	1.14	0.00	660.80	0.007	4.53	0.0	0.0	5.557	A
C-A	117.40	117.40	29.35	0.00			117.40				
A-B	3.76	3.76	0.94	0.00			3.76				
A-C	107.66	107.66	26.91	0.00			107.66				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.19	7.19	1.80	0.00	602.18	0.012	7.18	0.0	0.0	6.049	A
B-A	5.39	5.39	1.35	0.00	463.32	0.012	5.39	0.0	0.0	7.861	A
C-AB	5.66	5.66	1.41	0.00	671.70	0.008	5.65	0.0	0.0	5.482	A
C-A	139.98	139.98	34.99	0.00			139.98				
A-B	4.49	4.49	1.12	0.00			4.49				
A-C	128.55	128.55	32.14	0.00			128.55				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.81	8.81	2.20	0.00	594.95	0.015	8.80	0.0	0.0	6.141	A
B-A	6.61	6.61	1.65	0.00	451.98	0.015	6.59	0.0	0.0	8.082	A
C-AB	7.28	7.28	1.82	0.00	686.82	0.011	7.27	0.0	0.0	5.387	A
C-A	171.08	171.08	42.77	0.00			171.08				
A-B	5.51	5.51	1.38	0.00			5.51				
A-C	157.45	157.45	39.36	0.00			157.45				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.81	8.81	2.20	0.00	594.93	0.015	8.81	0.0	0.0	6.141	A
B-A	6.61	6.61	1.65	0.00	451.99	0.015	6.61	0.0	0.0	8.082	A
C-AB	7.29	7.29	1.82	0.00	686.82	0.011	7.29	0.0	0.0	5.394	A
C-A	171.08	171.08	42.77	0.00			171.08				
A-B	5.51	5.51	1.38	0.00			5.51				
A-C	157.45	157.45	39.36	0.00			157.45				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.19	7.19	1.80	0.00	602.16	0.012	7.20	0.0	0.0	6.052	A
B-A	5.39	5.39	1.35	0.00	463.34	0.012	5.41	0.0	0.0	7.861	A
C-AB	5.66	5.66	1.41	0.00	671.70	0.008	5.67	0.0	0.0	5.497	A
C-A	139.98	139.98	34.99	0.00			139.98				
A-B	4.49	4.49	1.12	0.00			4.49				
A-C	128.55	128.55	32.14	0.00			128.55				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	6.02	6.02	1.51	0.00	607.39	0.010	6.03	0.0	0.0	5.985	A
B-A	4.52	4.52	1.13	0.00	471.54	0.010	4.53	0.0	0.0	7.710	A
C-AB	4.57	4.57	1.14	0.00	660.81	0.007	4.57	0.0	0.0	5.564	A
C-A	117.39	117.39	29.35	0.00			117.39				
A-B	3.76	3.76	0.94	0.00			3.76				
A-C	107.66	107.66	26.91	0.00			107.66				

J3 Ham Lane/Old Ham Lane - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.45	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2015	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	165.00	100.000
B		ONE HOUR	✓	12.00	100.000
C		ONE HOUR	✓	176.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	2.000	163.000
	B	2.000	0.000	10.000
	C	165.000	11.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.01	0.99
	B	0.17	0.00	0.83
	C	0.94	0.06	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	2
	B	0	0	0
	C	13	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.020
	B	1.000	1.000	1.000
	C	1.130	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	124.22	124.22
	B	9.03	9.03
	C	132.50	132.50
16:45-17:00	A	148.33	148.33
	B	10.79	10.79
	C	158.22	158.22
17:00-17:15	A	181.67	181.67
	B	13.21	13.21
	C	193.78	193.78
17:15-17:30	A	181.67	181.67
	B	13.21	13.21
	C	193.78	193.78
17:30-17:45	A	148.33	148.33
	B	10.79	10.79
	C	158.22	158.22
17:45-18:00	A	124.22	124.22
	B	9.03	9.03
	C	132.50	132.50

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.05	0.0	A	9.18	13.76
B-A	0.01	8.66	0.0	A	1.84	2.75
C-AB	0.02	5.65	0.0	A	13.01	19.51
C-A					148.49	222.74
A-B					1.84	2.75
A-C					149.57	224.36

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	619.82	0.012	7.48	0.0	0.0	5.878	A
B-A	1.51	1.51	0.38	0.00	438.70	0.003	1.49	0.0	0.0	8.233	A
C-AB	10.14	10.14	2.53	0.00	662.18	0.015	10.07	0.0	0.0	5.639	A
C-A	122.36	122.36	30.59	0.00			122.36				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	122.71	122.71	30.68	0.00			122.71				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	613.99	0.015	8.98	0.0	0.0	5.949	A
B-A	1.80	1.80	0.45	0.00	430.00	0.004	1.79	0.0	0.0	8.407	A
C-AB	12.60	12.60	3.15	0.00	673.39	0.019	12.58	0.0	0.0	5.576	A
C-A	145.62	145.62	36.41	0.00			145.62				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	146.53	146.53	36.63	0.00			146.53				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	605.96	0.018	11.00	0.0	0.0	6.050	A
B-A	2.20	2.20	0.55	0.00	417.94	0.005	2.20	0.0	0.0	8.658	A
C-AB	16.27	16.27	4.07	0.00	688.96	0.024	16.24	0.0	0.0	5.501	A
C-A	177.51	177.51	44.38	0.00			177.51				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	179.47	179.47	44.87	0.00			179.47				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	605.95	0.018	11.01	0.0	0.0	6.050	A
B-A	2.20	2.20	0.55	0.00	417.94	0.005	2.20	0.0	0.0	8.658	A
C-AB	16.27	16.27	4.07	0.00	688.96	0.024	16.27	0.0	0.0	5.513	A
C-A	177.50	177.50	44.38	0.00			177.50				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	179.47	179.47	44.87	0.00			179.47				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	613.98	0.015	9.00	0.0	0.0	5.950	A
B-A	1.80	1.80	0.45	0.00	430.00	0.004	1.80	0.0	0.0	8.407	A
C-AB	12.61	12.61	3.15	0.00	673.40	0.019	12.63	0.0	0.0	5.601	A
C-A	145.61	145.61	36.40	0.00			145.61				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	146.53	146.53	36.63	0.00			146.53				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	619.79	0.012	7.54	0.0	0.0	5.881	A
B-A	1.51	1.51	0.38	0.00	438.72	0.003	1.51	0.0	0.0	8.233	A
C-AB	10.15	10.15	2.54	0.00	662.20	0.015	10.17	0.0	0.0	5.654	A
C-A	122.35	122.35	30.59	0.00			122.35				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	122.71	122.71	30.68	0.00			122.71				

J3 Ham Lane/Old Ham Lane - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.42	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	179.00	100.000
B		ONE HOUR	✓	17.00	100.000
C		ONE HOUR	✓	196.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	6.000	173.000
	B	7.000	0.000	10.000
	C	190.000	6.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.03	0.97
	B	0.41	0.00	0.59
	C	0.97	0.03	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	7	12
	B	0	0	0
	C	8	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.065	1.120
	B	1.000	1.000	1.000
	C	1.080	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	134.76	134.76
	B	12.80	12.80
	C	147.56	147.56
08:00-08:15	A	160.92	160.92
	B	15.28	15.28
	C	176.20	176.20
08:15-08:30	A	197.08	197.08
	B	18.72	18.72
	C	215.80	215.80
08:30-08:45	A	197.08	197.08
	B	18.72	18.72
	C	215.80	215.80
08:45-09:00	A	160.92	160.92
	B	15.28	15.28
	C	176.20	176.20
09:00-09:15	A	134.76	134.76
	B	12.80	12.80
	C	147.56	147.56

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.24	0.0	A	9.18	13.76
B-A	0.02	8.38	0.0	A	6.42	9.63
C-AB	0.01	5.49	0.0	A	7.36	11.04
C-A					172.50	258.74
A-B					5.51	8.26
A-C					158.75	238.12

Main Results for each time segment

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	602.79	0.012	7.48	0.0	0.0	6.047	A
B-A	5.27	5.27	1.32	0.00	460.89	0.011	5.22	0.0	0.0	7.899	A
C-AB	5.69	5.69	1.42	0.00	672.61	0.008	5.66	0.0	0.0	5.481	A
C-A	141.86	141.86	35.47	0.00			141.86				
A-B	4.52	4.52	1.13	0.00			4.52				
A-C	130.24	130.24	32.56	0.00			130.24				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	596.43	0.015	8.98	0.0	0.0	6.127	A
B-A	6.29	6.29	1.57	0.00	451.04	0.014	6.28	0.0	0.0	8.094	A
C-AB	7.11	7.11	1.78	0.00	685.86	0.010	7.10	0.0	0.0	5.393	A
C-A	169.09	169.09	42.27	0.00			169.09				
A-B	5.39	5.39	1.35	0.00			5.39				
A-C	155.52	155.52	38.88	0.00			155.52				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	587.66	0.019	11.00	0.0	0.0	6.242	A
B-A	7.71	7.71	1.93	0.00	437.37	0.018	7.69	0.0	0.0	8.378	A
C-AB	9.25	9.25	2.31	0.00	704.23	0.013	9.24	0.0	0.0	5.283	A
C-A	206.55	206.55	51.64	0.00			206.55				
A-B	6.61	6.61	1.65	0.00			6.61				
A-C	190.48	190.48	47.62	0.00			190.48				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	587.65	0.019	11.01	0.0	0.0	6.242	A
B-A	7.71	7.71	1.93	0.00	437.38	0.018	7.71	0.0	0.0	8.378	A
C-AB	9.26	9.26	2.31	0.00	704.23	0.013	9.26	0.0	0.0	5.293	A
C-A	206.54	206.54	51.64	0.00			206.54				
A-B	6.61	6.61	1.65	0.00			6.61				
A-C	190.48	190.48	47.62	0.00			190.48				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	596.41	0.015	9.00	0.0	0.0	6.130	A
B-A	6.29	6.29	1.57	0.00	451.06	0.014	6.31	0.0	0.0	8.095	A
C-AB	7.12	7.12	1.78	0.00	685.86	0.010	7.13	0.0	0.0	5.410	A
C-A	169.08	169.08	42.27	0.00			169.08				
A-B	5.39	5.39	1.35	0.00			5.39				
A-C	155.52	155.52	38.88	0.00			155.52				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	602.74	0.012	7.54	0.0	0.0	6.050	A
B-A	5.27	5.27	1.32	0.00	460.94	0.011	5.28	0.0	0.0	7.902	A
C-AB	5.70	5.70	1.43	0.00	672.62	0.008	5.71	0.0	0.0	5.490	A
C-A	141.85	141.85	35.46	0.00			141.85				
A-B	4.52	4.52	1.13	0.00			4.52				
A-C	130.24	130.24	32.56	0.00			130.24				

J3 Ham Lane/Old Ham Lane - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.46	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	202.00	100.000
B		ONE HOUR	✓	14.00	100.000
C		ONE HOUR	✓	217.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	2.000	200.000
	B	2.000	0.000	12.000
	C	203.000	14.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.01	0.99
	B	0.14	0.00	0.86
	C	0.94	0.06	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	2
	B	0	0	0
	C	13	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.020
	B	1.000	1.000	1.000
	C	1.130	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	152.08	152.08
	B	10.54	10.54
	C	163.37	163.37
16:45-17:00	A	181.59	181.59
	B	12.59	12.59
	C	195.08	195.08
17:00-17:15	A	222.41	222.41
	B	15.41	15.41
	C	238.92	238.92
17:15-17:30	A	222.41	222.41
	B	15.41	15.41
	C	238.92	238.92
17:30-17:45	A	181.59	181.59
	B	12.59	12.59
	C	195.08	195.08
17:45-18:00	A	152.08	152.08
	B	10.54	10.54
	C	163.37	163.37

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.16	0.0	A	11.01	16.52
B-A	0.01	9.04	0.0	A	1.84	2.75
C-AB	0.03	5.59	0.0	A	17.52	26.29
C-A					181.60	272.40
A-B					1.84	2.75
A-C					183.52	275.29

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9.03	9.03	2.26	0.00	614.51	0.015	8.97	0.0	0.0	5.945	A
B-A	1.51	1.51	0.38	0.00	425.94	0.004	1.49	0.0	0.0	8.481	A
C-AB	13.51	13.51	3.38	0.00	675.63	0.020	13.41	0.0	0.0	5.577	A
C-A	149.86	149.86	37.47	0.00			149.86				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	150.57	150.57	37.64	0.00			150.57				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	10.79	10.79	2.70	0.00	607.37	0.018	10.78	0.0	0.0	6.033	A
B-A	1.80	1.80	0.45	0.00	415.28	0.004	1.79	0.0	0.0	8.706	A
C-AB	16.93	16.93	4.23	0.00	689.52	0.025	16.90	0.0	0.0	5.503	A
C-A	178.15	178.15	44.54	0.00			178.15				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	179.80	179.80	44.95	0.00			179.80				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	13.21	13.21	3.30	0.00	597.53	0.022	13.19	0.0	0.0	6.160	A
B-A	2.20	2.20	0.55	0.00	400.54	0.006	2.20	0.0	0.0	9.037	A
C-AB	22.11	22.11	5.53	0.00	708.79	0.031	22.07	0.0	0.0	5.417	A
C-A	216.81	216.81	54.20	0.00			216.81				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	220.20	220.20	55.05	0.00			220.20				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	13.21	13.21	3.30	0.00	597.52	0.022	13.21	0.0	0.0	6.160	A
B-A	2.20	2.20	0.55	0.00	400.53	0.006	2.20	0.0	0.0	9.037	A
C-AB	22.12	22.12	5.53	0.00	708.81	0.031	22.12	0.0	0.0	5.431	A
C-A	216.80	216.80	54.20	0.00			216.80				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	220.20	220.20	55.05	0.00			220.20				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	10.79	10.79	2.70	0.00	607.36	0.018	10.81	0.0	0.0	6.036	A
B-A	1.80	1.80	0.45	0.00	415.29	0.004	1.80	0.0	0.0	8.706	A
C-AB	16.94	16.94	4.24	0.00	689.54	0.025	16.98	0.0	0.0	5.535	A
C-A	178.14	178.14	44.53	0.00			178.14				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	179.80	179.80	44.95	0.00			179.80				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9.03	9.03	2.26	0.00	614.48	0.015	9.05	0.0	0.0	5.948	A
B-A	1.51	1.51	0.38	0.00	425.95	0.004	1.51	0.0	0.0	8.481	A
C-AB	13.53	13.53	3.38	0.00	675.65	0.020	13.56	0.0	0.0	5.594	A
C-A	149.84	149.84	37.46	0.00			149.84				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	150.57	150.57	37.64	0.00			150.57				

J3 Ham Lane/Old Ham Lane - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.41	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	183.00	100.000
B		ONE HOUR	✓	17.00	100.000
C		ONE HOUR	✓	205.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	6.000	177.000
	B	7.000	0.000	10.000
	C	199.000	6.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.03	0.97
	B	0.41	0.00	0.59
	C	0.97	0.03	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	7	12
	B	0	0	0
	C	8	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.065	1.120
	B	1.000	1.000	1.000
	C	1.080	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	137.77	137.77
	B	12.80	12.80
	C	154.33	154.33
08:00-08:15	A	164.51	164.51
	B	15.28	15.28
	C	184.29	184.29
08:15-08:30	A	201.49	201.49
	B	18.72	18.72
	C	225.71	225.71
08:30-08:45	A	201.49	201.49
	B	18.72	18.72
	C	225.71	225.71
08:45-09:00	A	164.51	164.51
	B	15.28	15.28
	C	184.29	184.29
09:00-09:15	A	137.77	137.77
	B	12.80	12.80
	C	154.33	154.33

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.25	0.0	A	9.18	13.76
B-A	0.02	8.42	0.0	A	6.42	9.63
C-AB	0.01	5.46	0.0	A	7.45	11.18
C-A					180.66	270.99
A-B					5.51	8.26
A-C					162.42	243.63

Main Results for each time segment

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	602.09	0.013	7.48	0.0	0.0	6.054	A
B-A	5.27	5.27	1.32	0.00	459.27	0.011	5.22	0.0	0.0	7.927	A
C-AB	5.75	5.75	1.44	0.00	676.53	0.009	5.72	0.0	0.0	5.453	A
C-A	148.58	148.58	37.15	0.00			148.58				
A-B	4.52	4.52	1.13	0.00			4.52				
A-C	133.25	133.25	33.31	0.00			133.25				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	595.59	0.015	8.98	0.0	0.0	6.136	A
B-A	6.29	6.29	1.57	0.00	449.10	0.014	6.28	0.0	0.0	8.129	A
C-AB	7.20	7.20	1.80	0.00	690.53	0.010	7.19	0.0	0.0	5.361	A
C-A	177.09	177.09	44.27	0.00			177.09				
A-B	5.39	5.39	1.35	0.00			5.39				
A-C	159.12	159.12	39.78	0.00			159.12				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	586.63	0.019	11.00	0.0	0.0	6.253	A
B-A	7.71	7.71	1.93	0.00	435.00	0.018	7.69	0.0	0.0	8.424	A
C-AB	9.39	9.39	2.35	0.00	709.94	0.013	9.38	0.0	0.0	5.245	A
C-A	216.32	216.32	54.08	0.00			216.32				
A-B	6.61	6.61	1.65	0.00			6.61				
A-C	194.88	194.88	48.72	0.00			194.88				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11.01	11.01	2.75	0.00	586.62	0.019	11.01	0.0	0.0	6.253	A
B-A	7.71	7.71	1.93	0.00	435.01	0.018	7.71	0.0	0.0	8.424	A
C-AB	9.39	9.39	2.35	0.00	709.94	0.013	9.39	0.0	0.0	5.255	A
C-A	216.32	216.32	54.08	0.00			216.32				
A-B	6.61	6.61	1.65	0.00			6.61				
A-C	194.88	194.88	48.72	0.00			194.88				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8.99	8.99	2.25	0.00	595.56	0.015	9.00	0.0	0.0	6.136	A
B-A	6.29	6.29	1.57	0.00	449.13	0.014	6.31	0.0	0.0	8.131	A
C-AB	7.21	7.21	1.80	0.00	690.54	0.010	7.22	0.0	0.0	5.378	A
C-A	177.08	177.08	44.27	0.00			177.08				
A-B	5.39	5.39	1.35	0.00			5.39				
A-C	159.12	159.12	39.78	0.00			159.12				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	7.53	7.53	1.88	0.00	602.03	0.013	7.54	0.0	0.0	6.057	A
B-A	5.27	5.27	1.32	0.00	459.32	0.011	5.28	0.0	0.0	7.930	A
C-AB	5.76	5.76	1.44	0.00	676.53	0.009	5.77	0.0	0.0	5.464	A
C-A	148.57	148.57	37.14	0.00			148.57				
A-B	4.52	4.52	1.13	0.00			4.52				
A-C	133.25	133.25	33.31	0.00			133.25				

