Appendix O
Site Access PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

Filename: 1 Site Access.j10
Path: C:\Users\JamesCorbett\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\1 Site Access
Report generation date: 05/02/2025 10:13:32

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Do Something									
Stream B-AC	D5	0.4	10.21	0.29	B	D6	0.1	8.19	0.08	A
Stream C-AB		0.0	5.72	0.01	A		0.1	5.98	0.07	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	
Location	
Site number	
Date	18/11/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\OscarHodges
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.01	A

Arms

Arms

Arm	Name	Description	Arm type
A	Bosworth Lane (E)		Major
B	Site Access		Minor
C	Bosworth Lane (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00		✓	3.00	200.0	✓	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)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.30	32	24

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	565	0.103	0.260	0.164	0.371
B-C	722	0.111	0.280	-	-
C-B	750	0.291	0.291	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	362	100.000
B		✓	133	100.000
C		✓	193	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	12	350
	B	70	0	63
	C	189	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	0	0	0
	C	4	0	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	273	273
	B	100	100
	C	145	145
08:00-08:15	A	325	325
	B	120	120
	C	174	174
08:15-08:30	A	399	399
	B	146	146
	C	212	212
08:30-08:45	A	399	399
	B	146	146
	C	212	212
08:45-09:00	A	325	325
	B	120	120
	C	174	174
09:00-09:15	A	273	273
	B	100	100
	C	145	145

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.29	10.21	0.4	B
C-AB	0.01	5.72	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	100	541	0.185	99	0.2	8.137	A
C-AB	3	671	0.004	3	0.0	5.391	A
C-A	142			142			
A-B	9			9			
A-C	263			263			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	120	523	0.228	119	0.3	8.903	A
C-AB	4	655	0.005	4	0.0	5.523	A
C-A	170			170			
A-B	11			11			
A-C	315			315			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	146	499	0.293	146	0.4	10.183	B
C-AB	4	634	0.007	4	0.0	5.716	A
C-A	208			208			
A-B	13			13			
A-C	385			385			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	146	499	0.293	146	0.4	10.209	B
C-AB	4	634	0.007	4	0.0	5.716	A
C-A	208			208			
A-B	13			13			
A-C	385			385			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	120	523	0.228	120	0.3	8.935	A
C-AB	4	655	0.005	4	0.0	5.523	A
C-A	170			170			
A-B	11			11			
A-C	315			315			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	100	541	0.185	100	0.2	8.179	A
C-AB	3	671	0.004	3	0.0	5.391	A
C-A	142			142			
A-B	9			9			
A-C	263			263			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.78	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.78	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	333	100.000
B		✓	37	100.000
C		✓	309	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	77	256
	B	23	0	14
	C	271	38	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	1	0	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	251	251
	B	28	28
	C	233	233
17:00-17:15	A	299	299
	B	33	33
	C	278	278
17:15-17:30	A	367	367
	B	41	41
	C	340	340
17:30-17:45	A	367	367
	B	41	41
	C	340	340
17:45-18:00	A	299	299
	B	33	33
	C	278	278
18:00-18:15	A	251	251
	B	28	28
	C	233	233

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.08	8.19	0.1	A
C-AB	0.07	5.98	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	524	0.053	28	0.1	7.253	A
C-AB	29	677	0.042	28	0.0	5.549	A
C-A	204			204			
A-B	58			58			
A-C	193			193			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	506	0.066	33	0.1	7.622	A
C-AB	34	663	0.052	34	0.1	5.725	A
C-A	244			244			
A-B	69			69			
A-C	230			230			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	41	480	0.085	41	0.1	8.188	A
C-AB	42	643	0.065	42	0.1	5.984	A
C-A	298			298			
A-B	85			85			
A-C	282			282			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	41	480	0.085	41	0.1	8.192	A
C-AB	42	643	0.065	42	0.1	5.984	A
C-A	298			298			
A-B	85			85			
A-C	282			282			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	505	0.066	33	0.1	7.628	A
C-AB	34	663	0.052	34	0.1	5.726	A
C-A	244			244			
A-B	69			69			
A-C	230			230			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	524	0.053	28	0.1	7.264	A
C-AB	29	677	0.042	29	0.0	5.554	A
C-A	204			204			
A-B	58			58			
A-C	193			193			

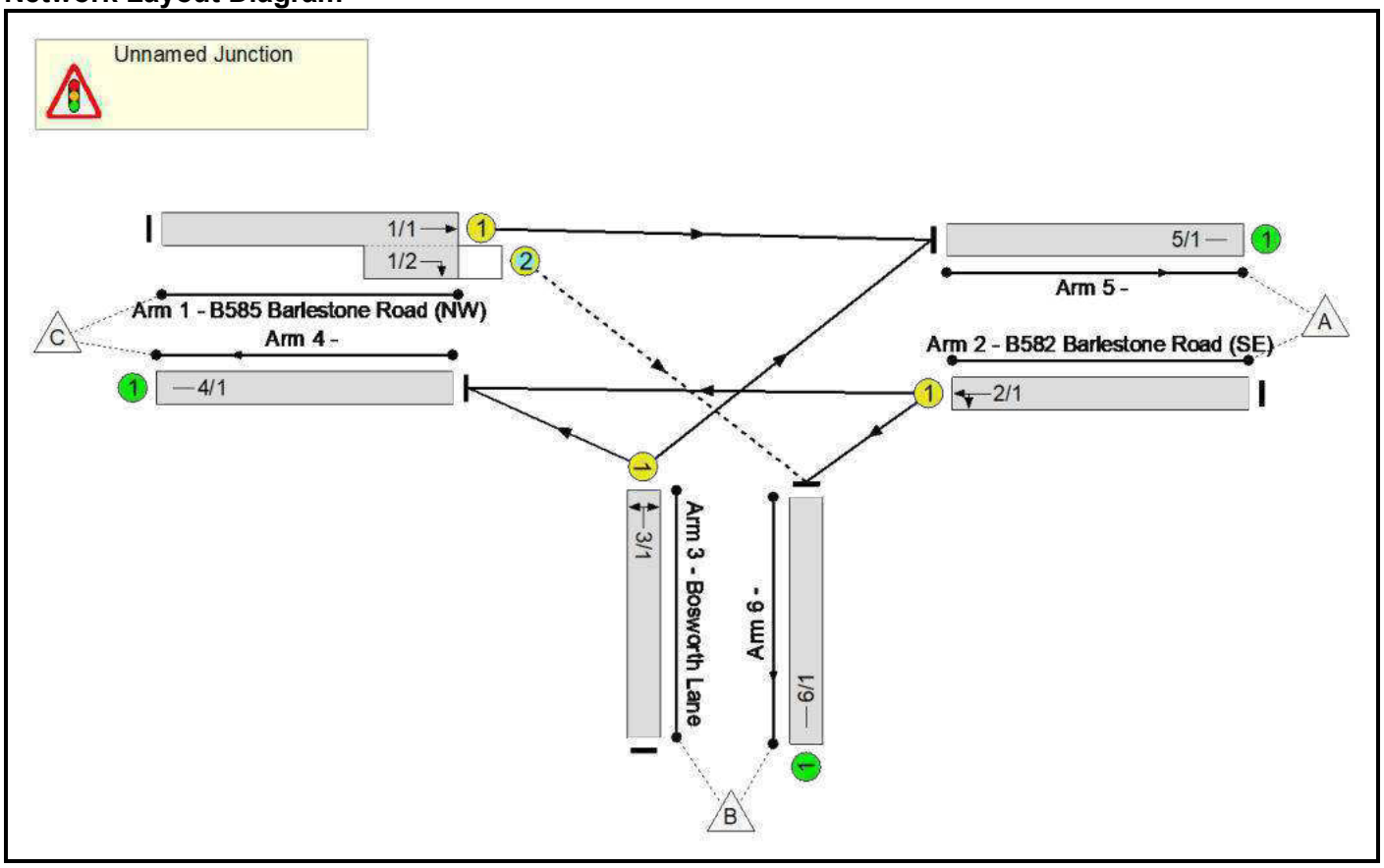
Appendix P
Barlestone Road (B585)/Barlestone Road (B582)/Bosworth Lane (B585) LinSig Outputs

Detailed Input Data And Results

User and Project Details

Project:	**Land off Bosworth Lane, Newbold Verdon**
Title:	Barlestone Road (B585)/Barlestone Road (B582)/Bosworth Lane (B585) Signal Junction Summary Results
Location:	Newbold Verdon
Additional detail:	
File name:	2BARLE~1.LSG
Author:	SB
Company:	TTC
Address:	
Linsig Version:	3, 2, 44, 1

Network Layout Diagram



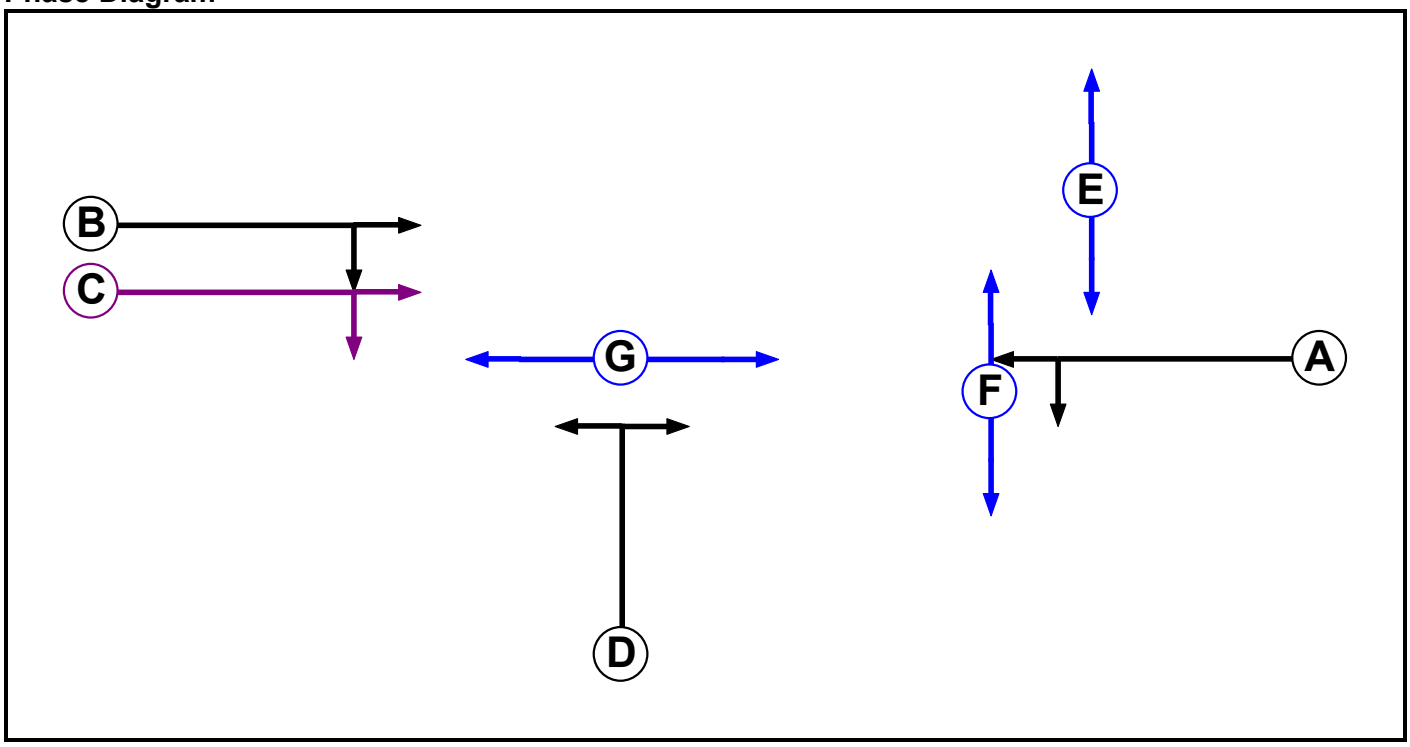
Scenarios

Number	Scenario Name	Flow Group	Network Control Plan	Time	Cycle Time (s)	PRC (%)	Delay (pcuHr)
1	2024 Base AM	2024 Base AM	Network Control Plan 1	08:00 - 09:00	180	50.9	8.37
2	2024 Base PM	2024 Base PM	Network Control Plan 1	17:00 - 18:00	180	52.0	7.98
3	2029 Do Nothing AM	2029 Do Nothing AM	Network Control Plan 1	08:00 - 09:00	180	36.4	10.31
4	2029 Do Nothing PM	2029 Do Nothing PM	Network Control Plan 1	17:00 - 18:00	180	40.6	9.38
5	2029 Do Something AM	2029 Do Something AM	Network Control Plan 1	08:00 - 09:00	180	30.7	11.09
6	2029 Do Something PM	2029 Do Something PM	Network Control Plan 1	17:00 - 18:00	180	37.3	10.14

Controller Summary

Controller	Type	SCN	Stage Stream	Num Phases	Num Stages	Controls Junctions	Controller Notes
C1	Gen		Stage Stream 1	7	4	Unnamed Junction	

Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Ind. Arrow	B	4	4
D	Traffic		7	7
E	Pedestrian		6	6
F	Pedestrian		6	6
G	Pedestrian		6	6

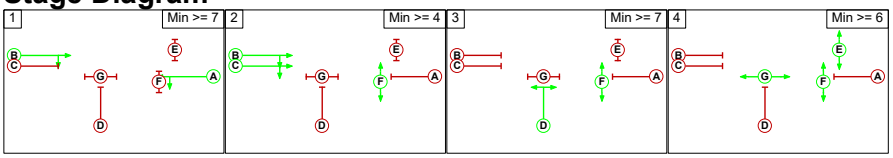
Phase Intergreens Matrix

Terminating Phase \ Starting Phase	A	B	C	D	E	F	G
A		-	6	6	-	6	9
B	-		-	6	9	-	9
C	6	-		6	-	-	9
D	6	6	6		10	-	9
E	-	6	-	6		-	-
F	6	-	-	-	-		-
G	8	8	8	8	-	-	

Phases in Stage

Stage No.	Phases in Stage
1	A B
2	B C F
3	D F
4	E F G

Stage Diagram



Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Prohibited Stage Change

From Stage \ To Stage	1	2	3	4
1		6	6	9
2	6		6	9
3	6	6		10
4	8	8	8	

Lane Input Data

Junction: Unnamed Junction

Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (B585 Barlestone Road (NW))	U	B C	2	3	60.0	Geom	-	3.43	0.00	Y	Arm 5 Ahead	Inf
1/2 (B585 Barlestone Road (NW))	O	B C	2	3	4.3	Geom	-	3.23	0.00	Y	Arm 6 Right	20.50
2/1 (B582 Barlestone Road (SE))	U	A	2	3	60.0	Geom	-	3.96	0.00	Y	Arm 4 Ahead	Inf
											Arm 6 Left	17.00
3/1 (Bosworth Lane)	U	D	2	3	60.0	Geom	-	3.35	0.00	Y	Arm 4 Left	13.80
											Arm 5 Right	22.60
4/1	U		2	3	60.0	Inf	-	-	-	-	-	-
5/1	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1	U		2	3	60.0	Inf	-	-	-	-	-	-

Give-Way Lane Input Data

Junction: Unnamed Junction											
Lane	**Movement**	**Max Flow when Giving Way (PCU/Hr)**	**Min Flow when Giving Way (PCU/Hr)**	**Opposing Lane**	**Opp. Lane Coeff.**	**Opp. Mvmnts.**	**Right Turn Storage (PCU)**	**Non-Blocking Storage (PCU)**	**RTF**	**Right Turn Move up (s)**	**Max Turns in Intergreen (PCU)**
1/2 (B585 Barlestone Road (NW))	6/1 (Right)	1439	0	2/1	1.09	All	2.00	-	0.50	2	2.00

Lane Connector Input Data

Junction: Unnamed Junction				
Org Lane	Dest Lane	Junction	Mean Cruise Time	Platoon Dispersion
1/1	5/1	Internal	5	35
1/2	6/1	Internal	5	35
2/1	4/1	Internal	5	35
2/1	6/1	Internal	5	35
3/1	4/1	Internal	5	35
3/1	5/1	Internal	5	35

Scenario 1: '2024 Base AM' (FG1: '2024 Base AM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	55.1 %	1934	1934
				Arm 6 Left	17.00	44.9 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	24.5 %	1811	1811
				Arm 5 Right	22.60	75.5 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Scenario 2: '2024 Base PM' (FG2: '2024 Base PM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	**Lane Width (m)**	**Gradient**	**Nearside Lane**	**Allowed Turns**	**Turning Radius (m)**	**Turning Prop.**	**Sat Flow (PCU/Hr)**	**Flared Sat Flow (PCU/Hr)**
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	58.0 %	1939	1939
				Arm 6 Left	17.00	42.0 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	25.7 %	1810	1810
				Arm 5 Right	22.60	74.3 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Scenario 3: '2029 Do Nothing AM' (FG3: '2029 Do Nothing AM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	**Lane Width (m)**	**Gradient**	**Nearside Lane**	**Allowed Turns**	**Turning Radius (m)**	**Turning Prop.**	**Sat Flow (PCU/Hr)**	**Flared Sat Flow (PCU/Hr)**
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	55.1 %	1934	1934
				Arm 6 Left	17.00	44.9 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	31.7 %	1806	1806
				Arm 5 Right	22.60	68.3 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Scenario 4: '2029 Do Nothing PM' (FG4: '2029 Do Nothing PM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	**Lane Width (m)**	**Gradient**	**Nearside Lane**	**Allowed Turns**	**Turning Radius (m)**	**Turning Prop.**	**Sat Flow (PCU/Hr)**	**Flared Sat Flow (PCU/Hr)**
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	58.7 %	1940	1940
				Arm 6 Left	17.00	41.3 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	28.4 %	1808	1808
				Arm 5 Right	22.60	71.6 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Scenario 5: '2029 Do Something AM' (FG5: '2029 Do Something AM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	**Lane Width (m)**	**Gradient**	**Nearside Lane**	**Allowed Turns**	**Turning Radius (m)**	**Turning Prop.**	**Sat Flow (PCU/Hr)**	**Flared Sat Flow (PCU/Hr)**
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	56.4 %	1936	1936
				Arm 6 Left	17.00	43.6 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	35.1 %	1804	1804
				Arm 5 Right	22.60	64.9 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Scenario 6: '2029 Do Something PM' (FG6: '2029 Do Something PM', Plan 1: 'Network Control Plan 1')

Lane Saturation Flows

Junction: Unnamed Junction								
Lane	**Lane Width (m)**	**Gradient**	**Nearside Lane**	**Allowed Turns**	**Turning Radius (m)**	**Turning Prop.**	**Sat Flow (PCU/Hr)**	**Flared Sat Flow (PCU/Hr)**
1/1 (B585 Barlestone Road (NW))	3.43	0.00	Y	Arm 5 Ahead	Inf	100.0 %	1958	1958
1/2 (B585 Barlestone Road (NW))	3.23	0.00	Y	Arm 6 Right	20.50	100.0 %	1806	1806
2/1 (B582 Barlestone Road (SE))	3.96	0.00	Y	Arm 4 Ahead	Inf	55.8 %	1936	1936
				Arm 6 Left	17.00	44.2 %		
3/1 (Bosworth Lane)	3.35	0.00	Y	Arm 4 Left	13.80	30.5 %	1807	1807
				Arm 5 Right	22.60	69.5 %		
4/1	Infinite Saturation Flow						Inf	Inf
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times
No Bonus Green Data For This Scenario

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2024 Base AM'	08:00	09:00	01:00	
2: '2024 Base PM'	17:00	18:00	01:00	
3: '2029 Do Nothing AM'	08:00	09:00	01:00	
4: '2029 Do Nothing PM'	17:00	18:00	01:00	
5: '2029 Do Something AM'	08:00	09:00	01:00	
6: '2029 Do Something PM'	17:00	18:00	01:00	

Traffic Flows, Desired
FG1: '2024 Base AM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	196	241	437
	B	240	0	78	318
	C	295	70	0	365
	Tot.	535	266	319	1120

FG2: '2024 Base PM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	206	285	491
	B	197	0	68	265
	C	259	105	0	364
	Tot.	456	311	353	1120

FG3: '2029 Do Nothing AM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	228	280	508
	B	226	0	105	331
	C	363	124	0	487
	Tot.	589	352	385	1326

FG4: '2029 Do Nothing PM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	222	316	538
	B	199	0	79	278
	C	318	145	0	463
	Tot.	517	367	395	1279

FG5: '2029 Do Something AM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	223	288	511
	B	233	0	126	359
	C	356	134	0	490
	Tot.	589	357	414	1360

FG6: '2029 Do Something PM'
Desired Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	246	311	557
	B	196	0	86	282
	C	323	184	0	507
	Tot.	519	430	397	1346

Scenario 1: '2024 Base AM' (FG1: '2024 Base AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	196	241	437
	B	240	0	78	318
	C	295	70	0	365
	Tot.	535	266	319	1120

Traffic Flows, Difference

Difference :

		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Scenario 2: '2024 Base PM' (FG2: '2024 Base PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	206	285	491
	B	197	0	68	265
	C	259	105	0	364
	Tot.	456	311	353	1120

Traffic Flows, Difference

Difference :

		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Scenario 3: '2029 Do Nothing AM' (FG3: '2029 Do Nothing AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	228	280	508
	B	226	0	105	331
	C	363	124	0	487
	Tot.	589	352	385	1326

Traffic Flows, Difference

Difference :

		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Scenario 4: '2029 Do Nothing PM' (FG4: '2029 Do Nothing PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	222	316	538
	B	199	0	79	278
	C	318	145	0	463
	Tot.	517	367	395	1279

Traffic Flows, Difference

Difference :

		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Scenario 5: '2029 Do Something AM' (FG5: '2029 Do Something AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	223	288	511
	B	233	0	126	359
	C	356	134	0	490
	Tot.	589	357	414	1360

Traffic Flows, Difference

Difference :

		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Scenario 6: '2029 Do Something PM' (FG6: '2029 Do Something PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Actual

Actual Flow :

		Destination			
		A	B	C	Tot.
Origin	A	0	246	311	557
	B	196	0	86	282
	C	323	184	0	507
	Tot.	519	430	397	1346

Traffic Flows, Difference

Difference :

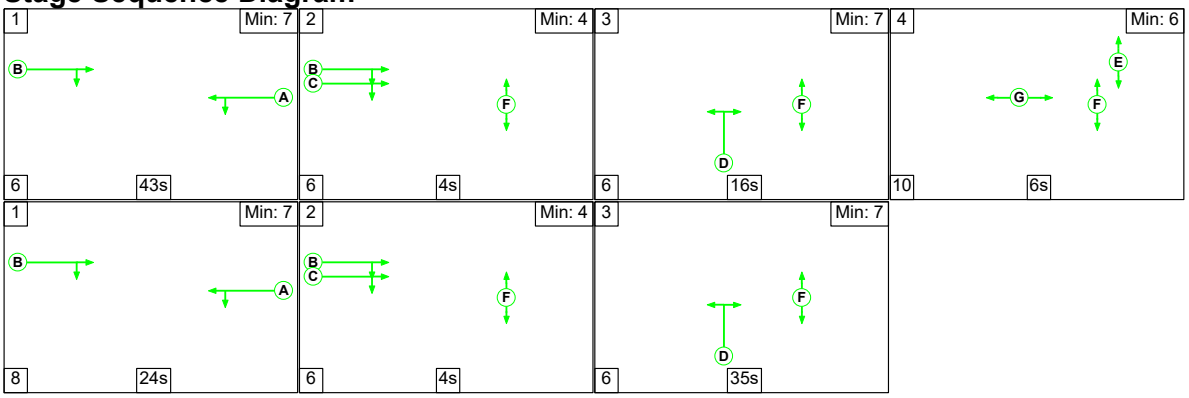
		Destination			
		A	B	C	Tot.
Origin	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	Tot.	0	0	0	0

