

Junctions 9	
PICADY 9 - Priority Intersection Module	
Version: 9.5.2.1013 © 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: High Street - Mid Street - Park Works Road Junction (proposed with crossing).j9

Path: O:\London\Vectos\Projects\Projects\220000\226799 - Nutfield Green Park\MODELLING\Junctions\High Street - Mid Street - Park Works Road Junction\240821 - UPDATE (crossing)

Report generation date: 23/08/2024 11:09:11

»2024 Base + Com Dev + Dev, AM (08:00-09:00)
 »2024 Base + Com Dev + Dev, PM (17:00-18:00)
 »2024 Base + Com Dev + Dev, PM (16:00-17:00)
 »2029 Future Base + Com Dev + Dev, AM (08:00-09:00)
 »2029 Future Base + Com Dev + Dev, PM (17:00-18:00)
 »2029 Future Base + Com Dev + Dev, PM (16:00-17:00)
 »2024 Base + Com Dev + Dev (Adjusted), AM (08:00-09:00)
 »2024 Base + Com Dev + Dev (Adjusted), PM (17:00-18:00)
 »2024 Base + Com Dev + Dev (Adjusted), PM (16:00-17:00)
 »2029 Future Base + Com Dev + Dev (Adjusted), AM (08:00-09:00)
 »2029 Future Base + Com Dev + Dev (Adjusted), PM (17:00-18:00)
 »2029 Future Base + Com Dev + Dev (Adjusted), PM (16:00-17:00)

Summary of junction performance

	AM (08:00-09:00)					PM (17:00-18:00)					PM (16:00-17:00)				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2024 Base + Com Dev + Dev														
Stream B-CD	D1	0.8	20.11	0.44	C	D2	1.0	39.32	0.51	E	D3	1.2	38.09	0.56	E
Stream B-A		2.0	45.98	0.68	E		4.9	74.74	0.86	F		4.7	69.94	0.86	F
Stream A-BC		2.5	9.55	0.56	A		1.0	6.29	0.33	A		1.0	3.27	0.33	A
Stream A-D		0.0	9.38	0.55	A		0.0	6.22	0.33	A		0.0	0.00	0.00	A
Stream AB-D		0.0	7.14	0.01	A		0.0	8.13	0.00	A		0.0	7.76	0.01	A
Stream D-ABC		0.0	8.37	0.02	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		1.1	8.31	0.38	A		1.2	6.03	0.39	A		0.7	5.18	0.26	A
	2029 Future Base + Com Dev + Dev														
Stream B-CD	D4	0.9	24.40	0.49	C	D5	3.6	137.54	0.90	F	D6	3.1	97.59	0.83	F
Stream B-A		2.5	55.52	0.73	F		6.8	99.61	0.92	F		6.5	93.23	0.91	F
Stream A-BC		2.6	9.92	0.57	A		1.0	6.39	0.34	A		1.0	3.31	0.34	A
Stream A-D		0.0	9.73	0.57	A		0.0	6.31	0.34	A		0.0	0.00	0.00	A
Stream AB-D		0.0	7.19	0.01	A		0.0	8.23	0.00	A		0.0	7.84	0.01	A
Stream D-ABC		0.0	8.47	0.02	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		1.1	8.53	0.40	A		1.3	6.17	0.41	A		0.8	5.22	0.28	A
	2024 Base + Com Dev + Dev (Adjusted)														
Stream B-CD	D7	0.6	18.09	0.39	C	D8	0.8	32.93	0.46	D	D9	1.0	31.61	0.51	D
Stream B-A		1.8	41.20	0.66	E		4.5	69.01	0.85	F		4.3	63.51	0.84	F
Stream A-BC		2.4	9.50	0.55	A		0.9	6.24	0.32	A		1.0	3.23	0.33	A
Stream A-D		0.0	9.32	0.55	A		0.0	6.17	0.32	A		0.0	0.00	0.00	A
Stream AB-D		0.0	7.09	0.01	A		0.0	8.08	0.00	A		0.0	7.71	0.01	A
Stream D-ABC		0.0	8.27	0.01	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		0.9	7.84	0.34	A		1.2	5.94	0.37	A		0.7	5.14	0.25	A
	2029 Future Base + Com Dev + Dev (Adjusted)														
Stream B-CD	D10	0.7	21.33	0.44	C	D11	2.1	83.35	0.73	F	D12	2.0	65.59	0.71	F
Stream B-A		2.2	49.17	0.71	E		6.2	91.65	0.90	F		5.9	84.22	0.89	F
Stream A-BC		2.6	9.86	0.57	A		1.0	6.33	0.33	A		1.0	3.28	0.34	A
Stream A-D		0.0	9.68	0.57	A		0.0	6.26	0.33	A		0.0	0.00	0.00	A
Stream AB-D		0.0	7.13	0.01	A		0.0	8.19	0.00	A		0.0	7.80	0.01	A
Stream D-ABC		0.0	8.37	0.02	A		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream CD-AB		1.0	8.06	0.36	A		1.3	6.11	0.40	A		0.7	5.20	0.27	A