J3 Ham Lane/Old Ham Lane - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J3 Ham Lane/Old Ham Lane	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.45	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	211.00	100.000
B		ONE HOUR	✓	14.00	100.000
C		ONE HOUR	✓	222.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	2.000	209.000
	B	2.000	0.000	12.000
	C	208.000	14.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.01	0.99
	B	0.14	0.00	0.86
	C	0.94	0.06	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	2
	B	0	0	0
	C	13	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.020
	B	1.000	1.000	1.000
	C	1.130	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	158.85	158.85
	B	10.54	10.54
	C	167.13	167.13
16:45-17:00	A	189.68	189.68
	B	12.59	12.59
	C	199.57	199.57
17:00-17:15	A	232.32	232.32
	B	15.41	15.41
	C	244.43	244.43
17:15-17:30	A	232.32	232.32
	B	15.41	15.41
	C	244.43	244.43
17:30-17:45	A	189.68	189.68
	B	12.59	12.59
	C	199.57	199.57
17:45-18:00	A	158.85	158.85
	B	10.54	10.54
	C	167.13	167.13

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.18	0.0	A	11.01	16.52
B-A	0.01	9.10	0.0	A	1.84	2.75
C-AB	0.03	5.59	0.0	A	17.66	26.49
C-A					186.05	279.07
A-B					1.84	2.75
A-C					191.78	287.67

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9.03	9.03	2.26	0.00	612.89	0.015	8.97	0.0	0.0	5.961	A
B-A	1.51	1.51	0.38	0.00	424.03	0.004	1.49	0.0	0.0	8.519	A
C-AB	13.59	13.59	3.40	0.00	676.77	0.020	13.49	0.0	0.0	5.571	A
C-A	153.54	153.54	38.39	0.00			153.54				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	157.35	157.35	39.34	0.00			157.35				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	10.79	10.79	2.70	0.00	605.44	0.018	10.78	0.0	0.0	6.053	A
B-A	1.80	1.80	0.45	0.00	413.00	0.004	1.79	0.0	0.0	8.754	A
C-AB	17.05	17.05	4.26	0.00	690.91	0.025	17.03	0.0	0.0	5.496	A
C-A	182.52	182.52	45.63	0.00			182.52				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	187.89	187.89	46.97	0.00			187.89				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	13.21	13.21	3.30	0.00	595.16	0.022	13.19	0.0	0.0	6.185	A
B-A	2.20	2.20	0.55	0.00	397.74	0.006	2.20	0.0	0.0	9.101	A
C-AB	22.32	22.32	5.58	0.00	710.52	0.031	22.27	0.0	0.0	5.409	A
C-A	222.11	222.11	55.53	0.00			222.11				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	230.11	230.11	57.53	0.00			230.11				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	13.21	13.21	3.30	0.00	595.15	0.022	13.21	0.0	0.0	6.185	A
B-A	2.20	2.20	0.55	0.00	397.73	0.006	2.20	0.0	0.0	9.101	A
C-AB	22.33	22.33	5.58	0.00	710.54	0.031	22.32	0.0	0.0	5.426	A
C-A	222.10	222.10	55.53	0.00			222.10				
A-B	2.20	2.20	0.55	0.00			2.20				
A-C	230.11	230.11	57.53	0.00			230.11				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	10.79	10.79	2.70	0.00	605.43	0.018	10.81	0.0	0.0	6.056	A
B-A	1.80	1.80	0.45	0.00	413.00	0.004	1.80	0.0	0.0	8.754	A
C-AB	17.07	17.07	4.27	0.00	690.93	0.025	17.11	0.0	0.0	5.529	A
C-A	182.50	182.50	45.63	0.00			182.50				
A-B	1.80	1.80	0.45	0.00			1.80				
A-C	187.89	187.89	46.97	0.00			187.89				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9.03	9.03	2.26	0.00	612.86	0.015	9.05	0.0	0.0	5.963	A
B-A	1.51	1.51	0.38	0.00	424.04	0.004	1.51	0.0	0.0	8.521	A
C-AB	13.62	13.62	3.40	0.00	676.80	0.020	13.65	0.0	0.0	5.587	A
C-A	153.52	153.52	38.38	0.00			153.52				
A-B	1.51	1.51	0.38	0.00			1.51				
A-C	157.35	157.35	39.34	0.00			157.35				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

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Filename: J4 Faversham Road Old Ashford Road High Street Maidstone Road.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J4 Faversham Road Old Ashford Road High Street Maidstone Road
Report generation date: 17/07/2015 14:33:53

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J4 Faversham Road / Old Ashford Road / High Street / Maidstone Road - Base 2015							
Stream B-ACD	0.5	9.79	0.32	A	0.5	9.81	0.33	A
Stream A-BCD	0.0	5.77	0.01	A	0.0	6.02	0.03	A
Stream A-B								
Stream A-C								
Stream D-AB	0.1	7.25	0.07	A	0.1	7.17	0.07	A
Stream D-BC	0.2	9.89	0.13	A	0.2	10.31	0.15	B
Stream C-ABD	0.4	7.65	0.26	A	0.4	7.17	0.25	A
Stream C-D								
Stream C-A								
	J4 Faversham Road / Old Ashford Road / High Street / Maidstone Road - Base 2031							
Stream B-ACD	0.7	11.40	0.40	B	0.7	11.51	0.41	B
Stream A-BCD	0.0	5.83	0.02	A	0.0	6.15	0.04	A
Stream A-B								
Stream A-C								
Stream D-AB	0.2	7.77	0.14	A	0.1	7.66	0.09	A
Stream D-BC	0.2	10.87	0.17	B	0.2	11.46	0.19	B
Stream C-ABD	0.6	8.24	0.32	A	0.6	7.67	0.31	A
Stream C-D								
Stream C-A								
	J4 Faversham Road / Old Ashford Road / High Street / Maidstone Road - Base 2031 + Dev							
Stream B-ACD	2.3	24.54	0.70	C	1.4	17.75	0.59	C
Stream A-BCD	0.0	5.89	0.02	A	0.1	6.12	0.04	A
Stream A-B								
Stream A-C								
Stream D-AB	0.1	8.46	0.12	A	0.2	9.24	0.15	A
Stream D-BC	0.3	12.52	0.22	B	0.4	14.04	0.29	B
Stream C-ABD	0.8	8.86	0.38	A	0.8	8.84	0.41	A
Stream C-D								
Stream C-A								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

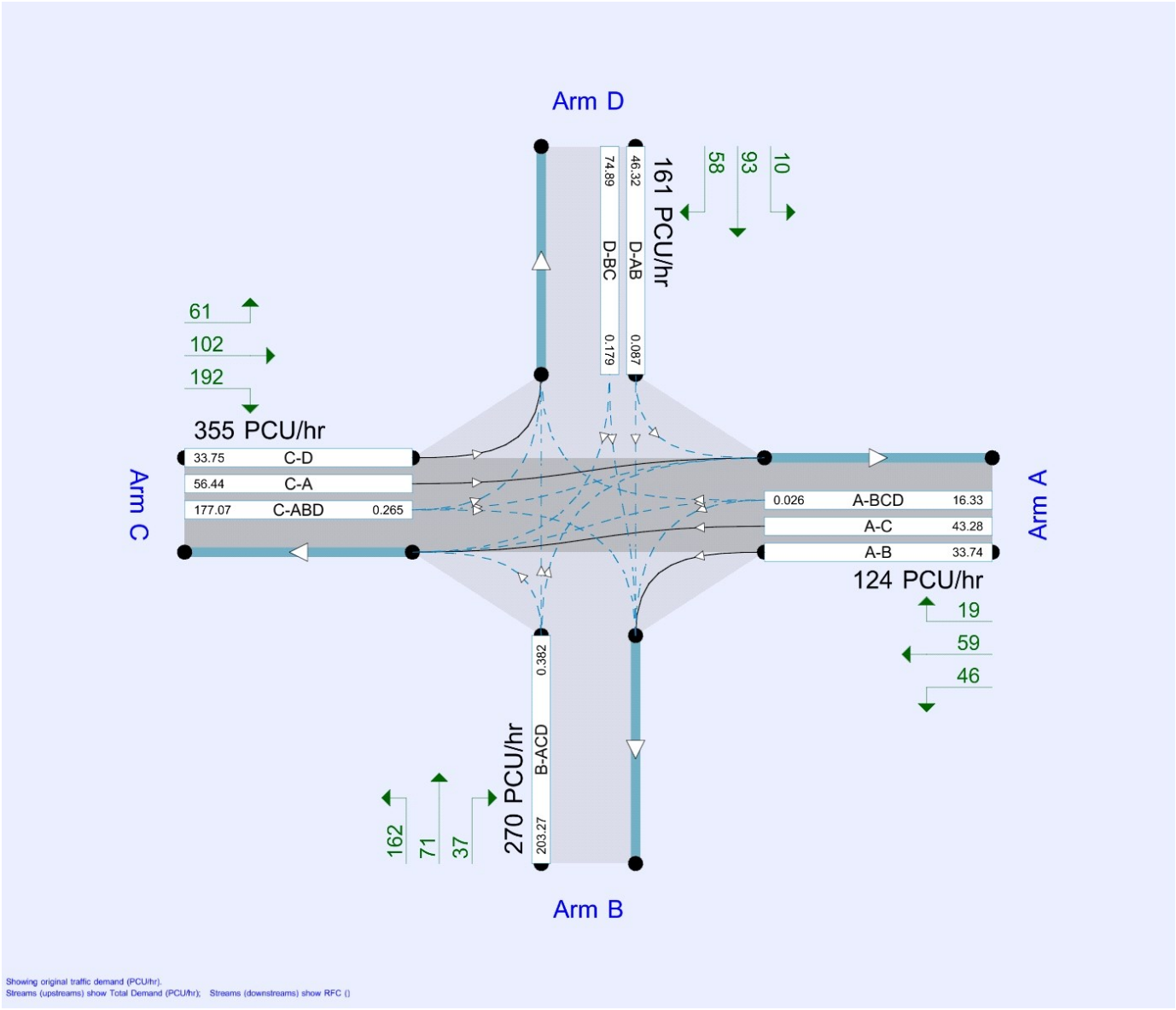
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	08:00	09:30	15	✓
Base 2015	PM	ONE HOUR	16:15	17:45	15	✓
Base 2031	AM	ONE HOUR	08:00	09:30	15	✓
Base 2031	PM	ONE HOUR	16:15	17:45	15	✓
Base 2031 + Dev	AM	ONE HOUR	08:00	09:30	15	✓
Base 2031 + Dev	PM	ONE HOUR	16:15	17:45	15	✓

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	6.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Faversham Road N		Major
B	Old Ashford Road E		Minor
C	High Street S		Major
D	Maidstone Road W		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	6.10			142.0	✓	0.00
C	6.10			58.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.16								26	36
D	One lane plus flare		10.00	2.50	2.50	2.50	2.50		1.00	95	18

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
1	A-D	656.197	-	-	-	-	-	-	0.253	0.362	0.253	-	-	-
1	B-A	511.767	0.093	0.235	0.235	-	-	-	0.148	0.335	-	0.235	0.235	0.117
1	B-C	656.957	0.100	0.253	-	-	-	-	-	-	-	-	-	-
1	B-D, nearside lane	511.767	0.093	0.235	0.235	-	-	-	0.148	0.335	0.148	-	-	-
1	B-D, offside lane	511.767	0.093	0.235	0.235	-	-	-	0.148	0.335	0.148	-	-	-
1	C-B	607.552	0.234	0.234	0.335	-	-	-	-	-	-	-	-	-
1	D-A	762.471	-	-	-	-	-	-	0.294	-	0.116	-	-	-
1	D-B, nearside lane	620.527	0.179	0.179	0.406	-	-	-	0.284	0.284	0.113	-	-	-
1	D-B, offside lane	517.005	0.149	0.149	0.339	-	-	-	0.237	0.237	0.094	-	-	-
1	D-C	517.005	-	0.149	0.339	0.118	0.237	0.237	0.237	0.237	0.094	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	83.00	100.000
B		ONE HOUR	✓	157.00	100.000
C		ONE HOUR	✓	219.00	100.000
D		ONE HOUR	✓	86.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	14.000	62.000	7.000
	B	18.000	0.000	102.000	37.000
	C	62.000	130.000	0.000	27.000
	D	13.000	40.000	33.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.17	0.75	0.08
	B	0.11	0.00	0.65	0.24
	C	0.28	0.59	0.00	0.12
	D	0.15	0.47	0.38	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	5	0
	B	6	0	0	0
	C	7	2	0	4
	D	20	3	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.050	1.000
	B	1.060	1.000	1.000	1.000
	C	1.070	1.020	1.000	1.040
	D	1.200	1.028	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:00-08:15	A	62.49	62.49
	B	118.20	118.20
	C	164.87	164.87
	D	64.75	64.75
08:15-08:30	A	74.62	74.62
	B	141.14	141.14
	C	196.88	196.88
	D	77.31	77.31
08:30-08:45	A	91.38	91.38
	B	172.86	172.86
	C	241.12	241.12
	D	94.69	94.69
08:45-09:00	A	91.38	91.38
	B	172.86	172.86
	C	241.12	241.12
	D	94.69	94.69
09:00-09:15	A	74.62	74.62
	B	141.14	141.14
	C	196.88	196.88
	D	77.31	77.31
09:15-09:30	A	62.49	62.49
	B	118.20	118.20
	C	164.87	164.87
	D	64.75	64.75

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.32	9.79	0.5	A	144.07	216.10
A-BCD	0.01	5.77	0.0	A	7.23	10.84
A-B					12.70	19.05
A-C					56.24	84.35
D-AB	0.07	7.25	0.1	A	31.63	47.45
D-BC	0.13	9.89	0.2	A	47.28	70.92
C-ABD	0.26	7.65	0.4	A	137.09	205.63
C-D					19.38	29.06
C-A					44.49	66.74

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	118.20	118.20	29.55	0.00	561.07	0.211	117.14	0.0	0.3	8.143	A
A-BCD	5.78	5.78	1.44	0.00	641.83	0.009	5.74	0.0	0.0	5.678	A
A-B	10.45	10.45	2.61	0.00			10.45				
A-C	46.26	46.26	11.57	0.00			46.26				
D-AB	25.68	25.68	6.42	0.00	608.65	0.042	25.49	0.0	0.0	6.711	A
D-BC	39.06	39.06	9.77	0.00	454.34	0.086	38.69	0.0	0.1	8.739	A
C-ABD	109.21	109.21	27.30	0.00	637.27	0.171	108.28	0.0	0.2	6.949	A
C-D	16.89	16.89	4.22	0.00			16.89				
C-A	38.78	38.78	9.69	0.00			38.78				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	141.14	141.14	35.28	0.00	553.43	0.255	140.84	0.3	0.3	8.776	A
A-BCD	7.04	7.04	1.76	0.00	639.10	0.011	7.03	0.0	0.0	5.716	A
A-B	12.45	12.45	3.11	0.00			12.45				
A-C	55.13	55.13	13.78	0.00			55.13				
D-AB	30.91	30.91	7.73	0.00	595.73	0.052	30.87	0.0	0.1	6.928	A
D-BC	46.40	46.40	11.60	0.00	441.56	0.105	46.31	0.1	0.1	9.196	A
C-ABD	133.30	133.30	33.33	0.00	643.19	0.207	133.04	0.2	0.3	7.228	A
C-D	19.29	19.29	4.82	0.00			19.29				
C-A	44.29	44.29	11.07	0.00			44.29				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	172.86	172.86	43.22	0.00	542.84	0.318	172.37	0.3	0.5	9.768	A
A-BCD	8.86	8.86	2.22	0.00	635.86	0.014	8.85	0.0	0.0	5.767	A
A-B	15.20	15.20	3.80	0.00			15.20				
A-C	67.32	67.32	16.83	0.00			67.32				
D-AB	38.29	38.29	9.57	0.00	577.74	0.066	38.22	0.1	0.1	7.250	A
D-BC	56.40	56.40	14.10	0.00	424.16	0.133	56.25	0.1	0.2	9.874	A
C-ABD	168.63	168.63	42.16	0.00	651.56	0.259	168.21	0.3	0.4	7.636	A
C-D	21.99	21.99	5.50	0.00			21.99				
C-A	50.50	50.50	12.63	0.00			50.50				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	172.86	172.86	43.22	0.00	542.76	0.318	172.85	0.5	0.5	9.795	A
A-BCD	8.86	8.86	2.22	0.00	635.72	0.014	8.86	0.0	0.0	5.773	A
A-B	15.20	15.20	3.80	0.00			15.20				
A-C	67.32	67.32	16.83	0.00			67.32				
D-AB	38.30	38.30	9.57	0.00	577.56	0.066	38.30	0.1	0.1	7.250	A
D-BC	56.39	56.39	14.10	0.00	423.98	0.133	56.39	0.2	0.2	9.888	A
C-ABD	168.69	168.69	42.17	0.00	651.62	0.259	168.68	0.4	0.4	7.655	A
C-D	21.97	21.97	5.49	0.00			21.97				
C-A	50.46	50.46	12.62	0.00			50.46				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	141.14	141.14	35.28	0.00	553.30	0.255	141.61	0.5	0.3	8.813	A
A-BCD	7.04	7.04	1.76	0.00	638.87	0.011	7.06	0.0	0.0	5.724	A
A-B	12.45	12.45	3.11	0.00			12.45				
A-C	55.13	55.13	13.78	0.00			55.13				
D-AB	30.92	30.92	7.73	0.00	595.44	0.052	30.99	0.1	0.1	6.929	A
D-BC	46.39	46.39	11.60	0.00	441.27	0.105	46.53	0.2	0.1	9.212	A
C-ABD	133.38	133.38	33.34	0.00	643.28	0.207	133.78	0.4	0.3	7.255	A
C-D	19.26	19.26	4.82	0.00			19.26				
C-A	44.24	44.24	11.06	0.00			44.24				

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	118.20	118.20	29.55	0.00	560.83	0.211	118.51	0.3	0.3	8.199	A
A-BCD	5.78	5.78	1.45	0.00	641.42	0.009	5.79	0.0	0.0	5.687	A
A-B	10.45	10.45	2.61	0.00			10.45				
A-C	46.26	46.26	11.56	0.00			46.26				
D-AB	25.69	25.69	6.42	0.00	608.16	0.042	25.74	0.1	0.0	6.721	A
D-BC	39.05	39.05	9.76	0.00	453.83	0.086	39.15	0.1	0.1	8.771	A
C-ABD	109.33	109.33	27.33	0.00	637.36	0.172	109.60	0.3	0.2	6.994	A
C-D	16.85	16.85	4.21	0.00			16.85				
C-A	38.69	38.69	9.67	0.00			38.69				

