

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	520	0.000	0	0.0	0.0	0.000	A
C-AB	98	25	523	0.187	98	0.3	0.2	8.480	A
C-A	916	229			916				
A-B	812	203			812				
A-C	236	59			236				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	551	0.000	0	0.0	0.0	0.000	A
C-AB	82	21	551	0.149	82	0.2	0.2	7.683	A
C-A	767	192			767				
A-B	680	170			680				
A-C	198	50			198				

# 2026 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.33	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D20	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1066	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	492	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	678	388
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	430	62	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.14	8.29	0.2	A	57	85
C-A					395	592
A-B					622	933
A-C					356	534

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	583	0.000	0	0.0	0.0	0.000	A
C-AB	47	12	563	0.083	46	0.0	0.1	6.959	A
C-A	324	81			324				
A-B	510	128			510				
A-C	292	73			292				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	56	14	538	0.104	56	0.1	0.1	7.463	A
C-A	387	97			387				
A-B	610	152			610				
A-C	349	87			349				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	529	0.000	0	0.0	0.0	0.000	A
C-AB	68	17	503	0.136	68	0.1	0.2	8.286	A
C-A	473	118			473				
A-B	746	187			746				
A-C	427	107			427				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	529	0.000	0	0.0	0.0	0.000	A
C-AB	68	17	503	0.136	68	0.2	0.2	8.289	A
C-A	473	118			473				
A-B	746	187			746				
A-C	427	107			427				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	56	14	538	0.104	56	0.2	0.1	7.474	A
C-A	387	97			387				
A-B	610	152			610				
A-C	349	87			349				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	583	0.000	0	0.0	0.0	0.000	A
C-AB	47	12	563	0.083	47	0.1	0.1	6.972	A
C-A	324	81			324				
A-B	510	128			510				
A-C	292	73			292				

# 2026 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.49	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D21	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1164	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	1112	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	936	228
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	1000	112	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.25	9.93	0.3	A	103	154
C-A					917	1376
A-B					859	1288
A-C					209	314

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	84	21	551	0.153	84	0.0	0.2	7.686	A
C-A	753	188			753				
A-B	705	176			705				
A-C	172	43			172				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-AB	101	25	524	0.192	101	0.2	0.2	8.504	A
C-A	899	225			899				
A-B	841	210			841				
A-C	205	51			205				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-AB	124	31	486	0.254	123	0.2	0.3	9.911	A
C-A	1101	275			1101				
A-B	1031	258			1031				
A-C	251	63			251				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	483	0.000	0	0.0	0.0	0.000	A
C-AB	124	31	486	0.254	124	0.3	0.3	9.933	A
C-A	1101	275			1101				
A-B	1031	258			1031				
A-C	251	63			251				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-AB	101	25	524	0.192	101	0.3	0.2	8.528	A
C-A	899	225			899				
A-B	841	210			841				
A-C	205	51			205				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	84	21	551	0.153	85	0.2	0.2	7.718	A
C-A	753	188			753				
A-B	705	176			705				
A-C	172	43			172				

# 2026 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.32	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D23	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1088	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	516	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	678	410
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	454	62	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.14	8.37	0.2	A	57	85
C-A					417	625
A-B					622	933
A-C					376	564

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	579	0.000	0	0.0	0.0	0.000	A
C-AB	47	12	561	0.083	46	0.0	0.1	6.995	A
C-A	342	85			342				
A-B	510	128			510				
A-C	309	77			309				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	556	0.000	0	0.0	0.0	0.000	A
C-AB	56	14	535	0.104	56	0.1	0.1	7.514	A
C-A	408	102			408				
A-B	610	152			610				
A-C	369	92			369				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	523	0.000	0	0.0	0.0	0.000	A
C-AB	68	17	499	0.137	68	0.1	0.2	8.356	A
C-A	500	125			500				
A-B	746	187			746				
A-C	451	113			451				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	523	0.000	0	0.0	0.0	0.000	A
C-AB	68	17	499	0.137	68	0.2	0.2	8.365	A
C-A	500	125			500				
A-B	746	187			746				
A-C	451	113			451				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	556	0.000	0	0.0	0.0	0.000	A
C-AB	56	14	535	0.104	56	0.2	0.1	7.525	A
C-A	408	102			408				
A-B	610	152			610				
A-C	369	92			369				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	579	0.000	0	0.0	0.0	0.000	A
C-AB	47	12	561	0.083	47	0.1	0.1	7.006	A
C-A	342	85			342				
A-B	510	128			510				
A-C	309	77			309				

# 2026 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.48	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D24	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1209	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	1159	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	936	273
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	1047	112	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.26	10.16	0.3	B	103	154
C-A					961	1441
A-B					859	1288
A-C					251	376

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	546	0.000	0	0.0	0.0	0.000	A
C-AB	84	21	546	0.155	84	0.0	0.2	7.778	A
C-A	788	197			788				
A-B	705	176			705				
A-C	206	51			206				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	514	0.000	0	0.0	0.0	0.000	A
C-AB	101	25	517	0.195	101	0.2	0.2	8.639	A
C-A	941	235			941				
A-B	841	210			841				
A-C	245	61			245				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-AB	124	31	478	0.259	123	0.2	0.3	10.133	B
C-A	1152	288			1152				
A-B	1031	258			1031				
A-C	301	75			301				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	469	0.000	0	0.0	0.0	0.000	A
C-AB	124	31	478	0.259	124	0.3	0.3	10.157	B
C-A	1152	288			1152				
A-B	1031	258			1031				
A-C	301	75			301				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	514	0.000	0	0.0	0.0	0.000	A
C-AB	101	25	517	0.195	101	0.3	0.2	8.665	A
C-A	941	235			941				
A-B	841	210			841				
A-C	245	61			245				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	546	0.000	0	0.0	0.0	0.000	A
C-AB	84	21	546	0.155	85	0.2	0.2	7.810	A
C-A	788	197			788				
A-B	705	176			705				
A-C	206	51			206				

# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.34	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D25	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1107	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	523	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	697	410
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	458	65	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.14	8.50	0.2	A	60	89
C-A					420	630
A-B					640	959
A-C					376	564

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	578	0.000	0	0.0	0.0	0.000	A
C-AB	49	12	558	0.088	49	0.0	0.1	7.059	A
C-A	345	86			345				
A-B	525	131			525				
A-C	309	77			309				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	58	15	532	0.110	58	0.1	0.1	7.601	A
C-A	412	103			412				
A-B	627	157			627				
A-C	369	92			369				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	521	0.000	0	0.0	0.0	0.000	A
C-AB	72	18	495	0.145	71	0.1	0.2	8.491	A
C-A	504	126			504				
A-B	767	192			767				
A-C	451	113			451				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	521	0.000	0	0.0	0.0	0.000	A
C-AB	72	18	495	0.145	72	0.2	0.2	8.498	A
C-A	504	126			504				
A-B	767	192			767				
A-C	451	113			451				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	58	15	532	0.110	59	0.2	0.1	7.613	A
C-A	412	103			412				
A-B	627	157			627				
A-C	369	92			369				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	578	0.000	0	0.0	0.0	0.000	A
C-AB	49	12	558	0.088	49	0.1	0.1	7.073	A
C-A	345	86			345				
A-B	525	131			525				
A-C	309	77			309				



# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.49	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D26	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (West)		ONE HOUR	✓	1216	100.000
B - Welton Road (North)		ONE HOUR	✓	0	100.000
C - Caldbeck Road (East)		ONE HOUR	✓	1176	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	943	273
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	1062	114	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (West)	B - Welton Road (North)	C - Caldbeck Road (East)
From	A - Caldbeck Road (West)	0	0	0
	B - Welton Road (North)	0	0	0
	C - Caldbeck Road (East)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.26	10.25	0.4	B	105	157
C-A					974	1462
A-B					865	1298
A-C					251	376

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	544	0.000	0	0.0	0.0	0.000	A
C-AB	86	21	545	0.158	85	0.0	0.2	7.817	A
C-A	800	200			800				
A-B	710	177			710				
A-C	206	51			206				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-AB	103	26	516	0.199	102	0.2	0.2	8.695	A
C-A	955	239			955				
A-B	848	212			848				
A-C	245	61			245				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	467	0.000	0	0.0	0.0	0.000	A
C-AB	126	31	477	0.264	125	0.2	0.4	10.230	B
C-A	1169	292			1169				
A-B	1038	260			1038				
A-C	301	75			301				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	467	0.000	0	0.0	0.0	0.000	A
C-AB	126	31	477	0.264	126	0.4	0.4	10.254	B
C-A	1169	292			1169				
A-B	1038	260			1038				
A-C	301	75			301				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-AB	103	26	516	0.199	103	0.4	0.3	8.726	A
C-A	955	239			955				
A-B	848	212			848				
A-C	245	61			245				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	0	0	544	0.000	0	0.0	0.0	0.000	A
C-AB	86	21	545	0.158	86	0.3	0.2	7.850	A
C-A	800	200			800				
A-B	710	177			710				
A-C	206	51			206				

# APPENDIX K

Caldbeck Road / Thursby Road – PICADY Modelling

<h1>Junctions 9</h1>
<h2>PICADY 9 - Priority Intersection Module</h2>
Version: 9.0.2.5947 © Copyright TRL Limited, 2017
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk
<b>The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution</b>

**Filename:** 2\_Caldbeck Road\_Thursby Road.j9

**Path:** C:\Users\manch\Dropbox (mode)\Project\Manchester\2. Projects\J325601\_Croft Retail Park, Welton Road\4. Data\6. Junction Capacity Assessments\PICADY\2\_Caldbeck Road\_Thursby Road

**Report generation date:** 28/05/2021 08:21:21

- 
- »2018 Base, AM
  - »2018 Base, PM
  - »2021 Base, AM
  - »2021 Base, PM
  - »2021 Base + CD , AM
  - »2021 Base + CD, PM
  - »2021 Base + CD + Dev, AM
  - »2021 Base + CD + Dev, PM
  - »2026 Base, AM
  - »2026 Base, PM
  - »2026 Base + CD, AM
  - »2026 Base + CD, PM
  - »2026 Base + CD + Dev, AM
  - »2026 Base + CD + Dev, PM

## Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)
<b>2018 Base</b>								
Stream B-C	0.0	5.98	0.04	1.04	0.3	8.54	0.24	0.91
Stream B-A	0.0	9.63	0.03		0.0	11.90	0.01	
Stream C-AB	0.2	6.92	0.17		0.0	6.99	0.03	
<b>2021 Base</b>								
Stream B-C	0.0	6.02	0.04	1.05	0.3	8.77	0.25	0.93
Stream B-A	0.0	9.79	0.03		0.0	12.17	0.01	
Stream C-AB	0.2	7.02	0.18		0.0	7.08	0.03	
<b>2021 Base + CD</b>								
Stream B-C	0.1	6.56	0.09	1.59	0.6	11.30	0.38	2.12
Stream B-A	0.1	10.42	0.09		0.2	15.18	0.17	
Stream C-AB	0.3	7.45	0.22		0.2	8.04	0.13	
<b>2021 Base + CD + Dev</b>								
Stream B-C	0.1	6.58	0.09	1.59	0.6	11.43	0.38	2.12
Stream B-A	0.1	10.47	0.09		0.2	15.36	0.17	
Stream C-AB	0.3	7.47	0.22		0.2	8.10	0.13	
<b>2026 Base</b>								
Stream B-C	0.0	6.09	0.04	1.07	0.4	9.12	0.26	0.97
Stream B-A	0.0	9.96	0.03		0.0	12.55	0.02	
Stream C-AB	0.2	7.15	0.19		0.0	7.22	0.03	
<b>2026 Base + CD</b>								
Stream B-C	0.1	6.64	0.09	1.61	0.6	11.89	0.40	2.19
Stream B-A	0.1	10.66	0.09		0.2	15.89	0.18	
Stream C-AB	0.3	7.60	0.23		0.2	8.22	0.14	
<b>2026 Base + CD + Dev</b>								
Stream B-C	0.1	6.66	0.09	1.61	0.7	12.03	0.40	2.19
Stream B-A	0.1	10.70	0.09		0.2	16.10	0.18	
Stream C-AB	0.3	7.63	0.23		0.2	8.28	0.14	

*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. Junction LOS and Junction Delay are demand-weighted averages.*

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	03/12/2018
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-J595SBC\Manchester Mode
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

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

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓
D9	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D10	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D11	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D12	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓
D13	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓
D14	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓
D15	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D16	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D20	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D21	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# 2018 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.04	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Caldbeck Road (East)		Major
B	Thursby Road (South)		Minor
C	Caldbeck Road (West)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Caldbeck Road (West)	13.50		✓	3.70	80.0	✓	3.00

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 - Thursby Road (South)	One lane plus flare	10.00	9.50	5.80	4.40	4.20		1.00	45	30

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	517	0.063	0.160	0.101	0.229
1	B-C	722	0.075	0.188	-	-
1	C-B	722	0.188	0.188	-	-

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

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

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



## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	467	100.000
B - Thursby Road (South)		ONE HOUR	✓	31	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	358	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	35	432
	B - Thursby Road (South)	10	0	21
	C - Caldbeck Road (West)	262	96	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	5.98	0.0	A	19	29
B-A	0.03	9.63	0.0	A	9	14
C-AB	0.17	6.92	0.2	A	88	132
C-A					240	360
A-B					32	48
A-C					396	595

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	16	4	656	0.024	16	0.0	0.0	5.625	A
B-A	8	2	427	0.018	7	0.0	0.0	8.586	A
C-AB	72	18	656	0.110	72	0.0	0.1	6.161	A
C-A	197	49			197				
A-B	26	7			26				
A-C	325	81			325				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	19	5	643	0.029	19	0.0	0.0	5.770	A
B-A	9	2	409	0.022	9	0.0	0.0	8.997	A
C-AB	86	22	643	0.134	86	0.1	0.2	6.463	A
C-A	235	59			235				
A-B	31	8			31				
A-C	388	97			388				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	23	6	625	0.037	23	0.0	0.0	5.983	A
B-A	11	3	385	0.029	11	0.0	0.0	9.629	A
C-AB	106	26	626	0.169	106	0.2	0.2	6.917	A
C-A	288	72			288				
A-B	39	10			39				
A-C	476	119			476				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	23	6	625	0.037	23	0.0	0.0	5.984	A
B-A	11	3	385	0.029	11	0.0	0.0	9.630	A
C-AB	106	26	626	0.169	106	0.2	0.2	6.919	A
C-A	288	72			288				
A-B	39	10			39				
A-C	476	119			476				

#### 09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	19	5	643	0.029	19	0.0	0.0	5.772	A
B-A	9	2	409	0.022	9	0.0	0.0	9.000	A
C-AB	86	22	643	0.134	87	0.2	0.2	6.473	A
C-A	235	59			235				
A-B	31	8			31				
A-C	388	97			388				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	16	4	655	0.024	16	0.0	0.0	5.629	A
B-A	8	2	427	0.018	8	0.0	0.0	8.590	A
C-AB	72	18	656	0.110	72	0.2	0.1	6.176	A
C-A	197	49			197				
A-B	26	7			26				
A-C	325	81			325				

# 2018 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

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

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	926	100.000
B - Thursby Road (South)		ONE HOUR	✓	122	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	211	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	15	911
	B - Thursby Road (South)	4	0	118
	C - Caldbeck Road (West)	198	13	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.24	8.54	0.3	A	108	162
B-A	0.01	11.90	0.0	B	4	6
C-AB	0.03	6.99	0.0	A	12	18
C-A					182	273
A-B					14	21
A-C					836	1254

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	89	22	615	0.144	88	0.0	0.2	6.825	A
B-A	3	0.75	366	0.008	3	0.0	0.0	9.929	A
C-AB	10	2	590	0.017	10	0.0	0.0	6.201	A
C-A	149	37			149				
A-B	11	3			11				
A-C	686	171			686				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	106	27	588	0.180	106	0.2	0.2	7.457	A
B-A	4	0.90	341	0.011	4	0.0	0.0	10.662	B
C-AB	12	3	565	0.021	12	0.0	0.0	6.508	A
C-A	178	44			178				
A-B	13	3			13				
A-C	819	205			819				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	32	552	0.236	130	0.2	0.3	8.524	A
B-A	4	1	307	0.014	4	0.0	0.0	11.901	B
C-AB	14	4	530	0.027	14	0.0	0.0	6.986	A
C-A	218	55			218				
A-B	17	4			17				
A-C	1003	251			1003				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	32	552	0.236	130	0.3	0.3	8.537	A
B-A	4	1	307	0.014	4	0.0	0.0	11.902	B
C-AB	14	4	530	0.027	14	0.0	0.0	6.986	A
C-A	218	55			218				
A-B	17	4			17				
A-C	1003	251			1003				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	106	27	588	0.180	106	0.3	0.2	7.474	A
B-A	4	0.90	341	0.011	4	0.0	0.0	10.664	B
C-AB	12	3	565	0.021	12	0.0	0.0	6.511	A
C-A	178	44			178				
A-B	13	3			13				
A-C	819	205			819				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	89	22	615	0.144	89	0.2	0.2	6.850	A
B-A	3	0.75	365	0.008	3	0.0	0.0	9.931	A
C-AB	10	2	590	0.017	10	0.0	0.0	6.204	A
C-A	149	37			149				
A-B	11	3			11				
A-C	686	171			686				

# 2021 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.05	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	484	100.000
B - Thursby Road (South)		ONE HOUR	✓	32	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	372	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	36	448
	B - Thursby Road (South)	10	0	22
	C - Caldbeck Road (West)	272	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	6.02	0.0	A	20	30
B-A	0.03	9.79	0.0	A	9	14
C-AB	0.18	7.02	0.2	A	92	138
C-A					249	374
A-B					33	50
A-C					411	617

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	17	4	655	0.025	16	0.0	0.0	5.639	A
B-A	8	2	422	0.018	7	0.0	0.0	8.679	A
C-AB	75	19	653	0.115	75	0.0	0.1	6.218	A
C-A	205	51			205				
A-B	27	7			27				
A-C	337	84			337				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	20	5	641	0.031	20	0.0	0.0	5.791	A
B-A	9	2	404	0.022	9	0.0	0.0	9.113	A
C-AB	90	22	640	0.141	90	0.1	0.2	6.538	A
C-A	244	61			244				
A-B	32	8			32				
A-C	403	101			403				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	24	6	623	0.039	24	0.0	0.0	6.015	A
B-A	11	3	379	0.029	11	0.0	0.0	9.786	A
C-AB	110	28	623	0.177	110	0.2	0.2	7.018	A
C-A	299	75			299				
A-B	40	10			40				
A-C	493	123			493				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	24	6	623	0.039	24	0.0	0.0	6.015	A
B-A	11	3	379	0.029	11	0.0	0.0	9.786	A
C-AB	110	28	623	0.177	110	0.2	0.2	7.024	A
C-A	299	75			299				
A-B	40	10			40				
A-C	493	123			493				