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

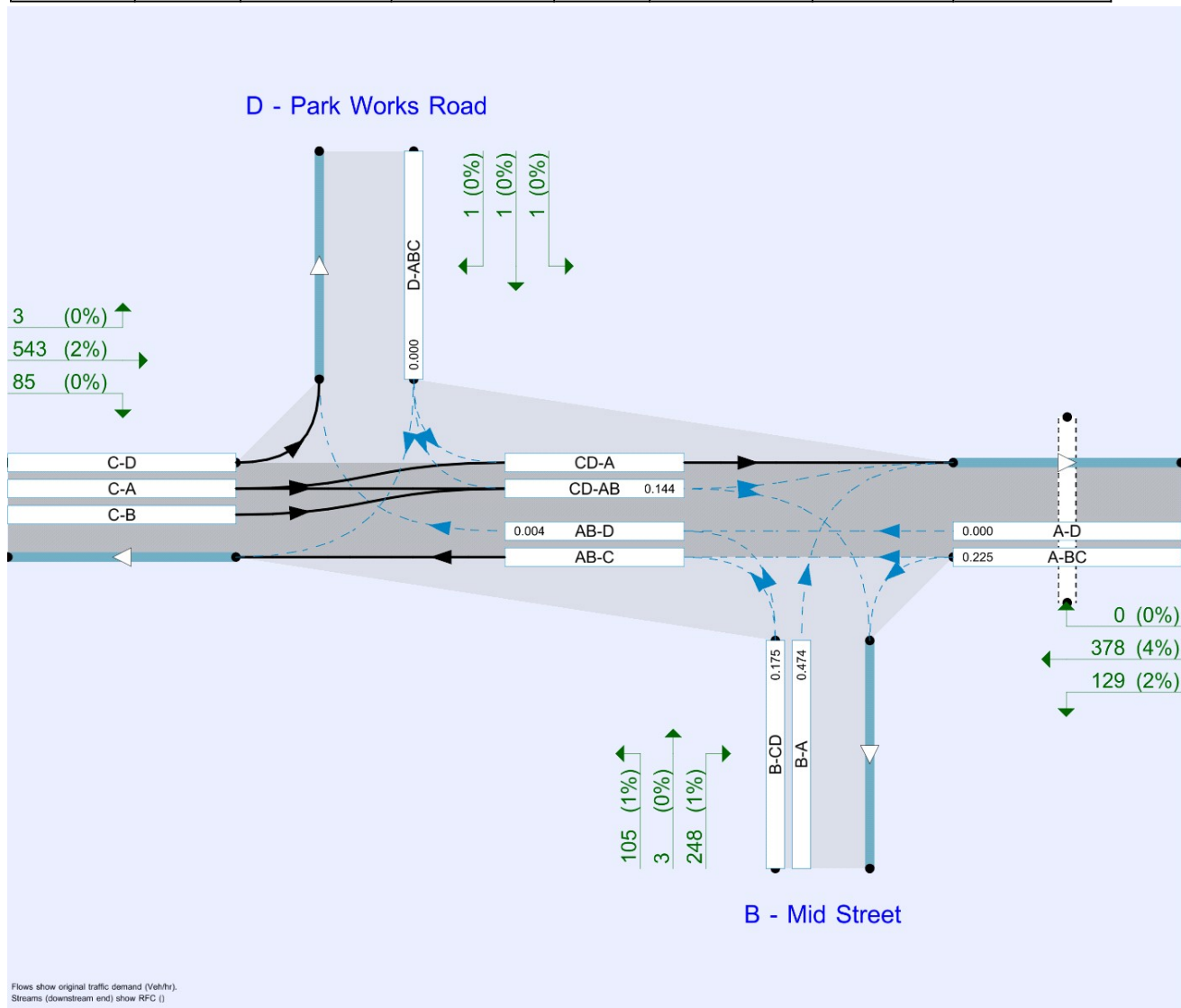
File summary

File Description

Title	
Location	
Site number	
Date	27/03/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	SLR\ethan.terry
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	Veh	Veh	perHour	s	-Min	perMin



Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2024 Base + Com Dev + Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D2	2024 Base + Com Dev + Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D3	2024 Base + Com Dev + Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15
D4	2029 Future Base + Com Dev + Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D5	2029 Future Base + Com Dev + Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D6	2029 Future Base + Com Dev + Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15
D7	2024 Base + Com Dev + Dev (Adjusted)	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D8	2024 Base + Com Dev + Dev (Adjusted)	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D9	2024 Base + Com Dev + Dev (Adjusted)	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15
D10	2029 Future Base + Com Dev + Dev (Adjusted)	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15
D11	2029 Future Base + Com Dev + Dev (Adjusted)	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15
D12	2029 Future Base + Com Dev + Dev (Adjusted)	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2024 Base + Com Dev + Dev, AM (08:00-09:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		7.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	High Street (E)		Major
B	Mid Street		Minor
C	High Street (W)		Major
D	Park Works Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - High Street (E)	6.52			105.3		-
C - High Street (W)	6.75			182.7	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Mid Street	One lane plus flare		10.00	6.31	4.76	4.34	3.50	✓	2.00	48	37
D - Park Works Road	One lane	2.90								20	17

Pelican/Puffin Crossings

Arm	Space between crossing and junc. entry (Signalised) (PCU)	Amber time preceding red (s)	Amber time regarded as green (s)	Time from traffic red start to green man start (s)	Time period green man shown (s)	Clearance Period (s)	Traffic minimum green (s)
A - High Street (E)	2.00	3.00	2.90	1.00	5.00	10.00	7.00

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B
AB-D	635	-	-	-	-	-	0.240	0.240	0.240	-	-
B-A	546	0.096	0.243	0.243	-	-	0.153	0.347	-	0.153	0.347
B-CD	670	0.099	0.251	0.251	-	-	-	-	-	-	-
CD-B	680	0.255	0.255	0.255	-	-	-	-	-	-	-
D-AB	629	-	-	-	-	-	0.238	0.238	0.094	-	-
D-C	488	-	0.138	0.313	0.138	0.313	0.219	0.219	0.087	-	-

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)
D1	2024 Base + Com Dev + Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	836	100.000
B - Mid Street		✓	276	100.000
C - High Street (W)		✓	444	100.000
D - Park Works Road		✓	6	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	278	555	3
	B - Mid Street	151	0	124	1
	C - High Street (W)	332	111	0	1
	D - Park Works Road	2	3	1	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	10	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.44	20.11	0.8	C
B-A	0.68	45.98	2.0	E
A-BC	0.56	9.55	2.5	A
A-D	0.55	9.38	0.0	A
AB-C				
AB-D	0.01	7.14	0.0	A
D-ABC	0.02	8.37	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.38	8.31	1.1	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		476	0.198	93	0.2	9.385	A
B-A	114		342	0.332	112	0.5	15.492	C
A-BC	627	45.17	1690	0.371	622	1.2	6.566	A
A-D	2	45.17	6	0.370	2	0.0	6.450	A
AB-C	507				507			
AB-D	3		548	0.005	3	0.0	6.600	A
D-ABC	5		492	0.009	4	0.0	7.386	A
C-D	0.75				0.75			
C-A	250				250			
C-B	84				84			
CD-AB	136		682	0.199	134	0.4	6.569	A
CD-A	201				201			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	112		427	0.263	112	0.4	11.398	B
B-A	136		302	0.450	135	0.8	21.380	C
A-BC	749	53.94	1673	0.448	747	1.6	7.580	A
A-D	3	53.94	6	0.446	3	0.0	7.447	A
AB-C	609				609			
AB-D	4		532	0.007	4	0.0	6.818	A
D-ABC	5		469	0.012	5	0.0	7.761	A
C-D	0.90				0.90			
C-A	298				298			
C-B	100				100			
CD-AB	182		689	0.265	182	0.6	7.089	A
CD-A	220				220			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	138		326	0.422	136	0.7	18.846	C
B-A	166		244	0.681	162	1.9	41.791	E
A-BC	917	66.06	1651	0.556	914	2.4	9.471	A
A-D	3	66.06	6	0.553	3	0.0	9.297	A
AB-C	744				744			
AB-D	4		508	0.009	4	0.0	7.143	A
D-ABC	7		437	0.015	7	0.0	8.369	A
C-D	1				1			
C-A	366				366			
C-B	122				122			
CD-AB	265		702	0.378	263	1.0	8.187	A
CD-A	228				228			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	138		316	0.435	137	0.8	20.115	C
B-A	166		243	0.685	166	2.0	45.981	E
A-BC	917	66.06	1651	0.556	917	2.5	9.552	A
A-D	3	66.06	6	0.553	3	0.0	9.375	A
AB-C	747				747			
AB-D	4		508	0.009	4	0.0	7.143	A
D-ABC	7		437	0.015	7	0.0	8.373	A
C-D	1				1			
C-A	366				366			
C-B	122				122			
CD-AB	266		703	0.379	266	1.0	8.313	A
CD-A	227				227			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	112		420	0.268	114	0.4	11.812	B
B-A	136		300	0.452	140	0.9	23.080	C
A-BC	749	53.94	1673	0.448	752	1.6	7.663	A
A-D	3	53.94	6	0.446	3	0.0	7.526	A
AB-C	614				614			
AB-D	4		532	0.007	4	0.0	6.818	A
D-ABC	5		469	0.012	5	0.0	7.767	A
C-D	0.90				0.90			
C-A	298				298			
C-B	100				100			
CD-AB	184		689	0.267	185	0.6	7.247	A
CD-A	219				219			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		472	0.199	95	0.3	9.554	A
B-A	114		341	0.334	115	0.5	16.052	C
A-BC	627	45.17	1690	0.371	629	1.2	6.646	A
A-D	2	45.17	6	0.370	2	0.0	6.529	A
AB-C	513				513			
AB-D	3		548	0.006	3	0.0	6.603	A
D-ABC	5		492	0.009	5	0.0	7.391	A
C-D	0.75				0.75			
C-A	250				250			
C-B	84				84			
CD-AB	137		681	0.201	138	0.4	6.679	A
CD-A	200				200			