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	6.38	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2015	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	69.00	100.000
B		ONE HOUR	✓	164.00	100.000
C		ONE HOUR	✓	240.00	100.000
D		ONE HOUR	✓	89.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	16.000	39.000	14.000
	B	17.000	0.000	108.000	39.000
	C	76.000	124.000	0.000	40.000
	D	7.000	46.000	36.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.23	0.57	0.20
	B	0.10	0.00	0.66	0.24
	C	0.32	0.52	0.00	0.17
	D	0.08	0.52	0.40	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	1	0
	C	0	1	0	0
	D	0	2	3	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.000	1.000
	B	1.000	1.000	1.008	1.000
	C	1.000	1.008	1.000	1.000
	D	1.000	1.020	1.030	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:15-16:30	A	51.95	51.95
	B	123.47	123.47
	C	180.68	180.68
	D	67.00	67.00
16:30-16:45	A	62.03	62.03
	B	147.43	147.43
	C	215.76	215.76
	D	80.01	80.01
16:45-17:00	A	75.97	75.97
	B	180.57	180.57
	C	264.24	264.24
	D	97.99	97.99
17:00-17:15	A	75.97	75.97
	B	180.57	180.57
	C	264.24	264.24
	D	97.99	97.99
17:15-17:30	A	62.03	62.03
	B	147.43	147.43
	C	215.76	215.76
	D	80.01	80.01
17:30-17:45	A	51.95	51.95
	B	123.47	123.47
	C	180.68	180.68
	D	67.00	67.00

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.33	9.81	0.5	A	150.49	225.73
A-BCD	0.03	6.02	0.0	A	14.01	21.02
A-B					14.34	21.51
A-C					34.96	52.44
D-AB	0.07	7.17	0.1	A	29.24	43.86
D-BC	0.15	10.31	0.2	B	52.43	78.64
C-ABD	0.25	7.17	0.4	A	136.23	204.35
C-D					28.96	43.45
C-A					55.03	82.55

Main Results for each time segment

Main results: (16:15-16:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	123.47	123.47	30.87	0.00	565.98	0.218	122.36	0.0	0.3	8.137	A
A-BCD	11.28	11.28	2.82	0.00	627.91	0.018	11.19	0.0	0.0	5.837	A
A-B	11.83	11.83	2.96	0.00			11.83				
A-C	28.84	28.84	7.21	0.00			28.84				
D-AB	23.65	23.65	5.91	0.00	579.95	0.041	23.47	0.0	0.0	6.568	A
D-BC	43.36	43.36	10.84	0.00	452.13	0.096	42.93	0.0	0.1	9.019	A
C-ABD	107.50	107.50	26.87	0.00	652.68	0.165	106.60	0.0	0.2	6.630	A
C-D	25.24	25.24	6.31	0.00			25.24				
C-A	47.95	47.95	11.99	0.00			47.95				

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	147.43	147.43	36.86	0.00	559.01	0.264	147.12	0.3	0.4	8.772	A
A-BCD	13.67	13.67	3.42	0.00	622.41	0.022	13.65	0.0	0.0	5.913	A
A-B	14.07	14.07	3.52	0.00			14.07				
A-C	34.29	34.29	8.57	0.00			34.29				
D-AB	28.55	28.55	7.14	0.00	565.59	0.050	28.50	0.0	0.1	6.806	A
D-BC	51.46	51.46	12.87	0.00	438.89	0.117	51.35	0.1	0.1	9.531	A
C-ABD	132.45	132.45	33.11	0.00	661.79	0.200	132.19	0.2	0.3	6.843	A
C-D	28.73	28.73	7.18	0.00			28.73				
C-A	54.58	54.58	13.65	0.00			54.58				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	180.57	180.57	45.14	0.00	549.35	0.329	180.05	0.4	0.5	9.785	A
A-BCD	17.09	17.09	4.27	0.00	615.30	0.028	17.05	0.0	0.0	6.017	A
A-B	17.13	17.13	4.28	0.00			17.13				
A-C	41.75	41.75	10.44	0.00			41.75				
D-AB	35.51	35.51	8.88	0.00	545.73	0.065	35.45	0.1	0.1	7.164	A
D-BC	62.48	62.48	15.62	0.00	420.84	0.148	62.31	0.1	0.2	10.301	B
C-ABD	168.60	168.60	42.15	0.00	674.24	0.250	168.19	0.3	0.4	7.163	A
C-D	32.98	32.98	8.25	0.00			32.98				
C-A	62.66	62.66	15.67	0.00			62.66				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	180.57	180.57	45.14	0.00	549.27	0.329	180.55	0.5	0.5	9.814	A
A-BCD	17.09	17.09	4.27	0.00	615.17	0.028	17.09	0.0	0.0	6.019	A
A-B	17.13	17.13	4.28	0.00			17.13				
A-C	41.75	41.75	10.44	0.00			41.75				
D-AB	35.52	35.52	8.88	0.00	545.54	0.065	35.52	0.1	0.1	7.167	A
D-BC	62.47	62.47	15.62	0.00	420.65	0.149	62.47	0.2	0.2	10.314	B
C-ABD	168.67	168.67	42.17	0.00	674.31	0.250	168.66	0.4	0.4	7.173	A
C-D	32.96	32.96	8.24	0.00			32.96				
C-A	62.62	62.62	15.65	0.00			62.62				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	147.43	147.43	36.86	0.00	558.89	0.264	147.93	0.5	0.4	8.816	A
A-BCD	13.67	13.67	3.42	0.00	622.20	0.022	13.70	0.0	0.0	5.916	A
A-B	14.07	14.07	3.52	0.00			14.07				
A-C	34.29	34.29	8.57	0.00			34.29				
D-AB	28.56	28.56	7.14	0.00	565.28	0.051	28.62	0.1	0.1	6.815	A
D-BC	51.45	51.45	12.86	0.00	438.58	0.117	51.61	0.2	0.1	9.551	A
C-ABD	132.54	132.54	33.14	0.00	661.90	0.200	132.94	0.4	0.3	6.861	A
C-D	28.69	28.69	7.17	0.00			28.69				
C-A	54.52	54.52	13.63	0.00			54.52				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	123.47	123.47	30.87	0.00	565.75	0.218	123.79	0.4	0.3	8.194	A
A-BCD	11.29	11.29	2.82	0.00	627.52	0.018	11.31	0.0	0.0	5.841	A
A-B	11.83	11.83	2.96	0.00			11.83				
A-C	28.83	28.83	7.21	0.00			28.83				
D-AB	23.66	23.66	5.92	0.00	579.40	0.041	23.70	0.1	0.0	6.578	A
D-BC	43.34	43.34	10.84	0.00	451.60	0.096	43.45	0.1	0.1	9.055	A
C-ABD	107.65	107.65	26.91	0.00	652.78	0.165	107.91	0.3	0.2	6.657	A
C-D	25.19	25.19	6.30	0.00			25.19				
C-A	47.85	47.85	11.96	0.00			47.85				

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	7.25	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	100.00	100.000
B		ONE HOUR	✓	191.00	100.000
C		ONE HOUR	✓	266.00	100.000
D		ONE HOUR	✓	139.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	17.000	75.000	8.000
	B	22.000	0.000	124.000	45.000
	C	75.000	158.000	0.000	33.000
	D	50.000	49.000	40.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.17	0.75	0.08
	B	0.12	0.00	0.65	0.24
	C	0.28	0.59	0.00	0.12
	D	0.36	0.35	0.29	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	5	0
	B	6	0	0	0
	C	7	2	0	4
	D	20	3	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.050	1.000
	B	1.060	1.000	1.000	1.000
	C	1.070	1.020	1.000	1.040
	D	1.200	1.028	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:00-08:15	A	75.29	75.29
	B	143.79	143.79
	C	200.26	200.26
	D	104.65	104.65
08:15-08:30	A	89.90	89.90
	B	171.71	171.71
	C	239.13	239.13
	D	124.96	124.96
08:30-08:45	A	110.10	110.10
	B	210.29	210.29
	C	292.87	292.87
	D	153.04	153.04
08:45-09:00	A	110.10	110.10
	B	210.29	210.29
	C	292.87	292.87
	D	153.04	153.04
09:00-09:15	A	89.90	89.90
	B	171.71	171.71
	C	239.13	239.13
	D	124.96	124.96
09:15-09:30	A	75.29	75.29
	B	143.79	143.79
	C	200.26	200.26
	D	104.65	104.65

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.40	11.40	0.7	B	175.26	262.90
A-BCD	0.02	5.83	0.0	A	8.49	12.73
A-B					15.39	23.08
A-C					67.89	101.83
D-AB	0.14	7.77	0.2	A	70.47	105.70
D-BC	0.17	10.87	0.2	B	57.08	85.62
C-ABD	0.32	8.24	0.6	A	171.82	257.73
C-D					22.08	33.12
C-A					50.18	75.27

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	143.79	143.79	35.95	0.00	551.65	0.261	142.39	0.0	0.4	8.825	A
A-BCD	6.74	6.74	1.69	0.00	638.99	0.011	6.70	0.0	0.0	5.717	A
A-B	12.67	12.67	3.17	0.00			12.67				
A-C	55.88	55.88	13.97	0.00			55.88				
D-AB	57.38	57.38	14.34	0.00	645.53	0.089	56.94	0.0	0.1	6.936	A
D-BC	47.27	47.27	11.82	0.00	440.49	0.107	46.79	0.0	0.1	9.224	A
C-ABD	135.84	135.84	33.96	0.00	643.88	0.211	134.62	0.0	0.3	7.233	A
C-D	19.68	19.68	4.92	0.00			19.68				
C-A	44.74	44.74	11.18	0.00			44.74				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	171.71	171.71	42.93	0.00	541.87	0.317	171.27	0.4	0.5	9.765	A
A-BCD	8.25	8.25	2.06	0.00	635.79	0.013	8.24	0.0	0.0	5.762	A
A-B	15.09	15.09	3.77	0.00			15.09				
A-C	66.56	66.56	16.64	0.00			66.56				
D-AB	68.91	68.91	17.23	0.00	631.11	0.109	68.79	0.1	0.1	7.260	A
D-BC	56.05	56.05	14.01	0.00	424.53	0.132	55.92	0.1	0.2	9.860	A
C-ABD	167.08	167.08	41.77	0.00	651.33	0.257	166.71	0.3	0.4	7.615	A
C-D	22.01	22.01	5.50	0.00			22.01				
C-A	50.03	50.03	12.51	0.00			50.03				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	210.29	210.29	52.57	0.00	528.22	0.398	209.52	0.5	0.7	11.341	B
A-BCD	10.46	10.46	2.62	0.00	632.07	0.017	10.44	0.0	0.0	5.823	A
A-B	18.41	18.41	4.60	0.00			18.41				
A-C	81.23	81.23	20.31	0.00			81.23				
D-AB	85.10	85.10	21.28	0.00	610.33	0.139	84.92	0.1	0.2	7.764	A
D-BC	67.94	67.94	16.99	0.00	402.53	0.169	67.74	0.2	0.2	10.851	B
C-ABD	212.33	212.33	53.08	0.00	661.52	0.321	211.71	0.4	0.6	8.213	A
C-D	24.61	24.61	6.15	0.00			24.61				
C-A	55.93	55.93	13.98	0.00			55.93				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	210.29	210.29	52.57	0.00	528.10	0.398	210.27	0.7	0.7	11.399	B
A-BCD	10.46	10.46	2.62	0.00	631.88	0.017	10.46	0.0	0.0	5.828	A
A-B	18.41	18.41	4.60	0.00			18.41				
A-C	81.23	81.23	20.31	0.00			81.23				
D-AB	85.11	85.11	21.28	0.00	610.07	0.140	85.11	0.2	0.2	7.769	A
D-BC	67.93	67.93	16.98	0.00	402.25	0.169	67.92	0.2	0.2	10.871	B
C-ABD	212.43	212.43	53.11	0.00	661.62	0.321	212.41	0.6	0.6	8.242	A
C-D	24.58	24.58	6.14	0.00			24.58				
C-A	55.86	55.86	13.97	0.00			55.86				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	171.71	171.71	42.93	0.00	541.68	0.317	172.44	0.7	0.5	9.833	A
A-BCD	8.26	8.26	2.06	0.00	635.47	0.013	8.28	0.0	0.0	5.774	A
A-B	15.09	15.09	3.77	0.00			15.09				
A-C	66.55	66.55	16.64	0.00			66.55				
D-AB	68.92	68.92	17.23	0.00	630.71	0.109	69.09	0.2	0.1	7.266	A
D-BC	56.04	56.04	14.01	0.00	424.08	0.132	56.23	0.2	0.2	9.888	A
C-ABD	167.22	167.22	41.81	0.00	651.49	0.257	167.81	0.6	0.4	7.660	A
C-D	21.97	21.97	5.49	0.00			21.97				
C-A	49.94	49.94	12.48	0.00			49.94				

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	143.79	143.79	35.95	0.00	551.32	0.261	144.25	0.5	0.4	8.913	A
A-BCD	6.75	6.75	1.69	0.00	638.46	0.011	6.76	0.0	0.0	5.725	A
A-B	12.66	12.66	3.17	0.00			12.66				
A-C	55.87	55.87	13.97	0.00			55.87				
D-AB	57.40	57.40	14.35	0.00	644.92	0.089	57.51	0.1	0.1	6.954	A
D-BC	47.25	47.25	11.81	0.00	439.78	0.107	47.38	0.2	0.1	9.267	A
C-ABD	136.04	136.04	34.01	0.00	644.03	0.211	136.42	0.4	0.3	7.285	A
C-D	19.62	19.62	4.91	0.00			19.62				
C-A	44.60	44.60	11.15	0.00			44.60				

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	7.24	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85.00	100.000
B		ONE HOUR	✓	202.00	100.000
C		ONE HOUR	✓	294.00	100.000
D		ONE HOUR	✓	109.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	20.000	48.000	17.000
	B	21.000	0.000	133.000	48.000
	C	93.000	152.000	0.000	49.000
	D	9.000	56.000	44.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.24	0.56	0.20
	B	0.10	0.00	0.66	0.24
	C	0.32	0.52	0.00	0.17
	D	0.08	0.51	0.40	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	1	0
	C	0	1	0	0
	D	0	2	3	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.000	1.000
	B	1.000	1.000	1.008	1.000
	C	1.000	1.008	1.000	1.000
	D	1.000	1.020	1.030	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:15-16:30	A	63.99	63.99
	B	152.08	152.08
	C	221.34	221.34
	D	82.06	82.06
16:30-16:45	A	76.41	76.41
	B	181.59	181.59
	C	264.30	264.30
	D	97.99	97.99
16:45-17:00	A	93.59	93.59
	B	222.41	222.41
	C	323.70	323.70
	D	120.01	120.01
17:00-17:15	A	93.59	93.59
	B	222.41	222.41
	C	323.70	323.70
	D	120.01	120.01
17:15-17:30	A	76.41	76.41
	B	181.59	181.59
	C	264.30	264.30
	D	97.99	97.99
17:30-17:45	A	63.99	63.99
	B	152.08	152.08
	C	221.34	221.34
	D	82.06	82.06

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.41	11.51	0.7	B	185.36	278.04
A-BCD	0.04	6.15	0.0	A	17.41	26.12
A-B					17.82	26.73
A-C					42.77	64.15
D-AB	0.09	7.66	0.1	A	36.64	54.96
D-BC	0.19	11.46	0.2	B	63.38	95.07
C-ABD	0.31	7.67	0.6	A	174.03	261.04
C-D					33.04	49.56
C-A					62.71	94.07

Main Results for each time segment

Main results: (16:15-16:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	152.08	152.08	38.02	0.00	558.00	0.273	150.59	0.0	0.4	8.852	A
A-BCD	13.93	13.93	3.48	0.00	622.20	0.022	13.83	0.0	0.0	5.917	A
A-B	14.72	14.72	3.68	0.00			14.72				
A-C	35.34	35.34	8.83	0.00			35.34				
D-AB	29.49	29.49	7.37	0.00	565.28	0.052	29.27	0.0	0.1	6.815	A
D-BC	52.57	52.57	13.14	0.00	437.09	0.120	52.01	0.0	0.1	9.581	A
C-ABD	136.40	136.40	34.10	0.00	663.04	0.206	135.20	0.0	0.3	6.856	A
C-D	29.31	29.31	7.33	0.00			29.31				
C-A	55.63	55.63	13.91	0.00			55.63				

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	181.59	181.59	45.40	0.00	549.21	0.331	181.12	0.4	0.5	9.818	A
A-BCD	16.96	16.96	4.24	0.00	615.65	0.028	16.93	0.0	0.0	6.012	A
A-B	17.49	17.49	4.37	0.00			17.49				
A-C	41.97	41.97	10.49	0.00			41.97				
D-AB	35.73	35.73	8.93	0.00	547.22	0.065	35.67	0.1	0.1	7.145	A
D-BC	62.26	62.26	15.57	0.00	420.61	0.148	62.11	0.1	0.2	10.301	B
C-ABD	168.74	168.74	42.19	0.00	674.12	0.250	168.37	0.3	0.4	7.166	A
C-D	32.97	32.97	8.24	0.00			32.97				
C-A	62.58	62.58	15.65	0.00			62.58				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	222.41	222.41	55.60	0.00	536.95	0.414	221.58	0.5	0.7	11.444	B
A-BCD	21.33	21.33	5.33	0.00	607.25	0.035	21.28	0.0	0.0	6.143	A
A-B	21.25	21.25	5.31	0.00			21.25				
A-C	51.01	51.01	12.75	0.00			51.01				
D-AB	44.67	44.67	11.17	0.00	521.93	0.086	44.58	0.1	0.1	7.655	A
D-BC	75.34	75.34	18.83	0.00	398.07	0.189	75.10	0.2	0.2	11.432	B
C-ABD	216.66	216.66	54.17	0.00	689.48	0.314	216.04	0.4	0.5	7.655	A
C-D	36.93	36.93	9.23	0.00			36.93				
C-A	70.10	70.10	17.53	0.00			70.10				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	222.41	222.41	55.60	0.00	536.83	0.414	222.38	0.7	0.7	11.506	B
A-BCD	21.33	21.33	5.33	0.00	607.06	0.035	21.33	0.0	0.0	6.148	A
A-B	21.25	21.25	5.31	0.00			21.25				
A-C	51.00	51.00	12.75	0.00			51.00				
D-AB	44.69	44.69	11.17	0.00	521.62	0.086	44.69	0.1	0.1	7.664	A
D-BC	75.32	75.32	18.83	0.00	397.78	0.189	75.31	0.2	0.2	11.458	B
C-ABD	216.79	216.79	54.20	0.00	689.60	0.314	216.78	0.5	0.6	7.671	A
C-D	36.89	36.89	9.22	0.00			36.89				
C-A	70.02	70.02	17.50	0.00			70.02				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	181.59	181.59	45.40	0.00	549.03	0.331	182.39	0.7	0.5	9.893	A
A-BCD	16.96	16.96	4.24	0.00	615.34	0.028	17.01	0.0	0.0	6.019	A
A-B	17.48	17.48	4.37	0.00			17.48				
A-C	41.96	41.96	10.49	0.00			41.96				
D-AB	35.75	35.75	8.94	0.00	546.74	0.065	35.84	0.1	0.1	7.158	A
D-BC	62.24	62.24	15.56	0.00	420.15	0.148	62.47	0.2	0.2	10.338	B
C-ABD	168.91	168.91	42.23	0.00	674.31	0.251	169.51	0.6	0.4	7.193	A
C-D	32.92	32.92	8.23	0.00			32.92				
C-A	62.47	62.47	15.62	0.00			62.47				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	152.08	152.08	38.02	0.00	557.69	0.273	152.57	0.5	0.4	8.943	A
A-BCD	13.95	13.95	3.49	0.00	621.68	0.022	13.98	0.0	0.0	5.926	A
A-B	14.72	14.72	3.68	0.00			14.72				
A-C	35.33	35.33	8.83	0.00			35.33				
D-AB	29.52	29.52	7.38	0.00	564.52	0.052	29.58	0.1	0.1	6.833	A
D-BC	52.54	52.54	13.13	0.00	436.36	0.120	52.69	0.2	0.1	9.635	A
C-ABD	136.65	136.65	34.16	0.00	663.21	0.206	137.04	0.4	0.3	6.895	A
C-D	29.22	29.22	7.31	0.00			29.22				
C-A	55.46	55.46	13.87	0.00			55.46				