09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	20	5	641	0.031	20	0.0	0.0	5.793	A
B-A	9	2	404	0.022	9	0.0	0.0	9.117	A
C-AB	90	22	640	0.141	90	0.2	0.2	6.548	A
C-A	244	61			244				
A-B	32	8			32				
A-C	403	101			403				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	17	4	655	0.025	17	0.0	0.0	5.641	A
B-A	8	2	422	0.018	8	0.0	0.0	8.683	A
C-AB	75	19	653	0.115	75	0.2	0.1	6.233	A
C-A	205	51			205				
A-B	27	7			27				
A-C	337	84			337				

# 2021 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.93	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	959	100.000
B - Thursby Road (South)		ONE HOUR	✓	126	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	218	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	16	943
	B - Thursby Road (South)	4	0	122
	C - Caldbeck Road (West)	205	13	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	8.77	0.3	A	112	168
B-A	0.01	12.17	0.0	B	4	6
C-AB	0.03	7.08	0.0	A	12	18
C-A					188	282
A-B					15	22
A-C					865	1298

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	92	23	610	0.151	91	0.0	0.2	6.927	A
B-A	3	0.75	361	0.008	3	0.0	0.0	10.050	B
C-AB	10	2	586	0.017	10	0.0	0.0	6.251	A
C-A	154	39			154				
A-B	12	3			12				
A-C	710	177			710				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	110	27	583	0.188	109	0.2	0.2	7.604	A
B-A	4	0.90	336	0.011	4	0.0	0.0	10.831	B
C-AB	12	3	559	0.021	12	0.0	0.0	6.574	A
C-A	184	46			184				
A-B	14	4			14				
A-C	848	212			848				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	134	34	545	0.247	134	0.2	0.3	8.758	A
B-A	4	1	300	0.015	4	0.0	0.0	12.169	B
C-AB	14	4	523	0.027	14	0.0	0.0	7.080	A
C-A	226	56			226				
A-B	18	4			18				
A-C	1038	260			1038				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	134	34	545	0.247	134	0.3	0.3	8.774	A
B-A	4	1	300	0.015	4	0.0	0.0	12.170	B
C-AB	14	4	523	0.027	14	0.0	0.0	7.080	A
C-A	226	56			226				
A-B	18	4			18				
A-C	1038	260			1038				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	110	27	583	0.188	110	0.3	0.2	7.625	A
B-A	4	0.90	336	0.011	4	0.0	0.0	10.835	B
C-AB	12	3	559	0.021	12	0.0	0.0	6.575	A
C-A	184	46			184				
A-B	14	4			14				
A-C	848	212			848				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	92	23	610	0.151	92	0.2	0.2	6.950	A
B-A	3	0.75	361	0.008	3	0.0	0.0	10.054	B
C-AB	10	2	586	0.017	10	0.0	0.0	6.254	A
C-A	154	39			154				
A-B	12	3			12				
A-C	710	177			710				

# 2021 Base + CD , AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

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

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D9	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	502	100.000
B - Thursby Road (South)		ONE HOUR	✓	78	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	394	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	56	446
	B - Thursby Road (South)	30	0	48
	C - Caldbeck Road (West)	270	124	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	6.56	0.1	A	44	66
B-A	0.09	10.42	0.1	B	28	41
C-AB	0.22	7.45	0.3	A	114	171
C-A					247	371
A-B					51	77
A-C					409	614

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	36	9	637	0.057	36	0.0	0.1	5.980	A
B-A	23	6	425	0.053	22	0.0	0.1	8.937	A
C-AB	93	23	651	0.144	93	0.0	0.2	6.439	A
C-A	203	51			203				
A-B	42	11			42				
A-C	336	84			336				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	43	11	623	0.069	43	0.1	0.1	6.212	A
B-A	27	7	405	0.067	27	0.1	0.1	9.510	A
C-AB	112	28	638	0.175	112	0.2	0.2	6.838	A
C-A	242	61			242				
A-B	50	13			50				
A-C	401	100			401				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	53	13	602	0.088	53	0.1	0.1	6.557	A
B-A	33	8	378	0.087	33	0.1	0.1	10.418	B
C-AB	137	34	621	0.221	137	0.2	0.3	7.437	A
C-A	297	74			297				
A-B	62	15			62				
A-C	491	123			491				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	53	13	602	0.088	53	0.1	0.1	6.558	A
B-A	33	8	378	0.087	33	0.1	0.1	10.423	B
C-AB	137	34	621	0.221	137	0.3	0.3	7.445	A
C-A	297	74			297				
A-B	62	15			62				
A-C	491	123			491				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	43	11	622	0.069	43	0.1	0.1	6.216	A
B-A	27	7	405	0.067	27	0.1	0.1	9.519	A
C-AB	112	28	638	0.175	112	0.3	0.2	6.848	A
C-A	242	61			242				
A-B	50	13			50				
A-C	401	100			401				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	36	9	637	0.057	36	0.1	0.1	5.989	A
B-A	23	6	425	0.053	23	0.1	0.1	8.952	A
C-AB	93	23	651	0.144	94	0.2	0.2	6.460	A
C-A	203	51			203				
A-B	42	11			42				
A-C	336	84			336				

# 2021 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.12	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D10	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	994	100.000
B - Thursby Road (South)		ONE HOUR	✓	218	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	263	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	55	939
	B - Thursby Road (South)	44	0	174
	C - Caldbeck Road (West)	201	62	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.38	11.30	0.6	B	160	239
B-A	0.17	15.18	0.2	C	40	61
C-AB	0.13	8.04	0.2	A	57	85
C-A					184	277
A-B					50	76
A-C					862	1292

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	131	33	587	0.223	130	0.0	0.3	7.856	A
B-A	33	8	360	0.092	33	0.0	0.1	10.983	B
C-AB	47	12	581	0.080	46	0.0	0.1	6.732	A
C-A	151	38			151				
A-B	41	10			41				
A-C	707	177			707				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	555	0.282	156	0.3	0.4	9.005	A
B-A	40	10	330	0.120	39	0.1	0.1	12.377	B
C-AB	56	14	553	0.101	56	0.1	0.1	7.229	A
C-A	181	45			181				
A-B	49	12			49				
A-C	844	211			844				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	192	48	510	0.375	191	0.4	0.6	11.237	B
B-A	48	12	286	0.169	48	0.1	0.2	15.131	C
C-AB	68	17	516	0.132	68	0.1	0.2	8.037	A
C-A	221	55			221				
A-B	61	15			61				
A-C	1034	258			1034				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	192	48	510	0.376	192	0.6	0.6	11.300	B
B-A	48	12	286	0.170	48	0.2	0.2	15.177	C
C-AB	68	17	516	0.132	68	0.2	0.2	8.042	A
C-A	221	55			221				
A-B	61	15			61				
A-C	1034	258			1034				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	555	0.282	157	0.6	0.4	9.067	A
B-A	40	10	330	0.120	40	0.2	0.1	12.419	B
C-AB	56	14	553	0.101	56	0.2	0.1	7.240	A
C-A	181	45			181				
A-B	49	12			49				
A-C	844	211			844				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	131	33	587	0.223	131	0.4	0.3	7.916	A
B-A	33	8	360	0.092	33	0.1	0.1	11.026	B
C-AB	47	12	581	0.080	47	0.1	0.1	6.743	A
C-A	151	38			151				
A-B	41	10			41				
A-C	707	177			707				

# 2021 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

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

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D11	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	510	100.000
B - Thursby Road (South)		ONE HOUR	✓	78	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	394	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	56	454
	B - Thursby Road (South)	30	0	48
	C - Caldbeck Road (West)	270	124	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	6.58	0.1	A	44	66
B-A	0.09	10.47	0.1	B	28	41
C-AB	0.22	7.47	0.3	A	114	171
C-A					247	371
A-B					51	77
A-C					417	625

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	36	9	636	0.057	36	0.0	0.1	5.991	A
B-A	23	6	424	0.053	22	0.0	0.1	8.959	A
C-AB	93	23	650	0.144	93	0.0	0.2	6.454	A
C-A	203	51			203				
A-B	42	11			42				
A-C	342	85			342				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	43	11	621	0.069	43	0.1	0.1	6.227	A
B-A	27	7	404	0.067	27	0.1	0.1	9.539	A
C-AB	112	28	637	0.175	112	0.2	0.2	6.856	A
C-A	242	61			242				
A-B	50	13			50				
A-C	408	102			408				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	53	13	600	0.088	53	0.1	0.1	6.577	A
B-A	33	8	377	0.088	33	0.1	0.1	10.461	B
C-AB	137	34	619	0.222	137	0.2	0.3	7.462	A
C-A	297	74			297				
A-B	62	15			62				
A-C	500	125			500				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	53	13	600	0.088	53	0.1	0.1	6.578	A
B-A	33	8	377	0.088	33	0.1	0.1	10.467	B
C-AB	137	34	619	0.222	137	0.3	0.3	7.471	A
C-A	297	74			297				
A-B	62	15			62				
A-C	500	125			500				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	43	11	621	0.069	43	0.1	0.1	6.233	A
B-A	27	7	404	0.067	27	0.1	0.1	9.549	A
C-AB	112	28	637	0.175	112	0.3	0.2	6.868	A
C-A	242	61			242				
A-B	50	13			50				
A-C	408	102			408				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	36	9	636	0.057	36	0.1	0.1	6.001	A
B-A	23	6	424	0.053	23	0.1	0.1	8.974	A
C-AB	93	23	650	0.144	94	0.2	0.2	6.476	A
C-A	203	51			203				
A-B	42	11			42				
A-C	342	85			342				

# 2021 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.12	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D12	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	1010	100.000
B - Thursby Road (South)		ONE HOUR	✓	218	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	263	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	55	955
	B - Thursby Road (South)	44	0	174
	C - Caldbeck Road (West)	201	62	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.38	11.43	0.6	B	160	239
B-A	0.17	15.36	0.2	C	40	61
C-AB	0.13	8.10	0.2	A	57	85
C-A					184	277
A-B					50	76
A-C					876	1314

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	131	33	585	0.224	130	0.0	0.3	7.897	A
B-A	33	8	358	0.092	33	0.0	0.1	11.047	B
C-AB	47	12	578	0.081	46	0.0	0.1	6.761	A
C-A	151	38			151				
A-B	41	10			41				
A-C	719	180			719				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	553	0.283	156	0.3	0.4	9.070	A
B-A	40	10	328	0.121	39	0.1	0.1	12.473	B
C-AB	56	14	551	0.101	56	0.1	0.1	7.269	A
C-A	181	45			181				
A-B	49	12			49				
A-C	859	215			859				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	192	48	507	0.378	191	0.4	0.6	11.362	B
B-A	48	12	283	0.171	48	0.1	0.2	15.322	C
C-AB	68	17	513	0.133	68	0.1	0.2	8.097	A
C-A	221	55			221				
A-B	61	15			61				
A-C	1051	263			1051				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	192	48	507	0.378	192	0.6	0.6	11.428	B
B-A	48	12	283	0.171	48	0.2	0.2	15.364	C
C-AB	68	17	513	0.133	68	0.2	0.2	8.102	A
C-A	221	55			221				
A-B	61	15			61				
A-C	1051	263			1051				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	552	0.283	157	0.6	0.4	9.131	A
B-A	40	10	328	0.121	40	0.2	0.1	12.517	B
C-AB	56	14	551	0.101	56	0.2	0.1	7.279	A
C-A	181	45			181				
A-B	49	12			49				
A-C	859	215			859				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	131	33	584	0.224	131	0.4	0.3	7.958	A
B-A	33	8	358	0.093	33	0.1	0.1	11.091	B
C-AB	47	12	578	0.081	47	0.1	0.1	6.774	A
C-A	151	38			151				
A-B	41	10			41				
A-C	719	180			719				



# 2026 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.07	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D13	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	507	100.000
B - Thursby Road (South)		ONE HOUR	✓	34	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	389	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	38	469
	B - Thursby Road (South)	11	0	23
	C - Caldbeck Road (West)	285	104	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	6.09	0.0	A	21	32
B-A	0.03	9.96	0.0	A	10	15
C-AB	0.19	7.15	0.2	A	96	143
C-A					261	392
A-B					35	52
A-C					430	646

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	17	4	650	0.027	17	0.0	0.0	5.691	A
B-A	8	2	419	0.020	8	0.0	0.0	8.763	A
C-AB	78	20	650	0.121	78	0.0	0.1	6.286	A
C-A	215	54			215				
A-B	29	7			29				
A-C	353	88			353				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	21	5	636	0.033	21	0.0	0.0	5.853	A
B-A	10	2	400	0.025	10	0.0	0.0	9.229	A
C-AB	94	23	637	0.147	93	0.1	0.2	6.627	A
C-A	256	64			256				
A-B	34	9			34				
A-C	422	105			422				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	25	6	616	0.041	25	0.0	0.0	6.093	A
B-A	12	3	374	0.032	12	0.0	0.0	9.958	A
C-AB	115	29	618	0.186	115	0.2	0.2	7.142	A
C-A	313	78			313				
A-B	42	10			42				
A-C	516	129			516				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	25	6	616	0.041	25	0.0	0.0	6.093	A
B-A	12	3	374	0.032	12	0.0	0.0	9.959	A
C-AB	115	29	618	0.186	115	0.2	0.2	7.148	A
C-A	313	78			313				
A-B	42	10			42				
A-C	516	129			516				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	21	5	636	0.033	21	0.0	0.0	5.855	A
B-A	10	2	400	0.025	10	0.0	0.0	9.233	A
C-AB	94	23	637	0.147	94	0.2	0.2	6.635	A
C-A	256	64			256				
A-B	34	9			34				
A-C	422	105			422				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	17	4	650	0.027	17	0.0	0.0	5.695	A
B-A	8	2	419	0.020	8	0.0	0.0	8.767	A
C-AB	78	20	650	0.121	78	0.2	0.1	6.299	A
C-A	215	54			215				
A-B	29	7			29				
A-C	353	88			353				

# 2026 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.97	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D14	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	1001	100.000
B - Thursby Road (South)		ONE HOUR	✓	132	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	228	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	16	985
	B - Thursby Road (South)	4	0	128
	C - Caldbeck Road (West)	214	14	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.26	9.12	0.4	A	117	176
B-A	0.02	12.55	0.0	B	4	6
C-AB	0.03	7.22	0.0	A	13	19
C-A					196	295
A-B					15	22
A-C					904	1356

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	604	0.160	96	0.0	0.2	7.070	A
B-A	3	0.75	355	0.008	3	0.0	0.0	10.217	B
C-AB	11	3	580	0.018	10	0.0	0.0	6.325	A
C-A	161	40			161				
A-B	12	3			12				
A-C	742	185			742				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	115	29	575	0.200	115	0.2	0.2	7.813	A
B-A	4	0.90	329	0.011	4	0.0	0.0	11.068	B
C-AB	13	3	552	0.023	13	0.0	0.0	6.672	A
C-A	192	48			192				
A-B	14	4			14				
A-C	885	221			885				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	141	35	536	0.263	141	0.2	0.4	9.102	A
B-A	4	1	291	0.015	4	0.0	0.0	12.552	B
C-AB	15	4	514	0.030	15	0.0	0.0	7.219	A
C-A	236	59			236				
A-B	18	4			18				
A-C	1085	271			1085				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	141	35	536	0.263	141	0.4	0.4	9.122	A
B-A	4	1	291	0.015	4	0.0	0.0	12.554	B
C-AB	15	4	514	0.030	15	0.0	0.0	7.219	A
C-A	236	59			236				
A-B	18	4			18				
A-C	1085	271			1085				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	115	29	575	0.200	115	0.4	0.3	7.835	A
B-A	4	0.90	329	0.011	4	0.0	0.0	11.071	B
C-AB	13	3	552	0.023	13	0.0	0.0	6.672	A
C-A	192	48			192				
A-B	14	4			14				
A-C	885	221			885				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	604	0.160	97	0.3	0.2	7.100	A
B-A	3	0.75	355	0.008	3	0.0	0.0	10.221	B
C-AB	11	3	580	0.018	11	0.0	0.0	6.325	A
C-A	161	40			161				
A-B	12	3			12				
A-C	742	185			742				

# 2026 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.61	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D15	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	525	100.000
B - Thursby Road (South)		ONE HOUR	✓	80	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	412	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	58	467
	B - Thursby Road (South)	31	0	49
	C - Caldbeck Road (West)	283	129	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	6.64	0.1	A	45	67
B-A	0.09	10.66	0.1	B	28	43
C-AB	0.23	7.60	0.3	A	119	178
C-A					259	389
A-B					53	80
A-C					429	643

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	37	9	634	0.058	37	0.0	0.1	6.027	A
B-A	23	6	421	0.055	23	0.0	0.1	9.051	A
C-AB	97	24	648	0.150	97	0.0	0.2	6.522	A
C-A	213	53			213				
A-B	44	11			44				
A-C	352	88			352				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	44	11	618	0.071	44	0.1	0.1	6.271	A
B-A	28	7	400	0.070	28	0.1	0.1	9.665	A
C-AB	116	29	634	0.183	116	0.2	0.2	6.946	A
C-A	254	64			254				
A-B	52	13			52				
A-C	420	105			420				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	54	13	596	0.090	54	0.1	0.1	6.637	A
B-A	34	9	372	0.092	34	0.1	0.1	10.648	B
C-AB	143	36	617	0.232	143	0.2	0.3	7.590	A
C-A	311	78			311				
A-B	64	16			64				
A-C	514	129			514				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	54	13	596	0.090	54	0.1	0.1	6.638	A
B-A	34	9	372	0.092	34	0.1	0.1	10.656	B
C-AB	143	36	617	0.232	143	0.3	0.3	7.599	A
C-A	311	78			311				
A-B	64	16			64				
A-C	514	129			514				



09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	44	11	618	0.071	44	0.1	0.1	6.275	A
B-A	28	7	400	0.070	28	0.1	0.1	9.673	A
C-AB	116	29	634	0.183	117	0.3	0.2	6.957	A
C-A	254	64			254				
A-B	52	13			52				
A-C	420	105			420				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	37	9	633	0.058	37	0.1	0.1	6.038	A
B-A	23	6	421	0.055	23	0.1	0.1	9.064	A
C-AB	97	24	648	0.150	97	0.2	0.2	6.544	A
C-A	213	53			213				
A-B	44	11			44				
A-C	352	88			352				

# 2026 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.19	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D16	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	1036	100.000
B - Thursby Road (South)		ONE HOUR	✓	224	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	273	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	55	981
	B - Thursby Road (South)	44	0	180
	C - Caldbeck Road (West)	210	63	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.40	11.89	0.6	B	165	248
B-A	0.18	15.89	0.2	C	40	61
C-AB	0.14	8.22	0.2	A	58	87
C-A					193	289
A-B					50	76
A-C					900	1350