Traffic Lane Flows

Lane	Scenario 1: 2024 Base AM	Scenario 2: 2024 Base PM	Scenario 3: 2029 Do Nothing AM	Scenario 4: 2029 Do Nothing PM	Scenario 5: 2029 Do Something AM	Scenario 6: 2029 Do Something PM
Junction: Unnamed Junction						
1/1 (with short)	365(In) 295(Out)	364(In) 259(Out)	487(In) 363(Out)	463(In) 318(Out)	490(In) 356(Out)	507(In) 323(Out)
1/2 (short)	70	105	124	145	134	184
2/1	437	491	508	538	511	557
3/1	318	265	331	278	359	282
4/1	319	353	385	395	414	397
5/1	535	456	589	517	589	519
6/1	266	311	352	367	357	430

Scenario 1: '2024 Base AM' (FG1: '2024 Base AM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



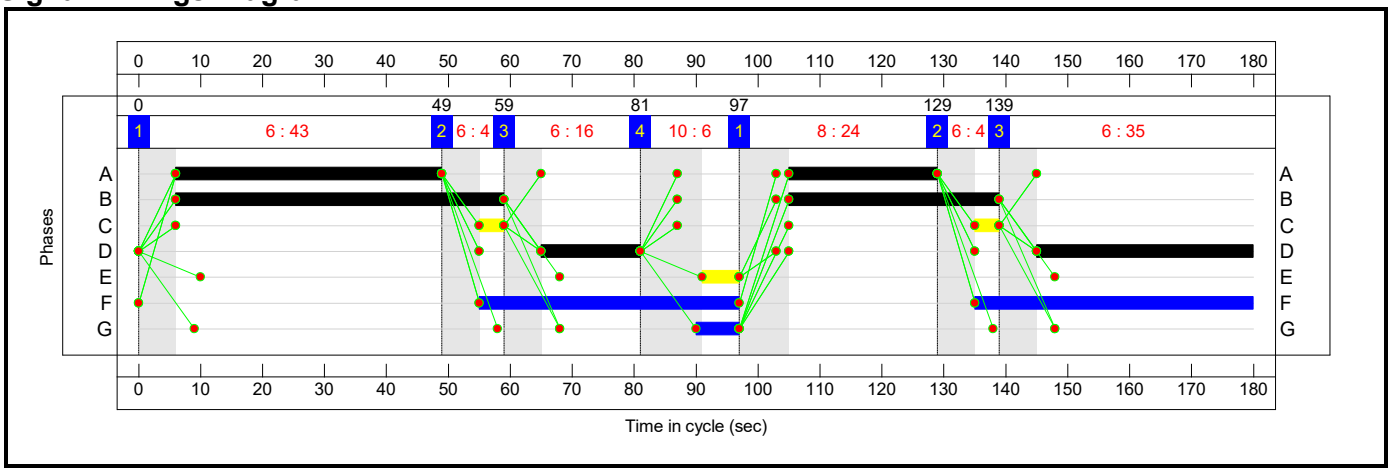
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	43	4	16	6	24	4	35
Change Point	0	49	59	81	97	129	139

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	43	6	49	24	105	129
B	B585 Barlestone Road (NW) Ahead Right	Traffic	53	6	59	34	105	139
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	55	59	4	135	139
D	Bosworth Lane Left Right	Traffic	16	65	81	35	145	0
E	Pedestrians across	Pedestrian	6	91	97			
F	Pedestrians across	Pedestrian	42	55	97	45	135	0
G	Pedestrians across	Pedestrian	7	90	97			

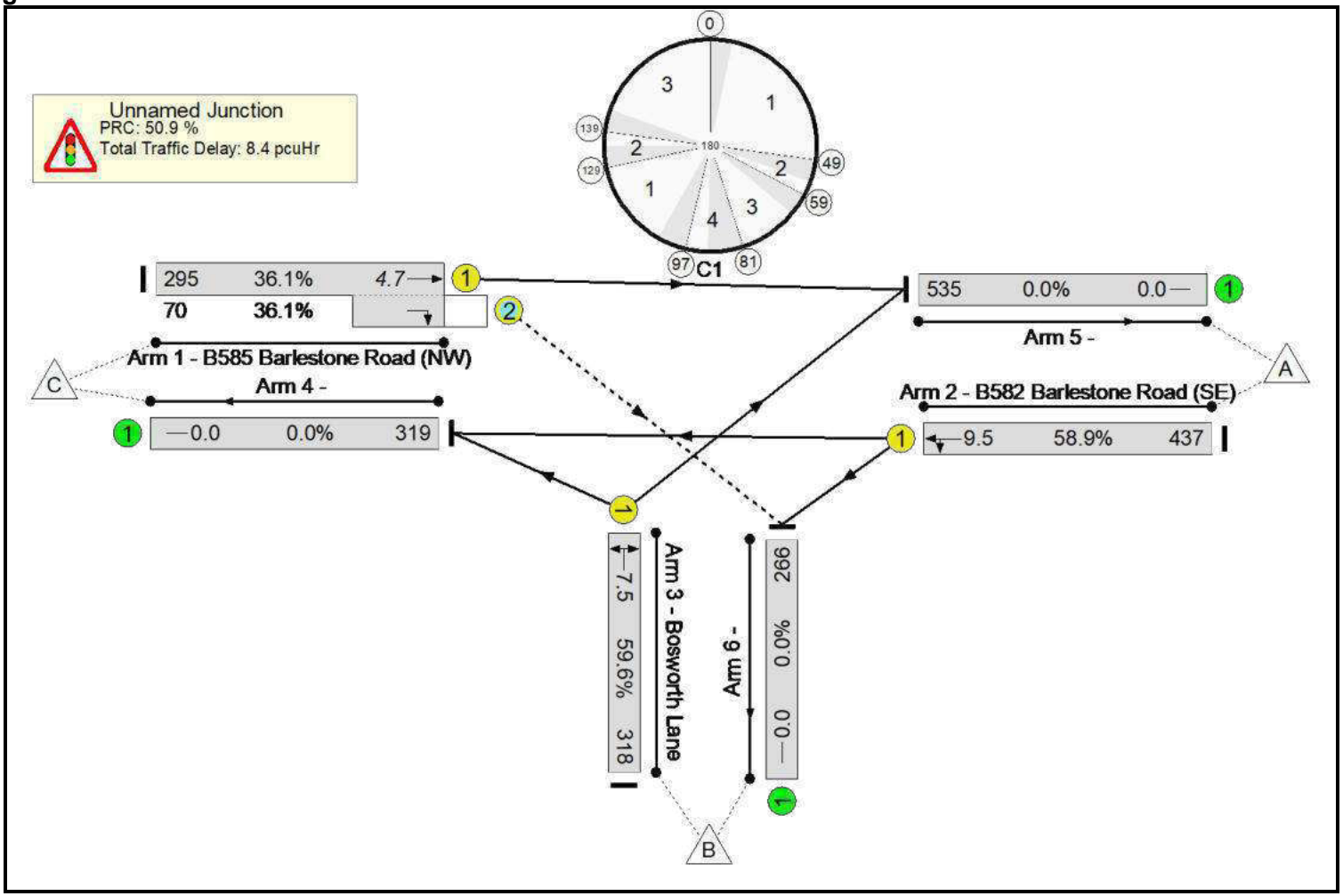
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	59
				105	139
1/2	B585 Barlestone Road (NW) Right	O	B C	6	59
				105	139
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	49
				105	129
3/1	Bosworth Lane Left Right	U	D	65	81
				145	0

Network Layout Diagram



Network Results

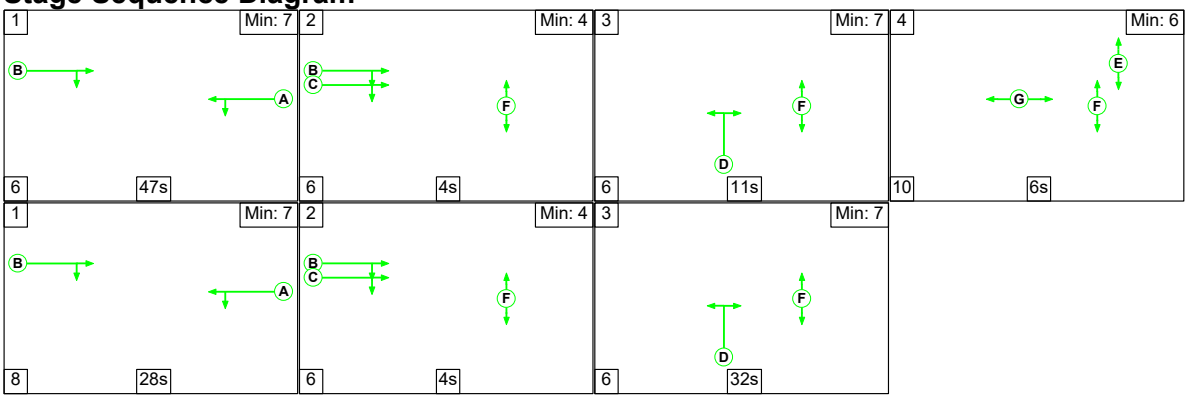
Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59.6%**
Unnamed Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59.6%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	87	8:8	-	365	1958:1806	816+194	36.1 : 36.1%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	67	-	-	437	1934	741	58.9%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	51	-	-	318	1811	533	59.6%
4/1		U	N/A	N/A	-		-	-	-	-	319	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	535	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	266	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	**-**	**-**	**62**	**6**	**2**	**6.4**	**1.7**	**0.2**	**8.4**	**-**	**-**	**-**	**-**	
Unnamed Junction	**-**	**-**	**62**	**6**	**2**	**6.4**	**1.7**	**0.2**	**8.4**	**-**	**-**	**-**	**-**	
1/1+1/2	365	365	62	6	2	1.3	0.3	0.2	1.8	18.1	4.4	0.3	4.7	
2/1	437	437	-	-	-	2.7	0.7	-	3.4	28.0	8.7	0.7	9.5	
3/1	318	318	-	-	-	2.4	0.7	-	3.1	35.5	6.8	0.7	7.5	
4/1	319	319	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	535	535	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	266	266	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 50.9 Total Delay for Signalled Lanes (pcuHr): 8.37 Cycle Time (s): 180
PRC Over All Lanes (%): 50.9 Total Delay Over All Lanes(pcuHr): 8.37

Scenario 2: '2024 Base PM' (FG2: '2024 Base PM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



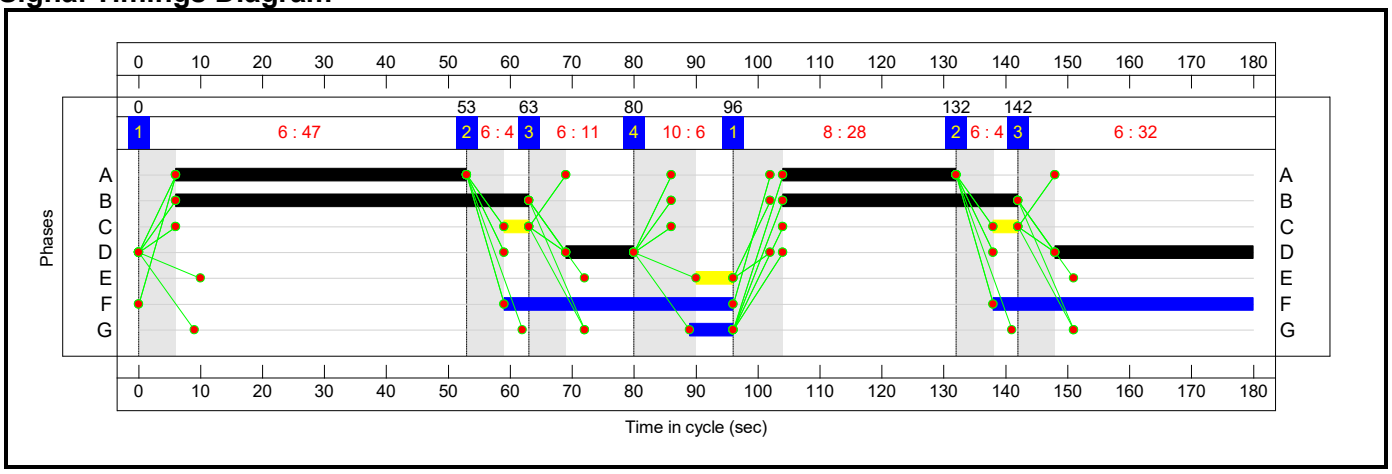
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	47	4	11	6	28	4	32
Change Point	0	53	63	80	96	132	142

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	47	6	53	28	104	132
B	B585 Barlestone Road (NW) Ahead Right	Traffic	57	6	63	38	104	142
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	59	63	4	138	142
D	Bosworth Lane Left Right	Traffic	11	69	80	32	148	0
E	Pedestrians across	Pedestrian	6	90	96			
F	Pedestrians across	Pedestrian	37	59	96	42	138	0
G	Pedestrians across	Pedestrian	7	89	96			

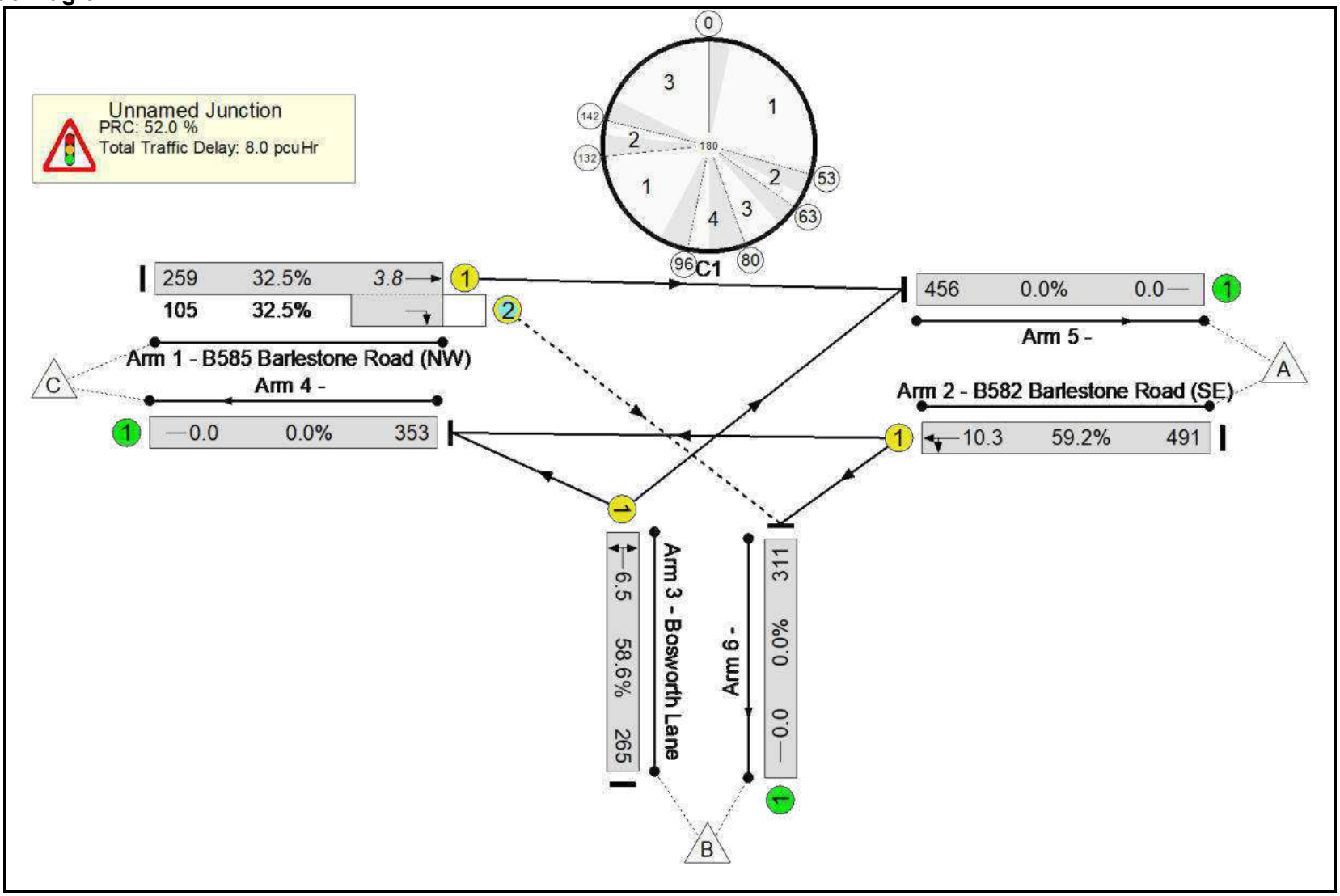
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	63
				104	142
1/2	B585 Barlestone Road (NW) Right	O	B C	6	63
				104	142
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	53
				104	132
3/1	Bosworth Lane Left Right	U	D	69	80
				148	0

Network Layout Diagram



Network Results

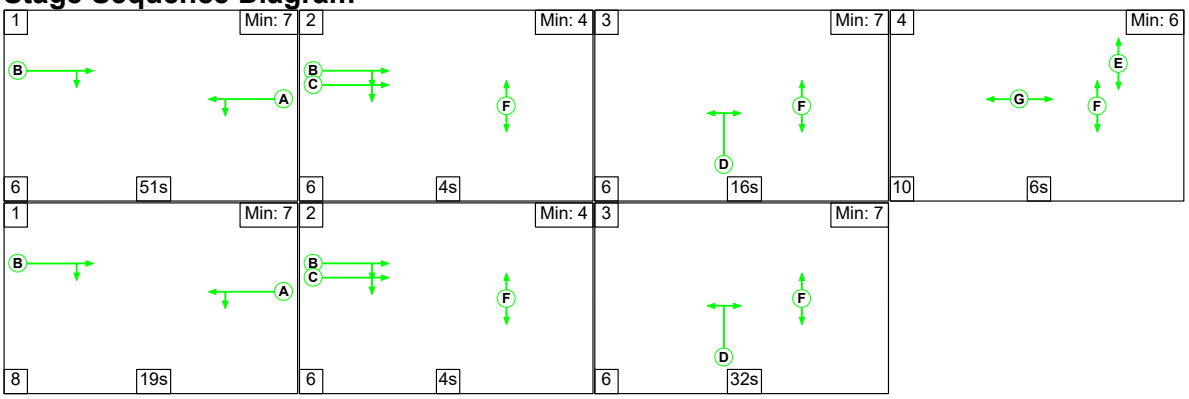
Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59.2%**
Unnamed Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59.2%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	95	8:8	-	364	1958:1806	796+323	32.5 : 32.5%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	75	-	-	491	1939	829	59.2%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	43	-	-	265	1810	453	58.6%
4/1		U	N/A	N/A	-		-	-	-	-	353	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	456	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	311	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	**-**	**-**	**93**	**9**	**2**	**6.0**	**1.7**	**0.3**	**8.0**	**-**	**-**	**-**	**-**	
Unnamed Junction	**-**	**-**	**93**	**9**	**2**	**6.0**	**1.7**	**0.3**	**8.0**	**-**	**-**	**-**	**-**	
1/1+1/2	364	364	93	9	2	1.1	0.2	0.3	1.7	16.6	3.5	0.2	3.8	
2/1	491	491	-	-	-	2.7	0.7	-	3.4	25.0	9.5	0.7	10.3	
3/1	265	265	-	-	-	2.2	0.7	-	2.9	39.2	5.8	0.7	6.5	
4/1	353	353	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	456	456	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	311	311	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 52.0 Total Delay for Signalled Lanes (pcuHr): 7.98 Cycle Time (s): 180
PRC Over All Lanes (%): 52.0 Total Delay Over All Lanes(pcuHr): 7.98

Scenario 3: '2029 Do Nothing AM' (FG3: '2029 Do Nothing AM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



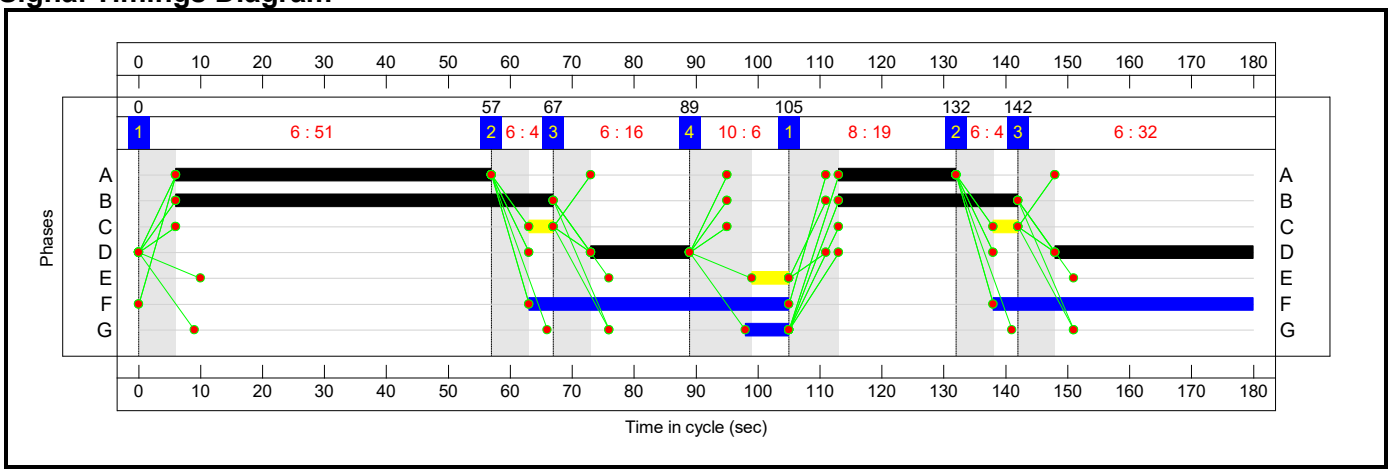
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	51	4	16	6	19	4	32
Change Point	0	57	67	89	105	132	142

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	51	6	57	19	113	132
B	B585 Barlestone Road (NW) Ahead Right	Traffic	61	6	67	29	113	142
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	63	67	4	138	142
D	Bosworth Lane Left Right	Traffic	16	73	89	32	148	0
E	Pedestrians across	Pedestrian	6	99	105			
F	Pedestrians across	Pedestrian	42	63	105	42	138	0
G	Pedestrians across	Pedestrian	7	98	105			