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	12.59	B

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	121.00	100.000
B		ONE HOUR	✓	311.00	100.000
C		ONE HOUR	✓	321.00	100.000
D		ONE HOUR	✓	131.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	29.000	82.000	10.000
	B	54.000	0.000	169.000	88.000
	C	88.000	183.000	0.000	50.000
	D	19.000	68.000	44.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.24	0.68	0.08
	B	0.17	0.00	0.54	0.28
	C	0.27	0.57	0.00	0.16
	D	0.15	0.52	0.34	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	5	0
	B	6	0	0	0
	C	7	2	0	4
	D	20	3	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.050	1.000
	B	1.060	1.000	1.000	1.000
	C	1.070	1.020	1.000	1.040
	D	1.200	1.028	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:00-08:15	A	91.10	91.10
	B	234.14	234.14
	C	241.67	241.67
	D	98.62	98.62
08:15-08:30	A	108.78	108.78
	B	279.58	279.58
	C	288.57	288.57
	D	117.77	117.77
08:30-08:45	A	133.22	133.22
	B	342.42	342.42
	C	353.43	353.43
	D	144.23	144.23
08:45-09:00	A	133.22	133.22
	B	342.42	342.42
	C	353.43	353.43
	D	144.23	144.23
09:00-09:15	A	108.78	108.78
	B	279.58	279.58
	C	288.57	288.57
	D	117.77	117.77
09:15-09:30	A	91.10	91.10
	B	234.14	234.14
	C	241.67	241.67
	D	98.62	98.62

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.70	24.54	2.3	C	285.38	428.07
A-BCD	0.02	5.89	0.0	A	10.97	16.46
A-B					26.14	39.21
A-C					73.92	110.88
D-AB	0.12	8.46	0.1	A	52.18	78.27
D-BC	0.22	12.52	0.3	B	68.03	102.04
C-ABD	0.38	8.86	0.8	A	208.82	313.23
C-D					31.06	46.59
C-A					54.67	82.01

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	234.14	234.14	58.53	0.00	520.74	0.450	230.92	0.0	0.8	12.414	B
A-BCD	8.65	8.65	2.16	0.00	636.60	0.014	8.58	0.0	0.0	5.758	A
A-B	21.54	21.54	5.39	0.00			21.54				
A-C	60.91	60.91	15.23	0.00			60.91				
D-AB	42.01	42.01	10.50	0.00	573.11	0.073	41.67	0.0	0.1	7.316	A
D-BC	56.62	56.62	14.15	0.00	420.76	0.135	56.00	0.0	0.2	9.965	A
C-ABD	163.68	163.68	40.92	0.00	655.53	0.250	162.14	0.0	0.4	7.470	A
C-D	28.25	28.25	7.06	0.00			28.25				
C-A	49.73	49.73	12.43	0.00			49.73				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	279.58	279.58	69.90	0.00	507.70	0.551	278.02	0.8	1.2	15.716	C
A-BCD	10.65	10.65	2.66	0.00	633.05	0.017	10.63	0.0	0.0	5.812	A
A-B	25.64	25.64	6.41	0.00			25.64				
A-C	72.49	72.49	18.12	0.00			72.49				
D-AB	50.86	50.86	12.72	0.00	552.58	0.092	50.77	0.1	0.1	7.750	A
D-BC	66.90	66.90	16.73	0.00	400.31	0.167	66.73	0.2	0.2	10.908	B
C-ABD	202.46	202.46	50.62	0.00	665.28	0.304	201.95	0.4	0.5	7.975	A
C-D	31.20	31.20	7.80	0.00			31.20				
C-A	54.91	54.91	13.73	0.00			54.91				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	342.42	342.42	85.60	0.00	489.56	0.699	338.50	1.2	2.2	23.454	C
A-BCD	13.61	13.61	3.40	0.00	629.08	0.022	13.58	0.0	0.0	5.884	A
A-B	31.25	31.25	7.81	0.00			31.25				
A-C	88.36	88.36	22.09	0.00			88.36				
D-AB	63.61	63.61	15.90	0.00	523.11	0.122	63.45	0.1	0.1	8.451	A
D-BC	80.62	80.62	20.16	0.00	372.05	0.217	80.32	0.2	0.3	12.465	B
C-ABD	259.93	259.93	64.98	0.00	678.79	0.383	259.02	0.5	0.7	8.811	A
C-D	33.87	33.87	8.47	0.00			33.87				
C-A	59.62	59.62	14.90	0.00			59.62				

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	342.42	342.42	85.60	0.00	489.34	0.700	342.09	2.2	2.3	24.541	C
A-BCD	13.61	13.61	3.40	0.00	628.80	0.022	13.61	0.0	0.0	5.893	A
A-B	31.25	31.25	7.81	0.00			31.25				
A-C	88.36	88.36	22.09	0.00			88.36				
D-AB	63.65	63.65	15.91	0.00	522.61	0.122	63.64	0.1	0.1	8.461	A
D-BC	80.59	80.59	20.15	0.00	371.22	0.217	80.58	0.3	0.3	12.522	B
C-ABD	260.13	260.13	65.03	0.00	678.97	0.383	260.09	0.7	0.8	8.858	A
C-D	33.81	33.81	8.45	0.00			33.81				
C-A	59.50	59.50	14.87	0.00			59.50				

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	279.58	279.58	69.90	0.00	507.38	0.551	283.46	2.3	1.3	16.504	C
A-BCD	10.65	10.65	2.66	0.00	632.61	0.017	10.68	0.0	0.0	5.826	A
A-B	25.64	25.64	6.41	0.00			25.64				
A-C	72.49	72.49	18.12	0.00			72.49				
D-AB	50.90	50.90	12.72	0.00	551.88	0.092	51.05	0.1	0.1	7.760	A
D-BC	66.87	66.87	16.72	0.00	399.10	0.168	67.15	0.3	0.2	10.976	B
C-ABD	202.71	202.71	50.68	0.00	665.56	0.305	203.58	0.8	0.5	8.038	A
C-D	31.11	31.11	7.78	0.00			31.11				
C-A	54.75	54.75	13.69	0.00			54.75				

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	234.14	234.14	58.53	0.00	520.23	0.450	235.89	1.3	0.8	12.864	B
A-BCD	8.66	8.66	2.16	0.00	635.91	0.014	8.67	0.0	0.0	5.768	A
A-B	21.54	21.54	5.38	0.00			21.54				
A-C	60.90	60.90	15.23	0.00			60.90				
D-AB	42.05	42.05	10.51	0.00	572.14	0.073	42.14	0.1	0.1	7.340	A
D-BC	56.58	56.58	14.14	0.00	419.50	0.135	56.76	0.2	0.2	10.043	B
C-ABD	164.02	164.02	41.00	0.00	655.78	0.250	164.56	0.5	0.4	7.541	A
C-D	28.13	28.13	7.03	0.00			28.13				
C-A	49.52	49.52	12.38	0.00			49.52				

J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J4 Faversham Road/Old Ashford Road/High Street/Maidstone Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	9.98	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	124.00	100.000
B		ONE HOUR	✓	270.00	100.000
C		ONE HOUR	✓	355.00	100.000
D		ONE HOUR	✓	161.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	46.000	59.000	19.000
	B	37.000	0.000	162.000	71.000
	C	102.000	192.000	0.000	61.000
	D	10.000	93.000	58.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.37	0.48	0.15
	B	0.14	0.00	0.60	0.26
	C	0.29	0.54	0.00	0.17
	D	0.06	0.58	0.36	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	1	0
	C	0	1	0	0
	D	0	2	3	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.000	1.000
	B	1.000	1.000	1.008	1.000
	C	1.000	1.008	1.000	1.000
	D	1.000	1.020	1.030	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:15-16:30	A	93.35	93.35
	B	203.27	203.27
	C	267.26	267.26
	D	121.21	121.21
16:30-16:45	A	111.47	111.47
	B	242.72	242.72
	C	319.14	319.14
	D	144.74	144.74
16:45-17:00	A	136.53	136.53
	B	297.28	297.28
	C	390.86	390.86
	D	177.26	177.26
17:00-17:15	A	136.53	136.53
	B	297.28	297.28
	C	390.86	390.86
	D	177.26	177.26
17:15-17:30	A	111.47	111.47
	B	242.72	242.72
	C	319.14	319.14
	D	144.74	144.74
17:30-17:45	A	93.35	93.35
	B	203.27	203.27
	C	267.26	267.26
	D	121.21	121.21

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.59	17.75	1.4	C	247.76	371.64
A-BCD	0.04	6.12	0.1	A	20.71	31.07
A-B					40.77	61.16
A-C					52.30	78.45
D-AB	0.15	9.24	0.2	A	58.21	87.32
D-BC	0.29	14.04	0.4	B	89.53	134.29
C-ABD	0.41	8.84	0.8	A	227.71	341.56
C-D					36.69	55.04
C-A					61.35	92.03

Main Results for each time segment

Main results: (16:15-16:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	203.27	203.27	50.82	0.00	531.58	0.382	200.83	0.0	0.6	10.860	B
A-BCD	16.33	16.33	4.08	0.00	626.65	0.026	16.20	0.0	0.0	5.897	A
A-B	33.74	33.74	8.44	0.00			33.74				
A-C	43.28	43.28	10.82	0.00			43.28				
D-AB	46.32	46.32	11.58	0.00	529.67	0.087	45.93	0.0	0.1	7.555	A
D-BC	74.89	74.89	18.72	0.00	419.03	0.179	74.01	0.0	0.2	10.677	B
C-ABD	177.07	177.07	44.27	0.00	667.10	0.265	175.38	0.0	0.4	7.353	A
C-D	33.75	33.75	8.44	0.00			33.75				
C-A	56.44	56.44	14.11	0.00			56.44				

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	242.72	242.72	60.68	0.00	518.80	0.468	241.72	0.6	0.9	13.004	B
A-BCD	20.10	20.10	5.02	0.00	621.18	0.032	20.06	0.0	0.0	5.988	A
A-B	40.03	40.03	10.01	0.00			40.03				
A-C	51.34	51.34	12.84	0.00			51.34				
D-AB	56.57	56.57	14.14	0.00	504.66	0.112	56.45	0.1	0.1	8.165	A
D-BC	88.17	88.17	22.04	0.00	398.19	0.221	87.90	0.2	0.3	11.890	B
C-ABD	220.35	220.35	55.09	0.00	679.17	0.324	219.77	0.4	0.6	7.888	A
C-D	36.97	36.97	9.24	0.00			36.97				
C-A	61.82	61.82	15.45	0.00			61.82				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	297.28	297.28	74.32	0.00	500.88	0.594	295.10	0.9	1.4	17.389	C
A-BCD	25.68	25.68	6.42	0.00	614.60	0.042	25.61	0.0	0.1	6.112	A
A-B	48.56	48.56	12.14	0.00			48.56				
A-C	62.29	62.29	15.57	0.00			62.29				
D-AB	71.64	71.64	17.91	0.00	468.60	0.153	71.42	0.1	0.2	9.212	A
D-BC	105.62	105.62	26.41	0.00	369.12	0.286	105.16	0.3	0.4	13.966	B
C-ABD	285.20	285.20	71.30	0.00	695.92	0.410	284.13	0.6	0.8	8.798	A
C-D	39.54	39.54	9.89	0.00			39.54				
C-A	66.12	66.12	16.53	0.00			66.12				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	297.28	297.28	74.32	0.00	500.64	0.594	297.15	1.4	1.4	17.746	C
A-BCD	25.69	25.69	6.42	0.00	614.28	0.042	25.69	0.1	0.1	6.116	A
A-B	48.56	48.56	12.14	0.00			48.56				
A-C	62.28	62.28	15.57	0.00			62.28				
D-AB	71.70	71.70	17.93	0.00	467.94	0.153	71.70	0.2	0.2	9.238	A
D-BC	105.56	105.56	26.39	0.00	368.48	0.286	105.54	0.4	0.4	14.045	B
C-ABD	285.46	285.46	71.36	0.00	696.15	0.410	285.42	0.8	0.8	8.839	A
C-D	39.45	39.45	9.86	0.00			39.45				
C-A	65.96	65.96	16.49	0.00			65.96				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	242.72	242.72	60.68	0.00	518.44	0.468	244.83	1.4	0.9	13.322	B
A-BCD	20.12	20.12	5.03	0.00	620.68	0.032	20.18	0.1	0.0	5.998	A
A-B	40.02	40.02	10.01	0.00			40.02				
A-C	51.33	51.33	12.83	0.00			51.33				
D-AB	56.64	56.64	14.16	0.00	503.73	0.112	56.85	0.2	0.1	8.195	A
D-BC	88.10	88.10	22.02	0.00	397.25	0.222	88.54	0.4	0.3	11.983	B
C-ABD	220.68	220.68	55.17	0.00	679.52	0.325	221.71	0.8	0.6	7.941	A
C-D	36.85	36.85	9.21	0.00			36.85				
C-A	61.61	61.61	15.40	0.00			61.61				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	203.27	203.27	50.82	0.00	531.05	0.383	204.36	0.9	0.6	11.111	B
A-BCD	16.36	16.36	4.09	0.00	625.91	0.026	16.40	0.0	0.0	5.906	A
A-B	33.73	33.73	8.43	0.00			33.73				
A-C	43.26	43.26	10.82	0.00			43.26				
D-AB	46.39	46.39	11.60	0.00	528.42	0.088	46.52	0.1	0.1	7.596	A
D-BC	74.81	74.81	18.70	0.00	417.89	0.179	75.10	0.3	0.2	10.781	B
C-ABD	177.49	177.49	44.37	0.00	667.39	0.266	178.11	0.6	0.4	7.420	A
C-D	33.59	33.59	8.40	0.00			33.59				
C-A	56.17	56.17	14.04	0.00			56.17				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

Filename: J5 Ashford Road Old Ashford Road.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J5 Ashford Road Old Ashford Road
Report generation date: 17/07/2015 14:37:07

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J5 Ashford Road / Old Ashford Road - Base 2015							
Stream B-AC	0.4	13.97	0.26	B	0.6	14.28	0.37	B
Stream C-AB	0.0	4.69	0.01	A	0.0	4.23	0.01	A
Stream C-A								
Stream A-B								
Stream A-C								
	J5 Ashford Road / Old Ashford Road - Base 2031							
Stream B-AC	0.7	21.94	0.41	C	1.2	23.52	0.55	C
Stream C-AB	0.0	4.56	0.01	A	0.0	4.05	0.01	A
Stream C-A								
Stream A-B								
Stream A-C								
	J5 Ashford Road / Old Ashford Road - Base 2031 + Dev							
Stream B-AC	1.3	31.66	0.57	D	1.7	28.94	0.63	D
Stream C-AB	0.0	4.55	0.01	A	0.0	4.06	0.01	A
Stream C-A								
Stream A-B								
Stream A-C								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

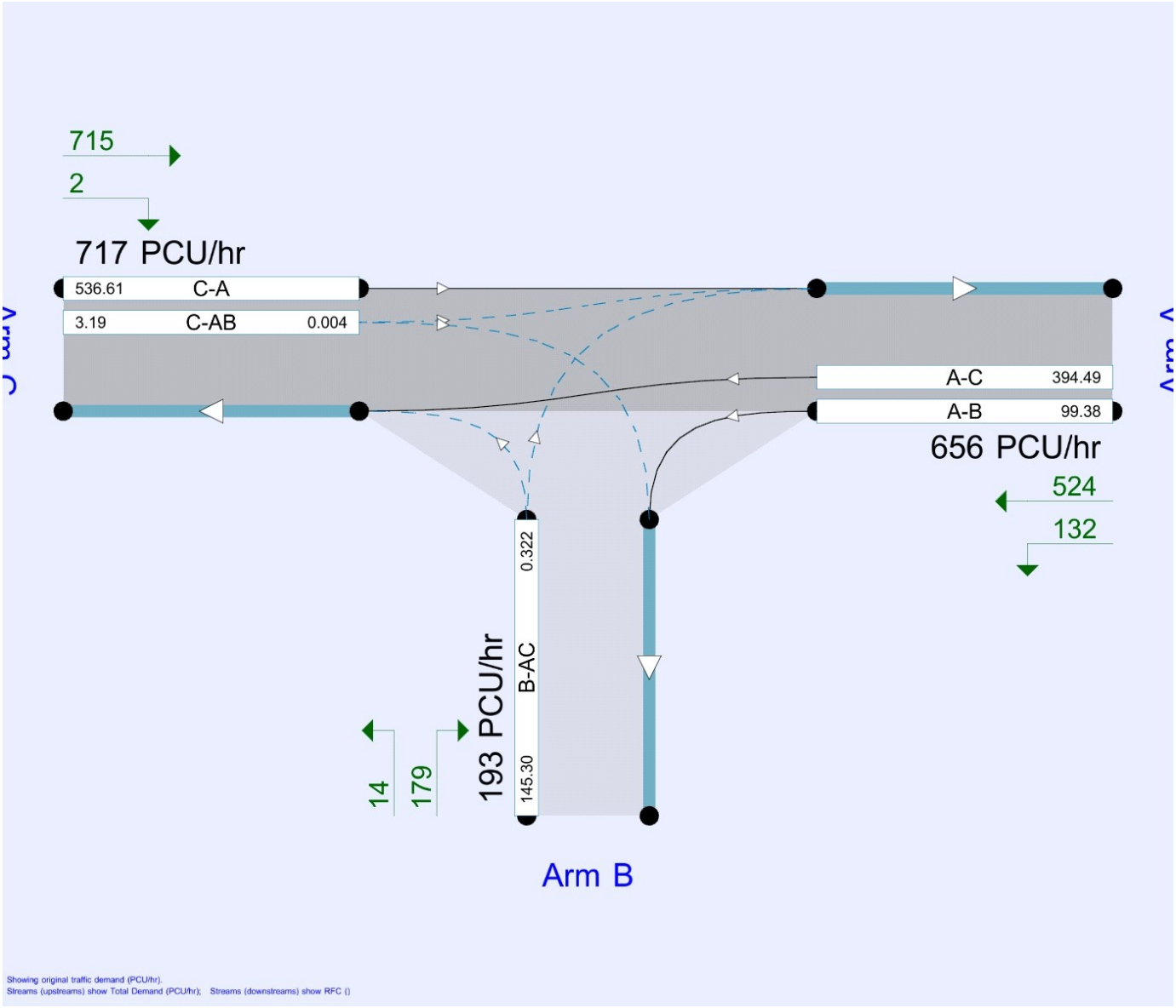
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	07:15	08:45	15	✓
Base 2015	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031	AM	ONE HOUR	07:15	08:45	15	✓
Base 2031	PM	ONE HOUR	16:30	18:00	15	✓
Base 2031 + Dev	AM	ONE HOUR	07:15	08:45	15	✓
Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