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	136	34	581	0.233	134	0.0	0.3	8.031	A
B-A	33	8	353	0.094	33	0.0	0.1	11.211	B
C-AB	47	12	575	0.083	47	0.0	0.1	6.818	A
C-A	158	40			158				
A-B	41	10			41				
A-C	739	185			739				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	548	0.295	161	0.3	0.4	9.290	A
B-A	40	10	322	0.123	39	0.1	0.1	12.732	B
C-AB	57	14	546	0.104	57	0.1	0.1	7.347	A
C-A	189	47			189				
A-B	49	12			49				
A-C	882	220			882				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	198	50	501	0.395	197	0.4	0.6	11.807	B
B-A	48	12	275	0.176	48	0.1	0.2	15.834	C
C-AB	69	17	507	0.137	69	0.1	0.2	8.212	A
C-A	231	58			231				
A-B	61	15			61				
A-C	1080	270			1080				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	198	50	501	0.396	198	0.6	0.6	11.886	B
B-A	48	12	275	0.176	48	0.2	0.2	15.892	C
C-AB	69	17	507	0.137	69	0.2	0.2	8.221	A
C-A	231	58			231				
A-B	61	15			61				
A-C	1080	270			1080				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	548	0.295	163	0.6	0.4	9.362	A
B-A	40	10	322	0.123	40	0.2	0.1	12.782	B
C-AB	57	14	546	0.104	57	0.2	0.1	7.355	A
C-A	189	47			189				
A-B	49	12			49				
A-C	882	220			882				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	136	34	581	0.233	136	0.4	0.3	8.098	A
B-A	33	8	353	0.094	33	0.1	0.1	11.257	B
C-AB	47	12	575	0.083	48	0.1	0.1	6.831	A
C-A	158	40			158				
A-B	41	10			41				
A-C	739	185			739				

# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.61	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D20	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	533	100.000
B - Thursby Road (South)		ONE HOUR	✓	80	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	412	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	58	475
	B - Thursby Road (South)	31	0	49
	C - Caldbeck Road (West)	283	129	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	6.66	0.1	A	45	67
B-A	0.09	10.70	0.1	B	28	43
C-AB	0.23	7.63	0.3	A	119	178
C-A					259	389
A-B					53	80
A-C					436	654

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	37	9	633	0.058	37	0.0	0.1	6.038	A
B-A	23	6	420	0.056	23	0.0	0.1	9.073	A
C-AB	97	24	647	0.150	97	0.0	0.2	6.535	A
C-A	213	53			213				
A-B	44	11			44				
A-C	358	89			358				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	44	11	617	0.071	44	0.1	0.1	6.286	A
B-A	28	7	399	0.070	28	0.1	0.1	9.695	A
C-AB	116	29	633	0.184	116	0.2	0.2	6.964	A
C-A	254	64			254				
A-B	52	13			52				
A-C	427	107			427				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	54	13	595	0.091	54	0.1	0.1	6.657	A
B-A	34	9	371	0.092	34	0.1	0.1	10.693	B
C-AB	143	36	615	0.232	143	0.2	0.3	7.617	A
C-A	311	78			311				
A-B	64	16			64				
A-C	523	131			523				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	54	13	595	0.091	54	0.1	0.1	6.658	A
B-A	34	9	371	0.092	34	0.1	0.1	10.701	B
C-AB	143	36	615	0.232	143	0.3	0.3	7.626	A
C-A	311	78			311				
A-B	64	16			64				
A-C	523	131			523				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	44	11	617	0.071	44	0.1	0.1	6.292	A
B-A	28	7	399	0.070	28	0.1	0.1	9.704	A
C-AB	116	29	633	0.184	117	0.3	0.2	6.975	A
C-A	254	64			254				
A-B	52	13			52				
A-C	427	107			427				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	37	9	632	0.058	37	0.1	0.1	6.047	A
B-A	23	6	420	0.056	23	0.1	0.1	9.086	A
C-AB	97	24	647	0.150	97	0.2	0.2	6.558	A
C-A	213	53			213				
A-B	44	11			44				
A-C	358	89			358				

# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.19	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D21	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Caldbeck Road (East)		ONE HOUR	✓	1052	100.000
B - Thursby Road (South)		ONE HOUR	✓	224	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	273	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	55	997
	B - Thursby Road (South)	44	0	180
	C - Caldbeck Road (West)	210	63	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Caldbeck Road (East)	B - Thursby Road (South)	C - Caldbeck Road (West)
From	A - Caldbeck Road (East)	0	0	0
	B - Thursby Road (South)	0	0	0
	C - Caldbeck Road (West)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.40	12.03	0.7	B	165	248
B-A	0.18	16.10	0.2	C	40	61
C-AB	0.14	8.28	0.2	A	58	87
C-A					193	289
A-B					50	76
A-C					915	1372

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	136	34	579	0.234	134	0.0	0.3	8.074	A
B-A	33	8	352	0.094	33	0.0	0.1	11.278	B
C-AB	47	12	572	0.083	47	0.0	0.1	6.847	A
C-A	158	40			158				
A-B	41	10			41				
A-C	751	188			751				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	546	0.297	161	0.3	0.4	9.359	A
B-A	40	10	320	0.124	39	0.1	0.1	12.836	B
C-AB	57	14	544	0.104	57	0.1	0.1	7.388	A
C-A	189	47			189				
A-B	49	12			49				
A-C	896	224			896				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	198	50	498	0.398	197	0.4	0.6	11.910	B
B-A	48	12	272	0.178	48	0.1	0.2	16.040	C
C-AB	69	17	504	0.138	69	0.1	0.2	8.277	A
C-A	231	58			231				
A-B	61	15			61				
A-C	1098	274			1098				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	198	50	497	0.398	198	0.6	0.7	12.029	B
B-A	48	12	272	0.178	48	0.2	0.2	16.100	C
C-AB	69	17	504	0.138	69	0.2	0.2	8.284	A
C-A	231	58			231				
A-B	61	15			61				
A-C	1098	274			1098				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	545	0.297	163	0.7	0.4	9.433	A
B-A	40	10	319	0.124	40	0.2	0.1	12.886	B
C-AB	57	14	544	0.104	57	0.2	0.1	7.399	A
C-A	189	47			189				
A-B	49	12			49				
A-C	896	224			896				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	136	34	579	0.234	136	0.4	0.3	8.142	A
B-A	33	8	351	0.094	33	0.1	0.1	11.323	B
C-AB	47	12	572	0.083	48	0.1	0.1	6.861	A
C-A	158	40			158				
A-B	41	10			41				
A-C	751	188			751				

# APPENDIX L

Welton Road (East) / Caldbeck Road – PICADY Modelling

<h1>Junctions 9</h1>
<h2>PICADY 9 - Priority Intersection Module</h2>
Version: 9.0.2.5947 © Copyright TRL Limited, 2017
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk
<b>The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution</b>

**Filename:** 3\_Welton Road (East)\_Caldbeck Road.j9

**Path:** C:\Users\manch\Dropbox (mode)\Project\Manchester\2. Projects\J325601\_Croft Retail Park, Welton Road\4. Data\6. Junction Capacity Assessments\PICADY\3\_Welton Road (east)\_Caldbeck Road

**Report generation date:** 28/05/2021 09:21:16

- 
- »2018 Base, AM
  - »2018 Base, PM
  - »2021 Base, AM
  - »2021 Base, PM
  - »2021 Base + CD, AM
  - »2021 Base + CD, PM
  - »2021 Base + CD + Dev, AM
  - »2021 Base + CD + Dev, PM
  - »2026 Base, AM
  - »2026 Base, PM
  - »2026 Base + CD, AM
  - »2026 Base + CD, PM
  - »2026 Base + CD + Dev, AM
  - »2026 Base + CD + Dev, PM

## Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)
<b>2018 Base</b>								
Stream B-AC	0.3	7.63	0.22	2.78	0.6	12.16	0.38	1.90
Stream C-AB	0.4	9.01	0.29		0.1	9.08	0.10	
<b>2021 Base</b>								
Stream B-AC	0.3	7.78	0.23	2.85	0.7	12.85	0.40	1.99
Stream C-AB	0.4	9.26	0.31		0.1	9.28	0.10	
<b>2021 Base + CD</b>								
Stream B-AC	0.4	8.14	0.27	3.27	1.0	15.13	0.50	2.93
Stream C-AB	0.5	9.82	0.35		0.3	10.46	0.20	
<b>2021 Base + CD + Dev</b>								
Stream B-AC	0.4	8.18	0.27	3.26	1.0	15.46	0.50	2.95
Stream C-AB	0.5	9.89	0.35		0.3	10.62	0.21	
<b>2026 Base</b>								
Stream B-AC	0.3	8.02	0.24	2.94	0.7	13.78	0.43	2.12
Stream C-AB	0.5	9.59	0.32		0.1	9.61	0.11	
<b>2026 Base + CD</b>								
Stream B-AC	0.4	8.40	0.28	3.37	1.1	16.44	0.52	3.12
Stream C-AB	0.6	10.18	0.36		0.3	10.89	0.21	
<b>2026 Base + CD + Dev</b>								
Stream B-AC	0.4	8.47	0.28	3.37	1.1	16.83	0.53	3.15
Stream C-AB	0.6	10.25	0.37		0.3	11.06	0.22	

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. Junction LOS and Junction Delay are demand-weighted averages.

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	04/12/2018
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-J595SBC\Manchester Mode
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

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

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓
D6	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D7	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D10	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D11	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓
D18	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓
D19	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓
D22	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D23	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D24	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D25	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# 2018 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.78	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Welton Road		Major
B	Caldbeck Road (East)		Minor
C	Caldbeck Road (West)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Caldbeck Road (West)	7.50		✓	2.80	115.0	✓	6.00

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 - Caldbeck Road (East)	One lane	4.50	250	35

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	663	0.113	0.285	0.179	0.407
1	B-C	743	0.106	0.269	-	-
1	C-B	682	0.247	0.247	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	428	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	121	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	272	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	70	358
	B - Caldbeck Road (East)	12	0	109
	C - Caldbeck Road (West)	121	151	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.22	7.63	0.3	A	111	167
C-AB	0.29	9.01	0.4	A	139	208
C-A					111	167
A-B					64	96
A-C					329	493



## Main Results for each time segment

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.141	90	0.0	0.2	6.467	A
C-AB	114	28	603	0.189	113	0.0	0.2	7.333	A
C-A	91	23			91				
A-B	53	13			53				
A-C	270	67			270				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	629	0.173	109	0.2	0.2	6.914	A
C-AB	136	34	587	0.231	135	0.2	0.3	7.962	A
C-A	109	27			109				
A-B	63	16			63				
A-C	322	80			322				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	133	33	605	0.220	133	0.2	0.3	7.623	A
C-AB	166	42	566	0.294	166	0.3	0.4	8.986	A
C-A	133	33			133				
A-B	77	19			77				
A-C	394	99			394				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	133	33	605	0.220	133	0.3	0.3	7.633	A
C-AB	166	42	566	0.294	166	0.4	0.4	9.005	A
C-A	133	33			133				
A-B	77	19			77				
A-C	394	99			394				

### 09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	629	0.173	109	0.3	0.2	6.925	A
C-AB	136	34	587	0.231	136	0.4	0.3	7.987	A
C-A	109	27			109				
A-B	63	16			63				
A-C	322	80			322				

### 09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	646	0.141	91	0.2	0.2	6.488	A
C-AB	114	28	603	0.189	114	0.3	0.2	7.368	A
C-A	91	23			91				
A-B	53	13			53				
A-C	270	67			270				

# 2018 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.90	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	889	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	167	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	203	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	113	776
	B - Caldbeck Road (East)	17	0	150
	C - Caldbeck Road (West)	163	40	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.38	12.16	0.6	B	153	230
C-AB	0.10	9.08	0.1	A	37	55
C-A					150	224
A-B					104	156
A-C					712	1068

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	126	31	561	0.224	125	0.0	0.3	8.228	A
C-AB	30	8	517	0.058	30	0.0	0.1	7.387	A
C-A	123	31			123				
A-B	85	21			85				
A-C	584	146			584				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	150	38	527	0.285	150	0.3	0.4	9.529	A
C-AB	36	9	485	0.074	36	0.1	0.1	8.017	A
C-A	147	37			147				
A-B	102	25			102				
A-C	698	174			698				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	184	46	480	0.383	183	0.4	0.6	12.090	B
C-AB	44	11	440	0.100	44	0.1	0.1	9.074	A
C-A	179	45			179				
A-B	124	31			124				
A-C	854	214			854				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	184	46	480	0.383	184	0.6	0.6	12.159	B
C-AB	44	11	440	0.100	44	0.1	0.1	9.080	A
C-A	179	45			179				
A-B	124	31			124				
A-C	854	214			854				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	150	38	527	0.285	151	0.6	0.4	9.592	A
C-AB	36	9	485	0.074	36	0.1	0.1	8.024	A
C-A	147	37			147				
A-B	102	25			102				
A-C	698	174			698				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	126	31	561	0.224	126	0.4	0.3	8.289	A
C-AB	30	8	517	0.058	30	0.1	0.1	7.395	A
C-A	123	31			123				
A-B	85	21			85				
A-C	584	146			584				

# 2021 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.85	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	445	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	125	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	283	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	73	372
	B - Caldbeck Road (East)	12	0	113
	C - Caldbeck Road (West)	126	157	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.23	7.78	0.3	A	115	172
C-AB	0.31	9.26	0.4	A	144	216
C-A					116	173
A-B					67	100
A-C					341	512

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	644	0.146	93	0.0	0.2	6.535	A
C-AB	118	30	600	0.197	117	0.0	0.2	7.448	A
C-A	95	24			95				
A-B	55	14			55				
A-C	280	70			280				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	112	28	626	0.180	112	0.2	0.2	7.011	A
C-AB	141	35	584	0.242	141	0.2	0.3	8.127	A
C-A	113	28			113				
A-B	66	16			66				
A-C	334	84			334				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	138	34	600	0.229	137	0.2	0.3	7.771	A
C-AB	173	43	561	0.308	172	0.3	0.4	9.241	A
C-A	139	35			139				
A-B	80	20			80				
A-C	410	102			410				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	138	34	600	0.229	138	0.3	0.3	7.781	A
C-AB	173	43	561	0.308	173	0.4	0.4	9.265	A
C-A	139	35			139				
A-B	80	20			80				
A-C	410	102			410				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	112	28	625	0.180	113	0.3	0.2	7.026	A
C-AB	141	35	584	0.242	142	0.4	0.3	8.154	A
C-A	113	28			113				
A-B	66	16			66				
A-C	334	84			334				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	644	0.146	94	0.2	0.2	6.556	A
C-AB	118	30	600	0.197	118	0.3	0.2	7.486	A
C-A	95	24			95				
A-B	55	14			55				
A-C	280	70			280				

# 2021 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.99	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	920	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	173	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	209	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	117	803
	B - Caldbeck Road (East)	18	0	155
	C - Caldbeck Road (West)	169	40	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.40	12.85	0.7	B	159	238
C-AB	0.10	9.28	0.1	A	37	55
C-A					155	233
A-B					107	161
A-C					737	1105

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	555	0.235	129	0.0	0.3	8.435	A
C-AB	30	8	511	0.059	30	0.0	0.1	7.476	A
C-A	127	32			127				
A-B	88	22			88				
A-C	605	151			605				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	156	39	519	0.299	155	0.3	0.4	9.865	A
C-AB	36	9	478	0.075	36	0.1	0.1	8.142	A
C-A	152	38			152				
A-B	105	26			105				
A-C	722	180			722				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	190	48	471	0.405	190	0.4	0.7	12.766	B
C-AB	44	11	432	0.102	44	0.1	0.1	9.272	A
C-A	186	47			186				
A-B	129	32			129				
A-C	884	221			884				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	190	48	471	0.405	190	0.7	0.7	12.849	B
C-AB	44	11	432	0.102	44	0.1	0.1	9.277	A
C-A	186	47			186				
A-B	129	32			129				
A-C	884	221			884				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	156	39	519	0.299	156	0.7	0.4	9.944	A
C-AB	36	9	478	0.075	36	0.1	0.1	8.148	A
C-A	152	38			152				
A-B	105	26			105				
A-C	722	180			722				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	555	0.235	131	0.4	0.3	8.502	A
C-AB	30	8	511	0.059	30	0.1	0.1	7.484	A
C-A	127	32			127				
A-B	88	22			88				
A-C	605	151			605				

# 2021 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.27	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D6	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	445	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	145	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	303	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	73	372
	B - Caldbeck Road (East)	12	0	133
	C - Caldbeck Road (West)	126	177	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.27	8.14	0.4	A	133	200
C-AB	0.35	9.82	0.5	A	162	244
C-A					116	173
A-B					67	100
A-C					341	512

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	645	0.169	108	0.0	0.2	6.696	A
C-AB	133	33	600	0.222	132	0.0	0.3	7.683	A
C-A	95	24			95				
A-B	55	14			55				
A-C	280	70			280				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	627	0.208	130	0.2	0.3	7.238	A
C-AB	159	40	584	0.273	159	0.3	0.4	8.468	A
C-A	113	28			113				
A-B	66	16			66				
A-C	334	84			334				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	602	0.265	159	0.3	0.4	8.122	A
C-AB	195	49	562	0.347	194	0.4	0.5	9.787	A
C-A	139	35			139				
A-B	80	20			80				
A-C	410	102			410				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	602	0.265	160	0.4	0.4	8.137	A
C-AB	195	49	562	0.347	195	0.5	0.5	9.820	A
C-A	139	35			139				
A-B	80	20			80				
A-C	410	102			410				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	627	0.208	131	0.4	0.3	7.259	A
C-AB	159	40	584	0.273	160	0.5	0.4	8.505	A
C-A	113	28			113				
A-B	66	16			66				
A-C	334	84			334				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	645	0.169	109	0.3	0.2	6.721	A
C-AB	133	33	600	0.222	134	0.4	0.3	7.731	A
C-A	95	24			95				
A-B	55	14			55				
A-C	280	70			280				

# 2021 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.93	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D7	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	920	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	212	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	249	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	117	803
	B - Caldbeck Road (East)	18	0	194
	C - Caldbeck Road (West)	169	80	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.50	15.13	1.0	C	195	292
C-AB	0.20	10.46	0.3	B	73	110
C-A					155	233
A-B					107	161
A-C					737	1105

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	556	0.287	158	0.0	0.4	9.012	A
C-AB	60	15	511	0.118	60	0.0	0.1	7.965	A
C-A	127	32			127				
A-B	88	22			88				
A-C	605	151			605				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	191	48	521	0.366	190	0.4	0.6	10.865	B
C-AB	72	18	478	0.150	72	0.1	0.2	8.858	A
C-A	152	38			152				
A-B	105	26			105				
A-C	722	180			722				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	233	58	471	0.495	232	0.6	1.0	14.945	B
C-AB	88	22	432	0.204	88	0.2	0.3	10.446	B
C-A	186	47			186				
A-B	129	32			129				
A-C	884	221			884				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	233	58	471	0.495	233	1.0	1.0	15.130	C
C-AB	88	22	432	0.204	88	0.3	0.3	10.465	B
C-A	186	47			186				
A-B	129	32			129				
A-C	884	221			884				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	191	48	521	0.366	192	1.0	0.6	11.010	B
C-AB	72	18	478	0.150	72	0.3	0.2	8.878	A
C-A	152	38			152				
A-B	105	26			105				
A-C	722	180			722				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	556	0.287	160	0.6	0.4	9.119	A
C-AB	60	15	511	0.118	60	0.2	0.1	7.990	A
C-A	127	32			127				
A-B	88	22			88				
A-C	605	151			605				



