

Junctions 10									
PICADY 10 - Priority Intersection Module									
Version: 10.1.0.1820									
© Copyright TRL Software Limited, 2023									
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com									
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: Burbage Road_Sapcote Road_Hinckley Road.j10
Path: P:\2021\P21-390\T&T\Capacity Assessments\Junctions 10
Report generation date: 27/10/2023 11:43:25

»2021, AM
»2021, PM
»2026, AM
»2026, PM
»2026 + Dev, AM
»2026 + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2021									
Stream B-C	D1	25.4	458.70	1.29	F	D2	33.4	361.45	1.22	F
Stream B-A		32.0	446.01	1.30	F		28.3	367.92	1.21	F
Stream C-AB		9.2	43.87	0.90	E		1.7	15.58	0.60	C
	2026									
Stream B-C	D3	52.3	1147.07	1.93	F	D4	47.6	486.22	1.33	F
Stream B-A		72.2	1142.02	1.92	F		38.5	491.73	1.31	F
Stream C-AB		39.4	142.93	1.05	F		1.9	16.32	0.63	C
	2026 + Dev									
Stream B-C	D5	89.9	2040.24	2.46	F	D6	58.3	618.54	1.41	F
Stream B-A		102.3	2030.94	2.47	F		46.3	624.25	1.39	F
Stream C-AB		64.3	276.76	1.12	F		2.3	17.91	0.67	C