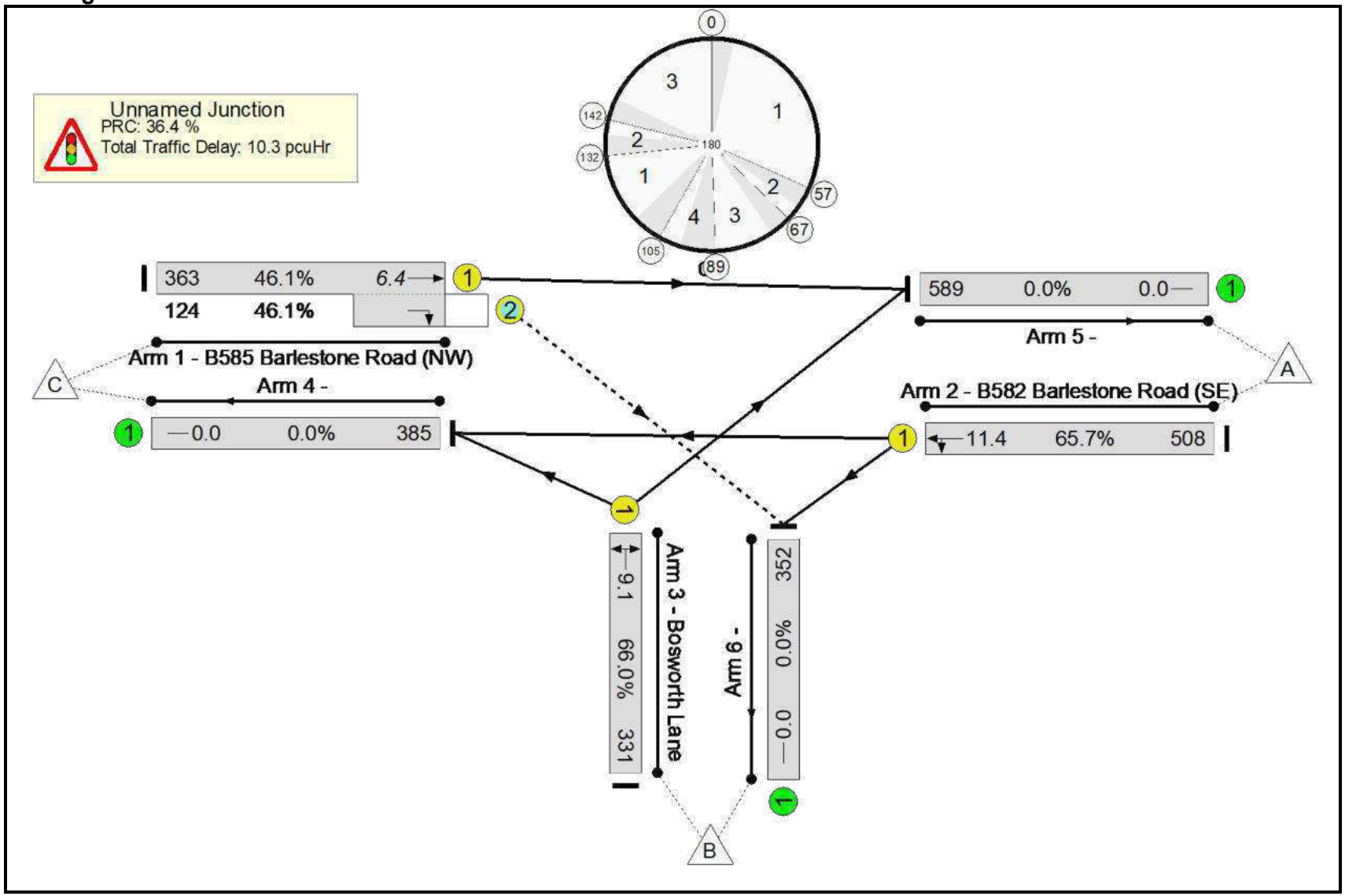
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	67
				113	142
1/2	B585 Barlestone Road (NW) Right	O	B C	6	67
				113	142
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	57
				113	132
3/1	Bosworth Lane Left Right	U	D	73	89
				148	0

Network Layout Diagram



Network Results

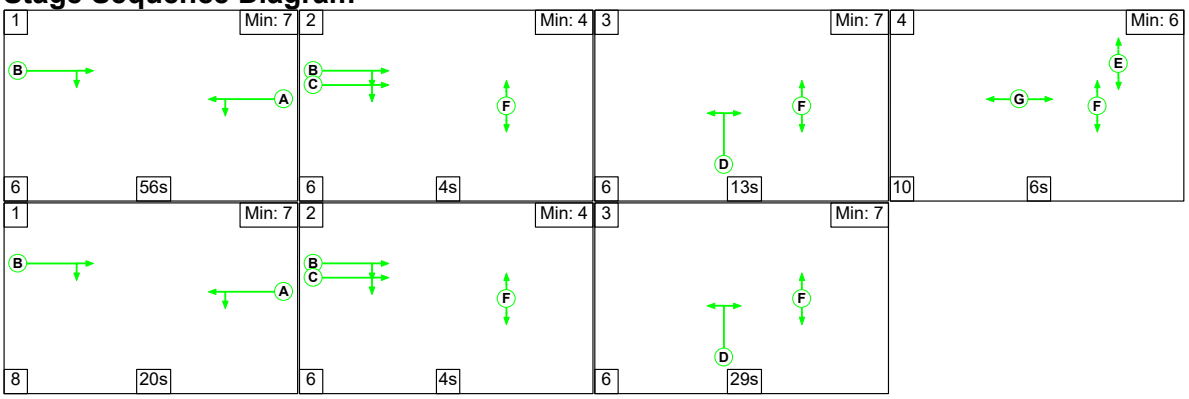
Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**66.0%**
Unnamed Junction	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**66.0%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	90	8:8	-	487	1958:1806	787+269	46.1 : 46.1%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	70	-	-	508	1934	774	65.7%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	48	-	-	331	1806	502	66.0%
4/1		U	N/A	N/A	-		-	-	-	-	385	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	589	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	352	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	-	-	**65**	**56**	**3**	**7.5**	**2.3**	**0.4**	**10.3**	-	-	-	-	
Unnamed Junction	-	-	**65**	**56**	**3**	**7.5**	**2.3**	**0.4**	**10.3**	-	-	-	-	
1/1+1/2	487	487	65	56	3	1.8	0.4	0.4	2.6	19.4	6.0	0.4	6.4	
2/1	508	508	-	-	-	3.1	0.9	-	4.1	28.7	10.4	0.9	11.4	
3/1	331	331	-	-	-	2.7	1.0	-	3.6	39.5	8.1	1.0	9.1	
4/1	385	385	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	589	589	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	352	352	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 36.4 Total Delay for Signalled Lanes (pcuHr): 10.31 Cycle Time (s): 180
PRC Over All Lanes (%): 36.4 Total Delay Over All Lanes(pcuHr): 10.31

Scenario 4: '2029 Do Nothing PM' (FG4: '2029 Do Nothing PM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



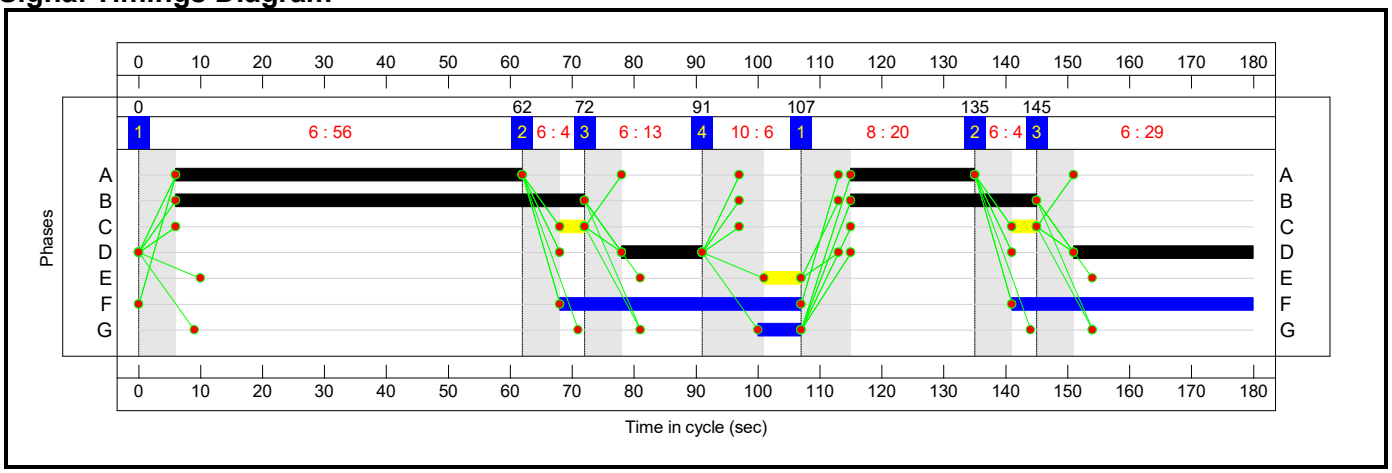
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	56	4	13	6	20	4	29
Change Point	0	62	72	91	107	135	145

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	56	6	62	20	115	135
B	B585 Barlestone Road (NW) Ahead Right	Traffic	66	6	72	30	115	145
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	68	72	4	141	145
D	Bosworth Lane Left Right	Traffic	13	78	91	29	151	0
E	Pedestrians across	Pedestrian	6	101	107			
F	Pedestrians across	Pedestrian	39	68	107	39	141	0
G	Pedestrians across	Pedestrian	7	100	107			

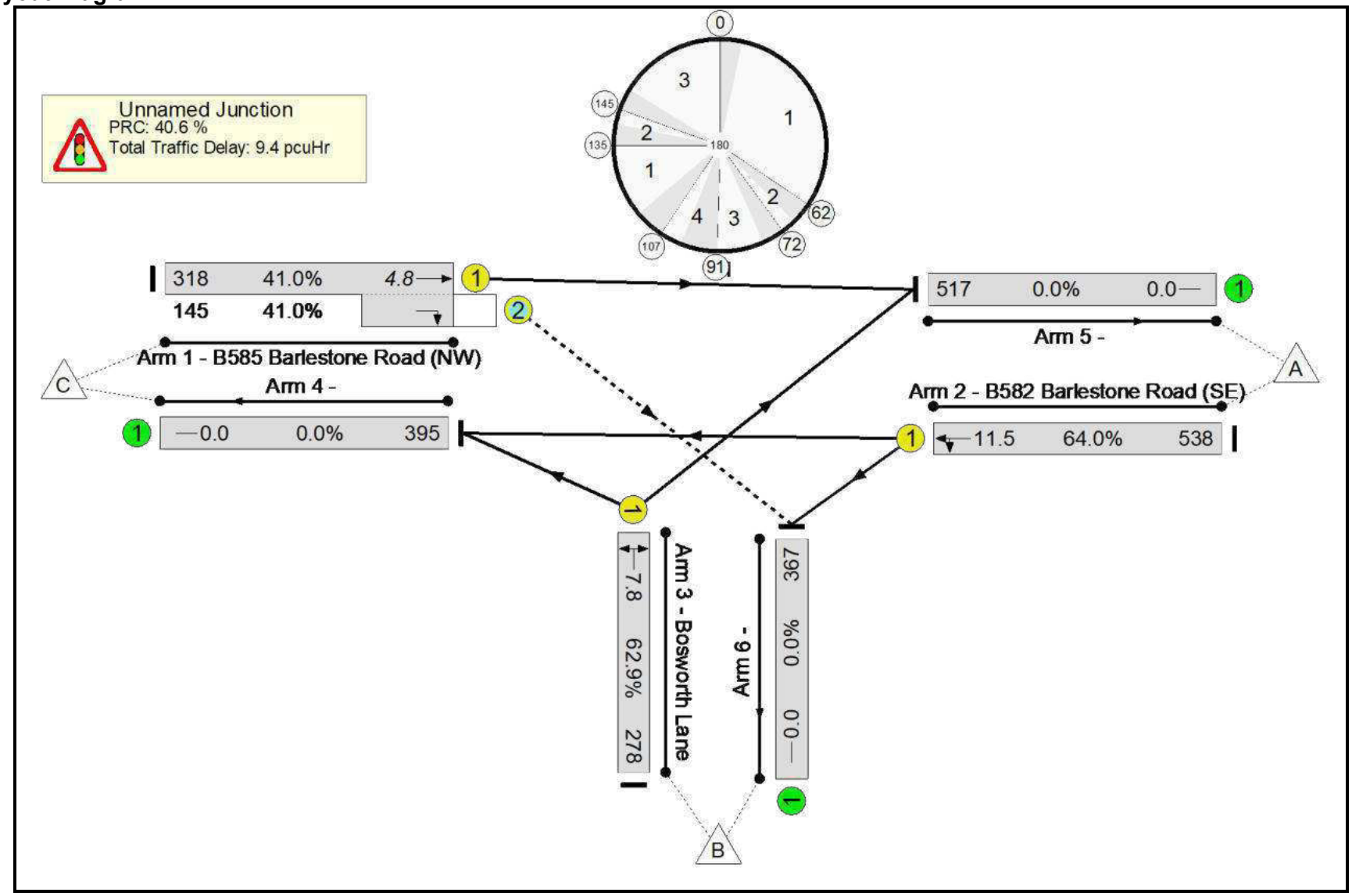
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	72
				115	145
1/2	B585 Barlestone Road (NW) Right	O	B C	6	72
				115	145
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	62
				115	135
3/1	Bosworth Lane Left Right	U	D	78	91
				151	0

Network Layout Diagram



Network Results

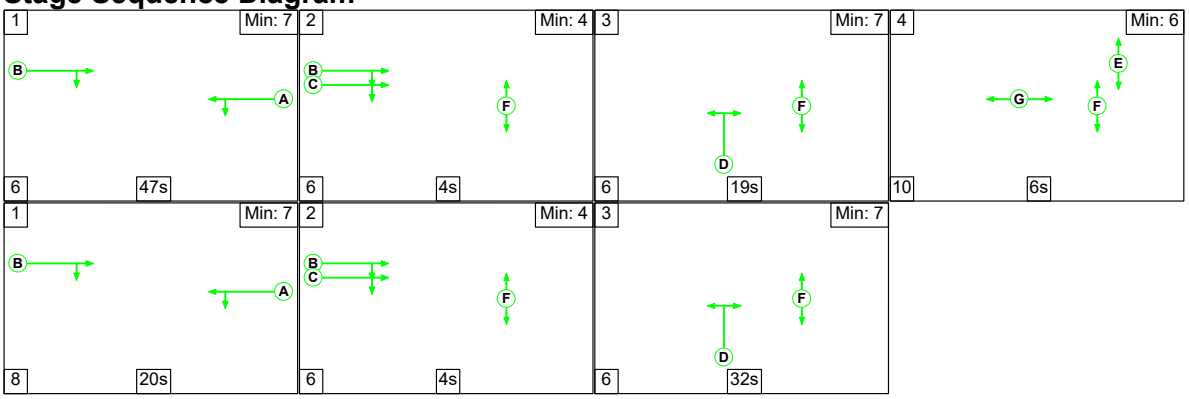
Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**64.0%**
Unnamed Junction	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**64.0%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	96	8:8	-	463	1958:1806	776+354	41.0 : 41.0%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	76	-	-	538	1940	841	64.0%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	42	-	-	278	1808	442	62.9%
4/1		U	N/A	N/A	-		-	-	-	-	395	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	517	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	367	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	-	-	**83**	**59**	**3**	**6.8**	**2.1**	**0.5**	**9.4**	-	-	-	-	
Unnamed Junction	-	-	**83**	**59**	**3**	**6.8**	**2.1**	**0.5**	**9.4**	-	-	-	-	
1/1+1/2	463	463	83	59	3	1.5	0.3	0.5	2.3	17.7	4.4	0.3	4.8	
2/1	538	538	-	-	-	3.0	0.9	-	3.9	25.9	10.6	0.9	11.5	
3/1	278	278	-	-	-	2.4	0.8	-	3.2	41.8	6.9	0.8	7.8	
4/1	395	395	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	517	517	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	367	367	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 40.6 Total Delay for Signalled Lanes (pcuHr): 9.38 Cycle Time (s): 180
PRC Over All Lanes (%): 40.6 Total Delay Over All Lanes(pcuHr): 9.38

Scenario 5: '2029 Do Something AM' (FG5: '2029 Do Something AM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



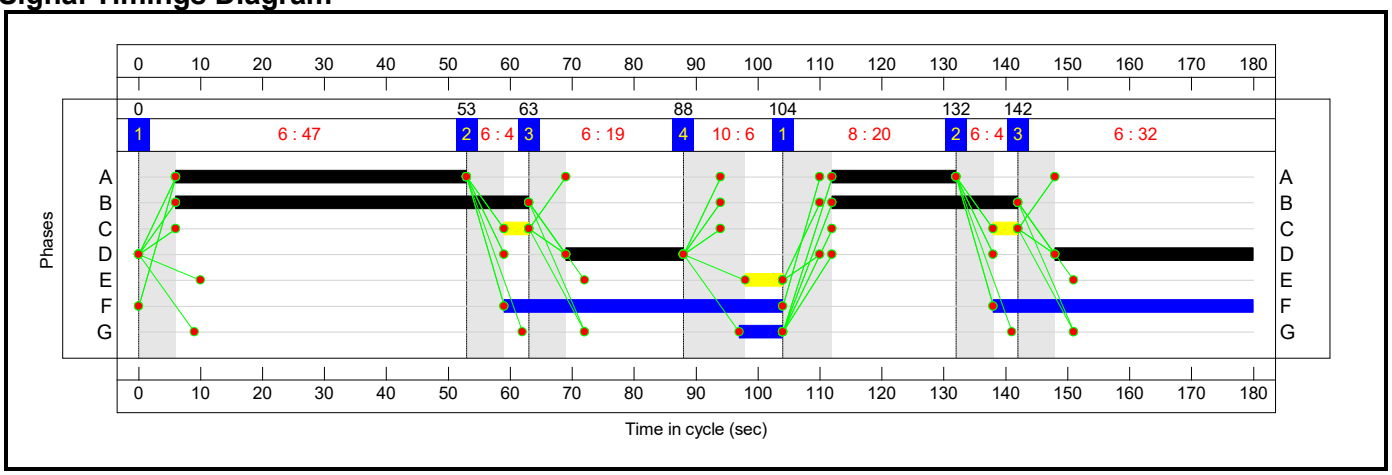
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	47	4	19	6	20	4	32
Change Point	0	53	63	88	104	132	142

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	47	6	53	20	112	132
B	B585 Barlestone Road (NW) Ahead Right	Traffic	57	6	63	30	112	142
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	59	63	4	138	142
D	Bosworth Lane Left Right	Traffic	19	69	88	32	148	0
E	Pedestrians across	Pedestrian	6	98	104			
F	Pedestrians across	Pedestrian	45	59	104	42	138	0
G	Pedestrians across	Pedestrian	7	97	104			

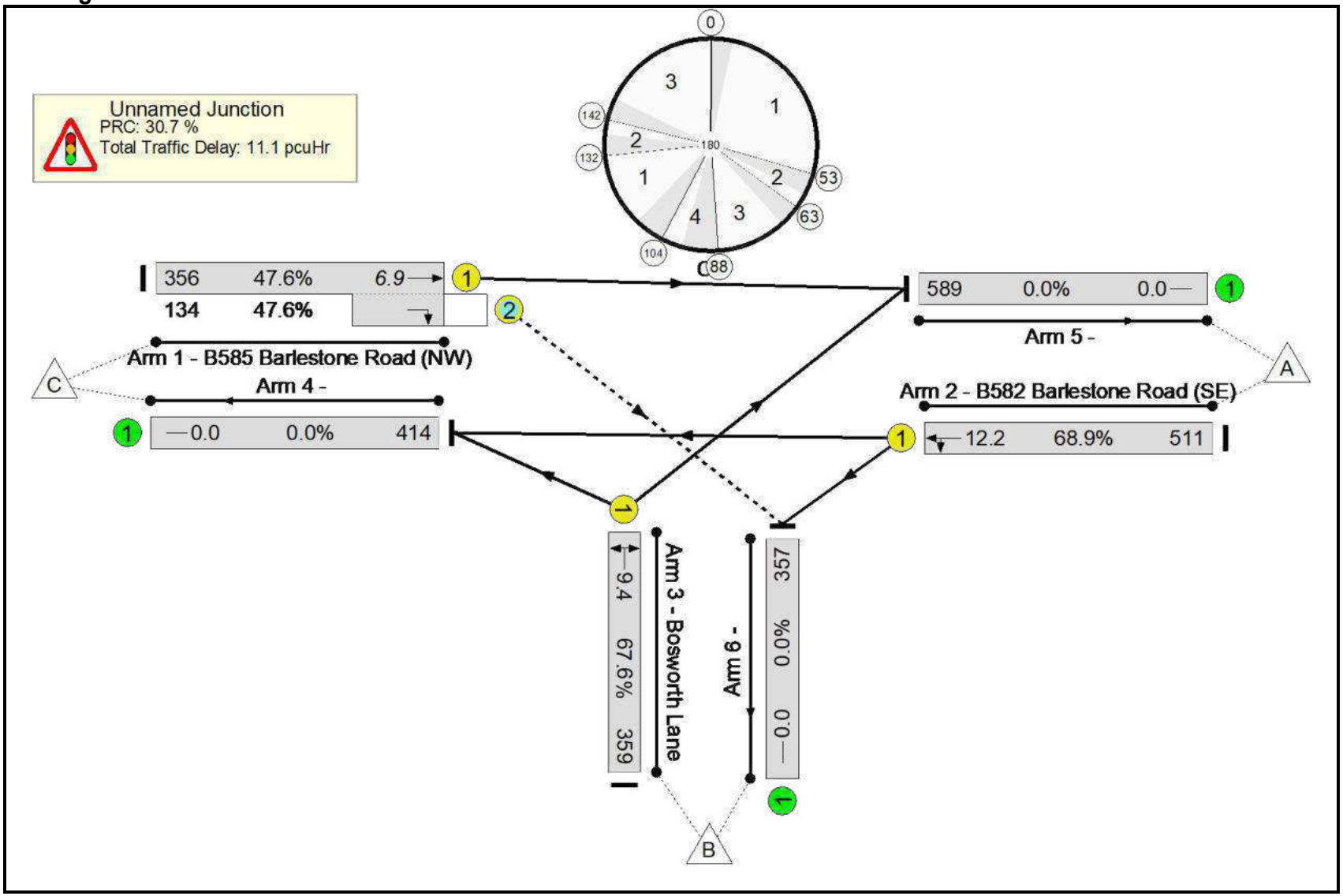
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	63
				112	142
1/2	B585 Barlestone Road (NW) Right	O	B C	6	63
				112	142
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	53
				112	132
3/1	Bosworth Lane Left Right	U	D	69	88
				148	0

Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**68.9%**
Unnamed Junction	-	-	**N/A**	-	-		-	-	-	-	-	-	-	**68.9%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	87	8:8	-	490	1958:1806	748+281	47.6 : 47.6%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	67	-	-	511	1936	742	68.9%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	51	-	-	359	1804	531	67.6%
4/1		U	N/A	N/A	-		-	-	-	-	414	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	589	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	357	Inf	Inf	0.0%

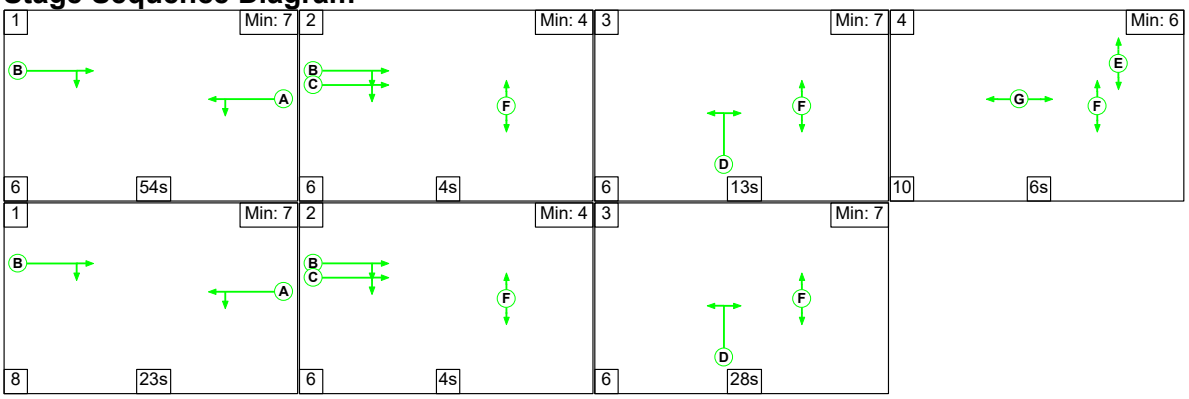
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	-	-	**68**	**63**	**3**	**8.0**	**2.6**	**0.5**	**11.1**	-	-	-	-	
Unnamed Junction	-	-	**68**	**63**	**3**	**8.0**	**2.6**	**0.5**	**11.1**	-	-	-	-	
1/1+1/2	490	490	68	63	3	1.9	0.5	0.5	2.9	20.9	6.4	0.5	6.9	
2/1	511	511	-	-	-	3.3	1.1	-	4.4	31.0	11.1	1.1	12.2	
3/1	359	359	-	-	-	2.8	1.0	-	3.8	38.4	8.4	1.0	9.4	
4/1	414	414	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	589	589	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	357	357	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 30.7 Total Delay for Signalled Lanes (pcuHr): 11.09 Cycle Time (s): 180
PRC Over All Lanes (%): 30.7 Total Delay Over All Lanes(pcuHr): 11.09

