

Junctions 9
PICADY 9 - Priority Intersection Module
Version: 9.5.1.7462 © Copyright TRL Limited, 2019
For sales and distribution information, program advice and maintenance, contact TRL: +44 (0)1344 379777 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: Battlefield Rd\_Site Access.j9  
 Path: E:\clients\Savoy\Shrewsbury 2020  
 Report generation date: 20/10/2020 12:39:02

- »2020 With Development, AM
- »2020 With Development, PM
- »2030 With Development, AM
- »2030 With Development, PM

**Summary of junction performance**

	AM						PM					
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)
<b>2020 With Development</b>												
Stream B-AC	D1	0.3	12.86	0.23	B	0.91	D2	0.1	13.90	0.11	B	0.58
Stream C-AB		0.1	4.15	0.06	A			0.4	4.55	0.14	A	
<b>2030 With Development</b>												
Stream B-AC	D3	0.3	13.79	0.24	B	0.91	D4	0.1	15.39	0.12	C	0.60
Stream C-AB		0.1	4.05	0.06	A			0.4	4.45	0.15	A	

*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.*

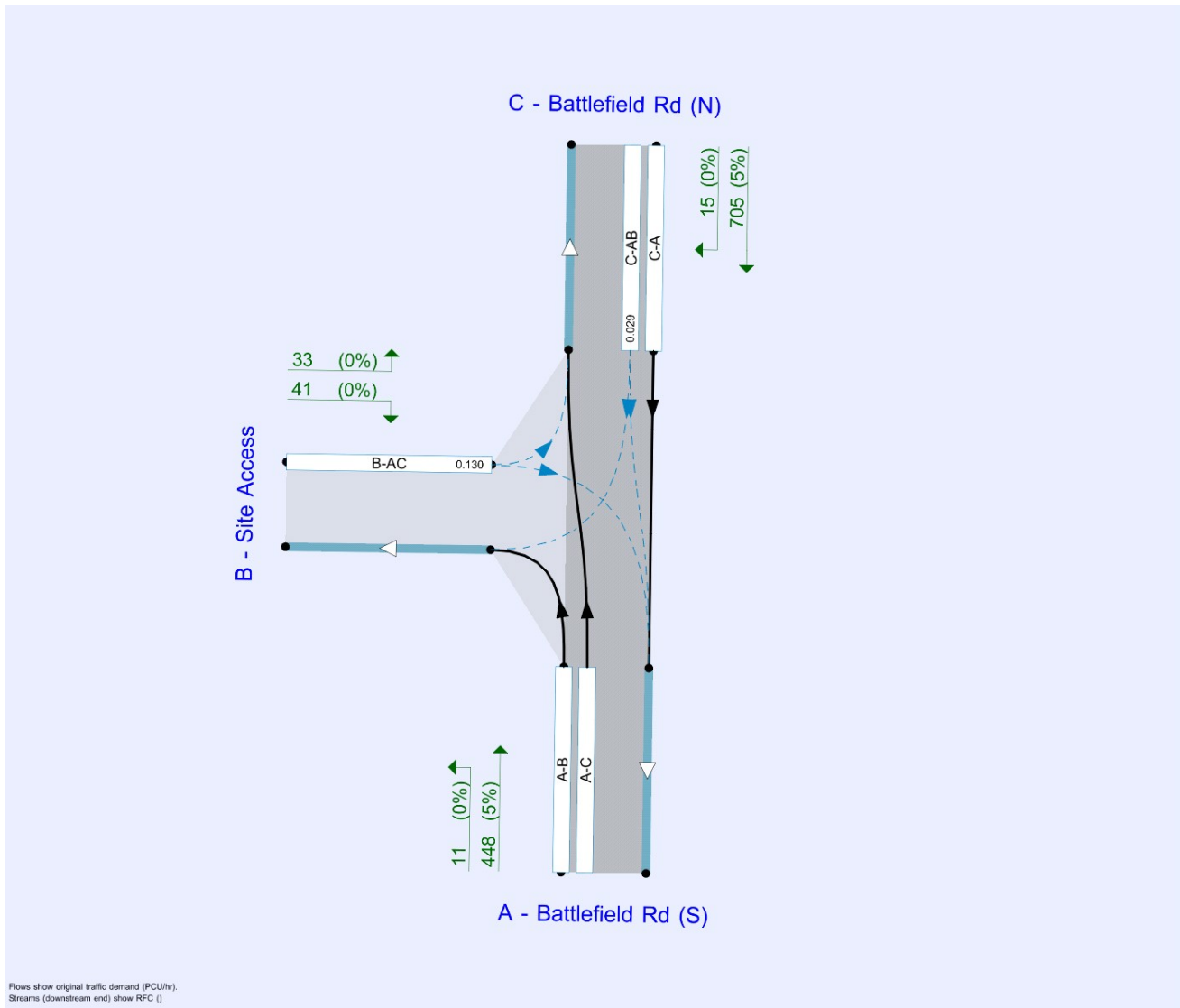
**File summary**

**File Description**

<b>Title</b>	Battlefield Rd / Site Access
<b>Location</b>	
<b>Site number</b>	
<b>Date</b>	19/10/2020
<b>Version</b>	
<b>Status</b>	
<b>Identifier</b>	
<b>Client</b>	
<b>Jobnumber</b>	
<b>Enumerator</b>	al
<b>Description</b>	

**Units**

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



The junction diagram reflects the last run of Junctions.

**Analysis Options**

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

**Demand Set Summary**

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2020 With Development	AM	ONE HOUR	07:45	09:15	15	✓
D2	2020 With Development	PM	ONE HOUR	16:45	18:15	15	✓
D3	2030 With Development	AM	ONE HOUR	07:45	09:15	15	✓
D4	2030 With Development	PM	ONE HOUR	16:45	18:15	15	✓

**Analysis Set Details**

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