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

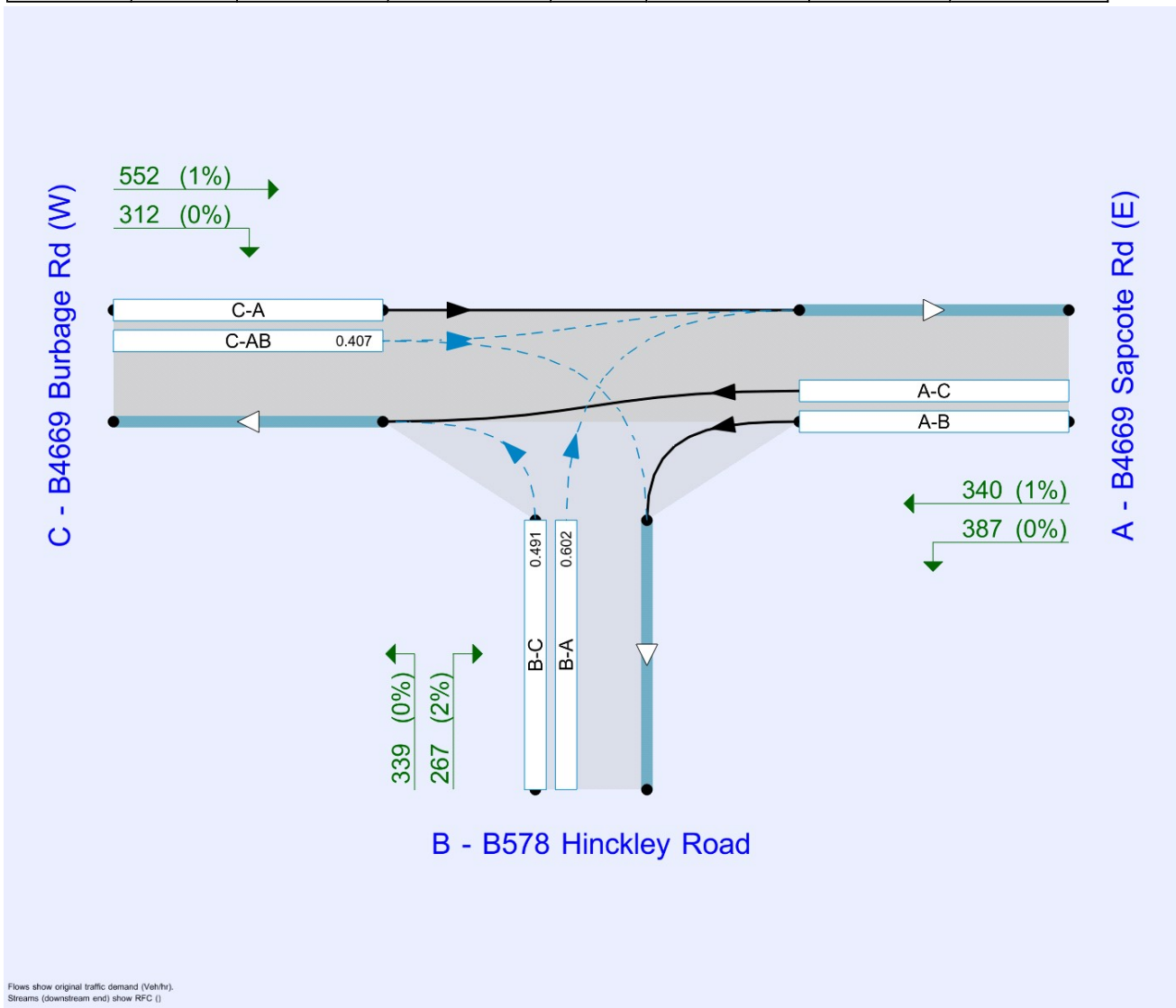
File summary

File Description

Title	B4669 Burbage Road / B4669 Sapcote Road / B578 Hinckley Road Junction
Location	
Site number	
Date	06/04/2023
Version	
Status	
Identifier	
Client	Redrow Homes
Jobnumber	P21-390
Enumerator	
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



The junction diagram reflects the last run of Junctions.

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	2021	AM	ONE HOUR	07:45	09:15	15
D2	2021	PM	ONE HOUR	16:45	18:15	15
D3	2026	AM	ONE HOUR	07:45	09:15	15
D4	2026	PM	ONE HOUR	16:45	18:15	15
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		111.89	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	111.89	F

Arms

Arms

Arm	Name	Description	Arm type
A	B4669 Sapcote Rd (E)		Major
B	B578 Hinckley Road		Minor
C	B4669 Burbage Rd (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - B4669 Burbage Rd (W)	7.90		✓	3.50	95.0	✓	4.50

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 - B578 Hinckley Road	One lane plus flare	10.00	5.30	5.10	4.50	4.50	✓	3.00	140	158

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	617	0.103	0.261	0.164	0.372
B-C	700	0.098	0.249	-	-
C-B	718	0.255	0.255	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	690	100.000
B - B578 Hinckley Road		✓	410	100.000
C - B4669 Burbage Rd (W)		✓	765	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	187	503
	B - B578 Hinckley Road	230	0	180
	C - B4669 Burbage Rd (W)	340	425	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	1	1
	B - B578 Hinckley Road	3	0	0
	C - B4669 Burbage Rd (W)	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	1.29	458.70	25.4	F
B-A	1.30	446.01	32.0	F
C-AB	0.90	43.87	9.2	E
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	136	501	0.270	134	0.4	9.763	A
B-A	173	331	0.524	169	1.0	21.774	C
C-AB	329	601	0.548	324	1.2	12.813	B
C-A	247			247			
A-B	141			141			
A-C	379			379			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	162	388	0.417	160	0.7	15.738	C
B-A	207	275	0.751	201	2.5	45.062	E
C-AB	420	613	0.685	416	2.2	17.963	C
C-A	268			268			
A-B	168			168			
A-C	452			452			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	198	154	1.288	145	13.9	217.782	F
B-A	253	202	1.256	195	17.1	217.191	F
C-AB	673	750	0.898	651	7.6	33.348	D
C-A	170			170			
A-B	206			206			
A-C	554			554			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	198	154	1.289	153	25.4	458.704	F
B-A	253	195	1.299	194	32.0	446.011	F
C-AB	673	751	0.896	667	9.2	43.874	E
C-A	170			170			
A-B	206			206			
A-C	554			554			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	162	204	0.793	196	16.7	360.890	F
B-A	207	260	0.797	252	20.8	370.875	F
C-AB	420	615	0.683	446	2.6	24.687	C
C-A	268			268			
A-B	168			168			
A-C	452			452			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	136	392	0.346	200	0.5	26.168	D
B-A	173	322	0.537	251	1.3	90.696	F
C-AB	329	602	0.547	334	1.3	13.763	B
C-A	247			247			
A-B	141			141			
A-C	379			379			

2021, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		98.83	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	98.83	F