# 2021 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.26	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D10	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	454	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	145	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	303	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	74	380
	B - Caldbeck Road (East)	12	0	133
	C - Caldbeck Road (West)	126	177	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.27	8.18	0.4	A	133	200
C-AB	0.35	9.89	0.5	A	162	244
C-A					116	173
A-B					68	102
A-C					349	523

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	644	0.170	108	0.0	0.2	6.717	A
C-AB	133	33	598	0.223	132	0.0	0.3	7.710	A
C-A	95	24			95				
A-B	56	14			56				
A-C	286	72			286				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	625	0.209	130	0.2	0.3	7.268	A
C-AB	159	40	582	0.274	159	0.3	0.4	8.508	A
C-A	113	28			113				
A-B	67	17			67				
A-C	342	85			342				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	600	0.266	159	0.3	0.4	8.169	A
C-AB	195	49	559	0.349	194	0.4	0.5	9.853	A
C-A	139	35			139				
A-B	81	20			81				
A-C	418	105			418				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	599	0.266	160	0.4	0.4	8.185	A
C-AB	195	49	559	0.349	195	0.5	0.5	9.885	A
C-A	139	35			139				
A-B	81	20			81				
A-C	418	105			418				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	130	33	625	0.209	131	0.4	0.3	7.289	A
C-AB	159	40	582	0.274	160	0.5	0.4	8.547	A
C-A	113	28			113				
A-B	67	17			67				
A-C	342	85			342				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	109	27	643	0.170	109	0.3	0.2	6.743	A
C-AB	133	33	598	0.223	134	0.4	0.3	7.761	A
C-A	95	24			95				
A-B	56	14			56				
A-C	286	72			286				

# 2021 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.95	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D11	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	939	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	212	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	249	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	121	818
	B - Caldbeck Road (East)	18	0	194
	C - Caldbeck Road (West)	169	80	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.50	15.46	1.0	C	195	292
C-AB	0.21	10.62	0.3	B	73	110
C-A					155	233
A-B					111	167
A-C					751	1126

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	552	0.289	158	0.0	0.4	9.090	A
C-AB	60	15	508	0.119	60	0.0	0.1	8.024	A
C-A	127	32			127				
A-B	91	23			91				
A-C	616	154			616				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	191	48	516	0.369	190	0.4	0.6	10.999	B
C-AB	72	18	474	0.152	72	0.1	0.2	8.951	A
C-A	152	38			152				
A-B	109	27			109				
A-C	735	184			735				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	233	58	466	0.501	232	0.6	1.0	15.260	C
C-AB	88	22	427	0.206	88	0.2	0.3	10.606	B
C-A	186	47			186				
A-B	133	33			133				
A-C	901	225			901				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	233	58	466	0.501	233	1.0	1.0	15.456	C
C-AB	88	22	427	0.206	88	0.3	0.3	10.624	B
C-A	186	47			186				
A-B	133	33			133				
A-C	901	225			901				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	191	48	516	0.369	192	1.0	0.6	11.155	B
C-AB	72	18	474	0.152	72	0.3	0.2	8.971	A
C-A	152	38			152				
A-B	109	27			109				
A-C	735	184			735				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	160	40	552	0.289	160	0.6	0.4	9.199	A
C-AB	60	15	508	0.119	60	0.2	0.1	8.051	A
C-A	127	32			127				
A-B	91	23			91				
A-C	616	154			616				

# 2026 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.94	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D18	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	465	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	131	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	295	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	76	389
	B - Caldbeck Road (East)	13	0	118
	C - Caldbeck Road (West)	131	164	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	8.02	0.3	A	120	180
C-AB	0.32	9.59	0.5	A	151	226
C-A					120	180
A-B					70	105
A-C					357	535

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	99	25	639	0.154	98	0.0	0.2	6.647	A
C-AB	123	31	596	0.207	122	0.0	0.3	7.586	A
C-A	99	25			99				
A-B	57	14			57				
A-C	293	73			293				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	118	29	620	0.190	118	0.2	0.2	7.164	A
C-AB	147	37	579	0.255	147	0.3	0.3	8.327	A
C-A	118	29			118				
A-B	68	17			68				
A-C	350	87			350				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	144	36	593	0.243	144	0.2	0.3	8.006	A
C-AB	181	45	556	0.325	180	0.3	0.5	9.561	A
C-A	144	36			144				
A-B	84	21			84				
A-C	428	107			428				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	144	36	593	0.243	144	0.3	0.3	8.018	A
C-AB	181	45	556	0.325	181	0.5	0.5	9.589	A
C-A	144	36			144				
A-B	84	21			84				
A-C	428	107			428				



09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	118	29	620	0.190	118	0.3	0.2	7.182	A
C-AB	147	37	579	0.255	148	0.5	0.3	8.361	A
C-A	118	29			118				
A-B	68	17			68				
A-C	350	87			350				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	99	25	639	0.154	99	0.2	0.2	6.672	A
C-AB	123	31	596	0.207	124	0.3	0.3	7.630	A
C-A	99	25			99				
A-B	57	14			57				
A-C	293	73			293				

# 2026 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.12	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D19	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	961	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	180	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	218	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	122	839
	B - Caldbeck Road (East)	18	0	162
	C - Caldbeck Road (West)	176	42	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.43	13.78	0.7	B	165	248
C-AB	0.11	9.61	0.1	A	39	58
C-A					162	242
A-B					112	168
A-C					770	1155

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	547	0.248	134	0.0	0.3	8.691	A
C-AB	32	8	504	0.063	31	0.0	0.1	7.620	A
C-A	133	33			133				
A-B	92	23			92				
A-C	632	158			632				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	162	40	510	0.317	161	0.3	0.5	10.294	B
C-AB	38	9	469	0.081	38	0.1	0.1	8.349	A
C-A	158	40			158				
A-B	110	27			110				
A-C	754	189			754				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	198	50	459	0.431	197	0.5	0.7	13.667	B
C-AB	46	12	421	0.110	46	0.1	0.1	9.605	A
C-A	194	48			194				
A-B	134	34			134				
A-C	924	231			924				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	198	50	459	0.432	198	0.7	0.7	13.781	B
C-AB	46	12	421	0.110	46	0.1	0.1	9.608	A
C-A	194	48			194				
A-B	134	34			134				
A-C	924	231			924				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	162	40	510	0.317	163	0.7	0.5	10.390	B
C-AB	38	9	469	0.081	38	0.1	0.1	8.355	A
C-A	158	40			158				
A-B	110	27			110				
A-C	754	189			754				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	547	0.248	136	0.5	0.3	8.768	A
C-AB	32	8	504	0.063	32	0.1	0.1	7.632	A
C-A	133	33			133				
A-B	92	23			92				
A-C	632	158			632				

# 2026 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.37	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D22	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	465	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	151	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	315	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	76	389
	B - Caldbeck Road (East)	13	0	138
	C - Caldbeck Road (West)	131	184	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.28	8.40	0.4	A	139	208
C-AB	0.36	10.18	0.6	B	169	253
C-A					120	180
A-B					70	105
A-C					357	535

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	28	640	0.178	113	0.0	0.2	6.811	A
C-AB	139	35	596	0.232	137	0.0	0.3	7.831	A
C-A	99	25			99				
A-B	57	14			57				
A-C	293	73			293				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	621	0.218	135	0.2	0.3	7.404	A
C-AB	165	41	579	0.286	165	0.3	0.4	8.686	A
C-A	118	29			118				
A-B	68	17			68				
A-C	350	87			350				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	166	42	595	0.279	166	0.3	0.4	8.380	A
C-AB	203	51	556	0.364	202	0.4	0.6	10.145	B
C-A	144	36			144				
A-B	84	21			84				
A-C	428	107			428				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	166	42	595	0.279	166	0.4	0.4	8.397	A
C-AB	203	51	556	0.364	203	0.6	0.6	10.181	B
C-A	144	36			144				
A-B	84	21			84				
A-C	428	107			428				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	136	34	621	0.218	136	0.4	0.3	7.426	A
C-AB	165	41	579	0.286	166	0.6	0.4	8.730	A
C-A	118	29			118				
A-B	68	17			68				
A-C	350	87			350				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	28	640	0.178	114	0.3	0.2	6.841	A
C-AB	139	35	596	0.232	139	0.4	0.3	7.886	A
C-A	99	25			99				
A-B	57	14			57				
A-C	293	73			293				

# 2026 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.12	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D23	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	961	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	219	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	258	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	122	839
	B - Caldbeck Road (East)	18	0	201
	C - Caldbeck Road (West)	176	82	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.52	16.44	1.1	C	201	301
C-AB	0.21	10.89	0.3	B	75	113
C-A					161	242
A-B					112	168
A-C					770	1155

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	165	41	548	0.301	163	0.0	0.4	9.306	A
C-AB	62	15	504	0.123	61	0.0	0.1	8.128	A
C-A	133	33			133				
A-B	92	23			92				
A-C	632	158			632				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	197	49	511	0.385	196	0.4	0.6	11.388	B
C-AB	74	18	469	0.157	74	0.1	0.2	9.102	A
C-A	158	40			158				
A-B	110	27			110				
A-C	754	189			754				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	241	60	460	0.524	239	0.6	1.1	16.193	C
C-AB	90	23	421	0.215	90	0.2	0.3	10.866	B
C-A	194	48			194				
A-B	134	34			134				
A-C	924	231			924				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	241	60	460	0.524	241	1.1	1.1	16.442	C
C-AB	90	23	421	0.215	90	0.3	0.3	10.887	B
C-A	194	48			194				
A-B	134	34			134				
A-C	924	231			924				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	197	49	511	0.385	199	1.1	0.6	11.576	B
C-AB	74	18	469	0.157	74	0.3	0.2	9.124	A
C-A	158	40			158				
A-B	110	27			110				
A-C	754	189			754				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	165	41	548	0.301	166	0.6	0.4	9.428	A
C-AB	62	15	504	0.123	62	0.2	0.1	8.155	A
C-A	133	33			133				
A-B	92	23			92				
A-C	632	158			632				

# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.37	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D24	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	474	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	152	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	315	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	77	397
	B - Caldbeck Road (East)	13	0	139
	C - Caldbeck Road (West)	131	184	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.28	8.47	0.4	A	139	209
C-AB	0.37	10.25	0.6	B	169	253
C-A					120	180
A-B					71	106
A-C					364	546

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	29	639	0.179	114	0.0	0.2	6.842	A
C-AB	139	35	594	0.233	137	0.0	0.3	7.859	A
C-A	99	25			99				
A-B	58	14			58				
A-C	299	75			299				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	137	34	620	0.221	136	0.2	0.3	7.448	A
C-AB	165	41	577	0.287	165	0.3	0.4	8.728	A
C-A	118	29			118				
A-B	69	17			69				
A-C	357	89			357				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	167	42	593	0.282	167	0.3	0.4	8.449	A
C-AB	203	51	554	0.366	202	0.4	0.6	10.214	B
C-A	144	36			144				
A-B	85	21			85				
A-C	437	109			437				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	167	42	593	0.282	167	0.4	0.4	8.467	A
C-AB	203	51	554	0.366	203	0.6	0.6	10.252	B
C-A	144	36			144				
A-B	85	21			85				
A-C	437	109			437				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	137	34	619	0.221	137	0.4	0.3	7.467	A
C-AB	165	41	577	0.287	166	0.6	0.4	8.771	A
C-A	118	29			118				
A-B	69	17			69				
A-C	357	89			357				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	114	29	639	0.179	115	0.3	0.2	6.874	A
C-AB	139	35	594	0.233	139	0.4	0.3	7.913	A
C-A	99	25			99				
A-B	58	14			58				
A-C	299	75			299				

# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.15	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D25	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road		ONE HOUR	✓	980	100.000
B - Caldbeck Road (East)		ONE HOUR	✓	219	100.000
C - Caldbeck Road (West)		ONE HOUR	✓	258	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	126	854
	B - Caldbeck Road (East)	18	0	201
	C - Caldbeck Road (West)	176	82	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road	B - Caldbeck Road (East)	C - Caldbeck Road (West)
From	A - Welton Road	0	0	0
	B - Caldbeck Road (East)	0	0	0
	C - Caldbeck Road (West)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.53	16.83	1.1	C	201	301
C-AB	0.22	11.06	0.3	B	75	113
C-A					161	242
A-B					116	173
A-C					784	1175

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	165	41	545	0.303	163	0.0	0.4	9.390	A
C-AB	62	15	500	0.123	61	0.0	0.1	8.193	A
C-A	133	33			133				
A-B	95	24			95				
A-C	643	161			643				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	197	49	507	0.388	196	0.4	0.6	11.535	B
C-AB	74	18	465	0.159	74	0.1	0.2	9.199	A
C-A	158	40			158				
A-B	113	28			113				
A-C	768	192			768				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	241	60	455	0.530	239	0.6	1.1	16.560	C
C-AB	90	23	416	0.217	90	0.2	0.3	11.036	B
C-A	194	48			194				
A-B	139	35			139				
A-C	940	235			940				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	241	60	455	0.530	241	1.1	1.1	16.831	C
C-AB	90	23	416	0.217	90	0.3	0.3	11.060	B
C-A	194	48			194				
A-B	139	35			139				
A-C	940	235			940				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	197	49	507	0.388	199	1.1	0.6	11.736	B
C-AB	74	18	465	0.159	74	0.3	0.2	9.224	A
C-A	158	40			158				
A-B	113	28			113				
A-C	768	192			768				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	165	41	545	0.303	166	0.6	0.4	9.516	A
C-AB	62	15	500	0.123	62	0.2	0.1	8.221	A
C-A	133	33			133				
A-B	95	24			95				
A-C	643	161			643				



# APPENDIX M

Welton Road / Stadium Road – PICADY Modelling

<h1>Junctions 9</h1>
<h2>PICADY 9 - Priority Intersection Module</h2>
Version: 9.0.2.5947 © Copyright TRL Limited, 2017
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk
<b>The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution</b>

**Filename:** 5\_Welton Road\_Stadium Road.j9

**Path:** C:\Users\manch\Dropbox (mode)\Project\Manchester\2. Projects\J325601\_Croft Retail Park, Welton Road\4. Data\6. Junction Capacity Assessments\PICADY\5\_Welton Road\_Stadium Road

**Report generation date:** 28/05/2021 09:43:53

- 
- »2018 Base, AM
  - »2018 Base, PM
  - »2021 Base, AM
  - »2021 Base, PM
  - »2021 Base + CD, AM
  - »2021 Base + CD, PM
  - »2021 Base + CD + Dev, AM
  - »2021 Base + CD + Dev, PM
  - »2026 Base, AM
  - »2026 Base, PM
  - »2026 Base + CD, AM
  - »2026 Base + CD, PM
  - »2026 Base + CD + Dev, AM
  - »2026 Base + CD + Dev, PM

## Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)
<b>2018 Base</b>								
Stream B-C	0.3	6.99	0.23	2.35	4.9	37.25	0.85	16.18
Stream B-A	0.1	12.23	0.09		0.8	34.55	0.46	
Stream C-AB	0.2	6.07	0.20		0.5	7.78	0.33	
<b>2021 Base</b>								
Stream B-C	0.3	7.10	0.24	2.39	6.5	48.06	0.89	21.02
Stream B-A	0.1	12.50	0.09		1.2	52.08	0.58	
Stream C-AB	0.3	6.16	0.20		0.5	7.99	0.34	
<b>2021 Base + CD</b>								
Stream B-C	0.3	7.17	0.24	2.34	7.3	54.11	0.90	23.13
Stream B-A	0.1	12.74	0.09		1.6	68.36	0.65	
Stream C-AB	0.3	6.21	0.21		0.5	8.15	0.35	
<b>2021 Base + CD + Dev</b>								
Stream B-C	0.3	7.20	0.24	2.36	8.4	61.10	0.92	27.22
Stream B-A	0.1	12.76	0.09		2.2	95.46	0.75	
Stream C-AB	0.3	6.22	0.21		0.5	8.17	0.35	
<b>2026 Base</b>								
Stream B-C	0.3	7.27	0.25	2.44	10.2	71.69	0.95	35.43
Stream B-A	0.1	12.86	0.10		4.1	155.29	0.93	
Stream C-AB	0.3	6.27	0.21		0.6	8.30	0.36	
<b>2026 Base + CD</b>								
Stream B-C	0.3	7.34	0.25	2.39	12.1	83.57	0.97	38.88
Stream B-A	0.1	13.11	0.10		4.4	171.13	0.93	
Stream C-AB	0.3	6.32	0.22		0.6	8.47	0.37	
<b>2026 Base + CD + Dev</b>								
Stream B-C	0.3	7.37	0.26	2.42	14.6	96.78	0.99	44.80
Stream B-A	0.1	13.14	0.10		4.8	192.36	0.92	
Stream C-AB	0.3	6.34	0.22		0.6	8.47	0.37	

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. Junction LOS and Junction Delay are demand-weighted averages.