Detailed Input Data And Results

Scenario 6: '2029 Do Something PM' (FG6: '2029 Do Something PM', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram



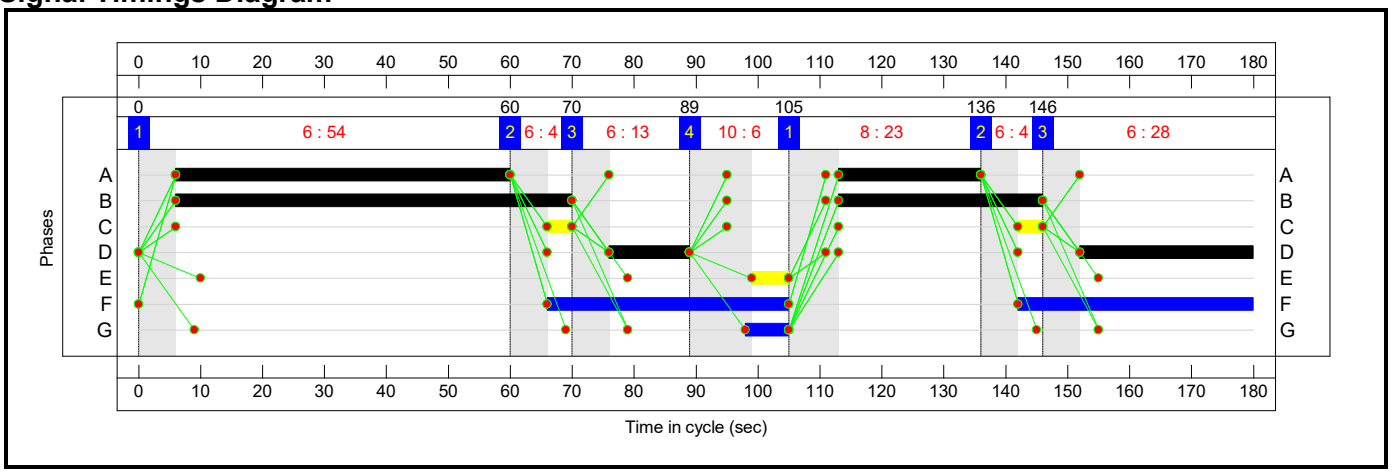
Stage Timings

Stage	1	2	3	4	1	2	3
Duration	54	4	13	6	23	4	28
Change Point	0	60	70	89	105	136	146

Phase Timings

Phase Name	Description	Phase	Green Period 1			Green Period 2		
			Total Green	Start Time	End Time	Total Green	Start Time	End Time
A	B582 Barlestone Road (SE) Ahead Left	Traffic	54	6	60	23	113	136
B	B585 Barlestone Road (NW) Ahead Right	Traffic	64	6	70	33	113	146
C	B585 Barlestone Road (NW) Right IGA	Ind. Arrow	4	66	70	4	142	146
D	Bosworth Lane Left Right	Traffic	13	76	89	28	152	0
E	Pedestrians across	Pedestrian	6	99	105			
F	Pedestrians across	Pedestrian	39	66	105	38	142	0
G	Pedestrians across	Pedestrian	7	98	105			

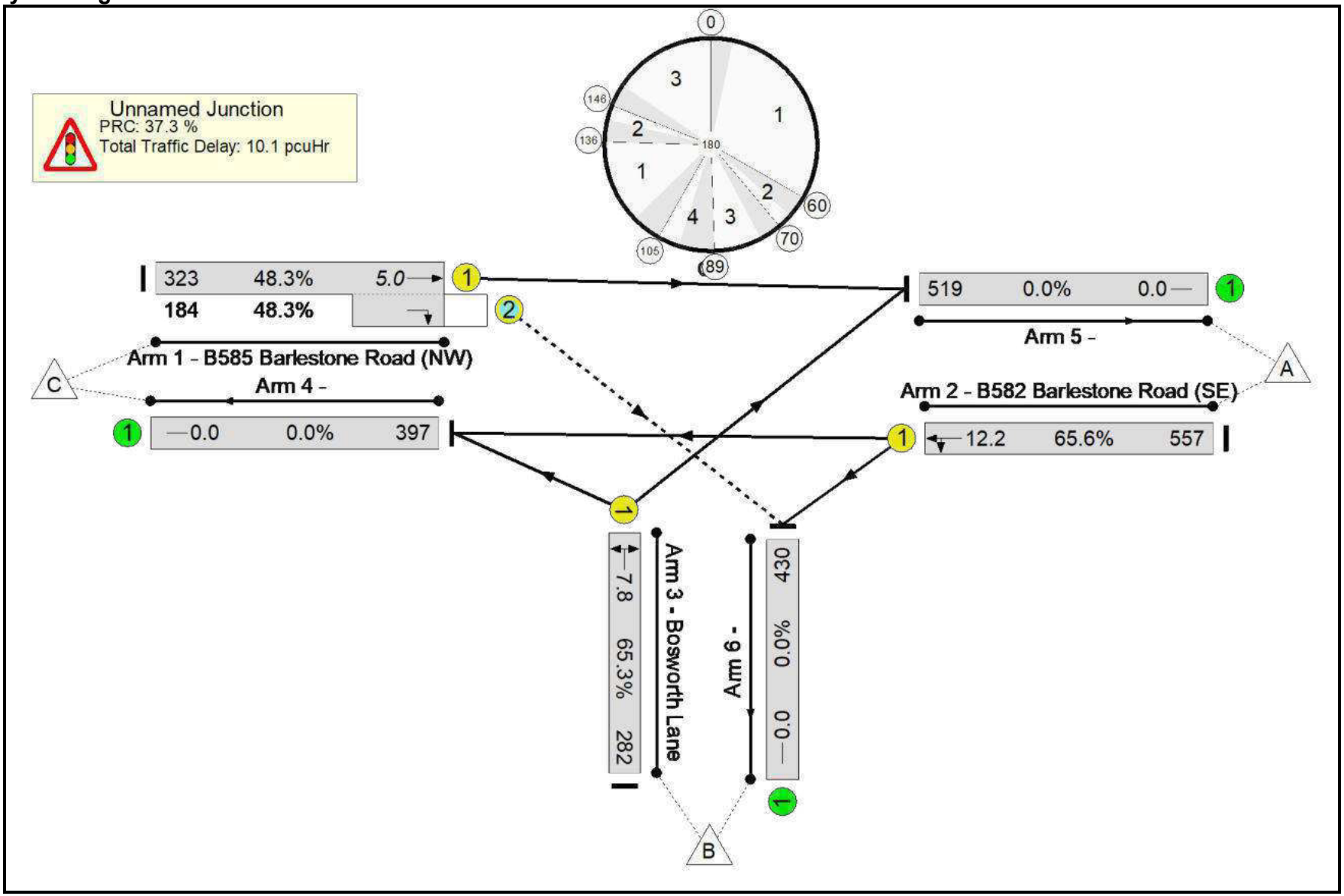
Signal Timings Diagram



Lane Green Times

Junction: Unnamed Junction					
Lane	**Description**	**Type**	**Phases**	**Start Green**	**End Green**
1/1	B585 Barlestone Road (NW) Ahead	U	B C	6	70
				113	146
1/2	B585 Barlestone Road (NW) Right	O	B C	6	70
				113	146
2/1	B582 Barlestone Road (SE) Ahead Left	U	A	6	60
				113	136
3/1	Bosworth Lane Left Right	U	D	76	89
				152	0

Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**65.6%**
Unnamed Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**65.6%**
1/1+1/2	B585 Barlestone Road (NW) Ahead Right	U+O	N/A	N/A	B	C	2	97	8:8	-	507	1958:1806	669+381	48.3 : 48.3%
2/1	B582 Barlestone Road (SE) Ahead Left	U	N/A	N/A	A		2	77	-	-	557	1936	850	65.6%
3/1	Bosworth Lane Left Right	U	N/A	N/A	D		2	41	-	-	282	1807	432	65.3%
4/1		U	N/A	N/A	-		-	-	-	-	397	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	-	519	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	430	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network	**-**	**-**	**110**	**70**	**4**	**7.2**	**2.3**	**0.6**	**10.1**	**-**	**-**	**-**	**-**	
Unnamed Junction	**-**	**-**	**110**	**70**	**4**	**7.2**	**2.3**	**0.6**	**10.1**	**-**	**-**	**-**	**-**	
1/1+1/2	507	507	110	70	4	1.7	0.5	0.6	2.7	19.4	4.6	0.5	5.0	
2/1	557	557	-	-	-	3.1	0.9	-	4.0	26.0	11.3	0.9	12.2	
3/1	282	282	-	-	-	2.4	0.9	-	3.4	43.1	6.9	0.9	7.8	
4/1	397	397	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
5/1	519	519	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	430	430	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	

C1 PRC for Signalled Lanes (%): 37.3 Total Delay for Signalled Lanes (pcuHr): 10.14 Cycle Time (s): 180
PRC Over All Lanes (%): 37.3 Total Delay Over All Lanes(pcuHr): 10.14

Appendix Q
Barlestone Road (B585)/Bagworth Road PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

For sales and distribution information, program advice and maintenance, contact TRL Software:
+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

Filename: 3 Barlestone Road B585 - Bagworth Road B585.j10
Path: C:\Users\JamesCorbett\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\3 Barlestone Road B585 - Bagworth Road B585
Report generation date: 05/02/2025 11:21:32

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-C	D1	0.5	8.76	0.34	A	D2	0.8	9.98	0.43	A
Stream B-A		0.0	10.10	0.04	B		0.1	9.67	0.08	A
Stream C-AB		0.6	7.85	0.35	A		0.7	7.38	0.37	A
	2029 Do Nothing									
Stream B-C	D3	1.1	12.33	0.53	B	D4	1.4	13.54	0.58	B
Stream B-A		0.1	10.93	0.05	B		0.1	10.32	0.09	B
Stream C-AB		1.0	9.55	0.47	A		1.0	8.45	0.45	A
	2029 Do Something									
Stream B-C	D5	1.1	12.41	0.53	B	D6	1.7	15.78	0.64	C
Stream B-A		0.1	11.36	0.05	B		0.1	10.48	0.09	B
Stream C-AB		1.3	10.66	0.53	B		1.0	8.66	0.46	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	
Location	
Site number	
Date	23/10/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\SamBarber
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.96	A

Arms

Arms

Arm	Name	Description	Arm type
A	Barlestone Road (N)		Major
B	Bagworth Road		Minor
C	Barlestone Road (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00			250.0	✓	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 (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B	Two lanes	3.10	2.76	110	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	551	0.100	0.254	0.159	0.362
B-C	694	0.106	0.269	-	-
C-B	719	0.278	0.278	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	207	100.000
B		✓	207	100.000
C		✓	317	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	25	182
	B	15	0	192
	C	126	191	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	14	3
	B	7	0	2
	C	4	6	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	156	156
	B	156	156
	C	239	239
08:00-08:15	A	186	186
	B	186	186
	C	285	285
08:15-08:30	A	228	228
	B	228	228
	C	349	349
08:30-08:45	A	228	228
	B	228	228
	C	349	349
08:45-09:00	A	186	186
	B	186	186
	C	285	285
09:00-09:15	A	156	156
	B	156	156
	C	239	239

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.34	8.76	0.5	A
B-A	0.04	10.10	0.0	B
C-AB	0.35	7.85	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	145	651	0.222	143	0.3	7.221	A
B-A	11	447	0.025	11	0.0	8.840	A
C-AB	165	735	0.225	164	0.3	6.657	A
C-A	74			74			
A-B	19			19			
A-C	137			137			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	173	642	0.269	172	0.4	7.807	A
B-A	13	426	0.032	13	0.0	9.332	A
C-AB	203	738	0.275	203	0.4	7.103	A
C-A	82			82			
A-B	22			22			
A-C	164			164			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	211	630	0.335	211	0.5	8.742	A
B-A	17	398	0.041	16	0.0	10.089	B
C-AB	259	744	0.348	258	0.6	7.832	A
C-A	90			90			
A-B	28			28			
A-C	200			200			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	211	630	0.335	211	0.5	8.765	A
B-A	17	398	0.042	17	0.0	10.097	B
C-AB	259	744	0.348	259	0.6	7.852	A
C-A	90			90			
A-B	28			28			
A-C	200			200			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	173	642	0.269	173	0.4	7.836	A
B-A	13	426	0.032	14	0.0	9.344	A
C-AB	203	739	0.275	204	0.5	7.128	A
C-A	82			82			
A-B	22			22			
A-C	164			164			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	145	651	0.222	145	0.3	7.263	A
B-A	11	446	0.025	11	0.0	8.857	A
C-AB	165	735	0.225	166	0.3	6.698	A
C-A	73			73			
A-B	19			19			
A-C	137			137			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.96	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	133	100.000
B		✓	279	100.000
C		✓	368	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	9	124
	B	29	0	250
	C	165	203	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	100	100
	B	210	210
	C	277	277
17:00-17:15	A	120	120
	B	251	251
	C	331	331
17:15-17:30	A	146	146
	B	307	307
	C	405	405
17:30-17:45	A	146	146
	B	307	307
	C	405	405
17:45-18:00	A	120	120
	B	251	251
	C	331	331
18:00-18:15	A	100	100
	B	210	210
	C	277	277

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.43	9.98	0.8	A
B-A	0.08	9.67	0.1	A
C-AB	0.37	7.38	0.7	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	188	660	0.285	187	0.4	7.733	A
B-A	22	451	0.048	22	0.1	8.378	A
C-AB	182	767	0.238	181	0.4	6.292	A
C-A	95			95			
A-B	7			7			
A-C	93			93			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	225	653	0.344	224	0.5	8.556	A
B-A	26	431	0.060	26	0.1	8.880	A
C-AB	226	777	0.290	225	0.5	6.691	A
C-A	105			105			
A-B	8			8			
A-C	111			111			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	275	643	0.428	274	0.7	9.936	A
B-A	32	405	0.079	32	0.1	9.658	A
C-AB	291	791	0.367	290	0.7	7.361	A
C-A	115			115			
A-B	10			10			
A-C	137			137			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	275	643	0.428	275	0.8	9.984	A
B-A	32	404	0.079	32	0.1	9.668	A
C-AB	291	792	0.367	291	0.7	7.384	A
C-A	114			114			
A-B	10			10			
A-C	137			137			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	225	653	0.344	226	0.5	8.614	A
B-A	26	431	0.060	26	0.1	8.894	A
C-AB	226	778	0.291	227	0.5	6.718	A
C-A	105			105			
A-B	8			8			
A-C	111			111			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	188	660	0.285	189	0.4	7.804	A
B-A	22	451	0.048	22	0.1	8.399	A
C-AB	183	768	0.238	183	0.4	6.329	A
C-A	94			94			
A-B	7			7			
A-C	93			93			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.40	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.40	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	220	100.000
B		✓	317	100.000
C		✓	384	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	26	194
	B	17	0	300
	C	128	256	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	12	3
	B	6	0	1
	C	4	4	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	166	166
	B	239	239
	C	289	289
08:00-08:15	A	198	198
	B	285	285
	C	345	345
08:15-08:30	A	242	242
	B	349	349
	C	423	423
08:30-08:45	A	242	242
	B	349	349
	C	423	423
08:45-09:00	A	198	198
	B	285	285
	C	345	345
09:00-09:15	A	166	166
	B	239	239
	C	289	289

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.53	12.33	1.1	B
B-A	0.05	10.93	0.1	B
C-AB	0.47	9.55	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	226	648	0.349	224	0.5	8.538	A
B-A	13	427	0.030	13	0.0	9.218	A
C-AB	222	733	0.303	220	0.5	7.276	A
C-A	67			67			
A-B	20			20			
A-C	146			146			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	270	638	0.423	269	0.7	9.826	A
B-A	15	402	0.038	15	0.0	9.873	A
C-AB	273	736	0.371	272	0.7	8.063	A
C-A	72			72			
A-B	23			23			
A-C	174			174			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	330	625	0.528	329	1.1	12.204	B
B-A	19	368	0.051	19	0.1	10.916	B
C-AB	349	741	0.470	347	1.0	9.483	A
C-A	74			74			
A-B	29			29			
A-C	214			214			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	330	625	0.528	330	1.1	12.327	B
B-A	19	368	0.051	19	0.1	10.932	B
C-AB	349	742	0.470	349	1.0	9.550	A
C-A	74			74			
A-B	29			29			
A-C	214			214			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	270	638	0.423	271	0.8	9.945	A
B-A	15	401	0.038	15	0.0	9.894	A
C-AB	273	737	0.371	275	0.7	8.138	A
C-A	72			72			
A-B	23			23			
A-C	174			174			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	226	647	0.349	227	0.5	8.659	A
B-A	13	426	0.030	13	0.0	9.245	A
C-AB	222	733	0.303	223	0.5	7.356	A
C-A	67			67			
A-B	20			20			
A-C	146			146			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		8.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	148	100.000
B		✓	366	100.000
C		✓	410	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	138
	B	31	0	335
	C	164	246	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	111	111
	B	276	276
	C	309	309
17:00-17:15	A	133	133
	B	329	329
	C	369	369
17:15-17:30	A	163	163
	B	403	403
	C	451	451
17:30-17:45	A	163	163
	B	403	403
	C	451	451
17:45-18:00	A	133	133
	B	329	329
	C	369	369
18:00-18:15	A	111	111
	B	276	276
	C	309	309

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.58	13.54	1.4	B
B-A	0.09	10.32	0.1	B
C-AB	0.45	8.45	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	252	656	0.384	250	0.6	8.893	A
B-A	23	437	0.053	23	0.1	8.697	A
C-AB	221	764	0.289	219	0.5	6.709	A
C-A	88			88			
A-B	8			8			
A-C	104			104			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	301	648	0.465	300	0.9	10.416	B
B-A	28	414	0.067	28	0.1	9.318	A
C-AB	274	773	0.354	273	0.6	7.324	A
C-A	95			95			
A-B	9			9			
A-C	124			124			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	369	637	0.579	367	1.3	13.356	B
B-A	34	383	0.089	34	0.1	10.302	B
C-AB	352	787	0.448	351	1.0	8.406	A
C-A	99			99			
A-B	11			11			
A-C	152			152			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	369	637	0.579	369	1.4	13.539	B
B-A	34	383	0.089	34	0.1	10.320	B
C-AB	352	787	0.448	352	1.0	8.453	A
C-A	99			99			
A-B	11			11			
A-C	152			152			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	301	648	0.465	303	0.9	10.593	B
B-A	28	413	0.067	28	0.1	9.341	A
C-AB	274	774	0.354	275	0.7	7.375	A
C-A	95			95			
A-B	9			9			
A-C	124			124			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	252	656	0.384	253	0.6	9.051	A
B-A	23	436	0.054	23	0.1	8.728	A
C-AB	221	764	0.290	222	0.5	6.772	A
C-A	87			87			
A-B	8			8			
A-C	104			104			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.94	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.94	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	224	100.000
B		✓	318	100.000
C		✓	413	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	28	196
	B	17	0	301
	C	126	287	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	11	3
	B	6	0	1
	C	4	3	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	169	169
	B	239	239
	C	311	311
08:00-08:15	A	201	201
	B	286	286
	C	371	371
08:15-08:30	A	247	247
	B	350	350
	C	455	455
08:30-08:45	A	247	247
	B	350	350
	C	455	455
08:45-09:00	A	201	201
	B	286	286
	C	371	371
09:00-09:15	A	169	169
	B	239	239
	C	311	311

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.53	12.41	1.1	B
B-A	0.05	11.36	0.1	B
C-AB	0.53	10.66	1.3	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	227	647	0.350	224	0.5	8.565	A
B-A	13	418	0.031	13	0.0	9.417	A
C-AB	248	731	0.340	246	0.6	7.622	A
C-A	63			63			
A-B	21			21			
A-C	148			148			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	271	637	0.425	270	0.7	9.869	A
B-A	15	391	0.039	15	0.0	10.148	B
C-AB	305	734	0.416	305	0.8	8.631	A
C-A	66			66			
A-B	25			25			
A-C	176			176			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	331	624	0.531	330	1.1	12.294	B
B-A	19	355	0.053	19	0.1	11.337	B
C-AB	390	739	0.527	388	1.3	10.552	B
C-A	65			65			
A-B	31			31			
A-C	216			216			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	331	624	0.531	331	1.1	12.415	B
B-A	19	355	0.053	19	0.1	11.358	B
C-AB	390	739	0.528	390	1.3	10.662	B
C-A	65			65			
A-B	31			31			
A-C	216			216			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	271	637	0.425	272	0.8	9.994	A
B-A	15	390	0.039	15	0.0	10.178	B
C-AB	306	735	0.416	308	0.8	8.747	A
C-A	65			65			
A-B	25			25			
A-C	176			176			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	227	647	0.350	227	0.6	8.687	A
B-A	13	417	0.031	13	0.0	9.452	A
C-AB	249	732	0.340	250	0.6	7.729	A
C-A	62			62			
A-B	21			21			
A-C	148			148			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		9.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	162	100.000
B		✓	397	100.000
C		✓	413	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	152
	B	31	0	366
	C	163	250	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	122	122
	B	299	299
	C	311	311
17:00-17:15	A	146	146
	B	357	357
	C	371	371
17:15-17:30	A	178	178
	B	437	437
	C	455	455
17:30-17:45	A	178	178
	B	437	437
	C	455	455
17:45-18:00	A	146	146
	B	357	357
	C	371	371
18:00-18:15	A	122	122
	B	299	299
	C	311	311

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.64	15.78	1.7	C
B-A	0.09	10.48	0.1	B
C-AB	0.46	8.66	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	276	653	0.422	273	0.7	9.484	A
B-A	23	433	0.054	23	0.1	8.775	A
C-AB	224	761	0.295	222	0.5	6.793	A
C-A	87			87			
A-B	8			8			
A-C	114			114			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	329	645	0.510	328	1.0	11.422	B
B-A	28	410	0.068	28	0.1	9.425	A
C-AB	278	770	0.361	277	0.7	7.445	A
C-A	93			93			
A-B	9			9			
A-C	137			137			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	403	633	0.637	400	1.7	15.451	C
B-A	34	378	0.090	34	0.1	10.463	B
C-AB	358	782	0.458	357	1.0	8.606	A
C-A	97			97			
A-B	11			11			
A-C	167			167			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	403	633	0.637	403	1.7	15.782	C
B-A	34	378	0.090	34	0.1	10.481	B
C-AB	358	782	0.458	358	1.0	8.658	A
C-A	97			97			
A-B	11			11			
A-C	167			167			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	329	645	0.510	332	1.1	11.706	B
B-A	28	409	0.068	28	0.1	9.449	A
C-AB	278	770	0.361	280	0.7	7.503	A
C-A	93			93			
A-B	9			9			
A-C	137			137			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	276	653	0.422	277	0.8	9.696	A
B-A	23	432	0.054	23	0.1	8.805	A
C-AB	225	761	0.295	226	0.5	6.858	A
C-A	86			86			
A-B	8			8			
A-C	114			114			

Appendix R
Barlestone Road (B582)/Dragon Lane PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

For sales and distribution information, program advice and maintenance, contact TRL Software:
+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

Filename: 4 Barlestone Road B585 - Dragon Lane.j10
Path: C:\Users\JamesCorbett\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\4 Barlestone Road B585 - Dragon Lane
Report generation date: 05/02/2025 11:43:08

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-C	D1	0.3	9.36	0.22	A	D2	0.2	8.59	0.17	A
Stream B-A		0.2	14.14	0.17	B		0.1	12.87	0.06	B
Stream C-AB		0.6	5.56	0.27	A		0.6	6.36	0.29	A
	2029 Do Nothing									
Stream B-C	D3	0.6	10.94	0.35	B	D4	0.3	9.12	0.24	A
Stream B-A		0.2	15.31	0.18	C		0.1	15.50	0.08	C
Stream C-AB		1.0	6.47	0.38	A		1.0	7.52	0.41	A
	2029 Do Something									
Stream B-C	D5	0.6	10.99	0.36	B	D6	0.3	9.31	0.25	A
Stream B-A		0.2	15.34	0.18	C		0.1	15.73	0.08	C
Stream C-AB		1.0	6.45	0.37	A		1.1	7.58	0.41	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	
Location	
Site number	
Date	23/10/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\SamBarber
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.63	A