2024 Base + Com Dev + Dev, PM (17:00-18:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		9.44	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)
D2	2024 Base + Com Dev + Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	497	100.000
B - Mid Street		✓	319	100.000
C - High Street (W)		✓	703	100.000
D - Park Works Road		✓	0	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	120	376
	B - Mid Street	233	0	85
	C - High Street (W)	585	116	0
	D - Park Works Road	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

From	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.51	39.32	1.0	E
B-A	0.86	74.74	4.9	F
A-BC	0.33	6.29	1.0	A
A-D	0.33	6.22	0.0	A
AB-C				
AB-D	0.00	8.13	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.39	6.03	1.2	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	65		471	0.137	64	0.2	8.825	A
B-A	175		390	0.450	172	0.8	16.330	C
A-BC	373	45.17	1711	0.218	371	0.6	5.284	A
A-D	0.75	45.17	3	0.218	0.75	0.0	5.220	A
AB-C	345				345			
AB-D	1		505	0.003	1	0.0	7.147	A
D-ABC	0		390	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	440				440			
C-B	87				87			
CD-AB	177		869	0.204	175	0.4	5.191	A
CD-A	351				351			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	77		406	0.190	77	0.2	10.933	B
B-A	209		351	0.596	207	1.4	24.547	C
A-BC	446	53.94	1694	0.263	445	0.7	5.675	A
A-D	0.90	53.94	3	0.263	0.90	0.0	5.608	A
AB-C	414				414			
AB-D	2		480	0.004	2	0.0	7.528	A
D-ABC	0		358	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	526				526			
C-B	104				104			
CD-AB	247		914	0.271	246	0.7	5.408	A
CD-A	383				383			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	95		221	0.429	93	0.7	27.731	D
B-A	257		298	0.861	245	4.2	58.897	F
A-BC	546	66.06	1671	0.327	545	1.0	6.283	A
A-D	1	66.06	3	0.326	1	0.0	6.209	A
AB-C	505				505			
AB-D	2		445	0.005	2	0.0	8.127	A
D-ABC	0		312	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	644				644			
C-B	128				128			
CD-AB	377		979	0.385	375	1.2	5.981	A
CD-A	395				395			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	95		184	0.515	94	1.0	39.322	E
B-A	257		297	0.863	254	4.9	74.744	F
A-BC	546	66.06	1671	0.327	546	1.0	6.293	A
A-D	1	66.06	3	0.326	1	0.0	6.219	A
AB-C	506				506			
AB-D	2		445	0.005	2	0.0	8.127	A
D-ABC	0		312	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	644				644			
C-B	128				128			
CD-AB	378		980	0.386	378	1.2	6.029	A
CD-A	394				394			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	77		383	0.202	80	0.3	12.008	B
B-A	209		351	0.597	223	1.6	30.567	D
A-BC	446	53.94	1694	0.263	447	0.7	5.690	A
A-D	0.90	53.94	3	0.263	0.90	0.0	5.621	A
AB-C	418				418			
AB-D	2		480	0.004	2	0.0	7.531	A
D-ABC	0		357	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	526				526			
C-B	104				104			
CD-AB	249		915	0.272	251	0.7	5.459	A
CD-A	382				382			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	65		465	0.139	65	0.2	9.000	A
B-A	175		389	0.451	178	0.8	17.335	C
A-BC	373	45.17	1711	0.218	374	0.6	5.306	A
A-D	0.75	45.17	3	0.218	0.75	0.0	5.241	A
AB-C	348				348			
AB-D	2		505	0.003	2	0.0	7.150	A
D-ABC	0		390	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	440				440			
C-B	87				87			
CD-AB	179		869	0.205	180	0.5	5.241	A
CD-A	349				349			

2024 Base + Com Dev + Dev, PM (16:00-17:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		9.04	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)
D3	2024 Base + Com Dev + Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	502	100.000
B - Mid Street		✓	347	100.000
C - High Street (W)		✓	623	100.000
D - Park Works Road		✓	3	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	125	377
	B - Mid Street	240	0	104
	C - High Street (W)	536	84	0
	D - Park Works Road	1	1	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	2	4	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.56	38.09	1.2	E
B-A	0.86	69.94	4.7	F
A-BC	0.33	3.27	1.0	A
A-D	0.00	0.00	0.0	A
AB-C				
AB-D	0.01	7.76	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.26	5.18	0.7	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	81		471	0.171	80	0.2	9.176	A
B-A	181		395	0.458	177	0.8	16.330	C
A-BC	378	45.17	1699	0.223	376	0.6	2.721	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	360				360			
AB-D	2		520	0.004	2	0.0	6.949	A
D-ABC	0		403	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	404				404			
C-B	63				63			
CD-AB	120		851	0.141	119	0.3	4.918	A
CD-A	346				346			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		407	0.236	96	0.3	11.541	B
B-A	216		360	0.600	213	1.4	24.210	C
A-BC	451	53.94	1681	0.268	451	0.7	2.930	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	432				432			
AB-D	3		498	0.005	3	0.0	7.268	A
D-ABC	0		373	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	482				482			
C-B	76				76			
CD-AB	166		889	0.186	165	0.4	4.975	A
CD-A	392				392			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	118		240	0.490	115	0.9	28.306	D
B-A	264		309	0.854	253	4.1	55.923	F
A-BC	553	66.06	1659	0.333	552	1.0	3.259	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	526				526			
AB-D	3		467	0.007	3	0.0	7.759	A
D-ABC	0		331	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	590				590			
C-B	92				92			
CD-AB	248		946	0.262	247	0.7	5.156	A
CD-A	435				435			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	118		210	0.562	117	1.2	38.092	E
B-A	264		309	0.856	262	4.7	69.944	F
A-BC	553	66.06	1659	0.333	553	1.0	3.265	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	528				528			
AB-D	3		467	0.007	3	0.0	7.760	A
D-ABC	0		331	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	590				590			
C-B	92				92			
CD-AB	248		946	0.263	248	0.7	5.181	A
CD-A	434				434			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		386	0.249	100	0.3	12.694	B
B-A	216		359	0.601	228	1.6	29.703	D
A-BC	451	53.94	1681	0.268	452	0.7	2.938	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	436				436			
AB-D	3		498	0.006	3	0.0	7.269	A
D-ABC	0		373	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	482				482			
C-B	76				76			
CD-AB	166		890	0.187	167	0.4	5.007	A
CD-A	391				391			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	81		465	0.173	81	0.2	9.381	A
B-A	181		394	0.458	184	0.9	17.325	C
A-BC	378	45.17	1699	0.223	379	0.6	2.735	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	363				363			
AB-D	2		520	0.004	2	0.0	6.952	A
D-ABC	0		403	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	404				404			
C-B	63				63			
CD-AB	121		851	0.142	122	0.3	4.951	A
CD-A	346				346			