# 2020 With Development, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Battlefield Rd / Site Access	T-Junction	Two-way		0.91	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Battlefield Rd (S)		Major
B	Site Access		Minor
C	Battlefield Rd (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 - Battlefield Rd (N)	7.30			100.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Site Access	One lane	3.33	20	19

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	510	0.088	0.221	0.139	0.316
B-C	657	0.095	0.240	-	-
C-B	632	0.231	0.231	-	-

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	2020 With Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Battlefield Rd (S)		ONE HOUR	✓	459	100.000
B - Site Access		ONE HOUR	✓	74	100.000
C - Battlefield Rd (N)		ONE HOUR	✓	720	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	11	448
	B - Site Access	41	0	33
	C - Battlefield Rd (N)	705	15	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	0	5
	B - Site Access	0	0	0
	C - Battlefield Rd (N)	5	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	12.86	0.3	B	68	102
C-AB	0.06	4.15	0.1	A	42	63
C-A					619	928
A-B					10	15
A-C					411	617

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	56	14	430	0.130	55	0.0	0.1	9.601	A
C-AB	27	7	920	0.029	27	0.0	0.0	4.143	A
C-A	515	129			515				
A-B	8	2			8				
A-C	337	84			337				

**08:00 - 08:15**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	67	17	401	0.166	66	0.1	0.2	10.735	B
C-AB	38	10	981	0.039	38	0.0	0.1	3.931	A
C-A	609	152			609				
A-B	10	2			10				
A-C	403	101			403				

**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)	Unsignalised level of service
B-AC	81	20	361	0.225	81	0.2	0.3	12.824	B
C-AB	60	15	1069	0.057	60	0.1	0.1	3.689	A
C-A	732	183			732				
A-B	12	3			12				
A-C	493	123			493				