Arms

Arms

Arm	Name	Description	Arm type
A	Barlestone Road (S)		Major
B	Dragon Lane		Minor
C	Barlestone Road (N)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00			200.0	✓	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 (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B	Two lanes	2.98	2.36	50	50

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	485	0.085	0.214	0.134	0.305
B-C	654	0.096	0.242	-	-
C-B	690	0.256	0.256	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	358	100.000
B		✓	155	100.000
C		✓	537	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	26	332
	B	46	0	109
	C	433	104	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	4	6
	B	0	0	9
	C	3	3	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	270	270
	B	117	117
	C	404	404
08:00-08:15	A	322	322
	B	139	139
	C	483	483
08:15-08:30	A	394	394
	B	171	171
	C	591	591
08:30-08:45	A	394	394
	B	171	171
	C	591	591
08:45-09:00	A	322	322
	B	139	139
	C	483	483
09:00-09:15	A	270	270
	B	117	117
	C	404	404

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.22	9.36	0.3	A
B-A	0.17	14.14	0.2	B
C-AB	0.27	5.56	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	82	578	0.142	81	0.2	7.898	A
B-A	35	362	0.096	34	0.1	10.953	B
C-AB	128	834	0.154	127	0.3	5.241	A
C-A	276			276			
A-B	20			20			
A-C	250			250			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	98	562	0.174	98	0.2	8.456	A
B-A	41	338	0.122	41	0.1	12.109	B
C-AB	171	866	0.197	170	0.4	5.337	A
C-A	312			312			
A-B	23			23			
A-C	298			298			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	539	0.223	120	0.3	9.340	A
B-A	51	305	0.166	50	0.2	14.109	B
C-AB	242	910	0.265	241	0.6	5.549	A
C-A	350			350			
A-B	29			29			
A-C	366			366			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	539	0.223	120	0.3	9.364	A
B-A	51	305	0.166	51	0.2	14.143	B
C-AB	242	911	0.266	242	0.6	5.561	A
C-A	349			349			
A-B	29			29			
A-C	366			366			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	98	561	0.175	98	0.2	8.479	A
B-A	41	338	0.122	42	0.1	12.148	B
C-AB	171	866	0.197	172	0.4	5.357	A
C-A	312			312			
A-B	23			23			
A-C	298			298			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	82	577	0.142	82	0.2	7.930	A
B-A	35	362	0.096	35	0.1	11.004	B
C-AB	129	835	0.155	130	0.3	5.266	A
C-A	275			275			
A-B	20			20			
A-C	250			250			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.20	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.20	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	430	100.000
B		✓	99	100.000
C		✓	450	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	24	406
	B	17	0	82
	C	333	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	0	0	6
	C	1	5	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	324	324
	B	75	75
	C	339	339
17:00-17:15	A	387	387
	B	89	89
	C	405	405
17:15-17:30	A	473	473
	B	109	109
	C	495	495
17:30-17:45	A	473	473
	B	109	109
	C	495	495
17:45-18:00	A	387	387
	B	89	89
	C	405	405
18:00-18:15	A	324	324
	B	75	75
	C	339	339

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.17	8.59	0.2	A
B-A	0.06	12.87	0.1	B
C-AB	0.29	6.36	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	573	0.108	61	0.1	7.446	A
B-A	13	358	0.036	13	0.0	10.424	B
C-AB	130	773	0.169	129	0.3	5.791	A
C-A	208			208			
A-B	18			18			
A-C	306			306			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	557	0.132	74	0.2	7.892	A
B-A	15	333	0.046	15	0.0	11.334	B
C-AB	170	792	0.214	169	0.4	5.990	A
C-A	235			235			
A-B	22			22			
A-C	365			365			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	535	0.169	90	0.2	8.581	A
B-A	19	299	0.063	19	0.1	12.860	B
C-AB	234	820	0.285	233	0.6	6.347	A
C-A	261			261			
A-B	26			26			
A-C	447			447			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	535	0.169	90	0.2	8.588	A
B-A	19	298	0.063	19	0.1	12.873	B
C-AB	234	820	0.286	234	0.6	6.357	A
C-A	261			261			
A-B	26			26			
A-C	447			447			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	557	0.132	74	0.2	7.902	A
B-A	15	333	0.046	15	0.0	11.352	B
C-AB	170	793	0.214	171	0.4	5.995	A
C-A	235			235			
A-B	22			22			
A-C	365			365			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	573	0.108	62	0.1	7.466	A
B-A	13	357	0.036	13	0.0	10.449	B
C-AB	131	774	0.169	131	0.3	5.814	A
C-A	208			208			
A-B	18			18			
A-C	306			306			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.77	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.77	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	365	100.000
B		✓	220	100.000
C		✓	589	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	27	338
	B	48	0	172
	C	444	145	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	4	6
	B	0	0	5
	C	3	2	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	275	275
	B	166	166
	C	443	443
08:00-08:15	A	328	328
	B	198	198
	C	529	529
08:15-08:30	A	402	402
	B	242	242
	C	649	649
08:30-08:45	A	402	402
	B	242	242
	C	649	649
08:45-09:00	A	328	328
	B	198	198
	C	529	529
09:00-09:15	A	275	275
	B	166	166
	C	443	443

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.35	10.94	0.6	B
B-A	0.18	15.31	0.2	C
C-AB	0.38	6.47	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	129	575	0.225	128	0.3	8.434	A
B-A	36	351	0.103	36	0.1	11.404	B
C-AB	181	839	0.216	180	0.4	5.590	A
C-A	262			262			
A-B	20			20			
A-C	254			254			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	155	559	0.277	154	0.4	9.338	A
B-A	43	324	0.133	43	0.2	12.784	B
C-AB	242	871	0.277	241	0.6	5.860	A
C-A	288			288			
A-B	24			24			
A-C	304			304			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	189	535	0.354	189	0.6	10.892	B
B-A	53	288	0.183	53	0.2	15.256	C
C-AB	344	917	0.375	342	1.0	6.433	A
C-A	305			305			
A-B	30			30			
A-C	372			372			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	189	535	0.354	189	0.6	10.938	B
B-A	53	288	0.184	53	0.2	15.311	C
C-AB	345	918	0.375	345	1.0	6.470	A
C-A	304			304			
A-B	30			30			
A-C	372			372			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	155	558	0.277	155	0.4	9.389	A
B-A	43	324	0.133	43	0.2	12.844	B
C-AB	242	872	0.278	244	0.6	5.905	A
C-A	287			287			
A-B	24			24			
A-C	304			304			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	129	575	0.225	130	0.3	8.501	A
B-A	36	350	0.103	36	0.1	11.470	B
C-AB	182	840	0.217	183	0.4	5.637	A
C-A	261			261			
A-B	20			20			
A-C	254			254			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.18	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	442	100.000
B		✓	135	100.000
C		✓	510	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	26	416
	B	20	0	115
	C	345	165	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	10	0	2
	C	1	2	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	333	333
	B	102	102
	C	384	384
17:00-17:15	A	397	397
	B	121	121
	C	458	458
17:15-17:30	A	487	487
	B	149	149
	C	562	562
17:30-17:45	A	487	487
	B	149	149
	C	562	562
17:45-18:00	A	397	397
	B	121	121
	C	458	458
18:00-18:15	A	333	333
	B	102	102
	C	384	384

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.24	9.12	0.3	A
B-A	0.08	15.50	0.1	C
C-AB	0.41	7.52	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	570	0.152	86	0.2	7.574	A
B-A	15	344	0.044	15	0.0	12.027	B
C-AB	187	777	0.240	185	0.4	6.171	A
C-A	197			197			
A-B	20			20			
A-C	313			313			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	553	0.187	103	0.2	8.157	A
B-A	18	316	0.057	18	0.1	13.282	B
C-AB	244	797	0.306	243	0.6	6.606	A
C-A	215			215			
A-B	23			23			
A-C	374			374			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	127	529	0.239	126	0.3	9.099	A
B-A	22	278	0.079	22	0.1	15.464	C
C-AB	338	827	0.409	336	1.0	7.474	A
C-A	224			224			
A-B	29			29			
A-C	458			458			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	127	529	0.239	127	0.3	9.115	A
B-A	22	278	0.079	22	0.1	15.498	C
C-AB	338	827	0.409	338	1.0	7.516	A
C-A	223			223			
A-B	29			29			
A-C	458			458			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	553	0.187	104	0.2	8.177	A
B-A	18	315	0.057	18	0.1	13.322	B
C-AB	244	798	0.306	246	0.7	6.657	A
C-A	214			214			
A-B	23			23			
A-C	374			374			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	570	0.152	87	0.2	7.603	A
B-A	15	343	0.044	15	0.1	12.072	B
C-AB	187	778	0.241	188	0.5	6.222	A
C-A	197			197			
A-B	20			20			
A-C	313			313			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.76	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.76	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	367	100.000
B		✓	221	100.000
C		✓	590	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	27	340
	B	48	0	173
	C	446	144	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	4	6
	B	0	0	5
	C	3	2	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	276	276
	B	166	166
	C	444	444
08:00-08:15	A	330	330
	B	199	199
	C	530	530
08:15-08:30	A	404	404
	B	243	243
	C	650	650
08:30-08:45	A	404	404
	B	243	243
	C	650	650
08:45-09:00	A	330	330
	B	199	199
	C	530	530
09:00-09:15	A	276	276
	B	166	166
	C	444	444

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.36	10.99	0.6	B
B-A	0.18	15.34	0.2	C
C-AB	0.37	6.45	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	130	575	0.227	129	0.3	8.455	A
B-A	36	351	0.103	36	0.1	11.415	B
C-AB	181	839	0.215	179	0.4	5.577	A
C-A	263			263			
A-B	20			20			
A-C	256			256			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	156	558	0.279	155	0.4	9.366	A
B-A	43	324	0.133	43	0.2	12.800	B
C-AB	241	872	0.276	240	0.6	5.842	A
C-A	290			290			
A-B	24			24			
A-C	306			306			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	190	534	0.356	190	0.6	10.944	B
B-A	53	288	0.184	53	0.2	15.284	C
C-AB	343	918	0.373	341	1.0	6.409	A
C-A	307			307			
A-B	30			30			
A-C	374			374			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	190	534	0.356	190	0.6	10.990	B
B-A	53	288	0.184	53	0.2	15.339	C
C-AB	343	919	0.374	343	1.0	6.446	A
C-A	306			306			
A-B	30			30			
A-C	374			374			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	156	558	0.279	156	0.4	9.421	A
B-A	43	324	0.133	43	0.2	12.860	B
C-AB	241	873	0.277	243	0.6	5.890	A
C-A	289			289			
A-B	24			24			
A-C	306			306			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	130	575	0.227	131	0.3	8.521	A
B-A	36	350	0.103	36	0.1	11.480	B
C-AB	182	840	0.216	182	0.4	5.624	A
C-A	263			263			
A-B	20			20			
A-C	256			256			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	457	100.000
B		✓	139	100.000
C		✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	26	431
	B	20	0	119
	C	347	165	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	10	0	2
	C	1	2	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	344	344
	B	105	105
	C	385	385
17:00-17:15	A	411	411
	B	125	125
	C	460	460
17:15-17:30	A	503	503
	B	153	153
	C	564	564
17:30-17:45	A	503	503
	B	153	153
	C	564	564
17:45-18:00	A	411	411
	B	125	125
	C	460	460
18:00-18:15	A	344	344
	B	105	105
	C	385	385

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.25	9.31	0.3	A
B-A	0.08	15.73	0.1	C
C-AB	0.41	7.58	1.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	567	0.158	89	0.2	7.652	A
B-A	15	341	0.044	15	0.1	12.125	B
C-AB	187	776	0.241	186	0.4	6.192	A
C-A	198			198			
A-B	20			20			
A-C	324			324			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	107	550	0.195	107	0.2	8.283	A
B-A	18	313	0.057	18	0.1	13.423	B
C-AB	245	796	0.308	244	0.6	6.640	A
C-A	215			215			
A-B	23			23			
A-C	387			387			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	131	525	0.249	131	0.3	9.293	A
B-A	22	274	0.080	22	0.1	15.699	C
C-AB	340	825	0.412	338	1.0	7.535	A
C-A	224			224			
A-B	29			29			
A-C	475			475			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	131	525	0.249	131	0.3	9.311	A
B-A	22	274	0.080	22	0.1	15.734	C
C-AB	341	825	0.413	341	1.1	7.581	A
C-A	223			223			
A-B	29			29			
A-C	475			475			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	107	550	0.195	107	0.2	8.308	A
B-A	18	312	0.058	18	0.1	13.462	B
C-AB	246	797	0.308	247	0.7	6.693	A
C-A	215			215			
A-B	23			23			
A-C	387			387			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	567	0.158	90	0.2	7.696	A
B-A	15	341	0.044	15	0.1	12.170	B
C-AB	188	776	0.242	189	0.5	6.248	A
C-A	197			197			
A-B	20			20			
A-C	324			324			

Appendix S
Barlestone Road (B582)/Mill Lane PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

Filename: 5 Barlestone Road B582 - Mill Lane.j10
Path: C:\Users\SamBarber\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\5 Barlestone Road B582 - Mill Lane
Report generation date: 22/01/2025 10:50:19

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-AC	D1	0.2	9.29	0.18	A	D2	0.1	7.77	0.08	A
Stream C-AB		0.1	4.77	0.08	A		0.2	5.38	0.10	A
	2029 Do Nothing									
Stream B-AC	D3	0.2	9.32	0.18	A	D4	0.1	7.88	0.09	A
Stream C-AB		0.1	4.75	0.08	A		0.2	5.39	0.12	A
	2029 Do Something									
Stream B-AC	D5	0.2	9.41	0.18	A	D6	0.1	7.96	0.09	A
Stream C-AB		0.1	4.73	0.08	A		0.2	5.41	0.12	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	
Location	
Site number	
Date	23/10/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\SamBarber
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.13	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.13	A

Arms

Arms

Arm	Name	Description	Arm type
A	Barlestone Road (S)		Major
B	Mill Lane		Minor
C	Barlestone Road (N)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00			105.0	✓	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	3.68	30	60

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	552	0.101	0.254	0.160	0.363
B-C	707	0.108	0.274	-	-
C-B	635	0.246	0.246	-	-

The slopes and intercepts shown above include custom intercept adjustments only.
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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	332	100.000
B		✓	79	100.000
C		✓	473	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	20	312
	B	29	0	50
	C	445	28	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	5	6
	B	4	0	6
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.18	9.29	0.2	A
C-AB	0.08	4.77	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	59	543	0.110	59	0.1	7.824	A
C-AB	36	802	0.045	36	0.1	4.759	A
C-A	320			320			

A-B	15			15			
A-C	235			235			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	71	523	0.136	71	0.2	8.381	A
C-AB	48	837	0.058	48	0.1	4.627	A
C-A	377			377			
A-B	18			18			
A-C	280			280			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	87	495	0.176	87	0.2	9.285	A
C-AB	69	887	0.078	69	0.1	4.471	A
C-A	452			452			
A-B	22			22			
A-C	344			344			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	87	495	0.176	87	0.2	9.294	A
C-AB	69	887	0.078	69	0.1	4.479	A
C-A	452			452			
A-B	22			22			
A-C	344			344			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	71	523	0.136	71	0.2	8.395	A
C-AB	48	837	0.058	49	0.1	4.640	A
C-A	377			377			
A-B	18			18			
A-C	280			280			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	59	543	0.110	60	0.1	7.846	A
C-AB	36	802	0.045	36	0.1	4.768	A
C-A	320			320			
A-B	15			15			
A-C	235			235			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.81	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.81	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	419	100.000
B		✓	38	100.000
C		✓	351	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	19	400
	B	10	0	28
	C	311	40	0

Vehicle Mix

Heavy Vehicle Percentages

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

	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.08	7.77	0.1	A
C-AB	0.10	5.38	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	29	555	0.052	28	0.1	6.831	A
C-AB	45	719	0.062	44	0.1	5.372	A
C-A	220			220			
A-B	14			14			
A-C	301			301			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	34	534	0.064	34	0.1	7.195	A
C-AB	58	738	0.079	58	0.1	5.335	A
C-A	257			257			
A-B	17			17			
A-C	360			360			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	505	0.083	42	0.1	7.765	A
C-AB	80	765	0.105	80	0.2	5.304	A
C-A	306			306			
A-B	21			21			
A-C	440			440			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	505	0.083	42	0.1	7.767	A
C-AB	80	765	0.105	80	0.2	5.312	A
C-A	306			306			
A-B	21			21			
A-C	440			440			

17:45 - 18:00

	Total Demand	Capacity		Throughput	End queue		Unsignalised

Stream	(PCU/hr)	(PCU/hr)	RFC	(PCU/hr)	(PCU)	Delay (s)	level of service
B-AC	34	534	0.064	34	0.1	7.201	A
C-AB	58	738	0.079	58	0.1	5.351	A
C-A	257			257			
A-B	17			17			
A-C	360			360			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	29	555	0.052	29	0.1	6.841	A
C-AB	45	719	0.062	45	0.1	5.384	A
C-A	219			219			
A-B	14			14			
A-C	301			301			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.13	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.13	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	337	100.000
B		✓	80	100.000
C		✓	483	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	20	317
	B	29	0	51
	C	455	28	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	5	6
	B	3	0	6

	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.18	9.32	0.2	A
C-AB	0.08	4.75	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	60	542	0.111	60	0.1	7.820	A
C-AB	37	806	0.045	36	0.1	4.735	A
C-A	327			327			
A-B	15			15			
A-C	239			239			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	522	0.138	72	0.2	8.387	A
C-AB	49	842	0.058	49	0.1	4.603	A
C-A	385			385			
A-B	18			18			
A-C	285			285			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	493	0.179	88	0.2	9.310	A
C-AB	70	893	0.079	70	0.1	4.443	A
C-A	461			461			
A-B	22			22			
A-C	349			349			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	493	0.179	88	0.2	9.321	A
C-AB	71	893	0.079	71	0.1	4.451	A
C-A	461			461			
A-B	22			22			
A-C	349			349			

08:45 - 09:00

	Total Demand	Capacity		Throughput	End queue		Unsignalised

Stream	(PCU/hr)	(PCU/hr)	RFC	(PCU/hr)	(PCU)	Delay (s)	level of service
B-AC	72	522	0.138	72	0.2	8.403	A
C-AB	49	842	0.058	49	0.1	4.616	A
C-A	385			385			
A-B	18			18			
A-C	285			285			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	60	542	0.111	60	0.1	7.841	A
C-AB	37	806	0.046	37	0.1	4.745	A
C-A	327			327			
A-B	15			15			
A-C	239			239			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.89	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.89	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	424	100.000
B		✓	43	100.000
C		✓	364	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	20	404
	B	11	0	32
	C	320	44	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	0	0	0

	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.09	7.88	0.1	A
C-AB	0.12	5.39	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	555	0.058	32	0.1	6.882	A
C-AB	50	723	0.069	49	0.1	5.379	A
C-A	224			224			
A-B	15			15			
A-C	304			304			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	534	0.072	39	0.1	7.268	A
C-AB	65	742	0.087	65	0.2	5.352	A
C-A	262			262			
A-B	18			18			
A-C	363			363			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	504	0.094	47	0.1	7.874	A
C-AB	90	771	0.116	89	0.2	5.331	A
C-A	311			311			
A-B	22			22			
A-C	445			445			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	504	0.094	47	0.1	7.878	A
C-AB	90	771	0.116	90	0.2	5.341	A
C-A	311			311			
A-B	22			22			
A-C	445			445			

17:45 - 18:00

	Total Demand	Capacity		Throughput	End queue		Unsignalised

Stream	(PCU/hr)	(PCU/hr)	RFC	(PCU/hr)	(PCU)	Delay (s)	level of service
B-AC	39	534	0.072	39	0.1	7.272	A
C-AB	65	743	0.087	65	0.2	5.367	A
C-A	262			262			
A-B	18			18			
A-C	363			363			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	555	0.058	32	0.1	6.893	A
C-AB	50	723	0.069	50	0.1	5.393	A
C-A	224			224			
A-B	15			15			
A-C	304			304			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.12	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	339	100.000
B		✓	80	100.000
C		✓	485	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	19	320
	B	30	0	50
	C	458	27	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	5	6
	B	3	0	6

	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.18	9.41	0.2	A
C-AB	0.08	4.73	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	60	539	0.112	60	0.1	7.871	A
C-AB	35	807	0.044	35	0.1	4.721	A
C-A	330			330			
A-B	14			14			
A-C	241			241			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	518	0.139	72	0.2	8.454	A
C-AB	48	844	0.056	47	0.1	4.583	A
C-A	388			388			
A-B	17			17			
A-C	288			288			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	489	0.180	88	0.2	9.401	A
C-AB	68	895	0.076	68	0.1	4.421	A
C-A	466			466			
A-B	21			21			
A-C	352			352			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	489	0.180	88	0.2	9.413	A
C-AB	68	895	0.076	68	0.1	4.429	A
C-A	466			466			
A-B	21			21			
A-C	352			352			

08:45 - 09:00

	Total Demand	Capacity		Throughput	End queue		Unsignalised

Stream	(PCU/hr)	(PCU/hr)	RFC	(PCU/hr)	(PCU)	Delay (s)	level of service
B-AC	72	518	0.139	72	0.2	8.470	A
C-AB	48	844	0.056	48	0.1	4.599	A
C-A	388			388			
A-B	17			17			
A-C	288			288			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	60	539	0.112	60	0.1	7.894	A
C-AB	36	807	0.044	36	0.1	4.732	A
C-A	330			330			
A-B	14			14			
A-C	241			241			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	439	100.000
B		✓	43	100.000
C		✓	365	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	20	419
	B	11	0	32
	C	321	44	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	1
	B	0	0	0

	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.09	7.96	0.1	A
C-AB	0.12	5.41	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	552	0.059	32	0.1	6.924	A
C-AB	50	721	0.069	49	0.1	5.395	A
C-A	225			225			
A-B	15			15			
A-C	315			315			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	530	0.073	39	0.1	7.324	A
C-AB	65	740	0.088	65	0.2	5.373	A
C-A	263			263			
A-B	18			18			
A-C	377			377			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	500	0.095	47	0.1	7.956	A
C-AB	90	768	0.117	90	0.2	5.357	A
C-A	312			312			
A-B	22			22			
A-C	461			461			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	500	0.095	47	0.1	7.959	A
C-AB	90	768	0.117	90	0.2	5.365	A
C-A	312			312			
A-B	22			22			
A-C	461			461			

17:45 - 18:00

	Total Demand	Capacity		Throughput	End queue		Unsignalised

Stream	(PCU/hr)	(PCU/hr)	RFC	(PCU/hr)	(PCU)	Delay (s)	level of service
B-AC	39	530	0.073	39	0.1	7.331	A
C-AB	65	740	0.088	65	0.2	5.388	A
C-A	263			263			
A-B	18			18			
A-C	377			377			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	552	0.059	32	0.1	6.935	A
C-AB	50	721	0.069	50	0.1	5.412	A
C-A	225			225			
A-B	15			15			
A-C	315			315			

Appendix T
Bosworth Lane (B585)/Ashby Road (A447)/Bosworth Road PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

Filename: 6 Bosworth Lane B585 - Ashby Road A447 - Bosworth Road.j10
Path: C:\Users\SamBarber\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\6 Bosworth Lane B585 - Ashby Road A447 - Bosworth Road
Report generation date: 22/01/2025 11:05:56