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	03/12/2018
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-J595SBC\Manchester Mode
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

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

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓
D6	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D7	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D8	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D9	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓
D20	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓
D21	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓
D22	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D23	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D24	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D25	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# 2018 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.35	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Stadium Road (South)		Major
B	Welton Road (West)		Minor
C	Stadium Road (North)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Stadium Road (North)	6.90		✓	3.40	250.0	✓	8.00

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

### Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Welton Road (West)	One lane plus flare	10.00	8.00	6.00	4.80	4.40		3.00	42	37

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	462	0.081	0.205	0.129	0.292
1	B-C	748	0.110	0.279	-	-
1	C-B	813	0.303	0.303	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	227	100.000
B - Welton Road (West)		ONE HOUR	✓	165	100.000
C - Stadium Road (North)		ONE HOUR	✓	491	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	30	197
	B - Welton Road (West)	25	0	140
	C - Stadium Road (North)	360	131	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.23	6.99	0.3	A	128	193
B-A	0.09	12.23	0.1	B	23	34
C-AB	0.20	6.07	0.2	A	120	180
C-A					330	496
A-B					28	41
A-C					181	271

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	105	26	696	0.152	105	0.0	0.2	6.085	A
B-A	19	5	367	0.051	19	0.0	0.1	10.340	B
C-AB	99	25	761	0.130	98	0.0	0.1	5.426	A
C-A	271	68			271				
A-B	23	6			23				
A-C	148	37			148				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	126	31	685	0.184	126	0.2	0.2	6.438	A
B-A	22	6	348	0.065	22	0.1	0.1	11.065	B
C-AB	118	29	751	0.157	118	0.1	0.2	5.683	A
C-A	324	81			324				
A-B	27	7			27				
A-C	177	44			177				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	154	39	669	0.230	154	0.2	0.3	6.979	A
B-A	28	7	322	0.086	27	0.1	0.1	12.221	B
C-AB	144	36	737	0.196	144	0.2	0.2	6.071	A
C-A	396	99			396				
A-B	33	8			33				
A-C	217	54			217				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	154	39	669	0.230	154	0.3	0.3	6.985	A
B-A	28	7	322	0.086	28	0.1	0.1	12.230	B
C-AB	144	36	737	0.196	144	0.2	0.2	6.072	A
C-A	396	99			396				
A-B	33	8			33				
A-C	217	54			217				

#### 09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	126	31	685	0.184	126	0.3	0.2	6.449	A
B-A	22	6	348	0.065	23	0.1	0.1	11.075	B
C-AB	118	29	751	0.157	118	0.2	0.2	5.691	A
C-A	324	81			324				
A-B	27	7			27				
A-C	177	44			177				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	105	26	695	0.152	106	0.2	0.2	6.108	A
B-A	19	5	366	0.051	19	0.1	0.1	10.362	B
C-AB	99	25	761	0.130	99	0.2	0.1	5.437	A
C-A	271	68			271				
A-B	23	6			23				
A-C	148	37			148				



# 2018 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	16.18	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	367	100.000
B - Welton Road (West)		ONE HOUR	✓	536	100.000
C - Stadium Road (North)		ONE HOUR	✓	417	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	60	307
	B - Welton Road (West)	80	0	456
	C - Stadium Road (North)	210	207	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.85	37.25	4.9	E	418	628
B-A	0.46	34.55	0.8	D	73	110
C-AB	0.33	7.78	0.5	A	190	285
C-A					193	289
A-B					55	83
A-C					282	423

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	343	86	649	0.529	339	0.0	1.1	11.441	B
B-A	60	15	335	0.180	59	0.0	0.2	12.998	B
C-AB	156	39	729	0.214	155	0.0	0.3	6.257	A
C-A	158	40			158				
A-B	45	11			45				
A-C	231	58			231				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	410	102	627	0.653	407	1.1	1.8	16.123	C
B-A	72	18	295	0.244	72	0.2	0.3	16.103	C
C-AB	186	47	713	0.261	186	0.3	0.3	6.825	A
C-A	189	47			189				
A-B	54	13			54				
A-C	276	69			276				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	502	126	594	0.845	491	1.8	4.4	32.049	D
B-A	88	22	202	0.436	86	0.3	0.7	30.704	D
C-AB	228	57	690	0.330	227	0.3	0.5	7.765	A
C-A	231	58			231				
A-B	66	17			66				
A-C	338	85			338				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	502	126	593	0.846	500	4.4	4.9	37.246	E
B-A	88	22	191	0.460	88	0.7	0.8	34.548	D
C-AB	228	57	690	0.330	228	0.5	0.5	7.783	A
C-A	231	58			231				
A-B	66	17			66				
A-C	338	85			338				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	410	102	626	0.655	421	4.9	2.0	18.475	C
B-A	72	18	289	0.249	74	0.8	0.3	16.902	C
C-AB	186	47	713	0.261	187	0.5	0.4	6.847	A
C-A	189	47			189				
A-B	54	13			54				
A-C	276	69			276				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	343	86	649	0.529	347	2.0	1.2	12.046	B
B-A	60	15	334	0.180	61	0.3	0.2	13.202	B
C-AB	156	39	729	0.214	156	0.4	0.3	6.287	A
C-A	158	40			158				
A-B	45	11			45				
A-C	231	58			231				

# 2021 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.39	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	235	100.000
B - Welton Road (West)		ONE HOUR	✓	171	100.000
C - Stadium Road (North)		ONE HOUR	✓	510	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	31	204
	B - Welton Road (West)	26	0	145
	C - Stadium Road (North)	374	136	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.24	7.10	0.3	A	133	200
B-A	0.09	12.50	0.1	B	24	36
C-AB	0.20	6.16	0.3	A	125	187
C-A					343	515
A-B					28	43
A-C					187	281

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	109	27	693	0.157	108	0.0	0.2	6.145	A
B-A	20	5	363	0.054	19	0.0	0.1	10.470	B
C-AB	102	26	759	0.135	102	0.0	0.2	5.472	A
C-A	282	70			282				
A-B	23	6			23				
A-C	154	38			154				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	33	682	0.191	130	0.2	0.2	6.520	A
B-A	23	6	344	0.068	23	0.1	0.1	11.239	B
C-AB	122	31	749	0.163	122	0.2	0.2	5.743	A
C-A	336	84			336				
A-B	28	7			28				
A-C	183	46			183				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	160	40	666	0.240	159	0.2	0.3	7.095	A
B-A	29	7	317	0.090	29	0.1	0.1	12.490	B
C-AB	150	37	734	0.204	149	0.2	0.3	6.152	A
C-A	412	103			412				
A-B	34	9			34				
A-C	225	56			225				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	160	40	666	0.240	160	0.3	0.3	7.104	A
B-A	29	7	317	0.090	29	0.1	0.1	12.500	B
C-AB	150	37	734	0.204	150	0.3	0.3	6.157	A
C-A	412	103			412				
A-B	34	9			34				
A-C	225	56			225				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	33	682	0.191	131	0.3	0.2	6.534	A
B-A	23	6	343	0.068	23	0.1	0.1	11.257	B
C-AB	122	31	749	0.163	122	0.3	0.2	5.752	A
C-A	336	84			336				
A-B	28	7			28				
A-C	183	46			183				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	109	27	693	0.157	109	0.2	0.2	6.169	A
B-A	20	5	363	0.054	20	0.1	0.1	10.493	B
C-AB	102	26	759	0.135	103	0.2	0.2	5.486	A
C-A	282	70			282				
A-B	23	6			23				
A-C	154	38			154				

# 2021 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	21.02	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	380	100.000
B - Welton Road (West)		ONE HOUR	✓	555	100.000
C - Stadium Road (North)		ONE HOUR	✓	431	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	62	318
	B - Welton Road (West)	83	0	472
	C - Stadium Road (North)	217	214	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.89	48.06	6.5	E	433	650
B-A	0.58	52.08	1.2	F	76	114
C-AB	0.34	7.99	0.5	A	196	295
C-A					199	299
A-B					57	85
A-C					292	438

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	355	89	646	0.550	351	0.0	1.2	12.022	B
B-A	62	16	329	0.190	62	0.0	0.2	13.396	B
C-AB	161	40	726	0.222	160	0.0	0.3	6.346	A
C-A	163	41			163				
A-B	47	12			47				
A-C	239	60			239				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	424	106	622	0.682	421	1.2	2.0	17.567	C
B-A	75	19	284	0.263	74	0.2	0.3	17.128	C
C-AB	192	48	709	0.271	192	0.3	0.4	6.955	A
C-A	195	49			195				
A-B	56	14			56				
A-C	286	71			286				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	520	130	587	0.885	505	2.0	5.6	38.491	E
B-A	91	23	176	0.520	89	0.3	1.0	40.339	E
C-AB	236	59	686	0.343	235	0.4	0.5	7.971	A
C-A	239	60			239				
A-B	68	17			68				
A-C	350	88			350				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	520	130	585	0.888	516	5.6	6.5	48.063	E
B-A	91	23	158	0.578	90	1.0	1.2	52.082	F
C-AB	236	59	686	0.343	236	0.5	0.5	7.991	A
C-A	239	60			239				
A-B	68	17			68				
A-C	350	88			350				



17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	424	106	620	0.684	441	6.5	2.3	21.703	C
B-A	75	19	274	0.273	78	1.2	0.4	18.696	C
C-AB	192	48	709	0.271	193	0.5	0.4	6.979	A
C-A	195	49			195				
A-B	56	14			56				
A-C	286	71			286				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	355	89	645	0.551	360	2.3	1.3	12.799	B
B-A	62	16	327	0.191	63	0.4	0.2	13.657	B
C-AB	161	40	726	0.222	161	0.4	0.3	6.382	A
C-A	163	41			163				
A-B	47	12			47				
A-C	239	60			239				

# 2021 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.34	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D6	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	249	100.000
B - Welton Road (West)		ONE HOUR	✓	171	100.000
C - Stadium Road (North)		ONE HOUR	✓	526	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	31	218
	B - Welton Road (West)	26	0	145
	C - Stadium Road (North)	390	136	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.24	7.17	0.3	A	133	200
B-A	0.09	12.74	0.1	B	24	36
C-AB	0.21	6.21	0.3	A	125	187
C-A					358	537
A-B					28	43
A-C					200	300

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	109	27	691	0.158	108	0.0	0.2	6.177	A
B-A	20	5	359	0.054	19	0.0	0.1	10.584	B
C-AB	102	26	756	0.135	102	0.0	0.2	5.499	A
C-A	294	73			294				
A-B	23	6			23				
A-C	164	41			164				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	33	679	0.192	130	0.2	0.2	6.563	A
B-A	23	6	339	0.069	23	0.1	0.1	11.398	B
C-AB	122	31	745	0.164	122	0.2	0.2	5.779	A
C-A	351	88			351				
A-B	28	7			28				
A-C	196	49			196				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	160	40	662	0.241	159	0.2	0.3	7.158	A
B-A	29	7	311	0.092	29	0.1	0.1	12.734	B
C-AB	150	37	730	0.205	149	0.2	0.3	6.202	A
C-A	429	107			429				
A-B	34	9			34				
A-C	240	60			240				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	160	40	662	0.241	160	0.3	0.3	7.168	A
B-A	29	7	311	0.092	29	0.1	0.1	12.740	B
C-AB	150	37	730	0.205	150	0.3	0.3	6.206	A
C-A	429	107			429				
A-B	34	9			34				
A-C	240	60			240				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	130	33	678	0.192	131	0.3	0.2	6.577	A
B-A	23	6	339	0.069	23	0.1	0.1	11.413	B
C-AB	122	31	745	0.164	122	0.3	0.2	5.788	A
C-A	351	88			351				
A-B	28	7			28				
A-C	196	49			196				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	109	27	690	0.158	109	0.2	0.2	6.201	A
B-A	20	5	359	0.055	20	0.1	0.1	10.608	B
C-AB	102	26	756	0.135	103	0.2	0.2	5.513	A
C-A	294	73			294				
A-B	23	6			23				
A-C	164	41			164				

# 2021 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	23.13	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D7	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	406	100.000
B - Welton Road (West)		ONE HOUR	✓	555	100.000
C - Stadium Road (North)		ONE HOUR	✓	464	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	62	344
	B - Welton Road (West)	83	0	472
	C - Stadium Road (North)	250	214	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.90	54.11	7.3	F	433	650
B-A	0.65	68.36	1.6	F	76	114
C-AB	0.35	8.15	0.5	A	196	295
C-A					229	344
A-B					57	85
A-C					316	473

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	355	89	640	0.556	350	0.0	1.2	12.257	B
B-A	62	16	322	0.194	62	0.0	0.2	13.775	B
C-AB	161	40	720	0.224	160	0.0	0.3	6.413	A
C-A	188	47			188				
A-B	47	12			47				
A-C	259	65			259				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	424	106	615	0.690	421	1.2	2.1	18.185	C
B-A	75	19	274	0.272	74	0.2	0.4	17.931	C
C-AB	192	48	702	0.274	192	0.3	0.4	7.052	A
C-A	225	56			225				
A-B	56	14			56				
A-C	309	77			309				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	520	130	577	0.900	503	2.1	6.2	41.728	E
B-A	91	23	161	0.568	88	0.4	1.2	47.557	E
C-AB	236	59	677	0.348	235	0.4	0.5	8.125	A
C-A	275	69			275				
A-B	68	17			68				
A-C	379	95			379				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	520	130	574	0.905	515	6.2	7.3	54.113	F
B-A	91	23	140	0.652	90	1.2	1.6	68.358	F
C-AB	236	59	677	0.348	236	0.5	0.5	8.148	A
C-A	275	69			275				
A-B	68	17			68				
A-C	379	95			379				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	424	106	612	0.694	444	7.3	2.4	23.513	C
B-A	75	19	262	0.285	79	1.6	0.4	20.171	C
C-AB	192	48	702	0.274	193	0.5	0.4	7.077	A
C-A	225	56			225				
A-B	56	14			56				
A-C	309	77			309				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	355	89	639	0.556	360	2.4	1.3	13.110	B
B-A	62	16	320	0.195	63	0.4	0.2	14.069	B
C-AB	161	40	720	0.224	161	0.4	0.3	6.449	A
C-A	188	47			188				
A-B	47	12			47				
A-C	259	65			259				

# 2021 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.36	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D8	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	249	100.000
B - Welton Road (West)		ONE HOUR	✓	173	100.000
C - Stadium Road (North)		ONE HOUR	✓	527	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	31	218
	B - Welton Road (West)	26	0	147
	C - Stadium Road (North)	390	137	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.24	7.20	0.3	A	135	202
B-A	0.09	12.76	0.1	B	24	36
C-AB	0.21	6.22	0.3	A	126	189
C-A					358	537
A-B					28	43
A-C					200	300

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	691	0.160	110	0.0	0.2	6.191	A
B-A	20	5	359	0.055	19	0.0	0.1	10.595	B
C-AB	103	26	756	0.136	103	0.0	0.2	5.505	A
C-A	294	73			294				
A-B	23	6			23				
A-C	164	41			164				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	679	0.195	132	0.2	0.2	6.582	A
B-A	23	6	339	0.069	23	0.1	0.1	11.412	B
C-AB	123	31	745	0.165	123	0.2	0.2	5.787	A
C-A	351	88			351				
A-B	28	7			28				
A-C	196	49			196				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	662	0.244	162	0.2	0.3	7.187	A
B-A	29	7	311	0.092	29	0.1	0.1	12.754	B
C-AB	151	38	730	0.207	151	0.2	0.3	6.213	A
C-A	429	107			429				
A-B	34	9			34				
A-C	240	60			240				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	662	0.244	162	0.3	0.3	7.197	A
B-A	29	7	311	0.092	29	0.1	0.1	12.761	B
C-AB	151	38	730	0.207	151	0.3	0.3	6.218	A
C-A	429	107			429				
A-B	34	9			34				
A-C	240	60			240				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	679	0.195	132	0.3	0.2	6.597	A
B-A	23	6	339	0.069	23	0.1	0.1	11.429	B
C-AB	123	31	745	0.165	123	0.3	0.2	5.794	A
C-A	351	88			351				
A-B	28	7			28				
A-C	196	49			196				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	690	0.160	111	0.2	0.2	6.215	A
B-A	20	5	359	0.055	20	0.1	0.1	10.617	B
C-AB	103	26	756	0.136	103	0.2	0.2	5.519	A
C-A	294	73			294				
A-B	23	6			23				
A-C	164	41			164				

# 2021 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	27.22	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D9	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	406	100.000
B - Welton Road (West)		ONE HOUR	✓	564	100.000
C - Stadium Road (North)		ONE HOUR	✓	465	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	62	344
	B - Welton Road (West)	83	0	481
	C - Stadium Road (North)	250	215	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.92	61.10	8.4	F	441	662
B-A	0.75	95.46	2.2	F	76	114
C-AB	0.35	8.17	0.5	A	197	296
C-A					229	344
A-B					57	85
A-C					316	473

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	362	91	640	0.566	357	0.0	1.3	12.522	B
B-A	62	16	320	0.195	62	0.0	0.2	13.862	B
C-AB	162	40	720	0.225	161	0.0	0.3	6.422	A
C-A	188	47			188				
A-B	47	12			47				
A-C	259	65			259				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	432	108	615	0.703	429	1.3	2.2	18.889	C
B-A	75	19	270	0.276	74	0.2	0.4	18.295	C
C-AB	193	48	702	0.275	193	0.3	0.4	7.064	A
C-A	225	56			225				
A-B	56	14			56				
A-C	309	77			309				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	530	132	577	0.918	511	2.2	6.9	45.149	E
B-A	91	23	148	0.615	87	0.4	1.4	55.790	F
C-AB	237	59	677	0.349	236	0.4	0.5	8.146	A
C-A	275	69			275				
A-B	68	17			68				
A-C	379	95			379				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	530	132	574	0.923	524	6.9	8.4	61.095	F
B-A	91	23	122	0.748	88	1.4	2.2	95.458	F
C-AB	237	59	677	0.349	237	0.5	0.5	8.168	A
C-A	275	69			275				
A-B	68	17			68				
A-C	379	95			379				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	432	108	610	0.709	455	8.4	2.6	26.105	D
B-A	75	19	255	0.293	82	2.2	0.4	21.633	C
C-AB	193	48	702	0.275	194	0.5	0.4	7.089	A
C-A	225	56			225				
A-B	56	14			56				
A-C	309	77			309				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	362	91	639	0.567	367	2.6	1.3	13.488	B
B-A	62	16	318	0.197	63	0.4	0.2	14.183	B
C-AB	162	40	720	0.225	162	0.4	0.3	6.456	A
C-A	188	47			188				
A-B	47	12			47				
A-C	259	65			259				

# 2026 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.44	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D20	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	247	100.000
B - Welton Road (West)		ONE HOUR	✓	179	100.000
C - Stadium Road (North)		ONE HOUR	✓	533	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	33	214
	B - Welton Road (West)	27	0	152
	C - Stadium Road (North)	391	142	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	7.27	0.3	A	139	209
B-A	0.10	12.86	0.1	B	25	37
C-AB	0.21	6.27	0.3	A	130	195
C-A					359	538
A-B					30	45
A-C					196	295

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	691	0.166	114	0.0	0.2	6.229	A
B-A	20	5	358	0.057	20	0.0	0.1	10.637	B
C-AB	107	27	756	0.141	106	0.0	0.2	5.531	A
C-A	294	74			294				
A-B	25	6			25				
A-C	161	40			161				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	679	0.201	136	0.2	0.2	6.630	A
B-A	24	6	338	0.072	24	0.1	0.1	11.474	B
C-AB	128	32	745	0.171	127	0.2	0.2	5.824	A
C-A	352	88			352				
A-B	30	7			30				
A-C	192	48			192				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	167	42	662	0.253	167	0.2	0.3	7.264	A
B-A	30	7	310	0.096	30	0.1	0.1	12.845	B
C-AB	156	39	730	0.214	156	0.2	0.3	6.266	A
C-A	430	108			430				
A-B	36	9			36				
A-C	236	59			236				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	167	42	662	0.253	167	0.3	0.3	7.273	A
B-A	30	7	310	0.096	30	0.1	0.1	12.858	B
C-AB	156	39	730	0.214	156	0.3	0.3	6.271	A
C-A	430	108			430				
A-B	36	9			36				
A-C	236	59			236				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	679	0.201	137	0.3	0.3	6.649	A
B-A	24	6	338	0.072	24	0.1	0.1	11.493	B
C-AB	128	32	745	0.171	128	0.3	0.2	5.831	A
C-A	352	88			352				
A-B	30	7			30				
A-C	192	48			192				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	691	0.166	115	0.3	0.2	6.254	A
B-A	20	5	358	0.057	20	0.1	0.1	10.662	B
C-AB	107	27	756	0.141	107	0.2	0.2	5.547	A
C-A	294	74			294				
A-B	25	6			25				
A-C	161	40			161				