J5 Ashford Road/Old Ashford Road - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Ashford Road E		Major
B	Old Ashford Road S		Minor
C	Ashford Road W		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00			190.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.34	145	150

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	683.637	0.125	0.315	0.198	0.450
1	B-C	814.740	0.125	0.316	-	-
1	C-B	683.994	0.265	0.265	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	755.00	100.000
B		ONE HOUR	✓	85.00	100.000
C		ONE HOUR	✓	507.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	123.000	632.000
	B	73.000	0.000	12.000
	C	505.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.16	0.84
	B	0.86	0.00	0.14
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	3	7
	B	3	0	0
	C	6	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.030	1.070
	B	1.030	1.000	1.000
	C	1.060	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	568.40	568.40
	B	63.99	63.99
	C	381.70	381.70
07:30-07:45	A	678.73	678.73
	B	76.41	76.41
	C	455.78	455.78
07:45-08:00	A	831.27	831.27
	B	93.59	93.59
	C	558.22	558.22
08:00-08:15	A	831.27	831.27
	B	93.59	93.59
	C	558.22	558.22
08:15-08:30	A	678.73	678.73
	B	76.41	76.41
	C	455.78	455.78
08:30-08:45	A	568.40	568.40
	B	63.99	63.99
	C	381.70	381.70

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.26	13.97	0.4	B	78.00	117.00
C-AB	0.01	4.69	0.0	A	3.88	5.82
C-A					461.35	692.02
A-B					112.87	169.30
A-C					579.93	869.90

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	63.99	63.99	16.00	0.00	467.27	0.137	63.35	0.0	0.2	9.126	A
C-AB	2.71	2.71	0.68	0.00	791.39	0.003	2.69	0.0	0.0	4.681	A
C-A	378.99	378.99	94.75	0.00			378.99				
A-B	92.60	92.60	23.15	0.00			92.60				
A-C	475.80	475.80	118.95	0.00			475.80				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76.41	76.41	19.10	0.00	421.53	0.181	76.16	0.2	0.2	10.683	B
C-AB	3.65	3.65	0.91	0.00	815.16	0.004	3.64	0.0	0.0	4.559	A
C-A	452.13	452.13	113.03	0.00			452.13				
A-B	110.57	110.57	27.64	0.00			110.57				
A-C	568.16	568.16	142.04	0.00			568.16				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	93.59	93.59	23.40	0.00	357.78	0.262	93.06	0.2	0.4	13.920	B
C-AB	5.29	5.29	1.32	0.00	848.44	0.006	5.28	0.0	0.0	4.407	A
C-A	552.93	552.93	138.23	0.00			552.93				
A-B	135.43	135.43	33.86	0.00			135.43				
A-C	695.84	695.84	173.96	0.00			695.84				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	93.59	93.59	23.40	0.00	357.78	0.262	93.57	0.4	0.4	13.972	B
C-AB	5.29	5.29	1.32	0.00	848.44	0.006	5.29	0.0	0.0	4.416	A
C-A	552.93	552.93	138.23	0.00			552.93				
A-B	135.43	135.43	33.86	0.00			135.43				
A-C	695.84	695.84	173.96	0.00			695.84				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76.41	76.41	19.10	0.00	421.53	0.181	76.93	0.4	0.2	10.730	B
C-AB	3.65	3.65	0.91	0.00	815.17	0.004	3.66	0.0	0.0	4.580	A
C-A	452.13	452.13	113.03	0.00			452.13				
A-B	110.57	110.57	27.64	0.00			110.57				
A-C	568.16	568.16	142.04	0.00			568.16				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	63.99	63.99	16.00	0.00	467.27	0.137	64.25	0.2	0.2	9.169	A
C-AB	2.71	2.71	0.68	0.00	791.40	0.003	2.72	0.0	0.0	4.692	A
C-A	378.98	378.98	94.75	0.00			378.98				
A-B	92.60	92.60	23.15	0.00			92.60				
A-C	475.80	475.80	118.95	0.00			475.80				

J5 Ashford Road/Old Ashford Road - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.64	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D2	Base 2015	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	512.00	100.000
B		ONE HOUR	✓	140.00	100.000
C		ONE HOUR	✓	580.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	92.000	420.000
	B	129.000	0.000	11.000
	C	578.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.18	0.82
	B	0.92	0.00	0.08
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	4
	B	2	0	0
	C	2	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.040
	B	1.022	1.000	1.000
	C	1.022	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	385.46	385.46
	B	105.40	105.40
	C	436.65	436.65
16:45-17:00	A	460.28	460.28
	B	125.86	125.86
	C	521.41	521.41
17:00-17:15	A	563.72	563.72
	B	154.14	154.14
	C	638.59	638.59
17:15-17:30	A	563.72	563.72
	B	154.14	154.14
	C	638.59	638.59
17:30-17:45	A	460.28	460.28
	B	125.86	125.86
	C	521.41	521.41
17:45-18:00	A	385.46	385.46
	B	105.40	105.40
	C	436.65	436.65

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.37	14.28	0.6	B	128.47	192.70
C-AB	0.01	4.23	0.0	A	3.92	5.88
C-A					528.30	792.45
A-B					84.42	126.63
A-C					385.40	578.10

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	105.40	105.40	26.35	0.00	500.78	0.210	104.33	0.0	0.3	9.239	A
C-AB	2.77	2.77	0.69	0.00	863.09	0.003	2.76	0.0	0.0	4.225	A
C-A	433.88	433.88	108.47	0.00			433.88				
A-B	69.26	69.26	17.32	0.00			69.26				
A-C	316.20	316.20	79.05	0.00			316.20				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	125.86	125.86	31.46	0.00	463.26	0.272	125.43	0.3	0.4	10.857	B
C-AB	3.71	3.71	0.93	0.00	897.68	0.004	3.70	0.0	0.0	4.069	A
C-A	517.70	517.70	129.42	0.00			517.70				
A-B	82.71	82.71	20.68	0.00			82.71				
A-C	377.57	377.57	94.39	0.00			377.57				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	154.14	154.14	38.54	0.00	411.17	0.375	153.25	0.4	0.6	14.191	B
C-AB	5.28	5.28	1.32	0.00	944.16	0.006	5.27	0.0	0.0	3.880	A
C-A	633.32	633.32	158.33	0.00			633.32				
A-B	101.29	101.29	25.32	0.00			101.29				
A-C	462.43	462.43	115.61	0.00			462.43				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	154.14	154.14	38.54	0.00	411.17	0.375	154.11	0.6	0.6	14.283	B
C-AB	5.28	5.28	1.32	0.00	944.17	0.006	5.28	0.0	0.0	3.882	A
C-A	633.31	633.31	158.33	0.00			633.31				
A-B	101.29	101.29	25.32	0.00			101.29				
A-C	462.43	462.43	115.61	0.00			462.43				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	125.86	125.86	31.46	0.00	463.26	0.272	126.73	0.6	0.4	10.943	B
C-AB	3.71	3.71	0.93	0.00	897.69	0.004	3.72	0.0	0.0	4.077	A
C-A	517.70	517.70	129.42	0.00			517.70				
A-B	82.71	82.71	20.68	0.00			82.71				
A-C	377.57	377.57	94.39	0.00			377.57				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	105.40	105.40	26.35	0.00	500.78	0.210	105.84	0.4	0.3	9.310	A
C-AB	2.78	2.78	0.70	0.00	863.10	0.003	2.78	0.0	0.0	4.230	A
C-A	433.87	433.87	108.47	0.00			433.87				
A-B	69.26	69.26	17.32	0.00			69.26				
A-C	316.20	316.20	79.05	0.00			316.20				

J5 Ashford Road/Old Ashford Road - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.41	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	918.00	100.000
B		ONE HOUR	✓	104.00	100.000
C		ONE HOUR	✓	616.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	150.000	768.000
	B	89.000	0.000	15.000
	C	614.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.16	0.84
	B	0.86	0.00	0.14
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	3	7
	B	3	0	0
	C	6	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.030	1.070
	B	1.030	1.000	1.000
	C	1.060	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	691.12	691.12
	B	78.30	78.30
	C	463.76	463.76
07:30-07:45	A	825.26	825.26
	B	93.49	93.49
	C	553.77	553.77
07:45-08:00	A	1010.74	1010.74
	B	114.51	114.51
	C	678.23	678.23
08:00-08:15	A	1010.74	1010.74
	B	114.51	114.51
	C	678.23	678.23
08:15-08:30	A	825.26	825.26
	B	93.49	93.49
	C	553.77	553.77
08:30-08:45	A	691.12	691.12
	B	78.30	78.30
	C	463.76	463.76

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.41	21.94	0.7	C	95.43	143.15
C-AB	0.01	4.56	0.0	A	4.62	6.93
C-A					560.63	840.95
A-B					137.64	206.46
A-C					704.73	1057.10

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	78.30	78.30	19.57	0.00	417.08	0.188	77.36	0.0	0.2	10.839	B
C-AB	3.09	3.09	0.77	0.00	817.84	0.004	3.07	0.0	0.0	4.550	A
C-A	460.67	460.67	115.17	0.00			460.67				
A-B	112.93	112.93	28.23	0.00			112.93				
A-C	578.19	578.19	144.55	0.00			578.19				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	93.49	93.49	23.37	0.00	361.05	0.259	93.02	0.2	0.4	13.749	B
C-AB	4.29	4.29	1.07	0.00	847.11	0.005	4.28	0.0	0.0	4.408	A
C-A	549.48	549.48	137.37	0.00			549.48				
A-B	134.85	134.85	33.71	0.00			134.85				
A-C	690.42	690.42	172.60	0.00			690.42				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114.51	114.51	28.63	0.00	282.59	0.405	113.22	0.4	0.7	21.634	C
C-AB	6.48	6.48	1.62	0.00	887.54	0.007	6.47	0.0	0.0	4.236	A
C-A	671.75	671.75	167.94	0.00			671.75				
A-B	165.15	165.15	41.29	0.00			165.15				
A-C	845.58	845.58	211.40	0.00			845.58				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114.51	114.51	28.63	0.00	282.59	0.405	114.46	0.7	0.7	21.941	C
C-AB	6.48	6.48	1.62	0.00	887.55	0.007	6.48	0.0	0.0	4.245	A
C-A	671.75	671.75	167.94	0.00			671.75				
A-B	165.15	165.15	41.29	0.00			165.15				
A-C	845.58	845.58	211.40	0.00			845.58				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	93.49	93.49	23.37	0.00	361.04	0.259	94.77	0.7	0.4	13.929	B
C-AB	4.29	4.29	1.07	0.00	847.11	0.005	4.30	0.0	0.0	4.428	A
C-A	549.48	549.48	137.37	0.00			549.48				
A-B	134.85	134.85	33.71	0.00			134.85				
A-C	690.42	690.42	172.60	0.00			690.42				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	78.30	78.30	19.57	0.00	417.07	0.188	78.80	0.4	0.2	10.931	B
C-AB	3.10	3.10	0.77	0.00	817.84	0.004	3.11	0.0	0.0	4.562	A
C-A	460.66	460.66	115.16	0.00			460.66				
A-B	112.93	112.93	28.23	0.00			112.93				
A-C	578.19	578.19	144.55	0.00			578.19				

J5 Ashford Road/Old Ashford Road - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.70	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	630.00	100.000
B		ONE HOUR	✓	173.00	100.000
C		ONE HOUR	✓	712.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	113.000	517.000
	B	159.000	0.000	14.000
	C	710.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.18	0.82
	B	0.92	0.00	0.08
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	4
	B	2	0	0
	C	2	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.040
	B	1.022	1.000	1.000
	C	1.022	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	474.30	474.30
	B	130.24	130.24
	C	536.03	536.03
16:45-17:00	A	566.36	566.36
	B	155.52	155.52
	C	640.07	640.07
17:00-17:15	A	693.64	693.64
	B	190.48	190.48
	C	783.93	783.93
17:15-17:30	A	693.64	693.64
	B	190.48	190.48
	C	783.93	783.93
17:30-17:45	A	566.36	566.36
	B	155.52	155.52
	C	640.07	640.07
17:45-18:00	A	474.30	474.30
	B	130.24	130.24
	C	536.03	536.03

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.55	23.52	1.2	C	158.75	238.12
C-AB	0.01	4.05	0.0	A	4.60	6.91
C-A					648.74	973.11
A-B					103.69	155.54
A-C					474.41	711.61

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130.24	130.24	32.56	0.00	456.91	0.285	128.64	0.0	0.4	11.136	B
C-AB	3.16	3.16	0.79	0.00	903.56	0.004	3.15	0.0	0.0	4.043	A
C-A	532.87	532.87	133.22	0.00			532.87				
A-B	85.07	85.07	21.27	0.00			85.07				
A-C	389.22	389.22	97.31	0.00			389.22				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	155.52	155.52	38.88	0.00	410.59	0.379	154.69	0.4	0.6	14.304	B
C-AB	4.32	4.32	1.08	0.00	944.73	0.005	4.31	0.0	0.0	3.874	A
C-A	635.75	635.75	158.94	0.00			635.75				
A-B	101.58	101.58	25.40	0.00			101.58				
A-C	464.77	464.77	116.19	0.00			464.77				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	190.48	190.48	47.62	0.00	346.16	0.550	188.17	0.6	1.2	22.912	C
C-AB	6.32	6.32	1.58	0.00	999.07	0.006	6.32	0.0	0.0	3.674	A
C-A	777.60	777.60	194.40	0.00			777.60				
A-B	124.42	124.42	31.10	0.00			124.42				
A-C	569.23	569.23	142.31	0.00			569.23				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	190.48	190.48	47.62	0.00	346.16	0.550	190.36	1.2	1.2	23.520	C
C-AB	6.33	6.33	1.58	0.00	999.08	0.006	6.33	0.0	0.0	3.679	A
C-A	777.60	777.60	194.40	0.00			777.60				
A-B	124.42	124.42	31.10	0.00			124.42				
A-C	569.23	569.23	142.31	0.00			569.23				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	155.52	155.52	38.88	0.00	410.59	0.379	157.83	1.2	0.6	14.656	B
C-AB	4.32	4.32	1.08	0.00	944.73	0.005	4.33	0.0	0.0	3.881	A
C-A	635.75	635.75	158.94	0.00			635.75				
A-B	101.58	101.58	25.40	0.00			101.58				
A-C	464.77	464.77	116.19	0.00			464.77				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130.24	130.24	32.56	0.00	456.90	0.285	131.14	0.6	0.4	11.306	B
C-AB	3.17	3.17	0.79	0.00	903.56	0.004	3.17	0.0	0.0	4.046	A
C-A	532.86	532.86	133.22	0.00			532.86				
A-B	85.07	85.07	21.27	0.00			85.07				
A-C	389.22	389.22	97.31	0.00			389.22				

J5 Ashford Road/Old Ashford Road - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.63	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	936.00	100.000
B		ONE HOUR	✓	141.00	100.000
C		ONE HOUR	✓	626.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	164.000	772.000
	B	126.000	0.000	15.000
	C	624.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.18	0.82
	B	0.89	0.00	0.11
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	3	7
	B	3	0	0
	C	6	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.030	1.070
	B	1.030	1.000	1.000
	C	1.060	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	704.67	704.67
	B	106.15	106.15
	C	471.29	471.29
07:30-07:45	A	841.44	841.44
	B	126.76	126.76
	C	562.76	562.76
07:45-08:00	A	1030.56	1030.56
	B	155.24	155.24
	C	689.24	689.24
08:00-08:15	A	1030.56	1030.56
	B	155.24	155.24
	C	689.24	689.24
08:15-08:30	A	841.44	841.44
	B	126.76	126.76
	C	562.76	562.76
08:30-08:45	A	704.67	704.67
	B	106.15	106.15
	C	471.29	471.29

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.57	31.66	1.3	D	129.38	194.08
C-AB	0.01	4.55	0.0	A	4.70	7.05
C-A					569.73	854.59
A-B					150.49	225.73
A-C					708.40	1062.60

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	106.15	106.15	26.54	0.00	407.43	0.261	104.73	0.0	0.4	12.155	B
C-AB	3.13	3.13	0.78	0.00	819.83	0.004	3.11	0.0	0.0	4.541	A
C-A	468.16	468.16	117.04	0.00			468.16				
A-B	123.47	123.47	30.87	0.00			123.47				
A-C	581.20	581.20	145.30	0.00			581.20				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	126.76	126.76	31.69	0.00	350.63	0.362	125.91	0.4	0.6	16.385	C
C-AB	4.36	4.36	1.09	0.00	849.53	0.005	4.35	0.0	0.0	4.398	A
C-A	558.40	558.40	139.60	0.00			558.40				
A-B	147.43	147.43	36.86	0.00			147.43				
A-C	694.01	694.01	173.50	0.00			694.01				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	155.24	155.24	38.81	0.00	271.34	0.572	152.40	0.6	1.3	30.379	D
C-AB	6.61	6.61	1.65	0.00	890.52	0.007	6.60	0.0	0.0	4.224	A
C-A	682.63	682.63	170.66	0.00			682.63				
A-B	180.57	180.57	45.14	0.00			180.57				
A-C	849.99	849.99	212.50	0.00			849.99				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	155.24	155.24	38.81	0.00	271.34	0.572	155.06	1.3	1.3	31.656	D
C-AB	6.62	6.62	1.65	0.00	890.53	0.007	6.62	0.0	0.0	4.233	A
C-A	682.62	682.62	170.66	0.00			682.62				
A-B	180.57	180.57	45.14	0.00			180.57				
A-C	849.99	849.99	212.50	0.00			849.99				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	126.76	126.76	31.69	0.00	350.62	0.362	129.65	1.3	0.6	16.932	C
C-AB	4.36	4.36	1.09	0.00	849.54	0.005	4.37	0.0	0.0	4.419	A
C-A	558.40	558.40	139.60	0.00			558.40				
A-B	147.43	147.43	36.86	0.00			147.43				
A-C	694.01	694.01	173.50	0.00			694.01				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	106.15	106.15	26.54	0.00	407.42	0.261	107.07	0.6	0.4	12.344	B
C-AB	3.14	3.14	0.79	0.00	819.83	0.004	3.15	0.0	0.0	4.553	A
C-A	468.15	468.15	117.04	0.00			468.15				
A-B	123.47	123.47	30.87	0.00			123.47				
A-C	581.20	581.20	145.30	0.00			581.20				