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-C	D1	0.5	13.88	0.32	B	D2	0.4	12.52	0.30	B
Stream B-AD		1.7	41.51	0.63	E		1.8	34.13	0.64	D
Stream A-BCD		0.1	8.15	0.11	A		0.2	8.44	0.13	A
Stream D-A		3.4	205.77	0.94	F		0.2	13.82	0.19	B
Stream D-BC		8.4	105.06	0.94	F		2.0	34.08	0.68	D
Stream C-ABD		0.3	10.81	0.25	B		0.4	9.35	0.26	A
	2029 Do Nothing									
Stream B-C	D3	4.6	95.59	0.90	F	D4	0.8	19.60	0.44	C
Stream B-AD		5.9	110.75	0.91	F		3.1	54.37	0.77	F
Stream A-BCD		0.1	8.52	0.11	A		0.2	8.86	0.14	A
Stream D-A		3.7	235.74	0.92	F		0.3	17.84	0.24	C
Stream D-BC		10.1	126.00	0.97	F		2.6	43.65	0.74	E
Stream C-ABD		0.4	10.98	0.26	B		0.4	9.67	0.28	A
	2029 Do Something									
Stream B-C	D5	6.6	118.08	0.97	F	D6	0.7	18.70	0.42	C
Stream B-AD		7.1	126.58	0.94	F		2.9	53.59	0.76	F
Stream A-BCD		0.1	8.54	0.11	A		0.2	8.88	0.14	A
Stream D-A		2.1	149.08	0.77	F		0.3	18.18	0.23	C
Stream D-BC		6.9	94.51	0.92	F		2.7	44.61	0.74	E
Stream C-ABD		0.3	10.35	0.22	B		0.4	9.76	0.29	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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	
Location	
Site number	
Date	23/10/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\SamBarber
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		26.20	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	26.20	D

Arms

Arms

Arm	Name	Description	Arm type
A	untitled		Major
B	untitled		Minor
C	untitled		Major
D	untitled		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	6.50		✓	3.00	210.0	✓	16.00
C	6.50		✓	3.00	150.0	✓	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	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	7.00	4.50	3.50	✓	2.00	105	152
D	One lane plus flare	10.00	7.00	4.00	2.75	2.75	✓	1.00	85	141

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C

A-D	756	-	-	-	0.287	0.287	0.287	-	0.287	-	-
B-AD	654	0.117	0.294	-	-	-	0.185	0.421	0.185	0.117	0.294
B-C	776	0.116	0.294	-	-	-	-	-	-	0.116	0.294
C-B	718	0.272	0.272	-	-	-	-	-	-	0.272	0.272
D-A	748	-	-	-	0.284	0.112	0.284	-	0.112	-	-
D-BC	628	0.178	0.178	0.404	0.283	0.112	0.283	-	0.112	-	-

The slopes and intercepts shown above include custom intercept adjustments only.
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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	605	100.000
B		✓	256	100.000
C		✓	678	100.000
D		✓	330	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	**B**	**C**	**D**
From	**A**	0	13	537	55
	B	13	0	114	129
	C	387	106	0	185
	D	52	173	105	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	**B**	**C**	**D**
From	**A**	0	18	5	6
	B	30	0	3	6
	C	8	4	0	2
	D	11	2	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.32	13.88	0.5	B

B-AD	0.63	41.51	1.7	E
A-BCD	0.11	8.15	0.1	A
A-B				
A-C				
D-A	0.94	205.77	3.4	F
D-BC	0.94	105.06	8.4	F
C-ABD	0.25	10.81	0.3	B
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	86	572	0.150	85	0.2	7.612	A
B-AD	107	382	0.280	105	0.4	13.966	B
A-BCD	41	602	0.069	41	0.1	6.799	A
A-B	10			10			
A-C	404			404			
D-A	39	493	0.079	39	0.1	8.783	A
D-BC	209	425	0.492	205	1.0	16.576	C
C-ABD	80	549	0.145	79	0.2	7.962	A
C-D	139			139			
C-A	291			291			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	102	519	0.198	102	0.3	8.900	A
B-AD	128	327	0.390	127	0.7	19.227	C
A-BCD	49	572	0.086	49	0.1	7.305	A
A-B	12			12			
A-C	483			483			
D-A	47	375	0.125	47	0.2	12.159	B
D-BC	250	384	0.651	247	1.8	26.274	D
C-ABD	95	515	0.185	95	0.2	8.918	A
C-D	166			166			
C-A	348			348			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	126	406	0.309	125	0.5	13.131	B
B-AD	156	252	0.621	153	1.6	37.765	E
A-BCD	61	530	0.114	60	0.1	8.122	A
A-B	14			14			
A-C	591			591			
D-A	57	101	0.564	53	1.2	77.455	F
D-BC	306	326	0.938	287	6.5	72.920	F
C-ABD	117	468	0.249	116	0.3	10.625	B
C-D	204			204			
C-A	426			426			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	126	392	0.320	125	0.5	13.876	B
B-AD	156	248	0.630	156	1.7	41.509	E
A-BCD	61	529	0.114	61	0.1	8.145	A
A-B	14			14			
A-C	591			591			
D-A	57	61	0.944	48	3.4	205.775	F
D-BC	306	325	0.942	298	8.4	105.061	F
C-ABD	117	463	0.252	117	0.3	10.807	B
C-D	204			204			
C-A	426			426			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	102	507	0.202	103	0.3	9.201	A
B-AD	128	322	0.396	132	0.7	20.755	C
A-BCD	49	570	0.087	50	0.1	7.330	A
A-B	12			12			
A-C	483			483			
D-A	47	315	0.149	60	0.2	16.431	C
D-BC	250	381	0.655	275	2.1	40.866	E
C-ABD	95	507	0.188	96	0.2	9.123	A
C-D	166			166			
C-A	348			348			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	86	568	0.151	86	0.2	7.703	A
B-AD	107	380	0.281	108	0.4	14.342	B
A-BCD	41	601	0.069	41	0.1	6.817	A
A-B	10			10			
A-C	404			404			
D-A	39	482	0.081	40	0.1	9.041	A
D-BC	209	424	0.493	214	1.0	17.907	C
C-ABD	80	546	0.146	80	0.2	8.034	A
C-D	139			139			
C-A	291			291			

2024 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		9.75	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.75	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	479	100.000
B		✓	292	100.000
C		✓	700	100.000
D		✓	259	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	9	407	63
	B	8	0	116	168
	C	471	125	0	104
	D	55	118	86	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	3	5
	B	14	0	3	3
	C	1	2	0	0
	D	2	1	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.30	12.52	0.4	B
B-AD	0.64	34.13	1.8	D
A-BCD	0.13	8.44	0.2	A
A-B				
A-C				
D-A	0.19	13.82	0.2	B
D-BC	0.68	34.08	2.0	D
C-ABD	0.26	9.35	0.4	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	591	0.148	87	0.2	7.334	A
B-AD	133	418	0.317	131	0.5	12.857	B
A-BCD	47	594	0.080	47	0.1	6.905	A
A-B	7			7			
A-C	306			306			
D-A	41	544	0.076	41	0.1	7.303	A
D-BC	154	428	0.359	151	0.6	13.217	B
C-ABD	94	591	0.159	93	0.2	7.364	A
C-D	78			78			
C-A	355			355			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	104	542	0.193	104	0.2	8.468	A
B-AD	158	370	0.428	157	0.7	17.391	C
A-BCD	57	562	0.101	57	0.1	7.474	A
A-B	8			8			
A-C	366			366			
D-A	49	475	0.104	49	0.1	8.614	A
D-BC	183	388	0.473	182	0.9	17.781	C

C-ABD	112	566	0.199	112	0.2	8.086	A
C-D	93			93			
C-A	423			423			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	128	432	0.296	127	0.4	12.123	B
B-AD	194	303	0.640	190	1.7	32.058	D
A-BCD	69	518	0.134	69	0.2	8.410	A
A-B	10			10			
A-C	448			448			
D-A	61	336	0.180	60	0.2	13.295	B
D-BC	225	332	0.677	220	1.9	31.871	D
C-ABD	138	532	0.259	137	0.4	9.303	A
C-D	115			115			
C-A	519			519			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	128	424	0.301	128	0.4	12.519	B
B-AD	194	302	0.642	193	1.8	34.125	D
A-BCD	69	517	0.134	69	0.2	8.439	A
A-B	10			10			
A-C	448			448			
D-A	61	326	0.186	61	0.2	13.820	B
D-BC	225	331	0.678	224	2.0	34.085	D
C-ABD	138	530	0.259	138	0.4	9.348	A
C-D	115			115			
C-A	519			519			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	104	535	0.195	105	0.3	8.630	A
B-AD	158	369	0.429	162	0.8	18.300	C
A-BCD	57	561	0.101	57	0.1	7.504	A
A-B	8			8			
A-C	366			366			
D-A	49	467	0.106	50	0.1	8.803	A
D-BC	183	387	0.474	188	1.0	18.852	C
C-ABD	112	564	0.199	113	0.3	8.139	A
C-D	93			93			
C-A	423			423			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	87	588	0.148	88	0.2	7.406	A
B-AD	133	418	0.317	134	0.5	13.176	B
A-BCD	47	593	0.080	48	0.1	6.928	A
A-B	7			7			
A-C	306			306			
D-A	41	540	0.077	42	0.1	7.370	A
D-BC	154	427	0.360	155	0.6	13.602	B
C-ABD	94	590	0.159	94	0.2	7.410	A
C-D	78			78			
C-A	355			355			

2029 Do Nothing, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		42.27	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	42.27	E

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	615	100.000
B		✓	346	100.000
C		✓	701	100.000
D		✓	324	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	12	551	52
	B	19	0	160	167
	C	409	108	0	184
	D	51	166	107	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	17	5	6
	B	16	0	2	4
	C	7	4	0	2
	D	10	2	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.90	95.59	4.6	F
B-AD	0.91	110.75	5.9	F
A-BCD	0.11	8.52	0.1	A
A-B				
A-C				
D-A	0.92	235.74	3.7	F
D-BC	0.97	126.00	10.1	F
C-ABD	0.26	10.98	0.4	B
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	552	0.218	119	0.3	8.475	A
B-AD	140	373	0.376	138	0.6	15.931	C
A-BCD	39	588	0.067	39	0.1	6.945	A
A-B	9			9			
A-C	415			415			
D-A	38	485	0.079	38	0.1	8.846	A
D-BC	206	415	0.495	202	1.0	17.042	C
C-ABD	81	547	0.149	81	0.2	8.015	A
C-D	139			139			
C-A	308			308			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	144	478	0.301	143	0.4	10.952	B
B-AD	167	316	0.529	165	1.1	24.727	C
A-BCD	47	555	0.084	47	0.1	7.511	A
A-B	11			11			
A-C	495			495			
D-A	46	362	0.127	46	0.2	12.496	B
D-BC	245	372	0.659	242	1.8	27.655	D

C-ABD	97	513	0.189	97	0.2	8.997	A
C-D	165			165			
C-A	368			368			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	176	261	0.675	170	1.9	38.476	E
B-AD	205	233	0.880	192	4.4	75.866	F
A-BCD	57	509	0.112	57	0.1	8.441	A
A-B	13			13			
A-C	607			607			
D-A	56	70	0.805	48	2.3	148.958	F
D-BC	301	312	0.964	279	7.3	82.153	F
C-ABD	119	466	0.255	118	0.4	10.766	B
C-D	203			203			
C-A	450			450			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	176	196	0.899	165	4.6	95.591	F
B-AD	205	226	0.907	199	5.9	110.750	F
A-BCD	57	505	0.113	57	0.1	8.517	A
A-B	13			13			
A-C	607			607			
D-A	56	61	0.918	51	3.7	235.737	F
D-BC	301	309	0.973	290	10.1	125.998	F
C-ABD	119	460	0.259	119	0.4	10.981	B
C-D	203			203			
C-A	450			450			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	144	441	0.326	160	0.5	13.828	B
B-AD	167	307	0.545	185	1.3	34.978	D
A-BCD	47	549	0.085	47	0.1	7.605	A
A-B	11			11			
A-C	495			495			
D-A	46	280	0.164	60	0.2	19.030	C
D-BC	245	367	0.669	276	2.3	50.219	F
C-ABD	97	503	0.193	98	0.3	9.248	A
C-D	165			165			
C-A	368			368			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	545	0.221	121	0.3	8.678	A
B-AD	140	371	0.377	143	0.7	16.769	C
A-BCD	39	587	0.067	39	0.1	6.973	A
A-B	9			9			
A-C	415			415			
D-A	38	472	0.081	39	0.1	9.147	A
D-BC	206	414	0.496	211	1.1	18.591	C
C-ABD	81	544	0.149	82	0.2	8.092	A
C-D	139			139			
C-A	308			308			

2029 Do Nothing, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		13.79	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	13.79	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	485	100.000
B		✓	331	100.000
C		✓	754	100.000
D		✓	267	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	9	414	62
	B	9	0	134	188
	C	517	133	0	104
	D	58	122	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	3	5
	B	11	0	2	3
	C	1	2	0	0
	D	2	1	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.44	19.60	0.8	C
B-AD	0.77	54.37	3.1	F
A-BCD	0.14	8.86	0.2	A
A-B				
A-C				
D-A	0.24	17.84	0.3	C
D-BC	0.74	43.65	2.6	E
C-ABD	0.28	9.67	0.4	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	580	0.174	100	0.2	7.642	A
B-AD	148	406	0.365	146	0.6	14.174	B
A-BCD	47	580	0.081	46	0.1	7.083	A
A-B	7			7			
A-C	312			312			
D-A	44	526	0.083	43	0.1	7.596	A
D-BC	157	415	0.379	155	0.6	13.959	B
C-ABD	100	589	0.170	99	0.2	7.489	A
C-D	78			78			
C-A	389			389			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	518	0.232	120	0.3	9.211	A
B-AD	177	355	0.498	175	1.0	20.496	C
A-BCD	56	545	0.102	56	0.1	7.727	A
A-B	8			8			
A-C	372			372			
D-A	52	450	0.116	52	0.1	9.227	A
D-BC	188	373	0.504	186	1.0	19.508	C

C-ABD	120	563	0.212	119	0.3	8.270	A
C-D	93			93			
C-A	465			465			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	356	0.414	146	0.7	17.333	C
B-AD	217	283	0.766	210	2.8	46.741	E
A-BCD	68	497	0.137	68	0.2	8.811	A
A-B	10			10			
A-C	456			456			
D-A	64	285	0.224	63	0.3	16.481	C
D-BC	230	313	0.736	224	2.4	39.098	E
C-ABD	146	528	0.277	146	0.4	9.605	A
C-D	115			115			
C-A	569			569			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	334	0.442	147	0.8	19.597	C
B-AD	217	282	0.770	216	3.1	54.367	F
A-BCD	68	495	0.138	68	0.2	8.860	A
A-B	10			10			
A-C	456			456			
D-A	64	269	0.237	64	0.3	17.836	C
D-BC	230	312	0.739	229	2.6	43.646	E
C-ABD	146	526	0.278	146	0.4	9.667	A
C-D	115			115			
C-A	569			569			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	505	0.239	122	0.3	9.638	A
B-AD	177	354	0.500	185	1.1	22.940	C
A-BCD	56	542	0.103	56	0.1	7.782	A
A-B	8			8			
A-C	372			372			
D-A	52	437	0.119	53	0.1	9.574	A
D-BC	188	371	0.506	194	1.1	21.359	C
C-ABD	120	561	0.213	120	0.3	8.338	A
C-D	93			93			
C-A	465			465			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	576	0.175	101	0.2	7.749	A
B-AD	148	405	0.366	150	0.6	14.690	B
A-BCD	47	578	0.081	47	0.1	7.113	A
A-B	7			7			
A-C	312			312			
D-A	44	522	0.084	44	0.1	7.684	A
D-BC	157	414	0.380	159	0.6	14.456	B
C-ABD	100	588	0.170	100	0.2	7.542	A
C-D	78			78			
C-A	389			389			

2029 Do Something, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		39.62	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	39.62	E

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	614	100.000
B		✓	371	100.000
C		✓	693	100.000
D		✓	307	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	11	554	49
	B	19	0	178	174
	C	413	95	0	185
	D	51	144	112	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	18	5	6
	B	16	0	2	4
	C	7	4	0	2
	D	10	3	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.97	118.08	6.6	F
B-AD	0.94	126.58	7.1	F
A-BCD	0.11	8.54	0.1	A
A-B				
A-C				
D-A	0.77	149.08	2.1	F
D-BC	0.92	94.51	6.9	F
C-ABD	0.22	10.35	0.3	B
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	551	0.243	133	0.3	8.745	A
B-AD	145	374	0.388	143	0.6	16.164	C
A-BCD	37	585	0.063	37	0.1	6.949	A
A-B	8			8			
A-C	417			417			
D-A	38	499	0.077	38	0.1	8.588	A
D-BC	193	414	0.465	189	0.9	16.306	C
C-ABD	72	550	0.130	71	0.2	7.803	A
C-D	139			139			
C-A	311			311			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	160	475	0.337	159	0.5	11.604	B
B-AD	174	318	0.546	171	1.2	25.417	D
A-BCD	44	552	0.080	44	0.1	7.517	A
A-B	10			10			
A-C	498			498			
D-A	46	389	0.118	46	0.1	11.516	B
D-BC	230	371	0.620	227	1.6	25.333	D

C-ABD	85	516	0.165	85	0.2	8.678	A
C-D	166			166			
C-A	371			371			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	249	0.788	186	2.9	52.720	F
B-AD	212	232	0.914	197	5.1	83.613	F
A-BCD	54	505	0.107	54	0.1	8.451	A
A-B	12			12			
A-C	610			610			
D-A	56	132	0.424	54	0.7	49.093	E
D-BC	282	311	0.907	266	5.5	67.752	F
C-ABD	105	471	0.222	104	0.3	10.210	B
C-D	204			204			
C-A	455			455			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	196	202	0.971	181	6.6	118.083	F
B-AD	212	226	0.939	205	7.1	126.580	F
A-BCD	54	501	0.108	54	0.1	8.542	A
A-B	12			12			
A-C	610			610			
D-A	56	73	0.767	51	2.1	149.081	F
D-BC	282	308	0.916	276	6.9	94.513	F
C-ABD	105	466	0.224	105	0.3	10.350	B
C-D	204			204			
C-A	455			455			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	160	433	0.370	184	0.6	16.149	C
B-AD	174	309	0.562	196	1.4	38.928	E
A-BCD	44	544	0.081	44	0.1	7.635	A
A-B	10			10			
A-C	498			498			
D-A	46	337	0.136	54	0.2	14.337	B
D-BC	230	367	0.627	250	1.9	36.260	E
C-ABD	85	510	0.167	86	0.2	8.834	A
C-D	166			166			
C-A	371			371			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	545	0.246	135	0.3	8.981	A
B-AD	145	373	0.390	148	0.7	17.068	C
A-BCD	37	584	0.063	37	0.1	6.978	A
A-B	8			8			
A-C	417			417			
D-A	38	489	0.079	39	0.1	8.800	A
D-BC	193	413	0.466	197	0.9	17.460	C
C-ABD	72	548	0.131	72	0.2	7.865	A
C-D	139			139			
C-A	311			311			

2029 Do Something, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	Arm B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Minor arm visibility to right	Arm D - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		13.58	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	13.58	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	486	100.000
B		✓	322	100.000
C		✓	768	100.000
D		✓	266	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	9	415	62
	B	9	0	130	183
	C	520	139	0	109
	D	56	123	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	3	5
	B	11	0	2	3
	C	1	1	0	0
	D	2	1	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.42	18.70	0.7	C
B-AD	0.76	53.59	2.9	F
A-BCD	0.14	8.88	0.2	A
A-B				
A-C				
D-A	0.23	18.18	0.3	C
D-BC	0.74	44.61	2.7	E
C-ABD	0.29	9.76	0.4	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	98	581	0.168	97	0.2	7.577	A
B-AD	145	403	0.359	142	0.6	14.152	B
A-BCD	47	579	0.081	46	0.1	7.091	A
A-B	7			7			
A-C	312			312			
D-A	42	525	0.080	42	0.1	7.596	A
D-BC	158	414	0.381	156	0.6	14.036	B
C-ABD	105	588	0.178	104	0.2	7.488	A
C-D	82			82			
C-A	391			391			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	520	0.225	117	0.3	9.085	A
B-AD	173	352	0.491	171	1.0	20.429	C
A-BCD	56	544	0.102	56	0.1	7.738	A
A-B	8			8			
A-C	373			373			
D-A	50	447	0.113	50	0.1	9.244	A
D-BC	189	372	0.508	187	1.0	19.682	C

C-ABD	125	563	0.222	125	0.3	8.299	A
C-D	98			98			
C-A	467			467			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	360	0.397	142	0.7	16.686	C
B-AD	211	279	0.758	205	2.7	46.330	E
A-BCD	68	496	0.138	68	0.2	8.830	A
A-B	10			10			
A-C	457			457			
D-A	62	280	0.220	61	0.3	16.723	C
D-BC	231	312	0.741	225	2.5	39.805	E
C-ABD	153	527	0.290	153	0.4	9.692	A
C-D	120			120			
C-A	573			573			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	339	0.423	143	0.7	18.703	C
B-AD	211	277	0.762	210	2.9	53.590	F
A-BCD	68	494	0.138	68	0.2	8.878	A
A-B	10			10			
A-C	457			457			
D-A	62	263	0.234	62	0.3	18.175	C
D-BC	231	311	0.744	230	2.7	44.608	E
C-ABD	153	526	0.291	153	0.4	9.759	A
C-D	120			120			
C-A	573			573			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	508	0.230	119	0.3	9.479	A
B-AD	173	350	0.493	180	1.0	22.763	C
A-BCD	56	541	0.103	56	0.1	7.791	A
A-B	8			8			
A-C	373			373			
D-A	50	434	0.116	51	0.1	9.602	A
D-BC	189	370	0.510	195	1.1	21.611	C
C-ABD	125	560	0.223	125	0.3	8.371	A
C-D	98			98			
C-A	467			467			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	98	577	0.170	98	0.2	7.681	A
B-AD	145	402	0.360	146	0.6	14.650	B
A-BCD	47	578	0.081	47	0.1	7.122	A
A-B	7			7			
A-C	312			312			
D-A	42	520	0.081	42	0.1	7.685	A
D-BC	158	414	0.382	160	0.6	14.543	B
C-ABD	105	587	0.178	105	0.2	7.543	A
C-D	82			82			
C-A	391			391			

Appendix U
Hall Lane/A447 PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

For sales and distribution information, program advice and maintenance, contact TRL Software:
+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

Filename: 7 Hall Lane - A447.j10
Path: C:\JC Stuff
Report generation date: 07/02/2025 11:06:06

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-AC	D1	0.0	13.37	0.03	B	D2	0.0	0.00	0.00	A
Stream C-AB		0.0	4.81	0.00	A		0.0	0.00	0.00	A
	2029 Do Nothing									
Stream B-AC	D3	0.0	13.09	0.04	B	D4	0.0	0.00	0.00	A
Stream C-AB		0.0	4.75	0.00	A		0.0	0.00	0.00	A
	2029 Do Something									
Stream B-AC	D5	0.2	14.40	0.17	B	D6	0.0	7.19	0.02	A
Stream C-AB		0.0	4.75	0.01	A		0.0	0.00	0.00	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	
Location	
Site number	
Date	13/11/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\OscarHodges
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.11	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.11	A

Arms

Arms

Arm	Name	Description	Arm type
A	A447 (N)		Major
B	Hall Lane		Minor
C	A447 (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.05			121.0	✓	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	3.00	18	23

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	495	0.086	0.217	0.137	0.311
B-C	638	0.093	0.236	-	-
C-B	644	0.238	0.238	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	591	100.000
B		✓	8	100.000
C		✓	463	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	590
	B	6	0	2
	C	462	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	6
	B	20	0	0
	C	9	0	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	445	445
	B	6	6
	C	349	349
08:00-08:15	A	531	531
	B	7	7
	C	416	416
08:15-08:30	A	651	651
	B	9	9
	C	510	510
08:30-08:45	A	651	651
	B	9	9
	C	510	510
08:45-09:00	A	531	531
	B	7	7
	C	416	416
09:00-09:15	A	445	445
	B	6	6
	C	349	349