2029 Future Base + Com Dev + Dev, AM (08:00-09:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		7.89	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)
D4	2029 Future Base + Com Dev + Dev	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	861	100.000
B - Mid Street		✓	283	100.000
C - High Street (W)		✓	455	100.000
D - Park Works Road		✓	6	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	287	571
	B - Mid Street	156	0	126
	C - High Street (W)	341	113	0
	D - Park Works Road	2	3	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	10	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.49	24.40	0.9	C
B-A	0.73	55.52	2.5	F
A-BC	0.57	9.92	2.6	A
A-D	0.57	9.73	0.0	A
AB-C				
AB-D	0.01	7.19	0.0	A
D-ABC	0.02	8.47	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.40	8.53	1.1	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		469	0.204	95	0.3	9.596	A
B-A	117		337	0.348	115	0.5	16.074	C
A-BC	646	45.17	1690	0.382	641	1.2	6.679	A
A-D	2	45.17	6	0.381	2	0.0	6.562	A
AB-C	520				520			
AB-D	3		546	0.005	3	0.0	6.626	A
D-ABC	5		489	0.009	4	0.0	7.430	A
C-D	0.75				0.75			
C-A	257				257			
C-B	85				85			
CD-AB	140		682	0.206	139	0.4	6.617	A
CD-A	205				205			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	114		417	0.274	114	0.4	11.861	B
B-A	140		295	0.475	139	0.9	22.787	C
A-BC	771	53.94	1673	0.461	769	1.7	7.763	A
A-D	3	53.94	6	0.459	3	0.0	7.626	A
AB-C	625				625			
AB-D	4		529	0.007	4	0.0	6.851	A
D-ABC	5		466	0.012	5	0.0	7.821	A
C-D	0.90				0.90			
C-A	307				307			
C-B	102				102			
CD-AB	189		690	0.275	189	0.6	7.171	A
CD-A	223				223			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	140		301	0.465	138	0.8	21.901	C
B-A	172		235	0.730	166	2.3	48.571	E
A-BC	945	66.06	1651	0.572	941	2.6	9.822	A
A-D	3	66.06	6	0.569	3	0.0	9.640	A
AB-C	763				763			
AB-D	4		505	0.009	4	0.0	7.188	A
D-ABC	7		432	0.015	7	0.0	8.460	A
C-D	1				1			
C-A	375				375			
C-B	124				124			
CD-AB	277		704	0.394	275	1.1	8.386	A
CD-A	228				228			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	140		287	0.488	139	0.9	24.397	C
B-A	172		234	0.735	171	2.5	55.516	F
A-BC	945	66.06	1651	0.572	945	2.6	9.918	A
A-D	3	66.06	6	0.569	3	0.0	9.732	A
AB-C	767				767			
AB-D	4		505	0.009	4	0.0	7.188	A
D-ABC	7		432	0.015	7	0.0	8.466	A
C-D	1				1			
C-A	375				375			
C-B	124				124			
CD-AB	279		704	0.396	279	1.1	8.525	A
CD-A	227				227			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	114		407	0.280	116	0.4	12.463	B
B-A	140		294	0.477	146	1.0	25.271	D
A-BC	771	53.94	1673	0.461	775	1.7	7.858	A
A-D	3	53.94	6	0.459	3	0.0	7.720	A
AB-C	631				631			
AB-D	4		529	0.007	4	0.0	6.854	A
D-ABC	5		465	0.012	5	0.0	7.828	A
C-D	0.90				0.90			
C-A	307				307			
C-B	102				102			
CD-AB	191		690	0.277	193	0.6	7.347	A
CD-A	222				222			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		464	0.206	96	0.3	9.792	A
B-A	117		336	0.350	119	0.6	16.741	C
A-BC	646	45.17	1690	0.382	648	1.2	6.765	A
A-D	2	45.17	6	0.381	2	0.0	6.648	A
AB-C	527				527			
AB-D	3		546	0.006	3	0.0	6.629	A
D-ABC	5		489	0.009	5	0.0	7.435	A
C-D	0.75				0.75			
C-A	257				257			
C-B	85				85			
CD-AB	142		682	0.208	142	0.4	6.734	A
CD-A	204				204			

2029 Future Base + Com Dev + Dev, PM (17:00-18:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		14.72	B

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)
D5	2029 Future Base + Com Dev + Dev	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	512	100.000
B - Mid Street		✓	329	100.000
C - High Street (W)		✓	724	100.000
D - Park Works Road		✓	0	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	124	387
	B - Mid Street	240	0	88
	C - High Street (W)	603	119	0
	D - Park Works Road	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.90	137.54	3.6	F
B-A	0.92	99.61	6.8	F
A-BC	0.34	6.39	1.0	A
A-D	0.34	6.31	0.0	A
AB-C				
AB-D	0.00	8.23	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.41	6.17	1.3	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	67		464	0.144	66	0.2	9.038	A
B-A	181		384	0.471	177	0.9	17.153	C
A-BC	385	45.17	1712	0.225	382	0.6	5.328	A
A-D	0.75	45.17	3	0.225	0.75	0.0	5.264	A
AB-C	355				355			
AB-D	1		501	0.003	1	0.0	7.202	A
D-ABC	0		385	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	454				454			
C-B	90				90			
CD-AB	186		876	0.212	184	0.5	5.205	A
CD-A	358				358			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	80		390	0.205	80	0.3	11.580	B
B-A	216		344	0.627	213	1.6	26.828	D
A-BC	459	53.94	1694	0.271	459	0.7	5.737	A
A-D	0.90	53.94	3	0.271	0.90	0.0	5.668	A
AB-C	426				426			
AB-D	2		475	0.004	2	0.0	7.601	A
D-ABC	0		352	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	542				542			
C-B	107				107			
CD-AB	261		922	0.283	260	0.7	5.448	A
CD-A	388				388			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	98		168	0.583	94	1.2	46.439	E
B-A	264		289	0.915	249	5.4	71.794	F
A-BC	563	66.06	1671	0.337	562	1.0	6.375	A
A-D	1	66.06	3	0.336	1	0.0	6.301	A
AB-C	518				518			
AB-D	2		439	0.005	2	0.0	8.232	A
D-ABC	0		305	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	664				664			
C-B	131				131			
CD-AB	401		990	0.405	399	1.3	6.115	A
CD-A	394				394			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	98		109	0.900	89	3.6	137.541	F
B-A	264		287	0.919	259	6.8	99.611	F
A-BC	563	66.06	1671	0.337	563	1.0	6.385	A
A-D	1	66.06	3	0.336	1	0.0	6.311	A
AB-C	514				514			
AB-D	2		439	0.005	2	0.0	8.231	A
D-ABC	0		304	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	664				664			
C-B	131				131			
CD-AB	403		991	0.407	403	1.3	6.169	A
CD-A	392				392			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	80		354	0.226	93	0.3	14.500	B
B-A	216		341	0.633	236	1.9	39.002	E
A-BC	459	53.94	1694	0.271	460	0.7	5.752	A
A-D	0.90	53.94	3	0.271	0.90	0.0	5.685	A
AB-C	441				441			
AB-D	2		475	0.004	2	0.0	7.604	A
D-ABC	0		350	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	542				542			
C-B	107				107			
CD-AB	263		924	0.284	265	0.8	5.506	A
CD-A	386				386			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	67		457	0.147	67	0.2	9.265	A
B-A	181		383	0.472	184	0.9	18.459	C
A-BC	385	45.17	1712	0.225	385	0.6	5.352	A
A-D	0.75	45.17	3	0.225	0.75	0.0	5.288	A
AB-C	359				359			
AB-D	2		501	0.003	2	0.0	7.203	A
D-ABC	0		385	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	454				454			
C-B	90				90			
CD-AB	188		876	0.214	189	0.5	5.256	A
CD-A	356				356			