**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)	Unsignalised level of service
B-AC	81	20	361	0.225	81	0.3	0.3	12.858	B
C-AB	61	15	1069	0.057	61	0.1	0.1	3.696	A
C-A	732	183			732				
A-B	12	3			12				
A-C	493	123			493				

**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)	Unsignalised level of service
B-AC	67	17	401	0.166	67	0.3	0.2	10.774	B
C-AB	38	10	982	0.039	38	0.1	0.1	3.950	A
C-A	609	152			609				
A-B	10	2			10				
A-C	403	101			403				

**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)	Unsignalised level of service
B-AC	56	14	430	0.130	56	0.2	0.2	9.640	A
C-AB	27	7	920	0.029	27	0.1	0.0	4.154	A
C-A	515	129			515				
A-B	8	2			8				
A-C	337	84			337				

# 2020 With Development, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Battlefield Rd / Site Access	T-Junction	Two-way		0.58	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	2020 With Development	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Battlefield Rd (S)		ONE HOUR	✓	755	100.000
B - Site Access		ONE HOUR	✓	30	100.000
C - Battlefield Rd (N)		ONE HOUR	✓	720	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	30	725
	B - Site Access	15	0	15
	C - Battlefield Rd (N)	689	31	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	0	5
	B - Site Access	0	0	0
	C - Battlefield Rd (N)	5	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	0.11	13.90	0.1	B	28	41
C-AB	0.14	4.55	0.4	A	93	139
C-A					568	852
A-B					28	41
A-C					665	998

### Main Results for each time segment

#### 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)	Unsignalised level of service
B-AC	23	6	387	0.058	22	0.0	0.1	9.858	A
C-AB	57	14	875	0.066	57	0.0	0.1	4.528	A
C-A	485	121			485				
A-B	23	6			23				
A-C	546	136			546				

#### 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)	Unsignalised level of service
B-AC	27	7	348	0.077	27	0.1	0.1	11.196	B
C-AB	84	21	931	0.090	83	0.1	0.2	4.379	A
C-A	564	141			564				
A-B	27	7			27				
A-C	652	163			652				

#### 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)	Unsignalised level of service
B-AC	33	8	292	0.113	33	0.1	0.1	13.880	B
C-AB	137	34	1013	0.135	136	0.2	0.4	4.252	A
C-A	656	164			656				
A-B	33	8			33				
A-C	798	200			798				

#### 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)	Unsignalised level of service
B-AC	33	8	292	0.113	33	0.1	0.1	13.902	B
C-AB	137	34	1014	0.135	137	0.4	0.4	4.266	A
C-A	656	164			656				
A-B	33	8			33				
A-C	798	200			798				

**17:45 - 18:00**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	7	348	0.077	27	0.1	0.1	11.217	B
C-AB	84	21	932	0.090	85	0.4	0.2	4.409	A
C-A	563	141			563				
A-B	27	7			27				
A-C	652	163			652				

**18:00 - 18:15**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	6	387	0.058	23	0.1	0.1	9.878	A
C-AB	58	14	875	0.066	58	0.2	0.1	4.547	A
C-A	484	121			484				
A-B	23	6			23				
A-C	546	136			546				



# 2030 With Development, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Battlefield Rd / Site Access	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
D3	2030 With Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Battlefield Rd (S)		ONE HOUR	✓	498	100.000
B - Site Access		ONE HOUR	✓	74	100.000
C - Battlefield Rd (N)		ONE HOUR	✓	781	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	11	487
	B - Site Access	41	0	33
	C - Battlefield Rd (N)	766	15	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	0	0
	B - Site Access	0	0	0
	C - Battlefield Rd (N)	5	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	13.79	0.3	B	68	102
C-AB	0.06	4.05	0.1	A	47	70
C-A					670	1005
A-B					10	15
A-C					447	670