J5 Ashford Road/Old Ashford Road - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J5 Ashford Road/Old Ashford Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.58	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	656.00	100.000
B		ONE HOUR	✓	193.00	100.000
C		ONE HOUR	✓	717.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	132.000	524.000
	B	179.000	0.000	14.000
	C	715.000	2.000	0.000

Proportions

		To		
		A	B	C
From	A	0.00	0.20	0.80
	B	0.93	0.00	0.07
	C	1.00	0.00	0.00

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	4
	B	2	0	0
	C	2	0	0

Average PCU Per Veh

		To		
		A	B	C
From	A	1.000	1.000	1.040
	B	1.022	1.000	1.000
	C	1.022	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	493.87	493.87
	B	145.30	145.30
	C	539.80	539.80
16:45-17:00	A	589.73	589.73
	B	173.50	173.50
	C	644.57	644.57
17:00-17:15	A	722.27	722.27
	B	212.50	212.50
	C	789.43	789.43
17:15-17:30	A	722.27	722.27
	B	212.50	212.50
	C	789.43	789.43
17:30-17:45	A	589.73	589.73
	B	173.50	173.50
	C	644.57	644.57
17:45-18:00	A	493.87	493.87
	B	145.30	145.30
	C	539.80	539.80

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.63	28.94	1.7	D	177.10	265.65
C-AB	0.01	4.06	0.0	A	4.66	7.00
C-A					653.27	979.90
A-B					121.13	181.69
A-C					480.83	721.25

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	145.30	145.30	36.33	0.00	451.34	0.322	143.40	0.0	0.5	11.859	B
C-AB	3.19	3.19	0.80	0.00	901.98	0.004	3.17	0.0	0.0	4.051	A
C-A	536.61	536.61	134.15	0.00			536.61				
A-B	99.38	99.38	24.84	0.00			99.38				
A-C	394.49	394.49	98.62	0.00			394.49				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	173.50	173.50	43.38	0.00	404.17	0.429	172.42	0.5	0.7	15.775	C
C-AB	4.37	4.37	1.09	0.00	943.02	0.005	4.37	0.0	0.0	3.882	A
C-A	640.20	640.20	160.05	0.00			640.20				
A-B	118.67	118.67	29.67	0.00			118.67				
A-C	471.07	471.07	117.77	0.00			471.07				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	212.50	212.50	53.12	0.00	338.58	0.628	209.11	0.7	1.6	27.667	D
C-AB	6.42	6.42	1.61	0.00	997.23	0.006	6.41	0.0	0.0	3.682	A
C-A	783.01	783.01	195.75	0.00			783.01				
A-B	145.33	145.33	36.33	0.00			145.33				
A-C	576.93	576.93	144.23	0.00			576.93				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	212.50	212.50	53.12	0.00	338.58	0.628	212.26	1.6	1.7	28.936	D
C-AB	6.43	6.43	1.61	0.00	997.23	0.006	6.43	0.0	0.0	3.687	A
C-A	783.01	783.01	195.75	0.00			783.01				
A-B	145.33	145.33	36.33	0.00			145.33				
A-C	576.93	576.93	144.23	0.00			576.93				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	173.50	173.50	43.38	0.00	404.17	0.429	176.95	1.7	0.8	16.397	C
C-AB	4.37	4.37	1.09	0.00	943.02	0.005	4.38	0.0	0.0	3.889	A
C-A	640.19	640.19	160.05	0.00			640.19				
A-B	118.67	118.67	29.67	0.00			118.67				
A-C	471.07	471.07	117.77	0.00			471.07				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	145.30	145.30	36.33	0.00	451.34	0.322	146.49	0.8	0.5	12.097	B
C-AB	3.20	3.20	0.80	0.00	901.98	0.004	3.20	0.0	0.0	4.055	A
C-A	536.60	536.60	134.15	0.00			536.60				
A-B	99.38	99.38	24.84	0.00			99.38				
A-C	394.49	394.49	98.62	0.00			394.49				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []

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Filename: J6 Ashford Road Faversham Road.j9
Path: P:\Southampton\ITW\Projects\347826 - Maidstone BC Jct Assessment\AD. Lenham\PICADY models\J6 Ashford Road Faversham Road
Report generation date: 17/07/2015 14:42:09

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	J6 Ashford Road/Faversham Road - Base 2015							
Stream B-CD	0.1	10.91	0.06	B	0.1	9.15	0.10	A
Stream B-AD	0.3	16.12	0.21	C	0.2	12.06	0.16	B
Stream A-BCD	0.1	7.05	0.06	A	0.1	7.15	0.07	A
Stream A-B								
Stream A-C								
Stream D-AB	0.2	10.49	0.20	B	0.1	8.13	0.06	A
Stream D-BC	0.4	18.24	0.29	C	0.1	13.26	0.10	B
Stream C-ABD	0.0	7.47	0.01	A	0.0	5.73	0.02	A
Stream C-D								
Stream C-A								
	J6 Ashford Road/Faversham Road - Base 2031							
Stream B-CD	0.1	14.14	0.10	B	0.2	12.48	0.17	B
Stream B-AD	0.5	24.41	0.32	C	0.4	17.69	0.27	C
Stream A-BCD	0.1	7.57	0.08	A	0.1	8.27	0.11	A
Stream A-B								
Stream A-C								
Stream D-AB	0.5	15.28	0.31	C	0.1	10.62	0.11	B
Stream D-BC	0.7	28.66	0.43	D	0.2	19.92	0.19	C
Stream C-ABD	0.0	8.16	0.02	A	0.0	6.28	0.03	A
Stream C-D								
Stream C-A								
	J6 Ashford Road/Faversham Road - Base 2031 + Dev							
Stream B-CD	0.3	12.69	0.21	B	0.3	12.84	0.24	B
Stream B-AD	0.6	28.35	0.37	D	0.4	19.99	0.30	C
Stream A-BCD	0.1	7.71	0.08	A	0.1	8.61	0.11	A
Stream A-B								
Stream A-C								
Stream D-AB	0.5	16.61	0.33	C	0.1	11.11	0.12	B
Stream D-BC	0.9	33.31	0.46	D	0.3	22.25	0.21	C
Stream C-ABD	0.1	8.52	0.05	A	0.1	6.79	0.10	A
Stream C-D								
Stream C-A								

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

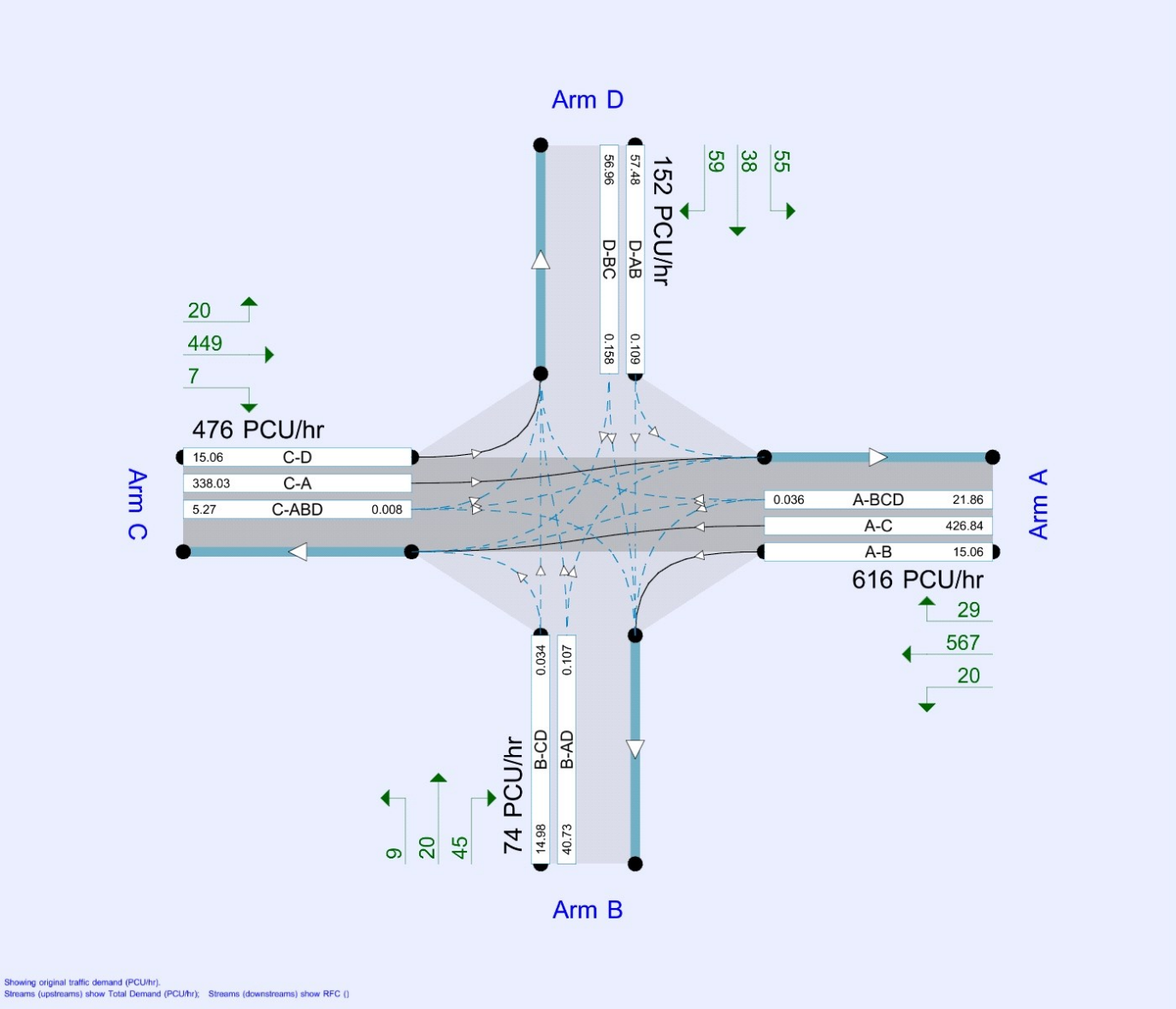
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	30/06/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	MOTTMAC"rap67683
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Model time period length (min)	Time segment length (min)	Run automatically
Base 2015	AM	ONE HOUR	07:15	08:45		15	✓
Base 2015	PM	FLAT	16:30	18:00	90	15	✓
Base 2031	AM	ONE HOUR	07:15	08:45		15	✓
Base 2031	PM	ONE HOUR	16:30	18:00		15	✓
Base 2031 + Dev	AM	ONE HOUR	07:15	08:45		15	✓
Base 2031 + Dev	PM	ONE HOUR	16:30	18:00		15	✓

J6 Ashford Road/Faversham Road - Base 2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	2.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Ashford Road East		Major
B	Faversham Road S		Minor
C	Ashford Road West		Major
D	Faversham Road N		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	6.00		✓	2.75	155.0	✓	2.00
C	6.00		✓	3.00	250.0	✓	8.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	10.00	6.00	4.00	3.00		2.00	41	27
D	One lane plus flare	9.00	4.00	3.00	3.00	3.00		1.00	28	31

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
1	A-D	703.455	-	-	-	-	-	-	0.273	0.389	0.273	-	-	-
1	B-A	582.462	0.106	0.268	0.268	-	-	-	0.169	0.383	-	0.268	0.268	0.134
1	B-C	712.618	0.109	0.276	-	-	-	-	-	-	-	-	-	-
1	B-D, nearside lane	560.631	0.102	0.258	0.258	-	-	-	0.162	0.369	0.162	-	-	-
1	B-D, offside lane	582.462	0.106	0.268	0.268	-	-	-	0.169	0.383	0.169	-	-	-
1	C-B	781.320	0.303	0.303	0.432	-	-	-	-	-	-	-	-	-
1	D-A	740.083	-	-	-	-	-	-	0.287	-	0.113	-	-	-
1	D-B, nearside lane	577.081	0.167	0.167	0.380	-	-	-	0.266	0.266	0.105	-	-	-
1	D-B, offside lane	526.849	0.153	0.153	0.346	-	-	-	0.243	0.243	0.096	-	-	-
1	D-C	526.849	-	0.153	0.346	0.121	0.243	0.243	0.243	0.243	0.096	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D1	Base 2015	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	616.00	100.000
B		ONE HOUR	✓	74.00	100.000
C		ONE HOUR	✓	476.00	100.000
D		ONE HOUR	✓	152.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	20.000	567.000	29.000
	B	45.000	0.000	9.000	20.000
	C	449.000	7.000	0.000	20.000
	D	55.000	38.000	59.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.03	0.92	0.05
	B	0.61	0.00	0.12	0.27
	C	0.94	0.01	0.00	0.04
	D	0.36	0.25	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	7	4
	B	2	0	0	0
	C	7	17	0	0
	D	0	0	2	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.070	1.038
	B	1.020	1.000	1.000	1.000
	C	1.070	1.170	1.000	1.000
	D	1.000	1.000	1.020	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	463.76	463.76
	B	55.71	55.71
	C	358.36	358.36
	D	114.43	114.43
07:30-07:45	A	553.77	553.77
	B	66.52	66.52
	C	427.91	427.91
	D	136.64	136.64
07:45-08:00	A	678.23	678.23
	B	81.48	81.48
	C	524.09	524.09
	D	167.36	167.36
08:00-08:15	A	678.23	678.23
	B	81.48	81.48
	C	524.09	524.09
	D	167.36	167.36
08:15-08:30	A	553.77	553.77
	B	66.52	66.52
	C	427.91	427.91
	D	136.64	136.64
08:30-08:45	A	463.76	463.76
	B	55.71	55.71
	C	358.36	358.36
	D	114.43	114.43

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.06	10.91	0.1	B	18.68	28.03
B-AD	0.21	16.12	0.3	C	49.22	73.83
A-BCD	0.06	7.05	0.1	A	26.69	40.03
A-B					18.35	27.52
A-C					520.21	780.32
D-AB	0.20	10.49	0.2	B	71.06	106.60
D-BC	0.29	18.24	0.4	C	68.41	102.62
C-ABD	0.01	7.47	0.0	A	6.42	9.63
C-D					18.35	27.53
C-A					412.01	618.02

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	14.98	14.98	3.75	0.00	444.58	0.034	14.84	0.0	0.0	8.374	A
B-AD	40.73	40.73	10.18	0.00	380.33	0.107	40.25	0.0	0.1	10.746	B
A-BCD	21.86	21.86	5.46	0.00	605.90	0.036	21.70	0.0	0.0	6.395	A
A-B	15.06	15.06	3.76	0.00			15.06				
A-C	426.84	426.84	106.71	0.00			426.84				
D-AB	57.48	57.48	14.37	0.00	526.29	0.109	56.99	0.0	0.1	7.663	A
D-BC	56.96	56.96	14.24	0.00	360.92	0.158	56.21	0.0	0.2	11.970	B
C-ABD	5.27	5.27	1.32	0.00	638.10	0.008	5.23	0.0	0.0	6.655	A
C-D	15.06	15.06	3.76	0.00			15.06				
C-A	338.03	338.03	84.51	0.00			338.03				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	18.17	18.17	4.54	0.00	407.06	0.045	18.13	0.0	0.0	9.254	A
B-AD	48.35	48.35	12.09	0.00	340.66	0.142	48.17	0.1	0.2	12.505	B
A-BCD	26.13	26.13	6.53	0.00	587.38	0.044	26.09	0.0	0.0	6.657	A
A-B	17.98	17.98	4.49	0.00			17.98				
A-C	509.67	509.67	127.42	0.00			509.67				
D-AB	69.32	69.32	17.33	0.00	488.40	0.142	69.15	0.1	0.2	8.583	A
D-BC	67.32	67.32	16.83	0.00	327.95	0.205	67.04	0.2	0.3	13.997	B
C-ABD	6.29	6.29	1.57	0.00	610.23	0.010	6.28	0.0	0.0	6.973	A
C-D	17.98	17.98	4.49	0.00			17.98				
C-A	403.64	403.64	100.91	0.00			403.64				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	22.88	22.88	5.72	0.00	353.19	0.065	22.79	0.0	0.1	10.894	B
B-AD	58.59	58.59	14.65	0.00	285.86	0.205	58.23	0.2	0.3	16.053	C
A-BCD	32.08	32.08	8.02	0.00	562.27	0.057	32.02	0.0	0.1	7.047	A
A-B	22.02	22.02	5.50	0.00			22.02				
A-C	624.14	624.14	156.03	0.00			624.14				
D-AB	86.34	86.34	21.59	0.00	430.21	0.201	86.01	0.2	0.2	10.448	B
D-BC	81.01	81.01	20.25	0.00	281.59	0.288	80.44	0.3	0.4	18.127	C
C-ABD	7.71	7.71	1.93	0.00	571.78	0.013	7.69	0.0	0.0	7.466	A
C-D	22.02	22.02	5.51	0.00			22.02				
C-A	494.36	494.36	123.59	0.00			494.36				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	22.89	22.89	5.72	0.00	352.94	0.065	22.89	0.1	0.1	10.907	B
B-AD	58.58	58.58	14.65	0.00	285.70	0.205	58.57	0.3	0.3	16.117	C
A-BCD	32.08	32.08	8.02	0.00	562.28	0.057	32.08	0.1	0.1	7.047	A
A-B	22.02	22.02	5.50	0.00			22.02				
A-C	624.14	624.14	156.03	0.00			624.14				
D-AB	86.38	86.38	21.59	0.00	429.65	0.201	86.37	0.2	0.2	10.486	B
D-BC	80.98	80.98	20.24	0.00	281.46	0.288	80.95	0.4	0.4	18.236	C
C-ABD	7.71	7.71	1.93	0.00	571.75	0.013	7.71	0.0	0.0	7.466	A
C-D	22.02	22.02	5.51	0.00			22.02				
C-A	494.36	494.36	123.59	0.00			494.36				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	18.19	18.19	4.55	0.00	406.68	0.045	18.27	0.1	0.0	9.272	A
B-AD	48.34	48.34	12.08	0.00	340.42	0.142	48.69	0.3	0.2	12.564	B
A-BCD	26.13	26.13	6.53	0.00	587.40	0.044	26.18	0.1	0.0	6.658	A
A-B	17.98	17.98	4.49	0.00			17.98				
A-C	509.67	509.67	127.42	0.00			509.67				
D-AB	69.36	69.36	17.34	0.00	487.71	0.142	69.69	0.2	0.2	8.618	A
D-BC	67.29	67.29	16.82	0.00	327.78	0.205	67.83	0.4	0.3	14.100	B
C-ABD	6.29	6.29	1.57	0.00	610.19	0.010	6.31	0.0	0.0	6.976	A
C-D	17.98	17.98	4.49	0.00			17.98				
C-A	403.64	403.64	100.91	0.00			403.64				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	14.99	14.99	3.75	0.00	444.17	0.034	15.04	0.0	0.0	8.389	A
B-AD	40.72	40.72	10.18	0.00	380.00	0.107	40.91	0.2	0.1	10.798	B
A-BCD	21.86	21.86	5.46	0.00	605.89	0.036	21.90	0.0	0.0	6.398	A
A-B	15.06	15.06	3.76	0.00			15.06				
A-C	426.84	426.84	106.71	0.00			426.84				
D-AB	57.51	57.51	14.38	0.00	525.59	0.109	57.68	0.2	0.1	7.698	A
D-BC	56.92	56.92	14.23	0.00	360.69	0.158	57.22	0.3	0.2	12.061	B
C-ABD	5.27	5.27	1.32	0.00	638.01	0.008	5.28	0.0	0.0	6.658	A
C-D	15.06	15.06	3.76	0.00			15.06				
C-A	338.03	338.03	84.51	0.00			338.03				