2029 Future Base + Com Dev + Dev, PM (16:00-17:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		13.68	B

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)
D6	2029 Future Base + Com Dev + Dev	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	516	100.000
B - Mid Street		✓	358	100.000
C - High Street (W)		✓	641	100.000
D - Park Works Road		✓	3	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From A - High Street (E)	0	129	387	0
From B - Mid Street	248	0	107	3
From C - High Street (W)	552	86	0	3
From D - Park Works Road	1	1	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	2	4	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.83	97.59	3.1	F
B-A	0.91	93.23	6.5	F
A-BC	0.34	3.31	1.0	A
A-D	0.00	0.00	0.0	A
AB-C				
AB-D	0.01	7.84	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.28	5.22	0.8	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	83		463	0.179	82	0.2	9.418	A
B-A	187		390	0.479	183	0.9	17.125	C
A-BC	388	45.17	1699	0.229	386	0.6	2.743	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	369				369			
AB-D	2		517	0.004	2	0.0	6.994	A
D-ABC	0		399	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	416				416			
C-B	65				65			
CD-AB	126		857	0.147	124	0.3	4.914	A
CD-A	355				355			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	99		392	0.252	98	0.3	12.256	B
B-A	223		354	0.630	220	1.6	26.383	D
A-BC	464	53.94	1681	0.276	463	0.8	2.960	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	443				443			
AB-D	3		494	0.005	3	0.0	7.326	A
D-ABC	0		368	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	496				496			
C-B	77				77			
CD-AB	174		897	0.194	173	0.5	4.981	A
CD-A	400				400			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	121		194	0.623	117	1.5	44.095	E
B-A	273		301	0.906	258	5.3	67.793	F
A-BC	568	66.06	1659	0.343	567	1.0	3.308	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	539				539			
AB-D	3		462	0.007	3	0.0	7.840	A
D-ABC	0		325	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	608				608			
C-B	95				95			
CD-AB	262		955	0.274	261	0.8	5.194	A
CD-A	440				440			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	121		146	0.829	115	3.1	97.591	F
B-A	273		300	0.911	268	6.5	93.231	F
A-BC	568	66.06	1659	0.343	568	1.0	3.312	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	537				537			
AB-D	3		462	0.007	3	0.0	7.839	A
D-ABC	0		324	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	608				608			
C-B	95				95			
CD-AB	263		956	0.275	263	0.8	5.219	A
CD-A	440				440			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	99		359	0.276	110	0.4	15.059	C
B-A	223		351	0.634	242	1.9	37.068	E
A-BC	464	53.94	1681	0.276	465	0.8	2.969	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	455				455			
AB-D	3		494	0.006	3	0.0	7.334	A
D-ABC	0		366	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	496				496			
C-B	77				77			
CD-AB	175		897	0.195	176	0.5	5.016	A
CD-A	399				399			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	83		456	0.182	83	0.2	9.680	A
B-A	187		389	0.479	190	1.0	18.412	C
A-BC	388	45.17	1699	0.229	389	0.6	2.757	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	373				373			
AB-D	2		517	0.004	2	0.0	6.997	A
D-ABC	0		398	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	416				416			
C-B	65				65			
CD-AB	127		857	0.148	127	0.3	4.949	A
CD-A	354				354			

2024 Base + Com Dev + Dev (Adjusted), AM (08:00-09:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		6.61	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)
D7	2024 Base + Com Dev + Dev (Adjusted)	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	832	100.000
B - Mid Street		✓	266	100.000
C - High Street (W)		✓	429	100.000
D - Park Works Road		✓	6	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From A - High Street (E)	0	278	551	3
From B - Mid Street	151	0	114	1
From C - High Street (W)	328	100	0	1
From D - Park Works Road	2	3	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	10	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.39	18.09	0.6	C
B-A	0.66	41.20	1.8	E
A-BC	0.55	9.50	2.4	A
A-D	0.55	9.32	0.0	A
AB-C				
AB-D	0.01	7.09	0.0	A
D-ABC	0.01	8.27	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.34	7.84	0.9	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	87		474	0.183	86	0.2	9.249	A
B-A	114		349	0.326	112	0.5	15.062	C
A-BC	624	45.17	1690	0.369	619	1.2	6.549	A
A-D	2	45.17	6	0.369	2	0.0	6.434	A
AB-C	497				497			
AB-D	3		551	0.005	3	0.0	6.566	A
D-ABC	5		495	0.009	4	0.0	7.335	A
C-D	0.75				0.75			
C-A	247				247			
C-B	75				75			
CD-AB	122		681	0.179	121	0.3	6.428	A
CD-A	204				204			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	103		427	0.242	103	0.3	11.077	B
B-A	136		309	0.439	135	0.8	20.479	C
A-BC	745	53.94	1673	0.446	744	1.6	7.552	A
A-D	3	53.94	6	0.444	3	0.0	7.418	A
AB-C	596				596			
AB-D	4		535	0.007	4	0.0	6.775	A
D-ABC	5		473	0.011	5	0.0	7.693	A
C-D	0.90				0.90			
C-A	295				295			
C-B	90				90			
CD-AB	164		687	0.238	163	0.5	6.860	A
CD-A	226				226			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	127		333	0.380	125	0.6	17.237	C
B-A	166		253	0.656	162	1.7	38.111	E
A-BC	913	66.06	1651	0.553	909	2.4	9.417	A
A-D	3	66.06	6	0.550	3	0.0	9.244	A
AB-C	729				729			
AB-D	4		512	0.009	4	0.0	7.085	A
D-ABC	7		442	0.015	7	0.0	8.267	A
C-D	1				1			
C-A	361				361			
C-B	110				110			
CD-AB	237		700	0.339	236	0.9	7.743	A
CD-A	239				239			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	127		325	0.389	127	0.6	18.093	C
B-A	166		252	0.659	166	1.8	41.199	E
A-BC	913	66.06	1651	0.553	913	2.4	9.497	A
A-D	3	66.06	6	0.550	3	0.0	9.323	A
AB-C	732				732			
AB-D	4		512	0.009	4	0.0	7.085	A
D-ABC	7		442	0.015	7	0.0	8.271	A
C-D	1				1			
C-A	361				361			
C-B	110				110			
CD-AB	238		700	0.340	238	0.9	7.842	A
CD-A	239				239			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	103		421	0.245	105	0.3	11.408	B
B-A	136		308	0.441	140	0.8	21.844	C
A-BC	745	53.94	1673	0.446	748	1.6	7.634	A
A-D	3	53.94	6	0.444	3	0.0	7.500	A
AB-C	601				601			
AB-D	4		535	0.007	4	0.0	6.775	A
D-ABC	5		473	0.011	5	0.0	7.698	A
C-D	0.90				0.90			
C-A	295				295			
C-B	90				90			
CD-AB	165		687	0.240	166	0.5	6.993	A
CD-A	225				225			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	87		470	0.184	87	0.2	9.400	A
B-A	114		347	0.327	115	0.5	15.566	C
A-BC	624	45.17	1690	0.369	626	1.2	6.626	A
A-D	2	45.17	6	0.369	2	0.0	6.511	A
AB-C	502				502			
AB-D	3		551	0.005	3	0.0	6.569	A
D-ABC	5		495	0.009	5	0.0	7.343	A
C-D	0.75				0.75			
C-A	247				247			
C-B	75				75			
CD-AB	123		680	0.181	124	0.3	6.521	A
CD-A	203				203			