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	56	14	417	0.133	55	0.0	0.2	9.922	A
C-AB	29	7	947	0.030	29	0.0	0.0	4.036	A
C-A	559	140			559				
A-B	8	2			8				
A-C	367	92			367				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	67	17	387	0.172	66	0.2	0.2	11.234	B
C-AB	42	11	1015	0.041	42	0.0	0.1	3.817	A
C-A	660	165			660				
A-B	10	2			10				
A-C	438	109			438				

#### 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)	Unsignalised level of service
B-AC	81	20	343	0.238	81	0.2	0.3	13.746	B
C-AB	69	17	1112	0.062	68	0.1	0.1	3.573	A
C-A	791	198			791				
A-B	12	3			12				
A-C	536	134			536				

#### 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)	Unsignalised level of service
B-AC	81	20	342	0.238	81	0.3	0.3	13.791	B
C-AB	69	17	1112	0.062	69	0.1	0.1	3.579	A
C-A	791	198			791				
A-B	12	3			12				
A-C	536	134			536				

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)	Unsignalised level of service
B-AC	67	17	387	0.172	67	0.3	0.2	11.279	B
C-AB	42	11	1015	0.042	42	0.1	0.1	3.837	A
C-A	660	165			660				
A-B	10	2			10				
A-C	438	109			438				

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)	Unsignalised level of service
B-AC	56	14	417	0.133	56	0.2	0.2	9.966	A
C-AB	29	7	947	0.031	29	0.1	0.0	4.046	A
C-A	559	140			559				
A-B	8	2			8				
A-C	367	92			367				

# 2030 With Development, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Battlefield Rd / Site Access	T-Junction	Two-way		0.60	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
D4	2030 With Development	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Battlefield Rd (S)		ONE HOUR	✓	814	100.000
B - Site Access		ONE HOUR	✓	30	100.000
C - Battlefield Rd (N)		ONE HOUR	✓	776	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	30	784
	B - Site Access	15	0	15
	C - Battlefield Rd (N)	745	31	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Battlefield Rd (S)	B - Site Access	C - Battlefield Rd (N)
From	A - Battlefield Rd (S)	0	0	5
	B - Site Access	0	0	0
	C - Battlefield Rd (N)	5	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	0.12	15.39	0.1	C	28	41
C-AB	0.15	4.45	0.4	A	104	156
C-A					608	912
A-B					28	41
A-C					719	1079

### Main Results for each time segment

#### 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)	Unsignalised level of service
B-AC	23	6	372	0.061	22	0.0	0.1	10.293	B
C-AB	62	16	898	0.069	62	0.0	0.1	4.434	A
C-A	522	131			522				
A-B	23	6			23				
A-C	590	148			590				

#### 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)	Unsignalised level of service
B-AC	27	7	329	0.082	27	0.1	0.1	11.903	B
C-AB	93	23	961	0.096	92	0.1	0.2	4.284	A
C-A	605	151			605				
A-B	27	7			27				
A-C	705	176			705				

#### 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)	Unsignalised level of service
B-AC	33	8	267	0.124	33	0.1	0.1	15.355	C
C-AB	156	39	1052	0.148	155	0.2	0.4	4.167	A
C-A	698	175			698				
A-B	33	8			33				
A-C	863	216			863				

#### 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)	Unsignalised level of service
B-AC	33	8	267	0.124	33	0.1	0.1	15.389	C
C-AB	157	39	1053	0.149	157	0.4	0.4	4.182	A
C-A	698	174			698				
A-B	33	8			33				
A-C	863	216			863				

**17:45 - 18:00**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	27	7	329	0.082	27	0.1	0.1	11.933	B
C-AB	93	23	961	0.097	94	0.4	0.2	4.312	A
C-A	605	151			605				
A-B	27	7			27				
A-C	705	176			705				

**18:00 - 18:15**

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	6	372	0.061	23	0.1	0.1	10.319	B
C-AB	63	16	899	0.070	63	0.2	0.1	4.454	A
C-A	522	130			522				
A-B	23	6			23				
A-C	590	148			590				