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.03	13.37	0.0	B
C-AB	0.00	4.81	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	383	0.016	6	0.0	10.905	B
C-AB	1	782	0.002	1	0.0	4.787	A
C-A	347			347			
A-B	0.75			0.75			
A-C	444			444			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	355	0.020	7	0.0	11.816	B
C-AB	2	813	0.002	2	0.0	4.619	A
C-A	414			414			
A-B	0.90			0.90			
A-C	530			530			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	316	0.028	9	0.0	13.372	B
C-AB	3	860	0.003	3	0.0	4.404	A
C-A	507			507			
A-B	1			1			
A-C	650			650			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	316	0.028	9	0.0	13.374	B
C-AB	3	860	0.003	3	0.0	4.417	A
C-A	507			507			
A-B	1			1			
A-C	650			650			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	355	0.020	7	0.0	11.819	B
C-AB	2	813	0.002	2	0.0	4.652	A
C-A	414			414			
A-B	0.90			0.90			
A-C	530			530			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	383	0.016	6	0.0	10.910	B
C-AB	1	782	0.002	1	0.0	4.805	A
C-A	347			347			
A-B	0.75			0.75			
A-C	444			444			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.00	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	475	100.000
B		✓	1	100.000
C		✓	551	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	473
	B	0	0	1
	C	551	0	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	358	358
	B	0	0
	C	415	415
17:00-17:15	A	427	427
	B	0	0
	C	495	495
17:15-17:30	A	523	523
	B	0	0
	C	607	607
17:30-17:45	A	523	523
	B	0	0
	C	607	607
17:45-18:00	A	427	427
	B	0	0
	C	495	495
18:00-18:15	A	358	358
	B	0	0
	C	415	415

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	437	0.000	0	0.0	0.000	A
C-AB	0	559	0.000	0	0.0	0.000	A
C-A	415			415			
A-B	2			2			
A-C	356			356			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	412	0.000	0	0.0	0.000	A
C-AB	0	542	0.000	0	0.0	0.000	A
C-A	495			495			
A-B	2			2			
A-C	425			425			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	378	0.000	0	0.0	0.000	A
C-AB	0	519	0.000	0	0.0	0.000	A
C-A	607			607			
A-B	2			2			
A-C	521			521			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	378	0.000	0	0.0	0.000	A
C-AB	0	519	0.000	0	0.0	0.000	A
C-A	607			607			
A-B	2			2			
A-C	521			521			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	412	0.000	0	0.0	0.000	A
C-AB	0	542	0.000	0	0.0	0.000	A
C-A	495			495			
A-B	2			2			
A-C	425			425			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	437	0.000	0	0.0	0.000	A
C-AB	0	559	0.000	0	0.0	0.000	A
C-A	415			415			
A-B	2			2			
A-C	356			356			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.15	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	606	100.000
B		✓	12	100.000
C		✓	479	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	605
	B	9	0	3
	C	478	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	5
	B	11	0	0
	C	8	0	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	456	456
	B	9	9
	C	361	361
08:00-08:15	A	545	545
	B	11	11
	C	431	431
08:15-08:30	A	667	667
	B	13	13
	C	527	527
08:30-08:45	A	667	667
	B	13	13
	C	527	527
08:45-09:00	A	545	545
	B	11	11
	C	431	431
09:00-09:15	A	456	456
	B	9	9
	C	361	361

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.04	13.09	0.0	B
C-AB	0.00	4.75	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	379	0.024	9	0.0	10.501	B
C-AB	1	788	0.002	1	0.0	4.735	A
C-A	359			359			
A-B	0.75			0.75			
A-C	455			455			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	350	0.031	11	0.0	11.447	B
C-AB	2	821	0.002	2	0.0	4.560	A
C-A	429			429			
A-B	0.90			0.90			
A-C	544			544			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	310	0.043	13	0.0	13.085	B
C-AB	3	870	0.003	3	0.0	4.337	A
C-A	525			525			
A-B	1			1			
A-C	666			666			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	310	0.043	13	0.0	13.086	B
C-AB	3	870	0.003	3	0.0	4.349	A
C-A	525			525			
A-B	1			1			
A-C	666			666			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	350	0.031	11	0.0	11.451	B
C-AB	2	821	0.002	2	0.0	4.590	A
C-A	429			429			
A-B	0.90			0.90			
A-C	544			544			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	379	0.024	9	0.0	10.509	B
C-AB	1	788	0.002	1	0.0	4.751	A
C-A	359			359			
A-B	0.75			0.75			
A-C	455			455			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.00	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	480	100.000
B		✓	3	100.000
C		✓	593	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	476
	B	0	0	3
	C	593	0	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	361	361
	B	0	0
	C	446	446
17:00-17:15	A	432	432
	B	0	0
	C	533	533
17:15-17:30	A	528	528
	B	0	0
	C	653	653
17:30-17:45	A	528	528
	B	0	0
	C	653	653
17:45-18:00	A	432	432
	B	0	0
	C	533	533
18:00-18:15	A	361	361
	B	0	0
	C	446	446

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.00	0.00	0.0	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	433	0.000	0	0.0	0.000	A
C-AB	0	558	0.000	0	0.0	0.000	A
C-A	446			446			
A-B	3			3			
A-C	358			358			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	408	0.000	0	0.0	0.000	A
C-AB	0	541	0.000	0	0.0	0.000	A
C-A	533			533			
A-B	4			4			
A-C	428			428			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	372	0.000	0	0.0	0.000	A
C-AB	0	518	0.000	0	0.0	0.000	A
C-A	653			653			
A-B	4			4			
A-C	524			524			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	372	0.000	0	0.0	0.000	A
C-AB	0	518	0.000	0	0.0	0.000	A
C-A	653			653			
A-B	4			4			
A-C	524			524			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	408	0.000	0	0.0	0.000	A
C-AB	0	541	0.000	0	0.0	0.000	A
C-A	533			533			
A-B	4			4			
A-C	428			428			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	433	0.000	0	0.0	0.000	A
C-AB	0	558	0.000	0	0.0	0.000	A
C-A	446			446			
A-B	3			3			
A-C	358			358			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.61	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	607	100.000
B		✓	47	100.000
C		✓	483	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	3	604
	B	36	0	11
	C	481	2	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	5
	B	3	0	0
	C	8	0	0

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
07:45-08:00	A	457	457
	B	35	35
	C	364	364
08:00-08:15	A	546	546
	B	42	42
	C	434	434
08:15-08:30	A	668	668
	B	52	52
	C	532	532
08:30-08:45	A	668	668
	B	52	52
	C	532	532
08:45-09:00	A	546	546
	B	42	42
	C	434	434
09:00-09:15	A	457	457
	B	35	35
	C	364	364

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.17	14.40	0.2	B
C-AB	0.01	4.75	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	35	376	0.094	35	0.1	10.770	B
C-AB	3	790	0.004	3	0.0	4.735	A
C-A	361			361			
A-B	2			2			
A-C	455			455			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	348	0.122	42	0.1	12.048	B
C-AB	4	823	0.005	4	0.0	4.562	A
C-A	430			430			
A-B	3			3			
A-C	543			543			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	52	307	0.168	51	0.2	14.376	B
C-AB	6	872	0.006	6	0.0	4.340	A
C-A	526			526			
A-B	3			3			
A-C	665			665			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	52	307	0.168	52	0.2	14.404	B
C-AB	6	872	0.006	6	0.0	4.353	A
C-A	526			526			
A-B	3			3			
A-C	665			665			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	348	0.122	42	0.1	12.079	B
C-AB	4	823	0.005	4	0.0	4.591	A
C-A	430			430			
A-B	3			3			
A-C	543			543			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	35	376	0.094	36	0.1	10.806	B
C-AB	3	790	0.004	3	0.0	4.752	A
C-A	361			361			
A-B	2			2			
A-C	455			455			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	493	100.000
B		✓	11	100.000
C		✓	595	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	15	478
	B	0	0	11
	C	595	0	0

Vehicle Mix

Heavy Vehicle Percentages

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

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A	371	371
	B	8	8
	C	448	448
17:00-17:15	A	443	443
	B	10	10
	C	535	535
17:15-17:30	A	543	543
	B	12	12
	C	655	655
17:30-17:45	A	543	543
	B	12	12
	C	655	655
17:45-18:00	A	443	443
	B	10	10
	C	535	535
18:00-18:15	A	371	371
	B	8	8
	C	448	448

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.02	7.19	0.0	A
C-AB	0.00	0.00	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	552	0.015	8	0.0	6.615	A
C-AB	0	556	0.000	0	0.0	0.000	A
C-A	448			448			
A-B	11			11			
A-C	360			360			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	536	0.018	10	0.0	6.845	A
C-AB	0	538	0.000	0	0.0	0.000	A
C-A	535			535			
A-B	13			13			
A-C	430			430			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	513	0.024	12	0.0	7.191	A
C-AB	0	515	0.000	0	0.0	0.000	A
C-A	655			655			
A-B	17			17			
A-C	526			526			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	513	0.024	12	0.0	7.191	A
C-AB	0	515	0.000	0	0.0	0.000	A
C-A	655			655			
A-B	17			17			
A-C	526			526			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	536	0.018	10	0.0	6.848	A
C-AB	0	538	0.000	0	0.0	0.000	A
C-A	535			535			
A-B	13			13			
A-C	430			430			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	552	0.015	8	0.0	6.615	A
C-AB	0	556	0.000	0	0.0	0.000	A
C-A	448			448			
A-B	11			11			
A-C	360			360			

Appendix V
A447/Barton Road/Lount Road PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

Filename: 8 A447 - Barton Road - Lount Road.j10
Path: C:\Users\SamBarber\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\8 A447 - Barton Road - Lount Road
Report generation date: 22/01/2025 11:33:32

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-ACD	D1	1.6	26.56	0.62	D	D2	1.1	20.64	0.52	C
Stream A-BCD		0.0	4.24	0.01	A		0.0	4.83	0.02	A
Stream D-ABC		0.2	10.89	0.18	B		0.2	11.93	0.16	B
Stream C-ABD		0.2	5.30	0.10	A		0.6	5.49	0.24	A
	2029 Do Nothing									
Stream B-ACD	D3	2.0	31.12	0.67	D	D4	1.2	22.70	0.54	C
Stream A-BCD		0.0	4.22	0.02	A		0.0	4.69	0.02	A
Stream D-ABC		0.3	11.24	0.20	B		0.3	12.90	0.20	B
Stream C-ABD		0.2	5.19	0.10	A		0.7	5.50	0.27	A
	2029 Do Something									
Stream B-ACD	D5	2.1	33.22	0.69	D	D6	1.2	23.63	0.55	C
Stream A-BCD		0.0	4.24	0.02	A		0.0	4.63	0.02	A
Stream D-ABC		0.3	11.72	0.21	B		0.3	13.21	0.21	B
Stream C-ABD		0.3	5.09	0.11	A		0.8	5.59	0.28	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	
Location	
Site number	
Date	13/11/2024
Version	
Status	(new file)

Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\OscarHodges
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		5.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.12	A

Arms

Arms

Arm	Name	Description	Arm type
A	A447 (S)		Major
B	Lount Road		Minor
C	A447 (N)		Major
D	Barton Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	8.55			200.0	✓	0.00
C	8.55			180.0	✓	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	3.58	26	27
D	One lane	4.20	29	70

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

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
A-D	690	-	-	-	-	-	-	0.238	0.339	0.238	-	-	-
B-A	528	0.086	0.216	0.216	-	-	-	0.136	0.309	-	0.216	0.216	0.108
B-C	678	0.092	0.234	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	528	0.086	0.216	0.216	-	-	-	0.136	0.309	0.136	-	-	-
B-D, offside lane	528	0.086	0.216	0.216	-	-	-	0.136	0.309	0.136	-	-	-
C-B	678	0.234	0.234	0.334	-	-	-	-	-	-	-	-	-
D-A	748	-	-	-	-	-	-	0.258	-	0.102	-	-	-

D-B, nearside lane	584	0.150	0.150	0.341	-	-	-	0.239	0.239	0.095	-	-	-
D-B, offside lane	584	0.150	0.150	0.341	-	-	-	0.239	0.239	0.095	-	-	-
D-C	584	-	0.150	0.341	0.120	0.239	0.239	0.239	0.239	0.095	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.
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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	560	100.000
B		✓	207	100.000
C		✓	465	100.000
D		✓	71	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	**B**	**C**	**D**
From	**A**	0	59	496	5
	B	84	0	65	58
	C	412	34	0	19
	D	24	37	10	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	**B**	**C**	**D**
From	**A**	0	7	6	0
	B	2	0	3	5
	C	9	13	0	12
	D	4	6	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.62	26.56	1.6	D
A-BCD	0.01	4.24	0.0	A
A-B				
A-C				

D-ABC	0.18	10.89	0.2	B
C-ABD	0.10	5.30	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	432	0.361	154	0.6	13.225	B
A-BCD	7	882	0.008	7	0.0	4.231	A
A-B	44			44			
A-C	370			370			
D-ABC	53	491	0.109	53	0.1	8.566	A
C-ABD	43	799	0.054	43	0.1	5.299	A
C-D	14			14			
C-A	293			293			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	186	405	0.460	185	0.8	16.788	C
A-BCD	10	923	0.011	10	0.0	4.059	A
A-B	52			52			
A-C	441			441			
D-ABC	64	463	0.138	64	0.2	9.405	A
C-ABD	58	827	0.070	58	0.1	5.207	A
C-D	16			16			
C-A	344			344			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	228	367	0.621	225	1.6	25.612	D
A-BCD	15	984	0.015	15	0.0	3.844	A
A-B	64			64			
A-C	538			538			
D-ABC	78	423	0.185	78	0.2	10.871	B
C-ABD	83	868	0.096	83	0.2	5.094	A
C-D	19			19			
C-A	410			410			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	228	367	0.621	228	1.6	26.558	D
A-BCD	15	984	0.015	15	0.0	3.854	A
A-B	64			64			
A-C	538			538			
D-ABC	78	423	0.185	78	0.2	10.894	B
C-ABD	83	868	0.096	83	0.2	5.091	A
C-D	19			19			
C-A	410			410			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	186	405	0.460	189	0.9	17.421	C
A-BCD	10	923	0.011	10	0.0	4.080	A
A-B	52			52			
A-C	441			441			
D-ABC	64	463	0.138	64	0.2	9.435	A
C-ABD	58	827	0.070	58	0.1	5.197	A
C-D	16			16			
C-A	344			344			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	432	0.361	157	0.6	13.571	B
A-BCD	7	882	0.008	7	0.0	4.242	A
A-B	44			44			
A-C	370			370			
D-ABC	53	491	0.109	54	0.1	8.596	A
C-ABD	43	800	0.054	43	0.1	5.298	A
C-D	14			14			
C-A	293			293			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		4.04	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.04	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	526	100.000
B		✓	171	100.000
C		✓	531	100.000
D		✓	54	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	116	405	5
	B	81	0	52	38
	C	427	87	0	17
	D	8	36	10	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D

From	A	0	0	3	25
	B	1	0	4	0
	C	2	1	0	6
	D	14	0	25	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.52	20.64	1.1	C
A-BCD	0.02	4.83	0.0	A
A-B				
A-C				
D-ABC	0.16	11.93	0.2	B
C-ABD	0.24	5.49	0.6	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	129	431	0.299	127	0.4	11.974	B
A-BCD	7	852	0.008	7	0.0	4.830	A
A-B	87			87			
A-C	302			302			
D-ABC	41	452	0.090	40	0.1	9.254	A
C-ABD	111	811	0.137	110	0.3	5.213	A
C-D	11			11			
C-A	277			277			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	154	404	0.381	153	0.6	14.553	B
A-BCD	10	889	0.011	10	0.0	4.608	A
A-B	103			103			
A-C	360			360			
D-ABC	49	421	0.115	48	0.1	10.218	B
C-ABD	150	841	0.178	149	0.4	5.289	A
C-D	13			13			
C-A	315			315			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	188	365	0.515	187	1.0	20.266	C
A-BCD	14	942	0.015	14	0.0	4.299	A
A-B	126			126			
A-C	439			439			
D-ABC	59	379	0.157	59	0.2	11.899	B

C-ABD	215	884	0.244	214	0.6	5.470	A
C-D	14			14			
C-A	355			355			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	188	365	0.515	188	1.1	20.642	C
A-BCD	14	942	0.015	14	0.0	4.272	A
A-B	126			126			
A-C	439			439			
D-ABC	59	379	0.157	59	0.2	11.925	B
C-ABD	216	885	0.244	216	0.6	5.487	A
C-D	14			14			
C-A	355			355			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	154	403	0.381	155	0.6	14.856	B
A-BCD	10	888	0.011	10	0.0	4.538	A
A-B	103			103			
A-C	360			360			
D-ABC	49	421	0.115	49	0.1	10.248	B
C-ABD	150	842	0.178	151	0.4	5.313	A
C-D	13			13			
C-A	315			315			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	129	431	0.299	130	0.4	12.186	B
A-BCD	7	852	0.008	7	0.0	4.793	A
A-B	87			87			
A-C	302			302			
D-ABC	41	451	0.090	41	0.1	9.289	A
C-ABD	112	811	0.138	112	0.3	5.240	A
C-D	11			11			
C-A	277			277			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		5.87	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.87	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	578	100.000
B		✓	216	100.000
C		✓	488	100.000
D		✓	74	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	65	508	5
	B	91	0	63	62
	C	434	34	0	20
	D	25	39	10	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D

From	A	0	6	6	0
	B	2	0	3	5
	C	8	12	0	10
	D	4	5	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.67	31.12	2.0	D
A-BCD	0.02	4.22	0.0	A
A-B				
A-C				
D-ABC	0.20	11.24	0.3	B
C-ABD	0.10	5.19	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	163	424	0.384	160	0.6	13.958	B
A-BCD	7	888	0.008	7	0.0	4.205	A
A-B	49			49			
A-C	379			379			
D-ABC	56	485	0.115	55	0.1	8.687	A
C-ABD	44	809	0.055	44	0.1	5.193	A
C-D	14			14			
C-A	309			309			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	194	395	0.491	193	1.0	18.198	C
A-BCD	10	931	0.011	10	0.0	4.029	A
A-B	58			58			
A-C	452			452			
D-ABC	67	456	0.146	66	0.2	9.601	A
C-ABD	60	838	0.071	60	0.1	5.093	A
C-D	17			17			
C-A	362			362			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	238	356	0.668	234	1.9	29.548	D
A-BCD	15	993	0.015	15	0.0	3.808	A
A-B	70			70			
A-C	551			551			
D-ABC	81	415	0.197	81	0.3	11.214	B

C-ABD	87	882	0.098	86	0.2	4.974	A
C-D	20			20			
C-A	431			431			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	238	356	0.668	237	2.0	31.124	D
A-BCD	15	993	0.015	15	0.0	3.819	A
A-B	70			70			
A-C	551			551			
D-ABC	81	414	0.197	81	0.3	11.242	B
C-ABD	87	882	0.099	87	0.2	4.971	A
C-D	20			20			
C-A	431			431			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	194	395	0.491	198	1.0	19.149	C
A-BCD	10	931	0.011	10	0.0	4.048	A
A-B	58			58			
A-C	452			452			
D-ABC	67	456	0.146	67	0.2	9.633	A
C-ABD	60	839	0.071	60	0.1	5.084	A
C-D	17			17			
C-A	362			362			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	163	424	0.384	164	0.7	14.394	B
A-BCD	7	887	0.008	7	0.0	4.217	A
A-B	49			49			
A-C	379			379			
D-ABC	56	485	0.115	56	0.1	8.722	A
C-ABD	45	809	0.055	45	0.1	5.194	A
C-D	14			14			
C-A	309			309			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		4.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.38	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	536	100.000
B		✓	173	100.000
C		✓	582	100.000
D		✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	119	411	6
	B	79	0	50	44
	C	467	93	0	22
	D	10	45	12	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D

From	A	0	0	3	17
	B	1	0	4	0
	C	2	1	0	5
	D	10	0	17	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.54	22.70	1.2	C
A-BCD	0.02	4.69	0.0	A
A-B				
A-C				
D-ABC	0.20	12.90	0.3	B
C-ABD	0.27	5.50	0.7	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	130	421	0.309	128	0.4	12.423	B
A-BCD	9	849	0.010	8	0.0	4.692	A
A-B	89			89			
A-C	306			306			
D-ABC	50	442	0.114	50	0.1	9.553	A
C-ABD	126	832	0.151	124	0.3	5.159	A
C-D	14			14			
C-A	299			299			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	392	0.397	155	0.7	15.353	C
A-BCD	12	886	0.013	12	0.0	4.490	A
A-B	106			106			
A-C	365			365			
D-ABC	60	409	0.147	60	0.2	10.723	B
C-ABD	170	867	0.197	170	0.4	5.251	A
C-D	16			16			
C-A	337			337			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	190	351	0.542	189	1.1	22.181	C
A-BCD	17	939	0.019	17	0.0	4.212	A
A-B	129			129			
A-C	444			444			
D-ABC	74	365	0.202	73	0.3	12.858	B

C-ABD	249	917	0.272	248	0.7	5.483	A
C-D	18			18			
C-A	374			374			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	190	351	0.542	190	1.2	22.702	C
A-BCD	18	939	0.019	18	0.0	4.194	A
A-B	129			129			
A-C	444			444			
D-ABC	74	364	0.203	74	0.3	12.901	B
C-ABD	250	918	0.272	250	0.7	5.501	A
C-D	18			18			
C-A	373			373			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	392	0.397	157	0.7	15.739	C
A-BCD	12	885	0.013	12	0.0	4.444	A
A-B	106			106			
A-C	365			365			
D-ABC	60	409	0.147	61	0.2	10.769	B
C-ABD	171	868	0.197	172	0.5	5.280	A
C-D	16			16			
C-A	336			336			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	130	421	0.310	131	0.5	12.669	B
A-BCD	9	849	0.010	9	0.0	4.670	A
A-B	89			89			
A-C	306			306			
D-ABC	50	441	0.114	51	0.1	9.601	A
C-ABD	126	833	0.152	127	0.3	5.188	A
C-D	14			14			
C-A	298			298			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		6.16	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.16	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	580	100.000
B		✓	218	100.000
C		✓	522	100.000
D		✓	76	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	67	508	5
	B	92	0	64	62
	C	463	38	0	21
	D	25	41	10	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D

From	A	0	6	6	0
	B	2	0	3	5
	C	7	11	0	10
	D	4	5	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.69	33.22	2.1	D
A-BCD	0.02	4.24	0.0	A
A-B				
A-C				
D-ABC	0.21	11.72	0.3	B
C-ABD	0.11	5.09	0.3	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	164	420	0.391	162	0.6	14.217	B
A-BCD	7	884	0.008	7	0.0	4.225	A
A-B	50			50			
A-C	379			379			
D-ABC	57	478	0.120	57	0.1	8.883	A
C-ABD	51	824	0.062	51	0.1	5.090	A
C-D	15			15			
C-A	327			327			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	196	391	0.501	195	1.0	18.745	C
A-BCD	10	927	0.011	10	0.0	4.049	A
A-B	60			60			
A-C	452			452			
D-ABC	68	447	0.153	68	0.2	9.883	A
C-ABD	70	857	0.081	69	0.2	4.990	A
C-D	17			17			
C-A	382			382			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	240	350	0.685	236	2.0	31.297	D
A-BCD	15	989	0.016	15	0.0	3.828	A
A-B	73			73			
A-C	551			551			
D-ABC	84	403	0.207	83	0.3	11.684	B