2024 Base + Com Dev + Dev (Adjusted), PM (17:00-18:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		8.80	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)
D8	2024 Base + Com Dev + Dev (Adjusted)	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	489	100.000
B - Mid Street		✓	318	100.000
C - High Street (W)		✓	694	100.000
D - Park Works Road		✓	0	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	120	368
	B - Mid Street	233	0	84
	C - High Street (W)	578	114	0
	D - Park Works Road	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.46	32.93	0.8	D
B-A	0.85	69.01	4.5	F
A-BC	0.32	6.24	0.9	A
A-D	0.32	6.17	0.0	A
AB-C				
AB-D	0.00	8.08	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.37	5.94	1.2	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	64		473	0.135	63	0.2	8.769	A
B-A	175		393	0.446	172	0.8	16.091	C
A-BC	367	45.17	1712	0.215	365	0.5	5.261	A
A-D	0.75	45.17	4	0.214	0.75	0.0	5.198	A
AB-C	338				338			
AB-D	1		507	0.003	1	0.0	7.123	A
D-ABC	0		393	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	435				435			
C-B	86				86			
CD-AB	172		866	0.199	171	0.4	5.174	A
CD-A	349				349			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	76		410	0.186	76	0.2	10.781	B
B-A	209		355	0.590	207	1.4	23.930	C
A-BC	439	53.94	1694	0.259	438	0.7	5.643	A
A-D	0.90	53.94	3	0.259	0.90	0.0	5.576	A
AB-C	406				406			
AB-D	2		482	0.004	2	0.0	7.497	A
D-ABC	0		361	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	520				520			
C-B	102				102			
CD-AB	240		911	0.264	239	0.7	5.375	A
CD-A	382				382			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		234	0.401	92	0.6	25.132	D
B-A	257		303	0.848	246	4.0	55.627	F
A-BC	537	66.06	1671	0.321	536	0.9	6.234	A
A-D	1	66.06	3	0.321	1	0.0	6.161	A
AB-C	495				495			
AB-D	2		448	0.005	2	0.0	8.083	A
D-ABC	0		316	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	636				636			
C-B	126				126			
CD-AB	365		975	0.374	363	1.1	5.901	A
CD-A	397				397			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		201	0.465	93	0.8	32.933	D
B-A	257		302	0.849	254	4.5	69.013	F
A-BC	537	66.06	1671	0.321	537	0.9	6.244	A
A-D	1	66.06	3	0.321	1	0.0	6.171	A
AB-C	497				497			
AB-D	2		448	0.005	2	0.0	8.083	A
D-ABC	0		316	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	636				636			
C-B	126				126			
CD-AB	366		976	0.375	366	1.2	5.943	A
CD-A	396				396			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	76		389	0.196	79	0.2	11.675	B
B-A	209		355	0.590	221	1.5	29.056	D
A-BC	439	53.94	1694	0.259	440	0.7	5.657	A
A-D	0.90	53.94	3	0.259	0.90	0.0	5.591	A
AB-C	409				409			
AB-D	2		482	0.004	2	0.0	7.497	A
D-ABC	0		360	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	520				520			
C-B	102				102			
CD-AB	241		912	0.265	243	0.7	5.422	A
CD-A	381				381			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	64		468	0.137	64	0.2	8.935	A
B-A	175		392	0.447	178	0.8	17.034	C
A-BC	367	45.17	1712	0.215	368	0.5	5.282	A
A-D	0.75	45.17	4	0.214	0.75	0.0	5.220	A
AB-C	341				341			
AB-D	2		507	0.003	2	0.0	7.124	A
D-ABC	0		392	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	435				435			
C-B	86				86			
CD-AB	174		867	0.201	175	0.4	5.220	A
CD-A	347				347			

2024 Base + Com Dev + Dev (Adjusted), PM (16:00-17:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		8.27	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)
D9	2024 Base + Com Dev + Dev (Adjusted)	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	492	100.000
B - Mid Street		✓	345	100.000
C - High Street (W)		✓	612	100.000
D - Park Works Road		✓	3	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	125	367
	B - Mid Street	240	0	102
	C - High Street (W)	527	82	0
	D - Park Works Road	1	1	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	2	4	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.51	31.61	1.0	D
B-A	0.84	63.51	4.3	F
A-BC	0.33	3.23	1.0	A
A-D	0.00	0.00	0.0	A
AB-C				
AB-D	0.01	7.71	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.25	5.14	0.7	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	79		473	0.167	78	0.2	9.093	A
B-A	181		399	0.453	177	0.8	16.032	C
A-BC	370	45.17	1699	0.218	368	0.6	2.705	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	351				351			
AB-D	2		522	0.004	2	0.0	6.922	A
D-ABC	0		406	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	397				397			
C-B	62				62			
CD-AB	116		848	0.137	115	0.3	4.910	A
CD-A	342				342			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		412	0.229	94	0.3	11.318	B
B-A	216		365	0.592	213	1.4	23.463	C
A-BC	442	53.94	1681	0.263	442	0.7	2.911	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	421				421			
AB-D	3		500	0.005	3	0.0	7.232	A
D-ABC	0		377	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	474				474			
C-B	74				74			
CD-AB	159		886	0.180	159	0.4	4.955	A
CD-A	388				388			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	116		254	0.455	114	0.8	25.295	D
B-A	264		316	0.837	254	3.8	52.160	F
A-BC	542	66.06	1659	0.327	541	1.0	3.226	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	514				514			
AB-D	3		470	0.007	3	0.0	7.710	A
D-ABC	0		336	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	580				580			
C-B	90				90			
CD-AB	237		941	0.252	236	0.7	5.118	A
CD-A	433				433			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	116		228	0.507	115	1.0	31.606	D
B-A	264		315	0.839	262	4.3	63.507	F
A-BC	542	66.06	1659	0.327	542	1.0	3.235	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	516				516			
AB-D	3		470	0.007	3	0.0	7.711	A
D-ABC	0		335	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	580				580			
C-B	90				90			
CD-AB	238		941	0.253	238	0.7	5.137	A
CD-A	433				433			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	94		394	0.240	97	0.3	12.241	B
B-A	216		364	0.592	227	1.5	27.984	D
A-BC	442	53.94	1681	0.263	443	0.7	2.918	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	425				425			
AB-D	3		500	0.006	3	0.0	7.237	A
D-ABC	0		376	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	474				474			
C-B	74				74			
CD-AB	160		886	0.181	161	0.4	4.988	A
CD-A	388				388			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	79		468	0.169	80	0.2	9.283	A
B-A	181		398	0.454	183	0.9	16.956	C
A-BC	370	45.17	1699	0.218	371	0.6	2.718	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	354				354			
AB-D	2		522	0.004	2	0.0	6.925	A
D-ABC	0		406	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	397				397			
C-B	62				62			
CD-AB	117		848	0.138	117	0.3	4.943	A
CD-A	342				342			