J6 Ashford Road/Faversham Road - Base 2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	1.72	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Model time period length (min)	Time segment length (min)	Run automatically
D2	Base 2015	PM	FLAT	16:30	18:00	90	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		FLAT	✓	451.00	100.000
B		FLAT	✓	99.00	100.000
C		FLAT	✓	595.00	100.000
D		FLAT	✓	62.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	35.000	378.000	38.000
	B	39.000	0.000	22.000	38.000
	C	527.000	12.000	0.000	56.000
	D	22.000	16.000	24.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.08	0.84	0.08
	B	0.39	0.00	0.22	0.38
	C	0.89	0.02	0.00	0.09
	D	0.35	0.26	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	4	0
	B	0	0	0	0
	C	2	0	0	0
	D	0	1	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.040	1.000
	B	1.000	1.000	1.000	1.000
	C	1.020	1.000	1.000	1.000
	D	1.000	1.008	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00
16:45-17:00	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00
17:00-17:15	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00
17:15-17:30	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00
17:30-17:45	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00
17:45-18:00	A	451.00	451.00
	B	99.00	99.00
	C	595.00	595.00
	D	62.00	62.00

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.10	9.15	0.1	A	43.12	64.68
B-AD	0.16	12.06	0.2	B	55.88	83.82
A-BCD	0.07	7.15	0.1	A	38.14	57.22
A-B					34.99	52.48
A-C					377.87	566.80
D-AB	0.06	8.13	0.1	A	30.65	45.97
D-BC	0.10	13.26	0.1	B	31.35	47.03
C-ABD	0.02	5.73	0.0	A	12.00	18.00
C-D					56.00	84.00
C-A					527.00	790.50

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.10	43.10	10.77	0.00	436.84	0.099	42.66	0.0	0.1	9.122	A
B-AD	55.90	55.90	13.98	0.00	354.67	0.158	55.17	0.0	0.2	11.992	B
A-BCD	38.14	38.14	9.54	0.00	541.93	0.070	37.84	0.0	0.1	7.137	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.64	30.64	7.66	0.00	474.54	0.065	30.36	0.0	0.1	8.118	A
D-BC	31.36	31.36	7.84	0.00	303.65	0.103	30.91	0.0	0.1	13.203	B
C-ABD	12.00	12.00	3.00	0.00	639.86	0.019	11.92	0.0	0.0	5.733	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.13	43.13	10.78	0.00	436.43	0.099	43.12	0.1	0.1	9.152	A
B-AD	55.87	55.87	13.97	0.00	354.45	0.158	55.87	0.2	0.2	12.056	B
A-BCD	38.14	38.14	9.54	0.00	541.90	0.070	38.14	0.1	0.1	7.146	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.65	30.65	7.66	0.00	474.19	0.065	30.65	0.1	0.1	8.134	A
D-BC	31.35	31.35	7.84	0.00	303.35	0.103	31.35	0.1	0.1	13.259	B
C-ABD	12.00	12.00	3.00	0.00	639.73	0.019	12.00	0.0	0.0	5.734	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.13	43.13	10.78	0.00	436.43	0.099	43.12	0.1	0.1	9.152	A
B-AD	55.87	55.87	13.97	0.00	354.45	0.158	55.87	0.2	0.2	12.056	B
A-BCD	38.14	38.14	9.54	0.00	541.90	0.070	38.14	0.1	0.1	7.146	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.65	30.65	7.66	0.00	474.18	0.065	30.65	0.1	0.1	8.134	A
D-BC	31.35	31.35	7.84	0.00	303.35	0.103	31.35	0.1	0.1	13.259	B
C-ABD	12.00	12.00	3.00	0.00	639.73	0.019	12.00	0.0	0.0	5.734	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.13	43.13	10.78	0.00	436.43	0.099	43.12	0.1	0.1	9.152	A
B-AD	55.87	55.87	13.97	0.00	354.45	0.158	55.87	0.2	0.2	12.056	B
A-BCD	38.14	38.14	9.54	0.00	541.90	0.070	38.14	0.1	0.1	7.146	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.65	30.65	7.66	0.00	474.18	0.065	30.65	0.1	0.1	8.134	A
D-BC	31.35	31.35	7.84	0.00	303.35	0.103	31.35	0.1	0.1	13.259	B
C-ABD	12.00	12.00	3.00	0.00	639.73	0.019	12.00	0.0	0.0	5.734	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.13	43.13	10.78	0.00	436.43	0.099	43.13	0.1	0.1	9.152	A
B-AD	55.87	55.87	13.97	0.00	354.45	0.158	55.87	0.2	0.2	12.056	B
A-BCD	38.14	38.14	9.54	0.00	541.90	0.070	38.14	0.1	0.1	7.149	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.65	30.65	7.66	0.00	474.18	0.065	30.65	0.1	0.1	8.134	A
D-BC	31.35	31.35	7.84	0.00	303.35	0.103	31.35	0.1	0.1	13.259	B
C-ABD	12.00	12.00	3.00	0.00	639.73	0.019	12.00	0.0	0.0	5.734	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	43.13	43.13	10.78	0.00	436.43	0.099	43.13	0.1	0.1	9.152	A
B-AD	55.87	55.87	13.97	0.00	354.45	0.158	55.87	0.2	0.2	12.056	B
A-BCD	38.14	38.14	9.54	0.00	541.90	0.070	38.14	0.1	0.1	7.149	A
A-B	34.99	34.99	8.75	0.00			34.99				
A-C	377.87	377.87	94.47	0.00			377.87				
D-AB	30.65	30.65	7.66	0.00	474.18	0.065	30.65	0.1	0.1	8.134	A
D-BC	31.35	31.35	7.84	0.00	303.35	0.103	31.35	0.1	0.1	13.259	B
C-ABD	12.00	12.00	3.00	0.00	639.73	0.019	12.00	0.0	0.0	5.734	A
C-D	56.00	56.00	14.00	0.00			56.00				
C-A	527.00	527.00	131.75	0.00			527.00				

J6 Ashford Road/Faversham Road - Base 2031, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	3.93	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D3	Base 2031	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	750.00	100.000
B		ONE HOUR	✓	90.00	100.000
C		ONE HOUR	✓	579.00	100.000
D		ONE HOUR	✓	185.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	24.000	690.000	36.000
	B	55.000	0.000	11.000	24.000
	C	546.000	9.000	0.000	24.000
	D	67.000	46.000	72.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.03	0.92	0.05
	B	0.61	0.00	0.12	0.27
	C	0.94	0.02	0.00	0.04
	D	0.36	0.25	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	7	4
	B	2	0	0	0
	C	7	17	0	0
	D	0	0	2	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.070	1.038
	B	1.020	1.000	1.000	1.000
	C	1.070	1.170	1.000	1.000
	D	1.000	1.000	1.020	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	564.64	564.64
	B	67.76	67.76
	C	435.90	435.90
	D	139.28	139.28
07:30-07:45	A	674.23	674.23
	B	80.91	80.91
	C	520.51	520.51
	D	166.31	166.31
07:45-08:00	A	825.77	825.77
	B	99.09	99.09
	C	637.49	637.49
	D	203.69	203.69
08:00-08:15	A	825.77	825.77
	B	99.09	99.09
	C	637.49	637.49
	D	203.69	203.69
08:15-08:30	A	674.23	674.23
	B	80.91	80.91
	C	520.51	520.51
	D	166.31	166.31
08:30-08:45	A	564.64	564.64
	B	67.76	67.76
	C	435.90	435.90
	D	139.28	139.28

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.10	14.14	0.1	B	23.39	35.09
B-AD	0.32	24.41	0.5	C	59.20	88.79
A-BCD	0.08	7.57	0.1	A	33.24	49.86
A-B					22.02	33.02
A-C					632.96	949.43
D-AB	0.31	15.28	0.5	C	88.16	132.24
D-BC	0.43	28.66	0.7	D	81.60	122.40
C-ABD	0.02	8.16	0.0	A	8.26	12.39
C-D					22.02	33.03
C-A					501.02	751.53

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	18.44	18.44	4.61	0.00	403.36	0.046	18.25	0.0	0.0	9.344	A
B-AD	49.31	49.31	12.33	0.00	336.19	0.147	48.63	0.0	0.2	12.689	B
A-BCD	27.17	27.17	6.79	0.00	585.31	0.046	26.97	0.0	0.1	6.692	A
A-B	18.07	18.07	4.52	0.00			18.07				
A-C	519.40	519.40	129.85	0.00			519.40				
D-AB	70.66	70.66	17.66	0.00	484.59	0.146	69.98	0.0	0.2	8.669	A
D-BC	68.62	68.62	17.16	0.00	324.09	0.212	67.55	0.0	0.3	14.197	B
C-ABD	6.78	6.78	1.69	0.00	606.87	0.011	6.72	0.0	0.0	7.017	A
C-D	18.07	18.07	4.52	0.00			18.07				
C-A	411.06	411.06	102.76	0.00			411.06				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	22.58	22.58	5.65	0.00	355.55	0.064	22.50	0.0	0.1	10.807	B
B-AD	58.33	58.33	14.58	0.00	287.61	0.203	58.00	0.2	0.3	15.919	C
A-BCD	32.52	32.52	8.13	0.00	563.24	0.058	32.46	0.1	0.1	7.040	A
A-B	21.57	21.57	5.39	0.00			21.57				
A-C	620.15	620.15	155.04	0.00			620.15				
D-AB	85.68	85.68	21.42	0.00	432.55	0.198	85.38	0.2	0.2	10.361	B
D-BC	80.63	80.63	20.16	0.00	283.04	0.285	80.12	0.3	0.4	17.974	C
C-ABD	8.09	8.09	2.02	0.00	572.93	0.014	8.08	0.0	0.0	7.456	A
C-D	21.58	21.58	5.39	0.00			21.58				
C-A	490.84	490.84	122.71	0.00			490.84				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	29.09	29.09	7.27	0.00	284.34	0.102	28.91	0.1	0.1	14.083	B
B-AD	70.01	70.01	17.50	0.00	220.26	0.318	69.19	0.3	0.5	24.104	C
A-BCD	40.04	40.04	10.01	0.00	533.83	0.075	39.95	0.1	0.1	7.568	A
A-B	26.41	26.41	6.60	0.00			26.41				
A-C	759.32	759.32	189.83	0.00			759.32				
D-AB	107.98	107.98	27.00	0.00	345.49	0.313	107.18	0.2	0.4	15.055	C
D-BC	95.71	95.71	23.93	0.00	223.44	0.428	94.39	0.4	0.7	28.056	D
C-ABD	9.91	9.91	2.48	0.00	526.09	0.019	9.89	0.0	0.0	8.159	A
C-D	26.42	26.42	6.61	0.00			26.42				
C-A	601.16	601.16	150.29	0.00			601.16				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	29.14	29.14	7.28	0.00	283.65	0.103	29.13	0.1	0.1	14.143	B
B-AD	69.95	69.95	17.49	0.00	219.86	0.318	69.92	0.5	0.5	24.406	C
A-BCD	40.04	40.04	10.01	0.00	533.86	0.075	40.04	0.1	0.1	7.568	A
A-B	26.41	26.41	6.60	0.00			26.41				
A-C	759.32	759.32	189.83	0.00			759.32				
D-AB	108.11	108.11	27.03	0.00	343.61	0.315	108.08	0.4	0.5	15.279	C
D-BC	95.58	95.58	23.89	0.00	222.99	0.429	95.50	0.7	0.7	28.659	D
C-ABD	9.91	9.91	2.48	0.00	526.05	0.019	9.91	0.0	0.0	8.160	A
C-D	26.42	26.42	6.61	0.00			26.42				
C-A	601.16	601.16	150.29	0.00			601.16				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	22.63	22.63	5.66	0.00	354.68	0.064	22.80	0.1	0.1	10.854	B
B-AD	58.28	58.28	14.57	0.00	287.09	0.203	59.09	0.5	0.3	16.114	C
A-BCD	32.52	32.52	8.13	0.00	563.29	0.058	32.60	0.1	0.1	7.043	A
A-B	21.57	21.57	5.39	0.00			21.57				
A-C	620.15	620.15	155.04	0.00			620.15				
D-AB	85.80	85.80	21.45	0.00	430.64	0.199	86.60	0.5	0.3	10.487	B
D-BC	80.51	80.51	20.13	0.00	282.61	0.285	81.81	0.7	0.4	18.337	C
C-ABD	8.09	8.09	2.02	0.00	572.87	0.014	8.11	0.0	0.0	7.460	A
C-D	21.58	21.58	5.39	0.00			21.58				
C-A	490.84	490.84	122.71	0.00			490.84				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	18.47	18.47	4.62	0.00	402.69	0.046	18.55	0.1	0.0	9.373	A
B-AD	49.29	49.29	12.32	0.00	335.69	0.147	49.64	0.3	0.2	12.814	B
A-BCD	27.17	27.17	6.79	0.00	585.30	0.046	27.22	0.1	0.1	6.696	A
A-B	18.07	18.07	4.52	0.00			18.07				
A-C	519.40	519.40	129.85	0.00			519.40				
D-AB	70.73	70.73	17.68	0.00	483.31	0.146	71.05	0.3	0.2	8.740	A
D-BC	68.55	68.55	17.14	0.00	323.73	0.212	69.10	0.4	0.3	14.393	B
C-ABD	6.78	6.78	1.69	0.00	606.76	0.011	6.79	0.0	0.0	7.022	A
C-D	18.07	18.07	4.52	0.00			18.07				
C-A	411.06	411.06	102.76	0.00			411.06				

J6 Ashford Road/Faversham Road - Base 2031, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	2.38	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D4	Base 2031	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	554.00	100.000
B		ONE HOUR	✓	122.00	100.000
C		ONE HOUR	✓	732.00	100.000
D		ONE HOUR	✓	77.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	43.000	464.000	47.000
	B	48.000	0.000	27.000	47.000
	C	648.000	15.000	0.000	69.000
	D	27.000	20.000	30.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.08	0.84	0.08
	B	0.39	0.00	0.22	0.39
	C	0.89	0.02	0.00	0.09
	D	0.35	0.26	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	4	0
	B	0	0	0	0
	C	2	0	0	0
	D	0	1	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.040	1.000
	B	1.000	1.000	1.000	1.000
	C	1.020	1.000	1.000	1.000
	D	1.000	1.008	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	417.08	417.08
	B	91.85	91.85
	C	551.09	551.09
	D	57.97	57.97
16:45-17:00	A	498.03	498.03
	B	109.68	109.68
	C	658.05	658.05
	D	69.22	69.22
17:00-17:15	A	609.97	609.97
	B	134.32	134.32
	C	805.95	805.95
	D	84.78	84.78
17:15-17:30	A	609.97	609.97
	B	134.32	134.32
	C	805.95	805.95
	D	84.78	84.78
17:30-17:45	A	498.03	498.03
	B	109.68	109.68
	C	658.05	658.05
	D	69.22	69.22
17:45-18:00	A	417.08	417.08
	B	91.85	91.85
	C	551.09	551.09
	D	57.97	57.97

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.17	12.48	0.2	B	49.54	74.30
B-AD	0.27	17.69	0.4	C	62.41	93.62
A-BCD	0.11	8.27	0.1	A	43.47	65.21
A-B					39.43	59.14
A-C					425.46	638.19
D-AB	0.11	10.62	0.1	B	34.99	52.49
D-BC	0.19	19.92	0.2	C	35.67	53.50
C-ABD	0.03	6.28	0.0	A	13.76	20.65
C-D					63.32	94.97
C-A					594.62	891.92