C-ABD	102	905	0.113	102	0.3	4.882	A
C-D	21			21			
C-A	452			452			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	240	350	0.685	240	2.1	33.225	D
A-BCD	15	989	0.016	15	0.0	3.836	A
A-B	73			73			
A-C	551			551			
D-ABC	84	403	0.208	84	0.3	11.717	B
C-ABD	102	905	0.113	102	0.3	4.878	A
C-D	20			20			
C-A	452			452			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	196	391	0.501	200	1.1	19.855	C
A-BCD	10	926	0.011	10	0.0	4.069	A
A-B	60			60			
A-C	452			452			
D-ABC	68	446	0.153	69	0.2	9.919	A
C-ABD	70	857	0.082	70	0.2	4.985	A
C-D	17			17			
C-A	382			382			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	164	420	0.391	166	0.7	14.689	B
A-BCD	7	884	0.008	7	0.0	4.237	A
A-B	50			50			
A-C	379			379			
D-ABC	57	477	0.120	57	0.1	8.922	A
C-ABD	52	824	0.063	52	0.1	5.089	A
C-D	15			15			
C-A	327			327			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		4.48	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.48	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	558	100.000
B		✓	173	100.000
C		✓	586	100.000
D		✓	69	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	128	424	6
	B	79	0	49	45
	C	469	95	0	22
	D	10	46	13	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A	B	C	D

From	A	0	0	3	17
	B	1	0	4	0
	C	2	1	0	5
	D	10	0	15	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-ACD	0.55	23.63	1.2	C
A-BCD	0.02	4.63	0.0	A
A-B				
A-C				
D-ABC	0.21	13.21	0.3	B
C-ABD	0.28	5.59	0.8	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	130	417	0.313	128	0.5	12.611	B
A-BCD	9	860	0.010	9	0.0	4.626	A
A-B	95			95			
A-C	316			316			
D-ABC	52	438	0.119	51	0.1	9.661	A
C-ABD	129	830	0.155	128	0.3	5.199	A
C-D	14			14			
C-A	298			298			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	387	0.402	155	0.7	15.696	C
A-BCD	12	899	0.013	12	0.0	4.417	A
A-B	114			114			
A-C	376			376			
D-ABC	62	405	0.153	62	0.2	10.893	B
C-ABD	175	865	0.203	175	0.5	5.306	A
C-D	16			16			
C-A	336			336			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	190	345	0.552	188	1.2	23.015	C
A-BCD	18	956	0.019	18	0.0	4.133	A
A-B	138			138			
A-C	458			458			
D-ABC	76	359	0.211	76	0.3	13.166	B

C-ABD	257	915	0.281	256	0.7	5.568	A
C-D	17			17			
C-A	370			370			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	190	345	0.553	190	1.2	23.627	C
A-BCD	18	956	0.019	18	0.0	4.116	A
A-B	138			138			
A-C	458			458			
D-ABC	76	359	0.212	76	0.3	13.214	B
C-ABD	258	915	0.282	258	0.8	5.590	A
C-D	17			17			
C-A	370			370			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	156	386	0.403	158	0.7	16.120	C
A-BCD	12	898	0.013	12	0.0	4.372	A
A-B	114			114			
A-C	376			376			
D-ABC	62	405	0.153	62	0.2	10.945	B
C-ABD	176	866	0.203	177	0.5	5.336	A
C-D	16			16			
C-A	335			335			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	130	416	0.313	131	0.5	12.870	B
A-BCD	9	859	0.010	9	0.0	4.603	A
A-B	95			95			
A-C	316			316			
D-ABC	52	438	0.119	52	0.1	9.712	A
C-ABD	130	831	0.156	130	0.3	5.230	A
C-D	14			14			
C-A	298			298			

Appendix W
A447/Main Street/Barton Lane PICADY Outputs

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

For sales and distribution information, program advice and maintenance, contact TRL Software:
+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

Filename: 9 A447 - Main Street - Barton Lane.j10
Path: C:\Users\JamesCorbett\TTC Transportplanning\TTC Transportplanning Team Site - Documents\TTC - Projects\210988 - Newbold Verdon\Data\Junctions\9 A447 - Main Street - Barton Lane
Report generation date: 07/02/2025 14:27:45

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Base									
Stream B-C-D	D1	1.5	20.56	0.60	C	D2	1.2	16.07	0.54	C
Stream B-A-D		0.3	17.25	0.22	C		0.2	14.46	0.16	B
Stream A-B-C-D		0.4	5.70	0.18	A		0.1	5.27	0.08	A
Stream D-A-B-C		0.3	11.38	0.24	B		0.2	9.19	0.16	A
Stream C-A-B-D		1.3	9.00	0.44	A		1.0	7.40	0.39	A
	2029 Do Nothing									
Stream B-C-D	D3	1.7	22.68	0.62	C	D4	1.1	16.04	0.53	C
Stream B-A-D		0.3	19.07	0.24	C		0.2	15.73	0.16	C
Stream A-B-C-D		0.5	5.86	0.21	A		0.2	5.28	0.09	A
Stream D-A-B-C		0.6	14.33	0.38	B		0.5	11.91	0.31	B
Stream C-A-B-D		1.8	10.67	0.53	B		1.7	9.45	0.52	A
	2029 Do Something									
Stream B-C-D	D5	1.7	23.37	0.63	C	D6	1.1	16.49	0.53	C
Stream B-A-D		0.3	19.76	0.25	C		0.2	16.16	0.16	C
Stream A-B-C-D		0.5	5.94	0.22	A		0.2	5.22	0.09	A
Stream D-A-B-C		0.7	15.03	0.40	C		0.5	12.27	0.33	B
Stream C-A-B-D		2.0	11.13	0.56	B		1.7	9.68	0.53	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	
Location	
Site number	
Date	14/11/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\OscarHodges
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

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		7.75	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.75	A

Arms

Arms

Arm	Name	Description	Arm type
A	A447 (N)		Major
B	Main Street		Minor
C	A447 (S)		Major
D	Barton Lane		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	7.00			130.0	✓	0.00
C	7.00			72.0	✓	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)	Lane Width (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B	Two lanes		3.08	2.86	20	48
D	One lane	4.14			21	17

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

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
A-D	649	-	-	-	-	-	-	0.241	0.344	0.241	-	-	-
B-A	500	0.087	0.220	0.220	-	-	-	0.139	0.315	-	0.220	0.220	0.110
B-C	659	0.097	0.244	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	512	0.089	0.225	0.225	-	-	-	0.142	0.322	0.142	-	-	-
B-D, offside lane	500	0.087	0.220	0.220	-	-	-	0.139	0.315	0.139	-	-	-
C-B	616	0.228	0.228	0.326	-	-	-	-	-	-	-	-	-
D-A	707	-	-	-	-	-	-	0.262	-	0.104	-	-	-
D-B, nearside lane	549	0.152	0.152	0.345	-	-	-	0.242	0.242	0.096	-	-	-
D-B, offside lane	549	0.152	0.152	0.345	-	-	-	0.242	0.242	0.096	-	-	-
D-C	549	-	0.152	0.345	0.121	0.242	0.242	0.242	0.242	0.096	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	438	100.000
B		✓	304	100.000
C		✓	494	100.000
D		✓	98	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	19	358	61
	B	17	0	202	85
	C	330	159	0	5
	D	55	41	2	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	12	8	0
	B	6	0	4	5
	C	9	3	0	0
	D	4	5	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.60	20.56	1.5	C
B-AD	0.22	17.25	0.3	C
A-BCD	0.18	5.70	0.4	A
A-B				
A-C				
D-ABC	0.24	11.38	0.3	B
C-ABD	0.44	9.00	1.3	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	185	516	0.359	183	0.6	11.179	B
B-AD	44	352	0.124	43	0.1	12.230	B
A-BCD	74	745	0.100	73	0.2	5.519	A
A-B	13			13			
A-C	243			243			
D-ABC	74	506	0.146	73	0.2	8.758	A
C-ABD	185	713	0.260	183	0.5	7.123	A
C-D	3			3			
C-A	184			184			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	222	491	0.451	221	0.8	13.802	B
B-AD	52	323	0.160	51	0.2	13.958	B
A-BCD	99	767	0.129	98	0.3	5.565	A
A-B	15			15			
A-C	280			280			
D-ABC	88	480	0.184	88	0.2	9.686	A
C-ABD	243	735	0.331	242	0.7	7.697	A
C-D	3			3			
C-A	198			198			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	273	455	0.599	270	1.5	19.990	C
B-AD	62	282	0.220	62	0.3	17.149	C
A-BCD	140	800	0.176	140	0.4	5.672	A
A-B	17			17			
A-C	325			325			
D-ABC	108	442	0.244	107	0.3	11.332	B
C-ABD	340	766	0.443	338	1.3	8.883	A
C-D	3			3			
C-A	201			201			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	273	454	0.600	272	1.5	20.559	C
B-AD	62	282	0.221	62	0.3	17.249	C
A-BCD	141	800	0.176	141	0.4	5.701	A
A-B	17			17			
A-C	324			324			
D-ABC	108	441	0.244	108	0.3	11.380	B
C-ABD	341	767	0.444	341	1.3	8.996	A
C-D	3			3			
C-A	200			200			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	222	491	0.452	224	0.9	14.217	B
B-AD	52	322	0.160	52	0.2	14.060	B
A-BCD	99	767	0.129	100	0.3	5.622	A
A-B	15			15			
A-C	280			280			
D-ABC	88	479	0.184	88	0.2	9.742	A
C-ABD	244	736	0.332	246	0.8	7.834	A
C-D	3			3			
C-A	197			197			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	185	515	0.360	186	0.6	11.439	B
B-AD	44	351	0.124	44	0.2	12.335	B
A-BCD	75	744	0.100	75	0.2	5.564	A
A-B	13			13			
A-C	242			242			
D-ABC	74	505	0.146	74	0.2	8.816	A
C-ABD	186	714	0.261	187	0.5	7.232	A
C-D	3			3			
C-A	183			183			

2024 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		5.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.91	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2024 Base	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	366	100.000
B		✓	284	100.000
C		✓	520	100.000
D		✓	70	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	16	322	28
	B	14	0	209	61
	C	368	141	0	11
	D	45	23	2	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.54	16.07	1.2	C
B-AD	0.16	14.46	0.2	B
A-BCD	0.08	5.27	0.1	A
A-B				
A-C				
D-ABC	0.16	9.19	0.2	A
C-ABD	0.39	7.40	1.0	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	181	544	0.333	179	0.5	10.029	B
B-AD	33	365	0.090	32	0.1	11.026	B
A-BCD	33	722	0.045	32	0.1	5.256	A
A-B	12			12			
A-C	231			231			
D-ABC	53	528	0.100	52	0.1	7.567	A
C-ABD	172	749	0.229	170	0.4	6.334	A
C-D	6			6			
C-A	214			214			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	216	523	0.413	216	0.7	11.909	B
B-AD	39	338	0.115	39	0.1	12.264	B
A-BCD	43	739	0.058	43	0.1	5.212	A
A-B	14			14			
A-C	273			273			
D-ABC	63	504	0.125	63	0.1	8.167	A
C-ABD	227	777	0.292	226	0.6	6.669	A
C-D	7			7			
C-A	234			234			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	265	494	0.537	264	1.1	15.821	C
B-AD	47	301	0.157	47	0.2	14.415	B
A-BCD	60	765	0.079	60	0.1	5.154	A
A-B	16			16			
A-C	326			326			
D-ABC	77	469	0.164	77	0.2	9.168	A
C-ABD	319	818	0.390	317	1.0	7.353	A
C-D	7			7			
C-A	246			246			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	266	494	0.537	265	1.2	16.067	C
B-AD	47	301	0.157	47	0.2	14.461	B
A-BCD	60	764	0.079	60	0.1	5.163	A
A-B	16			16			
A-C	326			326			
D-ABC	77	469	0.164	77	0.2	9.187	A
C-ABD	320	819	0.390	320	1.0	7.398	A
C-D	7			7			
C-A	246			246			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	216	523	0.414	218	0.7	12.125	B
B-AD	39	338	0.115	39	0.1	12.316	B
A-BCD	43	738	0.058	43	0.1	5.226	A
A-B	14			14			
A-C	272			272			
D-ABC	63	503	0.125	63	0.1	8.189	A
C-ABD	228	778	0.292	229	0.7	6.722	A
C-D	7			7			
C-A	233			233			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	181	543	0.333	182	0.5	10.201	B
B-AD	33	364	0.090	33	0.1	11.088	B
A-BCD	33	721	0.045	33	0.1	5.270	A
A-B	11			11			
A-C	231			231			
D-ABC	53	527	0.100	53	0.1	7.593	A
C-ABD	172	749	0.230	173	0.5	6.392	A
C-D	6			6			
C-A	213			213			

2029 Do Nothing, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		9.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2029 Do Nothing	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	471	100.000
B		✓	303	100.000
C		✓	525	100.000
D		✓	144	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	22	379	70
	B	16	0	197	90
	C	334	186	0	5
	D	76	65	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	9	7	0
	B	6	0	4	4
	C	8	2	0	0
	D	3	3	33	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.62	22.68	1.7	C
B-AD	0.24	19.07	0.3	C
A-BCD	0.21	5.86	0.5	A
A-B				
A-C				
D-ABC	0.38	14.33	0.6	B
C-ABD	0.53	10.67	1.8	B
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	183	504	0.364	181	0.6	11.516	B
B-AD	45	339	0.132	44	0.2	12.752	B
A-BCD	88	751	0.117	87	0.2	5.569	A
A-B	15			15			
A-C	252			252			
D-ABC	108	490	0.221	107	0.3	9.714	A
C-ABD	219	710	0.308	216	0.6	7.572	A
C-D	3			3			
C-A	174			174			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	220	476	0.461	218	0.9	14.450	B
B-AD	53	306	0.173	53	0.2	14.837	B
A-BCD	118	775	0.153	118	0.3	5.648	A
A-B	17			17			
A-C	288			288			
D-ABC	129	461	0.281	129	0.4	11.219	B
C-ABD	288	731	0.394	287	1.0	8.454	A
C-D	3			3			
C-A	181			181			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	270	435	0.621	267	1.6	21.876	C
B-AD	63	262	0.243	63	0.3	18.908	C
A-BCD	170	810	0.210	170	0.5	5.825	A
A-B	19			19			
A-C	329			329			
D-ABC	159	419	0.378	158	0.6	14.190	B
C-ABD	404	762	0.530	401	1.7	10.448	B
C-D	3			3			
C-A	171			171			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	270	435	0.622	270	1.7	22.678	C
B-AD	63	261	0.243	63	0.3	19.074	C
A-BCD	171	810	0.211	171	0.5	5.864	A
A-B	19			19			
A-C	329			329			
D-ABC	159	418	0.379	159	0.6	14.331	B
C-ABD	406	764	0.531	406	1.8	10.668	B
C-D	3			3			
C-A	170			170			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	220	475	0.462	223	0.9	14.980	B
B-AD	53	305	0.173	53	0.2	14.991	B
A-BCD	119	774	0.153	119	0.3	5.714	A
A-B	17			17			
A-C	288			288			
D-ABC	129	459	0.282	130	0.4	11.350	B
C-ABD	290	733	0.395	293	1.0	8.681	A
C-D	3			3			
C-A	179			179			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	183	503	0.365	185	0.6	11.802	B
B-AD	45	337	0.132	45	0.2	12.889	B
A-BCD	89	751	0.118	89	0.2	5.621	A
A-B	15			15			
A-C	251			251			
D-ABC	108	488	0.222	109	0.3	9.827	A
C-ABD	220	711	0.310	222	0.7	7.727	A
C-D	3			3			
C-A	173			173			

2029 Do Nothing, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		6.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.95	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2029 Do Nothing	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	388	100.000
B		✓	271	100.000
C		✓	560	100.000
D		✓	125	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	20	339	29
	B	12	0	201	58
	C	363	185	0	12
	D	72	49	4	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.53	16.04	1.1	C
B-AD	0.16	15.73	0.2	C
A-BCD	0.09	5.28	0.2	A
A-B				
A-C				
D-ABC	0.31	11.91	0.5	B
C-ABD	0.52	9.45	1.7	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	174	538	0.323	172	0.5	9.985	A
B-AD	30	349	0.087	30	0.1	11.493	B
A-BCD	35	724	0.048	35	0.1	5.260	A
A-B	14			14			
A-C	243			243			
D-ABC	94	506	0.186	93	0.2	8.712	A
C-ABD	225	743	0.302	222	0.6	7.030	A
C-D	6			6			
C-A	191			191			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	208	516	0.402	207	0.7	11.852	B
B-AD	36	319	0.113	36	0.1	12.973	B
A-BCD	46	742	0.062	46	0.1	5.217	A
A-B	17			17			
A-C	286			286			
D-ABC	112	479	0.235	112	0.3	9.810	A
C-ABD	297	771	0.385	296	0.9	7.736	A
C-D	7			7			
C-A	200			200			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	255	484	0.526	253	1.1	15.790	C
B-AD	43	278	0.157	43	0.2	15.658	C
A-BCD	66	769	0.086	66	0.2	5.168	A
A-B	20			20			
A-C	341			341			
D-ABC	138	441	0.312	137	0.4	11.836	B
C-ABD	418	811	0.516	415	1.6	9.301	A
C-D	6			6			
C-A	192			192			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	255	484	0.527	255	1.1	16.038	C
B-AD	43	277	0.157	43	0.2	15.731	C
A-BCD	66	769	0.086	66	0.2	5.180	A
A-B	20			20			
A-C	341			341			
D-ABC	138	440	0.313	138	0.5	11.907	B
C-ABD	419	812	0.517	419	1.7	9.450	A
C-D	6			6			
C-A	191			191			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	208	516	0.403	209	0.7	12.064	B
B-AD	36	318	0.113	36	0.1	13.049	B
A-BCD	46	741	0.063	47	0.1	5.239	A
A-B	17			17			
A-C	285			285			
D-ABC	112	478	0.235	113	0.3	9.886	A
C-ABD	298	773	0.386	301	1.0	7.866	A
C-D	7			7			
C-A	198			198			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	174	538	0.323	175	0.5	10.153	B
B-AD	30	348	0.087	30	0.1	11.572	B
A-BCD	35	723	0.048	35	0.1	5.277	A
A-B	14			14			
A-C	243			243			
D-ABC	94	505	0.187	94	0.2	8.783	A
C-ABD	226	745	0.304	227	0.6	7.135	A
C-D	6			6			
C-A	189			189			

2029 Do Something, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		9.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.38	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2029 Do Something	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	474	100.000
B		✓	303	100.000
C		✓	556	100.000
D		✓	148	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	23	381	70
	B	16	0	197	90
	C	358	192	0	6
	D	79	66	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	9	7	0
	B	6	0	4	4
	C	8	2	0	0
	D	3	3	33	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.63	23.37	1.7	C
B-AD	0.25	19.76	0.3	C
A-BCD	0.22	5.94	0.5	A
A-B				
A-C				
D-ABC	0.40	15.03	0.7	C
C-ABD	0.56	11.13	2.0	B
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	183	502	0.366	181	0.6	11.590	B
B-AD	45	334	0.134	44	0.2	12.950	B
A-BCD	89	748	0.119	88	0.2	5.607	A
A-B	15			15			
A-C	253			253			
D-ABC	111	485	0.230	110	0.3	9.902	A
C-ABD	233	723	0.322	230	0.7	7.595	A
C-D	3			3			
C-A	183			183			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	220	473	0.464	219	0.9	14.629	B
B-AD	53	300	0.176	52	0.2	15.165	C
A-BCD	120	771	0.155	119	0.3	5.698	A
A-B	17			17			
A-C	289			289			
D-ABC	133	455	0.292	133	0.4	11.536	B
C-ABD	309	747	0.414	307	1.1	8.561	A
C-D	3			3			
C-A	188			188			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	270	431	0.628	267	1.6	22.474	C
B-AD	63	255	0.249	63	0.3	19.569	C
A-BCD	173	806	0.215	172	0.5	5.895	A
A-B	20			20			
A-C	329			329			
D-ABC	163	412	0.396	162	0.7	14.856	B
C-ABD	437	782	0.559	434	2.0	10.851	B
C-D	3			3			
C-A	172			172			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	270	430	0.629	270	1.7	23.367	C
B-AD	63	254	0.249	63	0.3	19.760	C
A-BCD	174	805	0.216	174	0.5	5.935	A
A-B	20			20			
A-C	328			328			
D-ABC	163	411	0.397	163	0.7	15.028	C
C-ABD	439	783	0.561	439	2.0	11.126	B
C-D	3			3			
C-A	170			170			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	220	472	0.466	223	0.9	15.206	C
B-AD	53	299	0.176	53	0.2	15.343	C
A-BCD	120	770	0.156	121	0.4	5.764	A
A-B	17			17			
A-C	289			289			
D-ABC	133	453	0.293	134	0.4	11.693	B
C-ABD	311	749	0.415	315	1.1	8.827	A
C-D	3			3			
C-A	186			186			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	184	501	0.367	185	0.6	11.897	B
B-AD	45	332	0.134	45	0.2	13.100	B
A-BCD	89	747	0.120	90	0.2	5.660	A
A-B	15			15			
A-C	252			252			
D-ABC	111	484	0.230	112	0.3	10.027	B
C-ABD	235	724	0.324	236	0.7	7.766	A
C-D	3			3			
C-A	181			181			

2029 Do Something, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		7.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.06	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2029 Do Something	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	410	100.000
B		✓	271	100.000
C		✓	563	100.000
D		✓	130	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	22	358	30
	B	12	0	201	58
	C	365	186	0	12
	D	75	51	4	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.53	16.49	1.1	C
B-AD	0.16	16.16	0.2	C
A-BCD	0.09	5.22	0.2	A
A-B				
A-C				
D-ABC	0.33	12.27	0.5	B
C-ABD	0.53	9.68	1.7	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	174	534	0.325	172	0.5	10.093	B
B-AD	30	345	0.088	30	0.1	11.648	B
A-BCD	37	734	0.050	37	0.1	5.198	A
A-B	16			16			
A-C	256			256			
D-ABC	98	503	0.194	97	0.2	8.835	A
C-ABD	227	741	0.306	224	0.6	7.089	A
C-D	6			6			
C-A	191			191			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	208	511	0.406	207	0.7	12.039	B
B-AD	36	314	0.114	36	0.1	13.206	B
A-BCD	49	754	0.066	49	0.1	5.146	A
A-B	18			18			
A-C	301			301			
D-ABC	117	476	0.245	117	0.3	10.002	B
C-ABD	301	769	0.391	299	1.0	7.837	A
C-D	7			7			
C-A	199			199			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	255	478	0.533	253	1.1	16.214	C
B-AD	43	272	0.160	43	0.2	16.076	C
A-BCD	71	785	0.090	71	0.2	5.086	A
A-B	22			22			
A-C	358			358			
D-ABC	143	437	0.327	143	0.5	12.190	B
C-ABD	424	808	0.525	421	1.7	9.530	A
C-D	6			6			
C-A	189			189			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	255	478	0.534	255	1.1	16.488	C
B-AD	43	271	0.160	43	0.2	16.158	C
A-BCD	71	785	0.091	71	0.2	5.100	A
A-B	22			22			
A-C	358			358			
D-ABC	143	436	0.328	143	0.5	12.273	B
C-ABD	426	809	0.526	426	1.7	9.677	A
C-D	6			6			
C-A	188			188			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	208	511	0.407	209	0.7	12.270	B
B-AD	36	313	0.115	36	0.1	13.289	B
A-BCD	50	754	0.066	50	0.1	5.169	A
A-B	18			18			
A-C	300			300			
D-ABC	117	475	0.246	117	0.3	10.085	B
C-ABD	302	771	0.392	305	1.0	7.977	A
C-D	6			6			
C-A	197			197			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	174	534	0.326	175	0.5	10.265	B
B-AD	30	344	0.088	30	0.1	11.727	B
A-BCD	37	733	0.051	37	0.1	5.215	A
A-B	16			16			
A-C	256			256			
D-ABC	98	503	0.195	98	0.2	8.913	A
C-ABD	228	742	0.308	230	0.7	7.204	A
C-D	6			6			
C-A	189			189			