2029 Future Base + Com Dev + Dev (Adjusted), AM (08:00-09:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		7.34	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)
D10	2029 Future Base + Com Dev + Dev (Adjusted)	AM (08:00-09:00)	ONE HOUR	07:45	09:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	857	100.000
B - Mid Street		✓	274	100.000
C - High Street (W)		✓	441	100.000
D - Park Works Road		✓	6	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	287	567	3
	B - Mid Street	156	0	117	1
	C - High Street (W)	337	103	0	1
	D - Park Works Road	2	3	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	3	4	0
	B - Mid Street	1	0	3	0
	C - High Street (W)	10	1	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.44	21.33	0.7	C
B-A	0.71	49.17	2.2	E
A-BC	0.57	9.86	2.6	A
A-D	0.57	9.68	0.0	A
AB-C				
AB-D	0.01	7.13	0.0	A
D-ABC	0.02	8.37	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.36	8.06	1.0	A
CD-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	89		468	0.190	88	0.2	9.460	A
B-A	117		344	0.342	115	0.5	15.651	C
A-BC	643	45.17	1690	0.380	638	1.2	6.660	A
A-D	2	45.17	6	0.380	2	0.0	6.543	A
AB-C	511				511			
AB-D	3		549	0.005	3	0.0	6.594	A
D-ABC	5		492	0.009	4	0.0	7.382	A
C-D	0.75				0.75			
C-A	254				254			
C-B	78				78			
CD-AB	128		681	0.187	126	0.4	6.483	A
CD-A	207				207			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	106		417	0.254	106	0.3	11.532	B
B-A	140		302	0.464	139	0.8	21.849	C
A-BC	768	53.94	1673	0.459	766	1.7	7.734	A
A-D	3	53.94	6	0.457	3	0.0	7.597	A
AB-C	613				613			
AB-D	4		532	0.007	4	0.0	6.810	A
D-ABC	5		470	0.011	5	0.0	7.756	A
C-D	0.90				0.90			
C-A	303				303			
C-B	93				93			
CD-AB	172		688	0.250	171	0.5	6.953	A
CD-A	228				228			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	130		310	0.420	128	0.7	19.724	C
B-A	172		244	0.704	167	2.0	44.085	E
A-BC	940	66.06	1651	0.570	937	2.6	9.762	A
A-D	3	66.06	6	0.567	3	0.0	9.584	A
AB-C	749				749			
AB-D	4		509	0.009	4	0.0	7.133	A
D-ABC	7		437	0.015	7	0.0	8.362	A
C-D	1				1			
C-A	371				371			
C-B	113				113			
CD-AB	251		702	0.358	249	1.0	7.946	A
CD-A	239				239			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	130		298	0.436	130	0.7	21.327	C
B-A	172		243	0.707	171	2.2	49.165	E
A-BC	940	66.06	1651	0.570	940	2.6	9.859	A
A-D	3	66.06	6	0.567	3	0.0	9.676	A
AB-C	753				753			
AB-D	4		509	0.009	4	0.0	7.133	A
D-ABC	7		437	0.015	7	0.0	8.367	A
C-D	1				1			
C-A	371				371			
C-B	113				113			
CD-AB	252		702	0.359	252	1.0	8.061	A
CD-A	238				238			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	106		409	0.259	108	0.4	11.994	B
B-A	140		301	0.466	145	0.9	23.823	C
A-BC	768	53.94	1673	0.459	771	1.7	7.826	A
A-D	3	53.94	6	0.457	3	0.0	7.687	A
AB-C	619				619			
AB-D	4		532	0.007	4	0.0	6.814	A
D-ABC	5		469	0.012	5	0.0	7.762	A
C-D	0.90				0.90			
C-A	303				303			
C-B	93				93			
CD-AB	173		688	0.251	175	0.6	7.106	A
CD-A	227				227			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	89		463	0.192	89	0.2	9.633	A
B-A	117		342	0.344	119	0.5	16.255	C
A-BC	643	45.17	1690	0.380	645	1.2	6.746	A
A-D	2	45.17	6	0.380	2	0.0	6.626	A
AB-C	517				517			
AB-D	3		549	0.006	3	0.0	6.595	A
D-ABC	5		492	0.009	5	0.0	7.390	A
C-D	0.75				0.75			
C-A	254				254			
C-B	78				78			
CD-AB	129		680	0.189	129	0.4	6.586	A
CD-A	206				206			