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	39.75	39.75	9.94	0.00	453.40	0.088	39.37	0.0	0.1	8.687	A
B-AD	52.10	52.10	13.02	0.00	370.76	0.141	51.45	0.0	0.2	11.252	B
A-BCD	35.48	35.48	8.87	0.00	553.50	0.064	35.21	0.0	0.1	6.943	A
A-B	32.36	32.36	8.09	0.00			32.36				
A-C	349.23	349.23	87.31	0.00			349.23				
D-AB	28.39	28.39	7.10	0.00	490.59	0.058	28.15	0.0	0.1	7.798	A
D-BC	29.58	29.58	7.39	0.00	320.22	0.092	29.18	0.0	0.1	12.378	B
C-ABD	11.29	11.29	2.82	0.00	650.47	0.017	11.22	0.0	0.0	5.631	A
C-D	51.95	51.95	12.99	0.00			51.95				
C-A	487.85	487.85	121.96	0.00			487.85				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	48.19	48.19	12.05	0.00	411.33	0.117	48.04	0.1	0.1	9.905	A
B-AD	61.49	61.49	15.37	0.00	331.52	0.185	61.24	0.2	0.2	13.307	B
A-BCD	42.49	42.49	10.62	0.00	525.45	0.081	42.41	0.1	0.1	7.454	A
A-B	38.64	38.64	9.66	0.00			38.64				
A-C	416.91	416.91	104.23	0.00			416.91				
D-AB	34.15	34.15	8.54	0.00	447.45	0.076	34.07	0.1	0.1	8.726	A
D-BC	35.07	35.07	8.77	0.00	279.64	0.125	34.91	0.1	0.1	14.728	B
C-ABD	13.48	13.48	3.37	0.00	624.95	0.022	13.47	0.0	0.0	5.886	A
C-D	62.03	62.03	15.51	0.00			62.03				
C-A	582.54	582.54	145.63	0.00			582.54				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	60.61	60.61	15.15	0.00	349.54	0.173	60.31	0.1	0.2	12.434	B
B-AD	73.71	73.71	18.43	0.00	277.28	0.266	73.19	0.2	0.4	17.594	C
A-BCD	52.44	52.44	13.11	0.00	488.21	0.107	52.31	0.1	0.1	8.258	A
A-B	47.29	47.29	11.82	0.00			47.29				
A-C	510.24	510.24	127.56	0.00			510.24				
D-AB	42.41	42.41	10.60	0.00	382.71	0.111	42.25	0.1	0.1	10.592	B
D-BC	42.37	42.37	10.59	0.00	223.51	0.190	42.02	0.1	0.2	19.839	C
C-ABD	16.52	16.52	4.13	0.00	589.80	0.028	16.49	0.0	0.0	6.278	A
C-D	75.97	75.97	18.99	0.00			75.97				
C-A	713.46	713.46	178.37	0.00			713.46				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	60.65	60.65	15.16	0.00	349.19	0.174	60.65	0.2	0.2	12.475	B
B-AD	73.67	73.67	18.42	0.00	277.15	0.266	73.65	0.4	0.4	17.686	C
A-BCD	52.44	52.44	13.11	0.00	488.26	0.107	52.44	0.1	0.1	8.265	A
A-B	47.29	47.29	11.82	0.00			47.29				
A-C	510.24	510.24	127.56	0.00			510.24				
D-AB	42.43	42.43	10.61	0.00	382.34	0.111	42.42	0.1	0.1	10.615	B
D-BC	42.35	42.35	10.59	0.00	223.32	0.190	42.34	0.2	0.2	19.923	C
C-ABD	16.52	16.52	4.13	0.00	589.75	0.028	16.51	0.0	0.0	6.279	A
C-D	75.97	75.97	18.99	0.00			75.97				
C-A	713.46	713.46	178.37	0.00			713.46				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	48.23	48.23	12.06	0.00	410.84	0.117	48.52	0.2	0.1	9.945	A
B-AD	61.45	61.45	15.36	0.00	331.34	0.185	61.95	0.4	0.2	13.390	B
A-BCD	42.49	42.49	10.62	0.00	525.54	0.081	42.62	0.1	0.1	7.458	A
A-B	38.64	38.64	9.66	0.00			38.64				
A-C	416.91	416.91	104.23	0.00			416.91				
D-AB	34.16	34.16	8.54	0.00	447.00	0.076	34.33	0.1	0.1	8.748	A
D-BC	35.06	35.06	8.76	0.00	279.36	0.125	35.40	0.2	0.1	14.801	B
C-ABD	13.48	13.48	3.37	0.00	624.86	0.022	13.51	0.0	0.0	5.890	A
C-D	62.03	62.03	15.51	0.00			62.03				
C-A	582.54	582.54	145.63	0.00			582.54				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	39.78	39.78	9.95	0.00	452.88	0.088	39.93	0.1	0.1	8.722	A
B-AD	52.07	52.07	13.02	0.00	370.51	0.141	52.33	0.2	0.2	11.325	B
A-BCD	35.48	35.48	8.87	0.00	553.50	0.064	35.56	0.1	0.1	6.954	A
A-B	32.36	32.36	8.09	0.00			32.36				
A-C	349.23	349.23	87.31	0.00			349.23				
D-AB	28.40	28.40	7.10	0.00	490.15	0.058	28.49	0.1	0.1	7.818	A
D-BC	29.57	29.57	7.39	0.00	319.85	0.092	29.74	0.1	0.1	12.441	B
C-ABD	11.29	11.29	2.82	0.00	650.31	0.017	11.31	0.0	0.0	5.635	A
C-D	51.95	51.95	12.99	0.00			51.95				
C-A	487.85	487.85	121.96	0.00			487.85				

J6 Ashford Road/Faversham Road - Base 2031 + Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	4.67	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D5	Base 2031 + Dev	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	762.00	100.000
B		ONE HOUR	✓	138.00	100.000
C		ONE HOUR	✓	602.00	100.000
D		ONE HOUR	✓	185.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	29.000	697.000	36.000
	B	60.000	0.000	54.000	24.000
	C	553.000	25.000	0.000	24.000
	D	67.000	46.000	72.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.04	0.91	0.05
	B	0.43	0.00	0.39	0.17
	C	0.92	0.04	0.00	0.04
	D	0.36	0.25	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	7	4
	B	2	0	0	0
	C	7	17	0	0
	D	0	0	2	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.070	1.038
	B	1.020	1.000	1.000	1.000
	C	1.070	1.170	1.000	1.000
	D	1.000	1.000	1.020	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A	573.67	573.67
	B	103.89	103.89
	C	453.22	453.22
	D	139.28	139.28
07:30-07:45	A	685.02	685.02
	B	124.06	124.06
	C	541.19	541.19
	D	166.31	166.31
07:45-08:00	A	838.98	838.98
	B	151.94	151.94
	C	662.81	662.81
	D	203.69	203.69
08:00-08:15	A	838.98	838.98
	B	151.94	151.94
	C	662.81	662.81
	D	203.69	203.69
08:15-08:30	A	685.02	685.02
	B	124.06	124.06
	C	541.19	541.19
	D	166.31	166.31
08:30-08:45	A	573.67	573.67
	B	103.89	103.89
	C	453.22	453.22
	D	139.28	139.28

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.21	12.69	0.3	B	63.22	94.83
B-AD	0.37	28.35	0.6	D	63.41	95.12
A-BCD	0.08	7.71	0.1	A	33.25	49.88
A-B					26.60	39.90
A-C					639.37	959.05
D-AB	0.33	16.61	0.5	C	88.60	132.89
D-BC	0.46	33.31	0.9	D	81.16	121.75
C-ABD	0.05	8.52	0.1	A	22.94	34.41
C-D					22.02	33.03
C-A					507.44	761.16

Main Results for each time segment

Main results: (07:15-07:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	50.97	50.97	12.74	0.00	486.43	0.105	50.51	0.0	0.1	8.250	A
B-AD	52.92	52.92	13.23	0.00	322.15	0.164	52.14	0.0	0.2	13.521	B
A-BCD	27.17	27.17	6.79	0.00	579.23	0.047	26.97	0.0	0.1	6.765	A
A-B	21.83	21.83	5.46	0.00			21.83				
A-C	524.67	524.67	131.17	0.00			524.67				
D-AB	70.78	70.78	17.70	0.00	478.79	0.148	70.09	0.0	0.2	8.795	A
D-BC	68.50	68.50	17.12	0.00	312.26	0.219	67.38	0.0	0.3	14.868	B
C-ABD	18.82	18.82	4.71	0.00	604.14	0.031	18.67	0.0	0.0	7.192	A
C-D	18.07	18.07	4.52	0.00			18.07				
C-A	416.33	416.33	104.08	0.00			416.33				

Main results: (07:30-07:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	61.52	61.52	15.38	0.00	438.77	0.140	61.34	0.1	0.2	9.534	A
B-AD	62.54	62.54	15.63	0.00	272.87	0.229	62.14	0.2	0.3	17.341	C
A-BCD	32.52	32.52	8.13	0.00	556.00	0.059	32.47	0.1	0.1	7.138	A
A-B	26.06	26.06	6.52	0.00			26.06				
A-C	626.43	626.43	156.61	0.00			626.43				
D-AB	85.97	85.97	21.49	0.00	423.68	0.203	85.65	0.2	0.3	10.640	B
D-BC	80.34	80.34	20.09	0.00	268.57	0.299	79.77	0.3	0.4	19.310	C
C-ABD	22.47	22.47	5.62	0.00	569.66	0.039	22.43	0.0	0.0	7.697	A
C-D	21.58	21.58	5.39	0.00			21.58				
C-A	497.14	497.14	124.28	0.00			497.14				

Main results: (07:45-08:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	77.08	77.08	19.27	0.00	361.96	0.213	76.66	0.2	0.3	12.599	B
B-AD	74.86	74.86	18.72	0.00	204.35	0.366	73.80	0.3	0.6	27.828	D
A-BCD	40.07	40.07	10.02	0.00	525.09	0.076	39.98	0.1	0.1	7.704	A
A-B	31.91	31.91	7.98	0.00			31.91				
A-C	767.00	767.00	191.75	0.00			767.00				
D-AB	108.82	108.82	27.21	0.00	328.23	0.332	107.89	0.3	0.5	16.268	C
D-BC	94.87	94.87	23.72	0.00	204.83	0.463	93.25	0.4	0.8	32.324	D
C-ABD	27.53	27.53	6.88	0.00	522.09	0.053	27.46	0.0	0.1	8.514	A
C-D	26.42	26.42	6.61	0.00			26.42				
C-A	608.86	608.86	152.22	0.00			608.86				

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	77.15	77.15	19.29	0.00	360.76	0.214	77.14	0.3	0.3	12.693	B
B-AD	74.79	74.79	18.70	0.00	203.79	0.367	74.73	0.6	0.6	28.351	D
A-BCD	40.07	40.07	10.02	0.00	525.10	0.076	40.06	0.1	0.1	7.707	A
A-B	31.91	31.91	7.98	0.00			31.91				
A-C	767.00	767.00	191.75	0.00			767.00				
D-AB	109.01	109.01	27.25	0.00	325.58	0.335	108.96	0.5	0.5	16.610	C
D-BC	94.68	94.68	23.67	0.00	204.16	0.464	94.58	0.8	0.9	33.312	D
C-ABD	27.53	27.53	6.88	0.00	522.05	0.053	27.52	0.1	0.1	8.516	A
C-D	26.42	26.42	6.61	0.00			26.42				
C-A	608.86	608.86	152.22	0.00			608.86				

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	61.58	61.58	15.40	0.00	437.59	0.141	62.00	0.3	0.2	9.594	A
B-AD	62.48	62.48	15.62	0.00	272.12	0.230	63.53	0.6	0.3	17.648	C
A-BCD	32.52	32.52	8.13	0.00	556.02	0.058	32.61	0.1	0.1	7.141	A
A-B	26.06	26.06	6.52	0.00			26.06				
A-C	626.43	626.43	156.61	0.00			626.43				
D-AB	86.13	86.13	21.53	0.00	421.18	0.205	87.07	0.5	0.3	10.803	B
D-BC	80.18	80.18	20.05	0.00	267.94	0.299	81.80	0.9	0.4	19.820	C
C-ABD	22.47	22.47	5.62	0.00	569.60	0.039	22.54	0.1	0.0	7.701	A
C-D	21.58	21.58	5.39	0.00			21.58				
C-A	497.14	497.14	124.28	0.00			497.14				

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	51.00	51.00	12.75	0.00	485.65	0.105	51.19	0.2	0.1	8.291	A
B-AD	52.89	52.89	13.22	0.00	321.50	0.165	53.32	0.3	0.2	13.677	B
A-BCD	27.17	27.17	6.79	0.00	579.18	0.047	27.23	0.1	0.1	6.770	A
A-B	21.83	21.83	5.46	0.00			21.83				
A-C	524.67	524.67	131.17	0.00			524.67				
D-AB	70.87	70.87	17.72	0.00	477.30	0.148	71.20	0.3	0.2	8.871	A
D-BC	68.41	68.41	17.10	0.00	311.75	0.219	69.03	0.4	0.3	15.106	C
C-ABD	18.82	18.82	4.71	0.00	604.03	0.031	18.86	0.0	0.0	7.200	A
C-D	18.07	18.07	4.52	0.00			18.07				
C-A	416.33	416.33	104.08	0.00			416.33				

J6 Ashford Road/Faversham Road - Base 2031 + Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Name	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	J6 Ashford Road/Faversham Road	✓	100.000	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	2.85	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)	Run automatically
D6	Base 2031 + Dev	PM	ONE HOUR	16:30	18:00	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	565.00	100.000
B		ONE HOUR	✓	149.00	100.000
C		ONE HOUR	✓	776.00	100.000
D		ONE HOUR	✓	77.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0.000	45.000	473.000	47.000
	B	52.000	0.000	50.000	47.000
	C	656.000	51.000	0.000	69.000
	D	27.000	20.000	30.000	0.000

Proportions

		To			
		A	B	C	D
From	A	0.00	0.08	0.84	0.08
	B	0.35	0.00	0.34	0.32
	C	0.85	0.07	0.00	0.09
	D	0.35	0.26	0.39	0.00

Vehicle Mix

Heavy Vehicle proportion

		To			
		A	B	C	D
From	A	0	0	4	0
	B	0	0	0	0
	C	2	0	0	0
	D	0	1	0	0

Average PCU Per Veh

		To			
		A	B	C	D
From	A	1.000	1.000	1.040	1.000
	B	1.000	1.000	1.000	1.000
	C	1.020	1.000	1.000	1.000
	D	1.000	1.010	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:30-16:45	A	425.36	425.36
	B	112.18	112.18
	C	584.21	584.21
	D	57.97	57.97
16:45-17:00	A	507.92	507.92
	B	133.95	133.95
	C	697.61	697.61
	D	69.22	69.22
17:00-17:15	A	622.08	622.08
	B	164.05	164.05
	C	854.39	854.39
	D	84.78	84.78
17:15-17:30	A	622.08	622.08
	B	164.05	164.05
	C	854.39	854.39
	D	84.78	84.78
17:30-17:45	A	507.92	507.92
	B	133.95	133.95
	C	697.61	697.61
	D	69.22	69.22
17:45-18:00	A	425.36	425.36
	B	112.18	112.18
	C	584.21	584.21
	D	57.97	57.97

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.24	12.84	0.3	B	71.12	106.68
B-AD	0.30	19.99	0.4	C	65.60	98.40
A-BCD	0.11	8.61	0.1	A	43.52	65.28
A-B					41.26	61.89
A-C					433.68	650.52
D-AB	0.12	11.11	0.1	B	35.08	52.61
D-BC	0.21	22.25	0.3	C	35.58	53.37
C-ABD	0.10	6.79	0.1	A	46.80	70.20
C-D					63.32	94.97
C-A					601.96	902.94

Main Results for each time segment

Main results: (16:30-16:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	57.28	57.28	14.32	0.00	478.85	0.120	56.74	0.0	0.1	8.519	A
B-AD	54.90	54.90	13.72	0.00	357.53	0.154	54.18	0.0	0.2	11.841	B
A-BCD	35.49	35.49	8.87	0.00	541.42	0.066	35.21	0.0	0.1	7.110	A
A-B	33.87	33.87	8.47	0.00			33.87				
A-C	356.00	356.00	89.00	0.00			356.00				
D-AB	28.42	28.42	7.10	0.00	483.53	0.059	28.17	0.0	0.1	7.924	A
D-BC	29.55	29.55	7.39	0.00	307.52	0.096	29.13	0.0	0.1	12.942	B
C-ABD	38.40	38.40	9.60	0.00	647.96	0.059	38.15	0.0	0.1	5.900	A
C-D	51.95	51.95	12.99	0.00			51.95				
C-A	493.87	493.87	123.47	0.00			493.87				

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	69.25	69.25	17.31	0.00	434.88	0.159	69.04	0.1	0.2	9.836	A
B-AD	64.70	64.70	16.17	0.00	315.56	0.205	64.40	0.2	0.3	14.315	B
A-BCD	42.52	42.52	10.63	0.00	511.06	0.083	42.44	0.1	0.1	7.682	A
A-B	40.43	40.43	10.11	0.00			40.43				
A-C	424.97	424.97	106.24	0.00			424.97				
D-AB	34.21	34.21	8.55	0.00	437.91	0.078	34.12	0.1	0.1	8.938	A
D-BC	35.02	35.02	8.75	0.00	264.31	0.132	34.83	0.1	0.2	15.711	C
C-ABD	45.85	45.85	11.46	0.00	621.96	0.074	45.78	0.1	0.1	6.248	A
C-D	62.03	62.03	15.51	0.00			62.03				
C-A	589.73	589.73	147.43	0.00			589.73				

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	86.77	86.77	21.69	0.00	367.70	0.236	86.30	0.2	0.3	12.771	B
B-AD	77.28	77.28	19.32	0.00	257.39	0.300	76.63	0.3	0.4	19.843	C
A-BCD	52.54	52.54	13.13	0.00	470.94	0.112	52.40	0.1	0.1	8.602	A
A-B	49.48	49.48	12.37	0.00			49.48				
A-C	520.06	520.06	130.01	0.00			520.06				
D-AB	42.58	42.58	10.65	0.00	368.15	0.116	42.40	0.1	0.1	11.078	B
D-BC	42.20	42.20	10.55	0.00	204.51	0.206	41.78	0.2	0.3	22.115	C
C-ABD	56.15	56.15	14.04	0.00	586.13	0.096	56.05	0.1	0.1	6.789	A
C-D	75.97	75.97	18.99	0.00			75.97				
C-A	722.27	722.27	180.57	0.00			722.27				

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	86.82	86.82	21.71	0.00	367.16	0.236	86.81	0.3	0.3	12.841	B
B-AD	77.23	77.23	19.31	0.00	257.20	0.300	77.20	0.4	0.4	19.992	C
A-BCD	52.54	52.54	13.13	0.00	470.96	0.112	52.54	0.1	0.1	8.608	A
A-B	49.48	49.48	12.37	0.00			49.48				
A-C	520.06	520.06	130.01	0.00			520.06				
D-AB	42.60	42.60	10.65	0.00	367.65	0.116	42.60	0.1	0.1	11.107	B
D-BC	42.18	42.18	10.54	0.00	204.23	0.207	42.16	0.3	0.3	22.254	C
C-ABD	56.15	56.15	14.04	0.00	586.07	0.096	56.15	0.1	0.1	6.792	A
C-D	75.97	75.97	18.99	0.00			75.97				
C-A	722.27	722.27	180.57	0.00			722.27				

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	69.30	69.30	17.33	0.00	434.17	0.160	69.76	0.3	0.2	9.890	A
B-AD	64.65	64.65	16.16	0.00	315.30	0.205	65.28	0.4	0.3	14.434	B
A-BCD	42.52	42.52	10.63	0.00	511.11	0.083	42.66	0.1	0.1	7.690	A
A-B	40.43	40.43	10.11	0.00			40.43				
A-C	424.97	424.97	106.24	0.00			424.97				
D-AB	34.22	34.22	8.56	0.00	437.33	0.078	34.40	0.1	0.1	8.966	A
D-BC	35.00	35.00	8.75	0.00	263.92	0.133	35.40	0.3	0.2	15.816	C
C-ABD	45.85	45.85	11.46	0.00	621.86	0.074	45.95	0.1	0.1	6.253	A
C-D	62.03	62.03	15.51	0.00			62.03				
C-A	589.73	589.73	147.43	0.00			589.73				

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Junction demand (PCU/hr)	Junction Arrivals (PCU)	Bypass demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-CD	57.32	57.32	14.33	0.00	478.17	0.120	57.54	0.2	0.1	8.562	A
B-AD	54.86	54.86	13.71	0.00	357.16	0.154	55.17	0.3	0.2	11.932	B
A-BCD	35.49	35.49	8.87	0.00	541.32	0.066	35.58	0.1	0.1	7.122	A
A-B	33.87	33.87	8.47	0.00			33.87				
A-C	356.00	356.00	89.00	0.00			356.00				
D-AB	28.43	28.43	7.11	0.00	483.00	0.059	28.52	0.1	0.1	7.945	A
D-BC	29.54	29.54	7.39	0.00	307.03	0.096	29.73	0.2	0.1	13.020	B
C-ABD	38.40	38.40	9.60	0.00	647.80	0.059	38.46	0.1	0.1	5.910	A
C-D	51.95	51.95	12.99	0.00			51.95				
C-A	493.87	493.87	123.47	0.00			493.87				