# 2026 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	35.43	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D21	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	397	100.000
B - Welton Road (West)		ONE HOUR	✓	579	100.000
C - Stadium Road (North)		ONE HOUR	✓	451	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	65	332
	B - Welton Road (West)	86	0	493
	C - Stadium Road (North)	227	224	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.95	71.69	10.2	F	452	679
B-A	0.93	155.29	4.1	F	79	118
C-AB	0.36	8.30	0.6	A	206	308
C-A					208	312
A-B					60	89
A-C					305	457

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	371	93	641	0.579	366	0.0	1.3	12.857	B
B-A	65	16	321	0.202	64	0.0	0.2	13.963	B
C-AB	169	42	722	0.234	167	0.0	0.3	6.474	A
C-A	171	43			171				
A-B	49	12			49				
A-C	250	62			250				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	443	111	616	0.719	439	1.3	2.4	19.815	C
B-A	77	19	268	0.289	77	0.2	0.4	18.786	C
C-AB	201	50	705	0.286	201	0.3	0.4	7.143	A
C-A	204	51			204				
A-B	58	15			58				
A-C	298	75			298				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	543	136	578	0.939	521	2.4	7.9	49.862	E
B-A	95	24	135	0.703	89	0.4	1.8	71.497	F
C-AB	247	62	680	0.362	246	0.4	0.6	8.274	A
C-A	250	62			250				
A-B	72	18			72				
A-C	366	91			366				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	543	136	573	0.948	534	7.9	10.2	71.685	F
B-A	95	24	102	0.930	86	1.8	4.1	155.292	F
C-AB	247	62	680	0.362	247	0.6	0.6	8.298	A
C-A	250	62			250				
A-B	72	18			72				
A-C	366	91			366				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	443	111	606	0.732	472	10.2	3.0	31.292	D
B-A	77	19	245	0.315	92	4.1	0.5	25.509	D
C-AB	201	50	705	0.286	202	0.6	0.4	7.170	A
C-A	204	51			204				
A-B	58	15			58				
A-C	298	75			298				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	371	93	640	0.580	377	3.0	1.4	14.021	B
B-A	65	16	317	0.204	66	0.5	0.3	14.347	B
C-AB	169	42	722	0.234	169	0.4	0.3	6.514	A
C-A	171	43			171				
A-B	49	12			49				
A-C	250	62			250				

# 2026 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.39	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D22	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	260	100.000
B - Welton Road (West)		ONE HOUR	✓	179	100.000
C - Stadium Road (North)		ONE HOUR	✓	550	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	33	227
	B - Welton Road (West)	27	0	152
	C - Stadium Road (North)	408	142	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	7.34	0.3	A	139	209
B-A	0.10	13.11	0.1	B	25	37
C-AB	0.22	6.32	0.3	A	130	195
C-A					374	562
A-B					30	45
A-C					208	312

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	688	0.166	114	0.0	0.2	6.259	A
B-A	20	5	355	0.057	20	0.0	0.1	10.753	B
C-AB	107	27	753	0.142	106	0.0	0.2	5.557	A
C-A	307	77			307				
A-B	25	6			25				
A-C	171	43			171				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	676	0.202	136	0.2	0.3	6.673	A
B-A	24	6	334	0.073	24	0.1	0.1	11.636	B
C-AB	128	32	742	0.172	127	0.2	0.2	5.857	A
C-A	367	92			367				
A-B	30	7			30				
A-C	204	51			204				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	167	42	658	0.254	167	0.3	0.3	7.325	A
B-A	30	7	304	0.098	30	0.1	0.1	13.095	B
C-AB	156	39	726	0.215	156	0.2	0.3	6.313	A
C-A	449	112			449				
A-B	36	9			36				
A-C	250	62			250				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	167	42	658	0.254	167	0.3	0.3	7.335	A
B-A	30	7	304	0.098	30	0.1	0.1	13.108	B
C-AB	156	39	726	0.215	156	0.3	0.3	6.318	A
C-A	449	112			449				
A-B	36	9			36				
A-C	250	62			250				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	675	0.202	137	0.3	0.3	6.688	A
B-A	24	6	333	0.073	24	0.1	0.1	11.653	B
C-AB	128	32	742	0.172	128	0.3	0.2	5.867	A
C-A	367	92			367				
A-B	30	7			30				
A-C	204	51			204				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	688	0.166	115	0.3	0.2	6.282	A
B-A	20	5	354	0.057	20	0.1	0.1	10.779	B
C-AB	107	27	753	0.142	107	0.2	0.2	5.573	A
C-A	307	77			307				
A-B	25	6			25				
A-C	171	43			171				

# 2026 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	38.88	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D23	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	424	100.000
B - Welton Road (West)		ONE HOUR	✓	579	100.000
C - Stadium Road (North)		ONE HOUR	✓	484	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	65	359
	B - Welton Road (West)	86	0	493
	C - Stadium Road (North)	260	224	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.97	83.57	12.1	F	452	679
B-A	0.93	171.13	4.4	F	79	118
C-AB	0.37	8.47	0.6	A	206	308
C-A					239	358
A-B					60	89
A-C					329	494

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	371	93	635	0.585	366	0.0	1.4	13.135	B
B-A	65	16	313	0.207	64	0.0	0.3	14.386	B
C-AB	169	42	716	0.236	167	0.0	0.3	6.547	A
C-A	196	49			196				
A-B	49	12			49				
A-C	270	68			270				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	443	111	609	0.728	439	1.4	2.5	20.630	C
B-A	77	19	258	0.300	77	0.3	0.4	19.812	C
C-AB	201	50	697	0.289	201	0.3	0.4	7.246	A
C-A	234	58			234				
A-B	58	15			58				
A-C	323	81			323				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	543	136	567	0.957	517	2.5	8.9	54.795	F
B-A	95	24	118	0.802	86	0.4	2.5	96.398	F
C-AB	247	62	671	0.367	246	0.4	0.6	8.447	A
C-A	286	72			286				
A-B	72	18			72				
A-C	395	99			395				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	543	136	560	0.969	530	8.9	12.1	83.571	F
B-A	95	24	102	0.932	87	2.5	4.4	171.134	F
C-AB	247	62	671	0.367	247	0.6	0.6	8.473	A
C-A	286	72			286				
A-B	72	18			72				
A-C	395	99			395				



**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	443	111	597	0.743	479	12.1	3.2	36.788	E
B-A	77	19	228	0.339	93	4.4	0.5	29.304	D
C-AB	201	50	697	0.289	202	0.6	0.4	7.277	A
C-A	234	58			234				
A-B	58	15			58				
A-C	323	81			323				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	371	93	634	0.586	378	3.2	1.5	14.452	B
B-A	65	16	309	0.209	66	0.5	0.3	14.839	B
C-AB	169	42	716	0.236	169	0.4	0.3	6.585	A
C-A	196	49			196				
A-B	49	12			49				
A-C	270	68			270				

# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.42	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D24	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	260	100.000
B - Welton Road (West)		ONE HOUR	✓	181	100.000
C - Stadium Road (North)		ONE HOUR	✓	552	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	33	227
	B - Welton Road (West)	27	0	154
	C - Stadium Road (North)	408	144	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.26	7.37	0.3	A	141	212
B-A	0.10	13.14	0.1	B	25	37
C-AB	0.22	6.34	0.3	A	132	198
C-A					374	562
A-B					30	45
A-C					208	312

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	116	29	688	0.168	115	0.0	0.2	6.272	A
B-A	20	5	354	0.057	20	0.0	0.1	10.771	B
C-AB	108	27	753	0.144	108	0.0	0.2	5.570	A
C-A	307	77			307				
A-B	25	6			25				
A-C	171	43			171				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	138	35	676	0.205	138	0.2	0.3	6.693	A
B-A	24	6	333	0.073	24	0.1	0.1	11.660	B
C-AB	129	32	742	0.174	129	0.2	0.2	5.875	A
C-A	367	92			367				
A-B	30	7			30				
A-C	204	51			204				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	170	42	658	0.258	169	0.3	0.3	7.356	A
B-A	30	7	304	0.098	30	0.1	0.1	13.131	B
C-AB	159	40	726	0.218	158	0.2	0.3	6.338	A
C-A	449	112			449				
A-B	36	9			36				
A-C	250	62			250				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	170	42	658	0.258	170	0.3	0.3	7.366	A
B-A	30	7	304	0.098	30	0.1	0.1	13.145	B
C-AB	159	40	726	0.218	159	0.3	0.3	6.343	A
C-A	449	112			449				
A-B	36	9			36				
A-C	250	62			250				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	138	35	676	0.205	139	0.3	0.3	6.709	A
B-A	24	6	333	0.073	24	0.1	0.1	11.680	B
C-AB	129	32	742	0.174	130	0.3	0.2	5.884	A
C-A	367	92			367				
A-B	30	7			30				
A-C	204	51			204				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	116	29	688	0.169	116	0.3	0.2	6.297	A
B-A	20	5	354	0.057	20	0.1	0.1	10.799	B
C-AB	108	27	753	0.144	109	0.2	0.2	5.586	A
C-A	307	77			307				
A-B	25	6			25				
A-C	171	43			171				

# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	44.80	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D25	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (South)		ONE HOUR	✓	424	100.000
B - Welton Road (West)		ONE HOUR	✓	588	100.000
C - Stadium Road (North)		ONE HOUR	✓	484	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	65	359
	B - Welton Road (West)	86	0	502
	C - Stadium Road (North)	260	224	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (South)	B - Welton Road (West)	C - Stadium Road (North)
From	A - Stadium Road (South)	0	0	0
	B - Welton Road (West)	0	0	0
	C - Stadium Road (North)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.99	96.78	14.6	F	461	691
B-A	0.92	192.36	4.8	F	79	118
C-AB	0.37	8.47	0.6	A	206	308
C-A					239	358
A-B					60	89
A-C					329	494

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	378	94	635	0.595	372	0.0	1.4	13.435	B
B-A	65	16	311	0.208	64	0.0	0.3	14.485	B
C-AB	169	42	716	0.236	167	0.0	0.3	6.547	A
C-A	196	49			196				
A-B	49	12			49				
A-C	270	68			270				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	451	113	609	0.741	446	1.4	2.6	21.517	C
B-A	77	19	253	0.305	77	0.3	0.4	20.320	C
C-AB	201	50	697	0.289	201	0.3	0.4	7.246	A
C-A	234	58			234				
A-B	58	15			58				
A-C	323	81			323				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	553	138	567	0.974	523	2.6	10.0	59.566	F
B-A	95	24	103	0.923	82	0.4	3.6	133.578	F
C-AB	247	62	671	0.367	246	0.4	0.6	8.447	A
C-A	286	72			286				
A-B	72	18			72				
A-C	395	99			395				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	553	138	557	0.992	534	10.0	14.6	96.776	F
B-A	95	24	103	0.922	90	3.6	4.8	192.356	F
C-AB	247	62	671	0.367	247	0.6	0.6	8.473	A
C-A	286	72			286				
A-B	72	18			72				
A-C	395	99			395				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	451	113	596	0.758	495	14.6	3.5	45.201	E
B-A	77	19	212	0.364	94	4.8	0.6	34.418	D
C-AB	201	50	697	0.289	202	0.6	0.4	7.277	A
C-A	234	58			234				
A-B	58	15			58				
A-C	323	81			323				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	378	94	634	0.597	386	3.5	1.5	14.971	B
B-A	65	16	307	0.211	66	0.6	0.3	15.011	C
C-AB	169	42	716	0.236	169	0.4	0.3	6.585	A
C-A	196	49			196				
A-B	49	12			49				
A-C	270	68			270				

# APPENDIX N

Stadium Road / Caldbeck Road – PICADY Modelling



<h1>Junctions 9</h1>
<h2>PICADY 9 - Priority Intersection Module</h2>
Version: 9.0.2.5947 © Copyright TRL Limited, 2017
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk
<b>The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution</b>

**Filename:** 4\_Caldbeck Road\_Stadium Road.j9

**Path:** C:\Users\manch\Dropbox (mode)\Project\Manchester\2. Projects\J325601\_Croft Retail Park, Welton Road\4. Data\6. Junction Capacity Assessments\PICADY\4\_Caldbeck Road\_Stadium Road

**Report generation date:** 03/06/2021 09:50:58

- 
- »2018 Base, AM
  - »2018 Base, PM
  - »2021 Base, AM
  - »2021 Base, PM
  - »2021 Base + CD, AM
  - »2021 Base + CD, PM
  - »2021 Base + CD + Dev, AM
  - »2021 Base + CD + Dev, PM
  - »2026 Base, AM
  - »2026 Base, PM
  - »2026 Base + CD, AM
  - »2026 Base + CD, PM
  - »2026 Base + CD + Dev, AM
  - »2026 Base + CD + Dev, PM

## Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)
<b>2018 Base</b>								
Stream B-C	0.3	8.65	0.25	3.13	0.2	7.59	0.18	2.60
Stream B-A	0.4	13.36	0.28		0.3	11.73	0.21	
Stream C-AB	0.3	5.12	0.17		0.3	5.04	0.17	
<b>2021 Base</b>								
Stream B-C	0.3	8.50	0.25	3.27	0.2	7.69	0.19	2.66
Stream B-A	0.4	13.07	0.29		0.3	11.37	0.22	
Stream C-AB	0.3	5.02	0.17		0.2	5.09	0.12	
<b>2021 Base + CD</b>								
Stream B-C	0.4	9.43	0.29	3.64	0.3	8.40	0.25	3.40
Stream B-A	0.5	14.82	0.33		0.4	12.61	0.26	
Stream C-AB	0.4	5.38	0.21		0.3	5.52	0.19	
<b>2021 Base + CD + Dev</b>								
Stream B-C	0.4	9.49	0.29	3.68	0.3	8.48	0.25	3.47
Stream B-A	0.5	14.94	0.33		0.4	12.78	0.27	
Stream C-AB	0.4	5.38	0.21		0.3	5.52	0.19	
<b>2026 Base</b>								
Stream B-C	0.4	9.26	0.28	3.37	0.3	7.88	0.20	2.73
Stream B-A	0.5	14.60	0.32		0.3	11.74	0.23	
Stream C-AB	0.4	5.17	0.19		0.2	5.10	0.13	
<b>2026 Base + CD</b>								
Stream B-C	0.4	9.85	0.31	3.80	0.3	8.64	0.26	3.47
Stream B-A	0.5	15.66	0.35		0.4	13.06	0.28	
Stream C-AB	0.4	5.42	0.22		0.4	5.54	0.20	
<b>2026 Base + CD + Dev</b>								
Stream B-C	0.4	9.88	0.31	3.83	0.4	8.73	0.26	3.54
Stream B-A	0.5	15.73	0.35		0.4	13.25	0.29	
Stream C-AB	0.4	5.42	0.22		0.4	5.54	0.20	

*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. Junction LOS and Junction Delay are demand-weighted averages.*

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	03/12/2018
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-J595SBC\Manchester Mode
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

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

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓
D10	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D11	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D15	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D16	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓
D19	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓
D20	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓
D21	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓
D22	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓
D23	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D24	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# 2018 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.13	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Stadium Road (S)		Major
B	Caldbeck Road (W)		Minor
C	Stadium Road (N)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Stadium Road (N)	9.00			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	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 - Caldbeck Road (W)	One lane plus flare	10.00	4.60	3.50	3.40	3.40	✓	1.00	40	30

### Slope / Intercept / Capacity

#### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	531	0.084	0.213	0.134	0.304
1	B-C	694	0.092	0.234	-	-
1	C-B	719	0.242	0.242	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	348	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	221	100.000
C - Stadium Road (N)		ONE HOUR	✓	385	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	34	314
	B - Caldbeck Road (W)	97	0	124
	C - Stadium Road (N)	307	78	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	8.65	0.3	A	114	171
B-A	0.28	13.36	0.4	B	89	134
C-AB	0.17	5.12	0.3	A	111	166
C-A					243	364
A-B					31	47
A-C					288	432

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	93	23	606	0.154	93	0.0	0.2	7.004	A
B-A	73	18	428	0.171	72	0.0	0.2	10.095	B
C-AB	82	21	802	0.103	82	0.0	0.2	4.995	A
C-A	207	52			207				
A-B	26	6			26				
A-C	236	59			236				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	585	0.191	111	0.2	0.2	7.594	A
B-A	87	22	407	0.214	87	0.2	0.3	11.245	B
C-AB	106	26	821	0.129	106	0.2	0.2	5.038	A
C-A	240	60			240				
A-B	31	8			31				
A-C	282	71			282				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	553	0.247	136	0.2	0.3	8.625	A
B-A	107	27	376	0.284	106	0.3	0.4	13.309	B
C-AB	143	36	847	0.169	143	0.2	0.3	5.121	A
C-A	281	70			281				
A-B	37	9			37				
A-C	346	86			346				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	137	34	553	0.247	137	0.3	0.3	8.649	A
B-A	107	27	376	0.284	107	0.4	0.4	13.359	B
C-AB	143	36	847	0.169	143	0.3	0.3	5.124	A
C-A	280	70			280				
A-B	37	9			37				
A-C	346	86			346				

#### 09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	585	0.191	112	0.3	0.2	7.620	A
B-A	87	22	407	0.214	88	0.4	0.3	11.299	B
C-AB	106	27	821	0.129	106	0.3	0.2	5.048	A
C-A	240	60			240				
A-B	31	8			31				
A-C	282	71			282				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	93	23	605	0.154	94	0.2	0.2	7.041	A
B-A	73	18	428	0.171	73	0.3	0.2	10.159	B
C-AB	83	21	802	0.103	83	0.2	0.2	5.007	A
C-A	207	52			207				
A-B	26	6			26				
A-C	236	59			236				

# 2018 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.60	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D2	2018 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	300	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	173	100.000
C - Stadium Road (N)		ONE HOUR	✓	385	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	29	271
	B - Caldbeck Road (W)	76	0	97
	C - Stadium Road (N)	307	78	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.18	7.59	0.2	A	89	134
B-A	0.21	11.73	0.3	B	70	105
C-AB	0.17	5.04	0.3	A	110	165
C-A					243	365
A-B					27	40
A-C					249	373

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	73	18	621	0.118	72	0.0	0.1	6.554	A
B-A	57	14	436	0.131	57	0.0	0.1	9.467	A
C-AB	82	21	810	0.101	82	0.0	0.2	4.940	A
C-A	208	52			208				
A-B	22	5			22				
A-C	204	51			204				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	87	22	605	0.144	87	0.1	0.2	6.945	A
B-A	68	17	417	0.164	68	0.1	0.2	10.305	B
C-AB	105	26	829	0.127	105	0.2	0.2	4.972	A
C-A	241	60			241				
A-B	26	7			26				
A-C	244	61			244				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	581	0.184	107	0.2	0.2	7.577	A
B-A	84	21	391	0.214	83	0.2	0.3	11.705	B
C-AB	142	36	857	0.166	142	0.2	0.3	5.038	A
C-A	282	70			282				
A-B	32	8			32				
A-C	298	75			298				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	581	0.184	107	0.2	0.2	7.586	A
B-A	84	21	391	0.214	84	0.3	0.3	11.731	B
C-AB	142	36	857	0.166	142	0.3	0.3	5.043	A
C-A	282	70			282				
A-B	32	8			32				
A-C	298	75			298				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	87	22	605	0.144	87	0.2	0.2	6.961	A
B-A	68	17	417	0.164	69	0.3	0.2	10.337	B
C-AB	105	26	830	0.127	106	0.3	0.2	4.980	A
C-A	241	60			241				
A-B	26	7			26				
A-C	244	61			244				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	73	18	621	0.118	73	0.2	0.1	6.573	A
B-A	57	14	436	0.131	57	0.2	0.2	9.508	A
C-AB	82	21	810	0.102	83	0.2	0.2	4.952	A
C-A	207	52			207				
A-B	22	5			22				
A-C	204	51			204				