2029 Future Base + Com Dev + Dev (Adjusted), PM (17:00-18:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		12.38	B

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)
D11	2029 Future Base + Com Dev + Dev (Adjusted)	PM (17:00-18:00)	ONE HOUR	16:45	18:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	504	100.000
B - Mid Street		✓	327	100.000
C - High Street (W)		✓	716	100.000
D - Park Works Road		✓	0	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
	A - High Street (E)	0	124	379	1
	B - Mid Street	240	0	86	1
	C - High Street (W)	596	118	0	2
	D - Park Works Road	0	0	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	1	3	0
	B - Mid Street	0	0	0	0
	C - High Street (W)	2	2	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.73	83.35	2.1	F
B-A	0.90	91.65	6.2	F
A-BC	0.33	6.33	1.0	A
A-D	0.33	6.26	0.0	A
AB-C				
AB-D	0.00	8.19	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.40	6.11	1.3	A
CD-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	65		466	0.141	65	0.2	8.970	A
B-A	181		387	0.467	177	0.8	16.889	C
A-BC	379	45.17	1712	0.221	376	0.6	5.304	A
A-D	0.75	45.17	3	0.221	0.75	0.0	5.240	A
AB-C	348				348			
AB-D	1		503	0.003	1	0.0	7.181	A
D-ABC	0		388	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	449				449			
C-B	89				89			
CD-AB	183		873	0.209	181	0.5	5.198	A
CD-A	355				355			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	78		394	0.199	78	0.2	11.378	B
B-A	216		348	0.620	213	1.5	26.113	D
A-BC	452	53.94	1694	0.267	452	0.7	5.703	A
A-D	0.90	53.94	3	0.266	0.90	0.0	5.636	A
AB-C	417				417			
AB-D	2		477	0.004	2	0.0	7.573	A
D-ABC	0		355	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	536				536			
C-B	106				106			
CD-AB	256		919	0.278	255	0.7	5.430	A
CD-A	386				386			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		183	0.524	93	1.0	38.851	E
B-A	264		294	0.900	250	5.1	67.629	F
A-BC	554	66.06	1672	0.331	553	1.0	6.325	A
A-D	1	66.06	3	0.330	1	0.0	6.251	A
AB-C	508				508			
AB-D	2		442	0.005	2	0.0	8.192	A
D-ABC	0		308	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	656				656			
C-B	130				130			
CD-AB	392		986	0.397	390	1.3	6.059	A
CD-A	394				394			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	96		131	0.732	91	2.1	83.348	F
B-A	264		293	0.903	260	6.2	91.648	F
A-BC	554	66.06	1672	0.331	554	1.0	6.335	A
A-D	1	66.06	3	0.330	1	0.0	6.261	A
AB-C	508				508			
AB-D	2		442	0.005	2	0.0	8.191	A
D-ABC	0		308	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	656				656			
C-B	130				130			
CD-AB	393		987	0.398	393	1.3	6.112	A
CD-A	393				393			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	78		362	0.216	85	0.3	13.358	B
B-A	216		347	0.623	233	1.8	35.756	E
A-BC	452	53.94	1694	0.267	453	0.7	5.719	A
A-D	0.90	53.94	3	0.266	0.90	0.0	5.652	A
AB-C	426				426			
AB-D	2		477	0.004	2	0.0	7.578	A
D-ABC	0		354	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	536				536			
C-B	106				106			
CD-AB	257		921	0.280	260	0.7	5.485	A
CD-A	384				384			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	65		459	0.143	66	0.2	9.179	A
B-A	181		386	0.468	184	0.9	18.096	C
A-BC	379	45.17	1712	0.221	379	0.6	5.327	A
A-D	0.75	45.17	3	0.221	0.75	0.0	5.264	A
AB-C	351				351			
AB-D	2		503	0.003	2	0.0	7.184	A
D-ABC	0		387	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	449				449			
C-B	89				89			
CD-AB	184		874	0.211	185	0.5	5.248	A
CD-A	353				353			

2029 Future Base + Com Dev + Dev (Adjusted), PM (16:00-17:00)

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	A25 / Mid Street / Park Works Road	Left-Right Stagger	Two-way		11.64	B

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)
D12	2029 Future Base + Com Dev + Dev (Adjusted)	PM (16:00-17:00)	ONE HOUR	15:45	17:15	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - High Street (E)		✓	507	100.000
B - Mid Street		✓	356	100.000
C - High Street (W)		✓	631	100.000
D - Park Works Road		✓	3	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - High Street (E)	60.00
B - Mid Street	
C - High Street (W)	
D - Park Works Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	129	378	0
	B - Mid Street	248	0	105	3
	C - High Street (W)	543	85	0	3
	D - Park Works Road	1	1	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - High Street (E)	B - Mid Street	C - High Street (W)	D - Park Works Road
From	A - High Street (E)	0	2	4	0
	B - Mid Street	1	0	1	0
	C - High Street (W)	2	0	0	0
	D - Park Works Road	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-CD	0.71	65.59	2.0	F
B-A	0.89	84.22	5.9	F
A-BC	0.34	3.28	1.0	A
A-D	0.00	0.00	0.0	A
AB-C				
AB-D	0.01	7.80	0.0	A
D-ABC	0.00	0.00	0.0	A
C-D				
C-A				
C-B				
CD-AB	0.27	5.20	0.7	A
CD-A				

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	81		465	0.175	80	0.2	9.336	A
B-A	187		394	0.474	183	0.9	16.838	C
A-BC	382	45.17	1699	0.225	379	0.6	2.728	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	361				361			
AB-D	2		519	0.004	2	0.0	6.969	A
D-ABC	0		401	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	409				409			
C-B	64				64			
CD-AB	123		854	0.144	122	0.3	4.916	A
CD-A	350				350			

16:00 - 16:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	97		396	0.245	97	0.3	12.008	B
B-A	223		358	0.623	220	1.5	25.608	D
A-BC	456	53.94	1681	0.271	455	0.7	2.940	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	433				433			
AB-D	3		496	0.005	3	0.0	7.293	A
D-ABC	0		371	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	488				488			
C-B	76				76			
CD-AB	169		893	0.190	169	0.4	4.977	A
CD-A	395				395			

16:15 - 16:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	119		209	0.570	115	1.2	37.292	E
B-A	273		307	0.890	260	4.9	63.371	F
A-BC	558	66.06	1659	0.337	557	1.0	3.277	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	528				528			
AB-D	3		465	0.007	3	0.0	7.795	A
D-ABC	0		329	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	598				598			
C-B	94				94			
CD-AB	254		950	0.268	253	0.7	5.174	A
CD-A	437				437			

16:30 - 16:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	119		167	0.712	116	2.0	65.591	F
B-A	273		306	0.893	269	5.9	84.218	F
A-BC	558	66.06	1659	0.337	558	1.0	3.281	A
A-D	0	66.06	0	0.000	0	0.0	0.000	A
AB-C	529				529			
AB-D	3		465	0.007	3	0.0	7.795	A
D-ABC	0		328	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	598				598			
C-B	94				94			
CD-AB	255		951	0.268	255	0.7	5.195	A
CD-A	437				437			

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	97		368	0.264	104	0.4	13.977	B
B-A	223		357	0.625	239	1.8	34.026	D
A-BC	456	53.94	1681	0.271	457	0.8	2.951	A
A-D	0	53.94	0	0.000	0	0.0	0.000	A
AB-C	441				441			
AB-D	3		496	0.006	3	0.0	7.299	A
D-ABC	0		370	0.000	0	0.0	0.000	A
C-D	3				3			
C-A	488				488			
C-B	76				76			
CD-AB	170		893	0.191	171	0.5	5.012	A
CD-A	394				394			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-CD	81		458	0.177	82	0.2	9.575	A
B-A	187		393	0.475	190	0.9	18.022	C
A-BC	382	45.17	1699	0.225	382	0.6	2.742	A
A-D	0	45.17	0	0.000	0	0.0	0.000	A
AB-C	365				365			
AB-D	2		519	0.004	2	0.0	6.972	A
D-ABC	0		401	0.000	0	0.0	0.000	A
C-D	2				2			
C-A	409				409			
C-B	64				64			
CD-AB	124		854	0.145	124	0.3	4.952	A
CD-A	349				349			