# 2021 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.27	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D4	2021 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	297	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	228	100.000
C - Stadium Road (N)		ONE HOUR	✓	399	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	35	262
	B - Caldbeck Road (W)	100	0	128
	C - Stadium Road (N)	319	80	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	8.50	0.3	A	117	176
B-A	0.29	13.07	0.4	B	92	138
C-AB	0.17	5.02	0.3	A	115	172
C-A					252	377
A-B					32	48
A-C					240	361

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	614	0.157	96	0.0	0.2	6.935	A
B-A	75	19	435	0.173	74	0.0	0.2	9.975	A
C-AB	85	21	816	0.105	85	0.0	0.2	4.920	A
C-A	215	54			215				
A-B	26	7			26				
A-C	197	49			197				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	115	29	595	0.194	115	0.2	0.2	7.499	A
B-A	90	22	414	0.217	90	0.2	0.3	11.074	B
C-AB	110	27	837	0.131	109	0.2	0.2	4.951	A
C-A	249	62			249				
A-B	31	8			31				
A-C	236	59			236				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	141	35	565	0.250	141	0.2	0.3	8.480	A
B-A	110	28	386	0.286	110	0.3	0.4	13.020	B
C-AB	149	37	866	0.172	148	0.2	0.3	5.017	A
C-A	291	73			291				
A-B	39	10			39				
A-C	288	72			288				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	141	35	564	0.250	141	0.3	0.3	8.502	A
B-A	110	28	385	0.286	110	0.4	0.4	13.070	B
C-AB	149	37	866	0.172	149	0.3	0.3	5.024	A
C-A	291	73			291				
A-B	39	10			39				
A-C	288	72			288				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	115	29	594	0.194	115	0.3	0.2	7.525	A
B-A	90	22	414	0.217	90	0.4	0.3	11.129	B
C-AB	110	27	837	0.131	110	0.3	0.2	4.961	A
C-A	249	62			249				
A-B	31	8			31				
A-C	236	59			236				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	613	0.157	97	0.2	0.2	6.969	A
B-A	75	19	434	0.173	76	0.3	0.2	10.041	B
C-AB	86	21	816	0.105	86	0.2	0.2	4.934	A
C-A	215	54			215				
A-B	26	7			26				
A-C	197	49			197				

# 2021 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.66	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D5	2021 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	310	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	179	100.000
C - Stadium Road (N)		ONE HOUR	✓	303	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	30	280
	B - Caldbeck Road (W)	79	0	100
	C - Stadium Road (N)	242	61	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.19	7.69	0.2	A	92	138
B-A	0.22	11.37	0.3	B	72	109
C-AB	0.12	5.09	0.2	A	79	118
C-A					199	299
A-B					28	41
A-C					257	385

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	75	19	619	0.122	75	0.0	0.1	6.606	A
B-A	59	15	445	0.134	59	0.0	0.2	9.315	A
C-AB	60	15	777	0.077	60	0.0	0.1	5.013	A
C-A	168	42			168				
A-B	23	6			23				
A-C	211	53			211				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	90	22	603	0.149	90	0.1	0.2	7.017	A
B-A	71	18	428	0.166	71	0.2	0.2	10.074	B
C-AB	76	19	790	0.096	76	0.1	0.1	5.039	A
C-A	197	49			197				
A-B	27	7			27				
A-C	252	63			252				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	110	28	579	0.190	110	0.2	0.2	7.675	A
B-A	87	22	404	0.216	87	0.2	0.3	11.352	B
C-AB	100	25	808	0.124	100	0.1	0.2	5.084	A
C-A	233	58			233				
A-B	33	8			33				
A-C	308	77			308				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	110	28	578	0.190	110	0.2	0.2	7.686	A
B-A	87	22	403	0.216	87	0.3	0.3	11.374	B
C-AB	100	25	809	0.124	100	0.2	0.2	5.089	A
C-A	233	58			233				
A-B	33	8			33				
A-C	308	77			308				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	90	22	602	0.149	90	0.2	0.2	7.033	A
B-A	71	18	428	0.166	71	0.3	0.2	10.101	B
C-AB	76	19	790	0.096	76	0.2	0.2	5.046	A
C-A	196	49			196				
A-B	27	7			27				
A-C	252	63			252				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	75	19	619	0.122	75	0.2	0.1	6.632	A
B-A	59	15	445	0.134	60	0.2	0.2	9.340	A
C-AB	60	15	777	0.077	60	0.2	0.1	5.023	A
C-A	168	42			168				
A-B	23	6			23				
A-C	211	53			211				



# 2021 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.64	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D10	2021 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	364	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	249	100.000
C - Stadium Road (N)		ONE HOUR	✓	416	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	38	326
	B - Caldbeck Road (W)	107	0	142
	C - Stadium Road (N)	319	97	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.29	9.43	0.4	A	130	195
B-A	0.33	14.82	0.5	B	98	147
C-AB	0.21	5.38	0.4	A	140	210
C-A					241	362
A-B					35	52
A-C					299	449

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	600	0.178	106	0.0	0.2	7.276	A
B-A	81	20	419	0.192	80	0.0	0.2	10.592	B
C-AB	104	26	806	0.129	103	0.0	0.2	5.123	A
C-A	209	52			209				
A-B	29	7			29				
A-C	245	61			245				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	128	32	576	0.221	127	0.2	0.3	8.013	A
B-A	96	24	395	0.243	96	0.2	0.3	12.017	B
C-AB	134	34	825	0.163	134	0.2	0.3	5.213	A
C-A	240	60			240				
A-B	34	9			34				
A-C	293	73			293				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	539	0.290	156	0.3	0.4	9.390	A
B-A	118	29	361	0.326	117	0.3	0.5	14.735	B
C-AB	182	46	852	0.214	182	0.3	0.4	5.376	A
C-A	276	69			276				
A-B	42	10			42				
A-C	359	90			359				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	538	0.291	156	0.4	0.4	9.429	A
B-A	118	29	361	0.327	118	0.5	0.5	14.819	B
C-AB	182	46	852	0.214	182	0.4	0.4	5.384	A
C-A	276	69			276				
A-B	42	10			42				
A-C	359	90			359				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	128	32	576	0.222	128	0.4	0.3	8.055	A
B-A	96	24	395	0.244	97	0.5	0.3	12.100	B
C-AB	134	34	825	0.163	135	0.4	0.3	5.225	A
C-A	240	60			240				
A-B	34	9			34				
A-C	293	73			293				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	599	0.178	107	0.3	0.2	7.321	A
B-A	81	20	418	0.193	81	0.3	0.2	10.680	B
C-AB	104	26	806	0.130	105	0.3	0.2	5.140	A
C-A	209	52			209				
A-B	29	7			29				
A-C	245	61			245				

# 2021 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.40	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D11	2021 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	316	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	219	100.000
C - Stadium Road (N)		ONE HOUR	✓	336	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	36	280
	B - Caldbeck Road (W)	92	0	127
	C - Stadium Road (N)	242	94	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	8.40	0.3	A	117	175
B-A	0.26	12.61	0.4	B	84	127
C-AB	0.19	5.52	0.3	A	121	182
C-A					187	280
A-B					33	50
A-C					257	385

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	616	0.155	95	0.0	0.2	6.895	A
B-A	69	17	434	0.159	69	0.0	0.2	9.818	A
C-AB	92	23	776	0.119	92	0.0	0.2	5.259	A
C-A	160	40			160				
A-B	27	7			27				
A-C	211	53			211				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	597	0.191	114	0.2	0.2	7.442	A
B-A	83	21	415	0.199	82	0.2	0.2	10.821	B
C-AB	117	29	789	0.148	117	0.2	0.2	5.355	A
C-A	185	46			185				
A-B	32	8			32				
A-C	252	63			252				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	140	35	569	0.246	139	0.2	0.3	8.375	A
B-A	101	25	387	0.262	101	0.2	0.3	12.572	B
C-AB	155	39	807	0.192	154	0.2	0.3	5.518	A
C-A	215	54			215				
A-B	40	10			40				
A-C	308	77			308				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	140	35	569	0.246	140	0.3	0.3	8.395	A
B-A	101	25	387	0.262	101	0.3	0.4	12.614	B
C-AB	155	39	807	0.192	155	0.3	0.3	5.524	A
C-A	215	54			215				
A-B	40	10			40				
A-C	308	77			308				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	597	0.191	115	0.3	0.2	7.469	A
B-A	83	21	415	0.199	83	0.4	0.3	10.867	B
C-AB	117	29	789	0.148	117	0.3	0.2	5.366	A
C-A	185	46			185				
A-B	32	8			32				
A-C	252	63			252				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	616	0.155	96	0.2	0.2	6.931	A
B-A	69	17	434	0.159	70	0.3	0.2	9.877	A
C-AB	93	23	777	0.119	93	0.2	0.2	5.271	A
C-A	160	40			160				
A-B	27	7			27				
A-C	211	53			211				

# 2021 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.68	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D15	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	364	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	251	100.000
C - Stadium Road (N)		ONE HOUR	✓	416	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	38	326
	B - Caldbeck Road (W)	109	0	142
	C - Stadium Road (N)	319	97	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.29	9.49	0.4	A	130	195
B-A	0.33	14.94	0.5	B	100	150
C-AB	0.21	5.38	0.4	A	140	210
C-A					241	362
A-B					35	52
A-C					299	449

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	599	0.179	106	0.0	0.2	7.296	A
B-A	82	21	419	0.196	81	0.0	0.2	10.625	B
C-AB	104	26	806	0.129	103	0.0	0.2	5.123	A
C-A	209	52			209				
A-B	29	7			29				
A-C	245	61			245				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	128	32	575	0.222	127	0.2	0.3	8.042	A
B-A	98	24	395	0.248	98	0.2	0.3	12.077	B
C-AB	134	34	825	0.163	134	0.2	0.3	5.213	A
C-A	240	60			240				
A-B	34	9			34				
A-C	293	73			293				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	536	0.291	156	0.3	0.4	9.446	A
B-A	120	30	361	0.332	119	0.3	0.5	14.848	B
C-AB	182	46	852	0.214	182	0.3	0.4	5.376	A
C-A	276	69			276				
A-B	42	10			42				
A-C	359	90			359				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	156	39	536	0.292	156	0.4	0.4	9.487	A
B-A	120	30	361	0.333	120	0.5	0.5	14.944	B
C-AB	182	46	852	0.214	182	0.4	0.4	5.384	A
C-A	276	69			276				
A-B	42	10			42				
A-C	359	90			359				



09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	128	32	574	0.222	128	0.4	0.3	8.083	A
B-A	98	24	395	0.248	99	0.5	0.3	12.163	B
C-AB	134	34	825	0.163	135	0.4	0.3	5.225	A
C-A	240	60			240				
A-B	34	9			34				
A-C	293	73			293				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	107	27	598	0.179	107	0.3	0.2	7.341	A
B-A	82	21	419	0.196	82	0.3	0.2	10.717	B
C-AB	104	26	806	0.130	105	0.3	0.2	5.140	A
C-A	209	52			209				
A-B	29	7			29				
A-C	245	61			245				

# 2021 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

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

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D16	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	316	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	223	100.000
C - Stadium Road (N)		ONE HOUR	✓	336	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	36	280
	B - Caldbeck Road (W)	96	0	127
	C - Stadium Road (N)	242	94	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.25	8.48	0.3	A	117	175
B-A	0.27	12.78	0.4	B	88	132
C-AB	0.19	5.52	0.3	A	121	182
C-A					187	280
A-B					33	50
A-C					257	385

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	613	0.156	95	0.0	0.2	6.931	A
B-A	72	18	435	0.166	71	0.0	0.2	9.872	A
C-AB	92	23	776	0.119	92	0.0	0.2	5.259	A
C-A	160	40			160				
A-B	27	7			27				
A-C	211	53			211				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	594	0.192	114	0.2	0.2	7.492	A
B-A	86	22	416	0.208	86	0.2	0.3	10.912	B
C-AB	117	29	789	0.148	117	0.2	0.2	5.355	A
C-A	185	46			185				
A-B	32	8			32				
A-C	252	63			252				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	140	35	565	0.248	139	0.2	0.3	8.456	A
B-A	106	26	387	0.273	105	0.3	0.4	12.737	B
C-AB	155	39	807	0.192	154	0.2	0.3	5.518	A
C-A	215	54			215				
A-B	40	10			40				
A-C	308	77			308				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	140	35	564	0.248	140	0.3	0.3	8.477	A
B-A	106	26	387	0.273	106	0.4	0.4	12.782	B
C-AB	155	39	807	0.192	155	0.3	0.3	5.524	A
C-A	215	54			215				
A-B	40	10			40				
A-C	308	77			308				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	114	29	594	0.192	115	0.3	0.2	7.519	A
B-A	86	22	416	0.208	87	0.4	0.3	10.962	B
C-AB	117	29	789	0.148	117	0.3	0.2	5.366	A
C-A	185	46			185				
A-B	32	8			32				
A-C	252	63			252				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	96	24	613	0.156	96	0.2	0.2	6.968	A
B-A	72	18	435	0.166	73	0.3	0.2	9.932	A
C-AB	93	23	777	0.119	93	0.2	0.2	5.271	A
C-A	160	40			160				
A-B	27	7			27				
A-C	211	53			211				

# 2026 Base, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.37	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D19	2026 Base	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	376	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	239	100.000
C - Stadium Road (N)		ONE HOUR	✓	416	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	36	340
	B - Caldbeck Road (W)	105	0	134
	C - Stadium Road (N)	332	84	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.28	9.26	0.4	A	123	184
B-A	0.32	14.60	0.5	B	96	145
C-AB	0.19	5.17	0.4	A	124	186
C-A					258	387
A-B					33	50
A-C					312	468

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	101	25	598	0.169	100	0.0	0.2	7.225	A
B-A	79	20	419	0.188	78	0.0	0.2	10.520	B
C-AB	91	23	810	0.113	91	0.0	0.2	5.004	A
C-A	222	55			222				
A-B	27	7			27				
A-C	256	64			256				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	120	30	574	0.210	120	0.2	0.3	7.929	A
B-A	94	24	396	0.238	94	0.2	0.3	11.909	B
C-AB	118	30	830	0.142	118	0.2	0.2	5.061	A
C-A	256	64			256				
A-B	32	8			32				
A-C	306	76			306				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	148	37	537	0.275	147	0.3	0.4	9.226	A
B-A	116	29	362	0.319	115	0.3	0.5	14.521	B
C-AB	162	40	859	0.188	161	0.2	0.4	5.166	A
C-A	296	74			296				
A-B	40	10			40				
A-C	374	94			374				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	148	37	536	0.275	148	0.4	0.4	9.260	A
B-A	116	29	362	0.319	116	0.5	0.5	14.598	B
C-AB	162	40	859	0.188	162	0.4	0.4	5.173	A
C-A	296	74			296				
A-B	40	10			40				
A-C	374	94			374				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	120	30	573	0.210	121	0.4	0.3	7.965	A
B-A	94	24	396	0.238	95	0.5	0.3	11.985	B
C-AB	118	30	830	0.143	119	0.4	0.3	5.068	A
C-A	256	64			256				
A-B	32	8			32				
A-C	306	76			306				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	101	25	597	0.169	101	0.3	0.2	7.270	A
B-A	79	20	419	0.189	79	0.3	0.2	10.603	B
C-AB	92	23	810	0.113	92	0.3	0.2	5.020	A
C-A	221	55			221				
A-B	27	7			27				
A-C	256	64			256				

# 2026 Base, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.73	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D20	2026 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	324	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	187	100.000
C - Stadium Road (N)		ONE HOUR	✓	317	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	31	293
	B - Caldbeck Road (W)	82	0	105
	C - Stadium Road (N)	253	64	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0



## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.20	7.88	0.3	A	96	145
B-A	0.23	11.74	0.3	B	75	113
C-AB	0.13	5.10	0.2	A	84	126
C-A					207	310
A-B					28	43
A-C					269	403

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	79	20	616	0.128	78	0.0	0.1	6.692	A
B-A	62	15	441	0.140	61	0.0	0.2	9.460	A
C-AB	64	16	780	0.082	63	0.0	0.1	5.019	A
C-A	175	44			175				
A-B	23	6			23				
A-C	221	55			221				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	94	24	599	0.158	94	0.1	0.2	7.137	A
B-A	74	18	423	0.174	74	0.2	0.2	10.303	B
C-AB	81	20	794	0.102	81	0.1	0.2	5.050	A
C-A	204	51			204				
A-B	28	7			28				
A-C	263	66			263				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	116	29	573	0.202	115	0.2	0.3	7.864	A
B-A	90	23	397	0.227	90	0.2	0.3	11.713	B
C-AB	107	27	813	0.132	107	0.2	0.2	5.100	A
C-A	242	60			242				
A-B	34	9			34				
A-C	323	81			323				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	116	29	573	0.202	116	0.3	0.3	7.875	A
B-A	90	23	397	0.227	90	0.3	0.3	11.741	B
C-AB	108	27	813	0.132	107	0.2	0.2	5.104	A
C-A	242	60			242				
A-B	34	9			34				
A-C	323	81			323				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	94	24	598	0.158	95	0.3	0.2	7.152	A
B-A	74	18	423	0.174	74	0.3	0.2	10.334	B
C-AB	81	20	794	0.102	81	0.2	0.2	5.054	A
C-A	204	51			204				
A-B	28	7			28				
A-C	263	66			263				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	79	20	615	0.128	79	0.2	0.1	6.715	A
B-A	62	15	441	0.140	62	0.2	0.2	9.504	A
C-AB	64	16	780	0.082	64	0.2	0.1	5.027	A
C-A	175	44			175				
A-B	23	6			23				
A-C	221	55			221				

# 2026 Base + CD, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.80	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D21	2026 Base + CD	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	380	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	259	100.000
C - Stadium Road (N)		ONE HOUR	✓	432	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	40	340
	B - Caldbeck Road (W)	112	0	147
	C - Stadium Road (N)	332	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.31	9.85	0.4	A	135	202
B-A	0.35	15.66	0.5	C	103	154
C-AB	0.22	5.42	0.4	A	148	221
C-A					249	373
A-B					37	55
A-C					312	468

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	595	0.186	110	0.0	0.2	7.410	A
B-A	84	21	414	0.204	83	0.0	0.3	10.850	B
C-AB	109	27	809	0.135	108	0.0	0.2	5.132	A
C-A	216	54			216				
A-B	30	8			30				
A-C	256	64			256				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	569	0.232	132	0.2	0.3	8.225	A
B-A	101	25	389	0.259	100	0.3	0.3	12.435	B
C-AB	141	35	829	0.170	141	0.2	0.3	5.232	A
C-A	248	62			248				
A-B	36	9			36				
A-C	306	76			306				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	528	0.306	161	0.3	0.4	9.798	A
B-A	123	31	353	0.349	123	0.3	0.5	15.556	C
C-AB	192	48	858	0.224	192	0.3	0.4	5.412	A
C-A	283	71			283				
A-B	44	11			44				
A-C	374	94			374				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	527	0.307	162	0.4	0.4	9.848	A
B-A	123	31	353	0.349	123	0.5	0.5	15.665	C
C-AB	193	48	858	0.225	193	0.4	0.4	5.421	A
C-A	283	71			283				
A-B	44	11			44				
A-C	374	94			374				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	568	0.233	133	0.4	0.3	8.272	A
B-A	101	25	389	0.259	101	0.5	0.4	12.537	B
C-AB	141	35	830	0.170	142	0.4	0.3	5.245	A
C-A	247	62			247				
A-B	36	9			36				
A-C	306	76			306				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	594	0.186	111	0.3	0.2	7.461	A
B-A	84	21	414	0.204	85	0.4	0.3	10.949	B
C-AB	109	27	810	0.135	110	0.3	0.2	5.149	A
C-A	216	54			216				
A-B	30	8			30				
A-C	256	64			256				

# 2026 Base + CD, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

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

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D22	2026 Base + CD	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	331	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	227	100.000
C - Stadium Road (N)		ONE HOUR	✓	349	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	38	293
	B - Caldbeck Road (W)	95	0	132
	C - Stadium Road (N)	253	96	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.26	8.64	0.3	A	121	182
B-A	0.28	13.06	0.4	B	87	131
C-AB	0.20	5.54	0.4	A	126	189
C-A					194	291
A-B					35	52
A-C					269	403

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	99	25	613	0.162	99	0.0	0.2	6.993	A
B-A	72	18	430	0.166	71	0.0	0.2	9.988	A
C-AB	96	24	779	0.123	95	0.0	0.2	5.257	A
C-A	167	42			167				
A-B	29	7			29				
A-C	221	55			221				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	119	30	593	0.200	118	0.2	0.2	7.586	A
B-A	85	21	410	0.208	85	0.2	0.3	11.079	B
C-AB	121	30	793	0.153	121	0.2	0.2	5.364	A
C-A	192	48			192				
A-B	34	9			34				
A-C	263	66			263				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	145	36	562	0.258	145	0.2	0.3	8.617	A
B-A	105	26	380	0.275	104	0.3	0.4	13.015	B
C-AB	161	40	812	0.199	161	0.2	0.3	5.534	A
C-A	223	56			223				
A-B	42	10			42				
A-C	323	81			323				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	145	36	562	0.259	145	0.3	0.3	8.641	A
B-A	105	26	380	0.275	105	0.4	0.4	13.062	B
C-AB	161	40	812	0.199	161	0.3	0.4	5.543	A
C-A	223	56			223				
A-B	42	10			42				
A-C	323	81			323				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	119	30	592	0.200	119	0.3	0.3	7.612	A
B-A	85	21	410	0.208	86	0.4	0.3	11.133	B
C-AB	121	30	793	0.153	122	0.4	0.3	5.372	A
C-A	192	48			192				
A-B	34	9			34				
A-C	263	66			263				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	99	25	612	0.162	100	0.3	0.2	7.031	A
B-A	72	18	430	0.166	72	0.3	0.2	10.055	B
C-AB	96	24	779	0.123	96	0.3	0.2	5.275	A
C-A	167	42			167				
A-B	29	7			29				
A-C	221	55			221				



# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.83	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D23	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	380	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	260	100.000
C - Stadium Road (N)		ONE HOUR	✓	432	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	40	340
	B - Caldbeck Road (W)	113	0	147
	C - Stadium Road (N)	332	100	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.31	9.88	0.4	A	135	202
B-A	0.35	15.73	0.5	C	104	156
C-AB	0.22	5.42	0.4	A	148	221
C-A					249	373
A-B					37	55
A-C					312	468

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	594	0.186	110	0.0	0.2	7.420	A
B-A	85	21	414	0.205	84	0.0	0.3	10.866	B
C-AB	109	27	809	0.135	108	0.0	0.2	5.132	A
C-A	216	54			216				
A-B	30	8			30				
A-C	256	64			256				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	568	0.232	132	0.2	0.3	8.241	A
B-A	102	25	390	0.261	101	0.3	0.3	12.467	B
C-AB	141	35	829	0.170	141	0.2	0.3	5.232	A
C-A	248	62			248				
A-B	36	9			36				
A-C	306	76			306				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	527	0.307	161	0.3	0.4	9.830	A
B-A	124	31	353	0.352	124	0.3	0.5	15.624	C
C-AB	192	48	858	0.224	192	0.3	0.4	5.412	A
C-A	283	71			283				
A-B	44	11			44				
A-C	374	94			374				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	162	40	526	0.308	162	0.4	0.4	9.880	A
B-A	124	31	353	0.352	124	0.5	0.5	15.735	C
C-AB	193	48	858	0.225	193	0.4	0.4	5.421	A
C-A	283	71			283				
A-B	44	11			44				
A-C	374	94			374				

**09:15 - 09:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	132	33	568	0.233	133	0.4	0.3	8.288	A
B-A	102	25	389	0.261	102	0.5	0.4	12.574	B
C-AB	141	35	830	0.170	142	0.4	0.3	5.245	A
C-A	247	62			247				
A-B	36	9			36				
A-C	306	76			306				

**09:30 - 09:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	111	28	593	0.187	111	0.3	0.2	7.471	A
B-A	85	21	414	0.205	85	0.4	0.3	10.968	B
C-AB	109	27	810	0.135	110	0.3	0.2	5.149	A
C-A	216	54			216				
A-B	30	8			30				
A-C	256	64			256				

# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.54	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D24	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Stadium Road (S)		ONE HOUR	✓	331	100.000
B - Caldbeck Road (W)		ONE HOUR	✓	231	100.000
C - Stadium Road (N)		ONE HOUR	✓	349	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	38	293
	B - Caldbeck Road (W)	99	0	132
	C - Stadium Road (N)	253	96	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Stadium Road (S)	B - Caldbeck Road (W)	C - Stadium Road (N)
From	A - Stadium Road (S)	0	0	0
	B - Caldbeck Road (W)	0	0	0
	C - Stadium Road (N)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.26	8.73	0.4	A	121	182
B-A	0.29	13.25	0.4	B	91	136
C-AB	0.20	5.54	0.4	A	126	189
C-A					194	291
A-B					35	52
A-C					269	403

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	99	25	610	0.163	99	0.0	0.2	7.030	A
B-A	75	19	431	0.173	74	0.0	0.2	10.046	B
C-AB	96	24	779	0.123	95	0.0	0.2	5.257	A
C-A	167	42			167				
A-B	29	7			29				
A-C	221	55			221				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	119	30	590	0.201	118	0.2	0.2	7.638	A
B-A	89	22	411	0.217	89	0.2	0.3	11.175	B
C-AB	121	30	793	0.153	121	0.2	0.2	5.364	A
C-A	192	48			192				
A-B	34	9			34				
A-C	263	66			263				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	145	36	558	0.260	145	0.2	0.3	8.705	A
B-A	109	27	381	0.286	109	0.3	0.4	13.196	B
C-AB	161	40	812	0.199	161	0.2	0.3	5.534	A
C-A	223	56			223				
A-B	42	10			42				
A-C	323	81			323				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	145	36	558	0.261	145	0.3	0.4	8.729	A
B-A	109	27	381	0.286	109	0.4	0.4	13.246	B
C-AB	161	40	812	0.199	161	0.3	0.4	5.543	A
C-A	223	56			223				
A-B	42	10			42				
A-C	323	81			323				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	119	30	589	0.201	119	0.4	0.3	7.668	A
B-A	89	22	410	0.217	89	0.4	0.3	11.233	B
C-AB	121	30	793	0.153	122	0.4	0.3	5.372	A
C-A	192	48			192				
A-B	34	9			34				
A-C	263	66			263				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	99	25	609	0.163	100	0.3	0.2	7.069	A
B-A	75	19	431	0.173	75	0.3	0.2	10.116	B
C-AB	96	24	779	0.123	96	0.3	0.2	5.275	A
C-A	167	42			167				
A-B	29	7			29				
A-C	221	55			221				

# APPENDIX O

Proposed Access Road (Exit) – PICADY Modelling

Junctions 9
PICADY 9 - Priority Intersection Module
Version: 9.0.2.5947 © Copyright TRL Limited, 2017
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 770558 software@trl.co.uk www.trlsoftware.co.uk
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

**Filename:** Site Exit\_Welton Road (east).j9  
**Path:** C:\Users\manch\Dropbox (mode)\Project\Manchester\2. Projects\J325601\_Croft Retail Park, Welton Road\4. Data\6. Junction Capacity Assessments\PICADY\6\_Welton Road (east)\_Site Exit  
**Report generation date:** 25/02/2021 12:11:03

- »2021 Base + CD + Dev, AM
- »2021 Base + CD + Dev, PM
- »2026 Base + CD + Dev, AM
- »2026 Base + CD + Dev, PM

**Summary of junction performance**

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)	Queue (PCU)	Delay (s)	RFC	Junction Delay (s)
<b>2021 Base + CD + Dev</b>								
Stream B-C	0.0	5.64	0.00	0.19	0.0	5.89	0.02	0.28
Stream B-A	0.0	8.54	0.03		0.1	11.06	0.07	
Stream C-B	0.0	0.00	0.00		0.0	0.00	0.00	
<b>2026 Base + CD + Dev</b>								
Stream B-C	0.0	5.65	0.00	0.18	0.0	5.92	0.02	0.27
Stream B-A	0.0	8.64	0.03		0.1	11.36	0.07	
Stream C-B	0.0	0.00	0.00		0.0	0.00	0.00	

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. Junction LOS and Junction Delay are demand-weighted averages.

**File summary**

**File Description**

Title	(untitled)
Location	
Site number	
Date	20/12/2018
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-J595SBC\Manchester Mode
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

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

### Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D2	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓
D4	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓
D5	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# 2021 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.19	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Welton Road (south)		Major
B	Site Exit		Minor
C	Welton Road (north)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Welton Road (north)	8.50			0.0		-

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 - Site Exit	Two lanes	3.50	3.50	40	40

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	536	0.087	0.220	0.138	0.314
1	B-C	682	0.093	0.235	-	-
1	C-B	574	0.198	0.198	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2021 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road (south)		ONE HOUR	✓	138	100.000
B - Site Exit		ONE HOUR	✓	14	100.000
C - Welton Road (north)		ONE HOUR	✓	444	100.000

## Origin-Destination Data

### Demand (PCU/hr)

	To			
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	138
	B - Site Exit	12	0	2
	C - Welton Road (north)	444	0	0

## Vehicle Mix

### Heavy Vehicle Percentages

	To			
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	0
	B - Site Exit	0	0	0
	C - Welton Road (north)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.00	5.64	0.0	A	2	3
B-A	0.03	8.54	0.0	A	11	17
C-A					407	611
C-B	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					127	190

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.38	654	0.002	1	0.0	0.0	5.516	A
B-A	9	2	467	0.019	9	0.0	0.0	7.863	A
C-A	334	84			334				
C-B	0	0	553	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	104	26			104				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.45	649	0.003	2	0.0	0.0	5.566	A
B-A	11	3	453	0.024	11	0.0	0.0	8.134	A
C-A	399	100			399				
C-B	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	124	31			124				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.55	641	0.003	2	0.0	0.0	5.635	A
B-A	13	3	435	0.030	13	0.0	0.0	8.539	A
C-A	489	122			489				
C-B	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	152	38			152				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.55	641	0.003	2	0.0	0.0	5.635	A
B-A	13	3	435	0.030	13	0.0	0.0	8.539	A
C-A	489	122			489				
C-B	0	0	544	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	152	38			152				

#### 09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.45	648	0.003	2	0.0	0.0	5.566	A
B-A	11	3	453	0.024	11	0.0	0.0	8.137	A
C-A	399	100			399				
C-B	0	0	549	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	124	31			124				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.38	654	0.002	2	0.0	0.0	5.517	A
B-A	9	2	467	0.019	9	0.0	0.0	7.866	A
C-A	334	84			334				
C-B	0	0	553	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	104	26			104				

# 2021 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.28	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D2	2021 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road (south)		ONE HOUR	✓	186	100.000
B - Site Exit		ONE HOUR	✓	33	100.000
C - Welton Road (north)		ONE HOUR	✓	920	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	186
	B - Site Exit	23	0	10
	C - Welton Road (north)	920	0	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	0
	B - Site Exit	0	0	0
	C - Welton Road (north)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	5.89	0.0	A	9	14
B-A	0.07	11.06	0.1	B	21	32
C-A					844	1266
C-B	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					171	256

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8	2	642	0.012	7	0.0	0.0	5.675	A
B-A	17	4	409	0.042	17	0.0	0.0	9.178	A
C-A	693	173			693				
C-B	0	0	546	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	140	35			140				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9	2	634	0.014	9	0.0	0.0	5.763	A
B-A	21	5	385	0.054	21	0.0	0.1	9.888	A
C-A	827	207			827				
C-B	0	0	541	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	167	42			167				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11	3	622	0.018	11	0.0	0.0	5.892	A
B-A	25	6	351	0.072	25	0.1	0.1	11.059	B
C-A	1013	253			1013				
C-B	0	0	533	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	205	51			205				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11	3	622	0.018	11	0.0	0.0	5.893	A
B-A	25	6	351	0.072	25	0.1	0.1	11.064	B
C-A	1013	253			1013				
C-B	0	0	533	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	205	51			205				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9	2	633	0.014	9	0.0	0.0	5.764	A
B-A	21	5	385	0.054	21	0.1	0.1	9.896	A
C-A	827	207			827				
C-B	0	0	541	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	167	42			167				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8	2	642	0.012	8	0.0	0.0	5.676	A
B-A	17	4	409	0.042	17	0.1	0.0	9.188	A
C-A	693	173			693				
C-B	0	0	546	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	140	35			140				



# 2026 Base + CD + Dev, AM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.18	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D4	2026 Base + CD + Dev	AM	ONE HOUR	08:15	09:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road (south)		ONE HOUR	✓	145	100.000
B - Site Exit		ONE HOUR	✓	14	100.000
C - Welton Road (north)		ONE HOUR	✓	465	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	145
	B - Site Exit	12	0	2
	C - Welton Road (north)	465	0	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	0
	B - Site Exit	0	0	0
	C - Welton Road (north)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.00	5.65	0.0	A	2	3
B-A	0.03	8.64	0.0	A	11	17
C-A					427	640
C-B	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					133	200

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.38	653	0.002	1	0.0	0.0	5.527	A
B-A	9	2	463	0.020	9	0.0	0.0	7.921	A
C-A	350	88			350				
C-B	0	0	552	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	109	27			109				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.45	647	0.003	2	0.0	0.0	5.579	A
B-A	11	3	449	0.024	11	0.0	0.0	8.208	A
C-A	418	105			418				
C-B	0	0	548	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	130	33			130				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.55	639	0.003	2	0.0	0.0	5.652	A
B-A	13	3	430	0.031	13	0.0	0.0	8.639	A
C-A	512	128			512				
C-B	0	0	542	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	160	40			160				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.55	639	0.003	2	0.0	0.0	5.652	A
B-A	13	3	430	0.031	13	0.0	0.0	8.639	A
C-A	512	128			512				
C-B	0	0	542	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	160	40			160				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.45	647	0.003	2	0.0	0.0	5.579	A
B-A	11	3	449	0.024	11	0.0	0.0	8.211	A
C-A	418	105			418				
C-B	0	0	548	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	130	33			130				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	2	0.38	653	0.002	2	0.0	0.0	5.527	A
B-A	9	2	463	0.020	9	0.0	0.0	7.923	A
C-A	350	88			350				
C-B	0	0	552	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	109	27			109				

# 2026 Base + CD + Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.27	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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)	Run automatically
D5	2026 Base + CD + Dev	PM	ONE HOUR	16:15	17:45	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Welton Road (south)		ONE HOUR	✓	195	100.000
B - Site Exit		ONE HOUR	✓	33	100.000
C - Welton Road (north)		ONE HOUR	✓	961	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	195
	B - Site Exit	23	0	10
	C - Welton Road (north)	961	0	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Welton Road (south)	B - Site Exit	C - Welton Road (north)
From	A - Welton Road (south)	0	0	0
	B - Site Exit	0	0	0
	C - Welton Road (north)	0	0	0

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	5.92	0.0	A	9	14
B-A	0.07	11.36	0.1	B	21	32
C-A					882	1323
C-B	0.00	0.00	0.0	A	0	0
A-B					0	0
A-C					179	268

### Main Results for each time segment

#### 16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8	2	640	0.012	7	0.0	0.0	5.690	A
B-A	17	4	403	0.043	17	0.0	0.0	9.315	A
C-A	723	181			723				
C-B	0	0	545	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	147	37			147				

#### 16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9	2	632	0.014	9	0.0	0.0	5.782	A
B-A	21	5	378	0.055	21	0.0	0.1	10.078	B
C-A	864	216			864				
C-B	0	0	539	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	175	44			175				

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11	3	619	0.018	11	0.0	0.0	5.917	A
B-A	25	6	342	0.074	25	0.1	0.1	11.353	B
C-A	1058	265			1058				
C-B	0	0	531	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	215	54			215				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	11	3	619	0.018	11	0.0	0.0	5.917	A
B-A	25	6	342	0.074	25	0.1	0.1	11.358	B
C-A	1058	265			1058				
C-B	0	0	531	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	215	54			215				

**17:15 - 17:30**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	9	2	631	0.014	9	0.0	0.0	5.785	A
B-A	21	5	378	0.055	21	0.1	0.1	10.085	B
C-A	864	216			864				
C-B	0	0	539	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	175	44			175				

**17:30 - 17:45**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-C	8	2	640	0.012	8	0.0	0.0	5.693	A
B-A	17	4	403	0.043	17	0.1	0.0	9.325	A
C-A	723	181			723				
C-B	0	0	545	0.000	0	0.0	0.0	0.000	A
A-B	0	0			0				
A-C	147	37			147				

mode

transport planning

keep up with mode:



Birmingham

☎ 0121 794 8390

London

☎ 020 7293 0217

Manchester

☎ 0161 464 9495

Reading

☎ 0118 206 2945

✉ [info@modetransport.co.uk](mailto:info@modetransport.co.uk) 📍 [modetransport.co.uk](http://modetransport.co.uk) 🐦 [@mode\\_transport](https://twitter.com/mode_transport)