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	2021	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	685	100.000
B - B578 Hinckley Road		✓	542	100.000
C - B4669 Burbage Rd (W)		✓	824	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	327	358
	B - B578 Hinckley Road	248	0	294
	C - B4669 Burbage Rd (W)	536	288	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	0	1
	B - B578 Hinckley Road	2	0	0
	C - B4669 Burbage Rd (W)	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	1.22	361.45	33.4	F
B-A	1.21	367.92	28.3	F
C-AB	0.60	15.58	1.7	C
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	221	536	0.413	219	0.7	11.244	B
B-A	187	349	0.536	182	1.1	21.153	C
C-AB	219	590	0.370	216	0.6	9.567	A
C-A	402			402			
A-B	246			246			
A-C	270			270			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	264	436	0.606	261	1.5	20.205	C
B-A	223	296	0.754	217	2.6	42.780	E
C-AB	266	575	0.462	265	0.9	11.566	B
C-A	475			475			
A-B	294			294			
A-C	322			322			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	324	265	1.223	255	18.8	169.640	F
B-A	273	228	1.200	219	16.1	185.369	F
C-AB	354	586	0.605	351	1.6	15.217	C
C-A	553			553			
A-B	360			360			
A-C	394			394			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	324	267	1.213	265	33.4	361.445	F
B-A	273	226	1.209	224	28.3	367.920	F
C-AB	354	586	0.605	354	1.7	15.579	C
C-A	553			553			
A-B	360			360			
A-C	394			394			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	264	319	0.829	310	22.0	314.190	F
B-A	223	270	0.827	260	19.0	323.634	F
C-AB	266	575	0.462	269	0.9	11.879	B
C-A	475			475			
A-B	294			294			
A-C	322			322			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	221	445	0.497	305	1.0	43.637	E
B-A	187	331	0.565	257	1.4	81.597	F
C-AB	219	590	0.370	220	0.6	9.749	A
C-A	402			402			
A-B	246			246			
A-C	270			270			

2026, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		294.50	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	294.50	F

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	2026	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	735	100.000
B - B578 Hinckley Road		✓	435	100.000
C - B4669 Burbage Rd (W)		✓	858	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	224	511
	B - B578 Hinckley Road	252	0	183
	C - B4669 Burbage Rd (W)	372	486	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	1	1
	B - B578 Hinckley Road	3	0	0
	C - B4669 Burbage Rd (W)	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	1.93	1147.07	52.3	F
B-A	1.92	1142.02	72.2	F
C-AB	1.05	142.93	39.4	F
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	138	465	0.296	136	0.4	10.889	B
B-A	190	308	0.617	184	1.5	27.927	D
C-AB	389	612	0.636	382	1.8	15.284	C
C-A	257			257			
A-B	169			169			
A-C	385			385			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	165	231	0.711	158	2.1	45.634	E
B-A	227	245	0.923	211	5.3	82.122	F
C-AB	533	668	0.799	525	4.0	24.147	C
C-A	238			238			
A-B	201			201			
A-C	459			459			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	201	117	1.727	114	23.9	475.533	F
B-A	277	166	1.670	165	33.5	488.227	F
C-AB	945	898	1.052	864	24.2	68.803	F
C-A	0			0			
A-B	247			247			
A-C	563			563			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	201	104	1.932	104	48.2	1030.309	F
B-A	277	145	1.920	144	66.8	1026.762	F
C-AB	945	899	1.050	884	39.3	141.443	F
C-A	0			0			
A-B	247			247			
A-C	563			563			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	165	149	1.107	148	52.3	1147.071	F
B-A	227	205	1.103	205	72.2	1142.024	F
C-AB	533	670	0.795	665	6.4	142.935	F
C-A	238			238			
A-B	201			201			
A-C	459			459			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	138	211	0.654	207	35.1	765.997	F
B-A	190	290	0.653	286	48.0	758.999	F
C-AB	389	613	0.635	407	2.0	19.012	C
C-A	257			257			
A-B	169			169			
A-C	385			385			

2026, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		137.26	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	137.26	F

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	2026	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	692	100.000
B - B578 Hinckley Road		✓	586	100.000
C - B4669 Burbage Rd (W)		✓	851	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
	From			
	A - B4669 Sapcote Rd (E)	0	352	340
	B - B578 Hinckley Road	261	0	325
	C - B4669 Burbage Rd (W)	552	299	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
	From			
	A - B4669 Sapcote Rd (E)	0	0	1
	B - B578 Hinckley Road	2	0	0
	C - B4669 Burbage Rd (W)	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	1.33	486.22	47.6	F
B-A	1.31	491.73	38.5	F
C-AB	0.63	16.32	1.9	C
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	245	529	0.462	241	0.8	12.363	B
B-A	196	342	0.575	191	1.3	23.217	C
C-AB	227	590	0.385	225	0.6	9.793	A
C-A	413			413			
A-B	265			265			
A-C	256			256			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	292	406	0.720	286	2.3	28.874	D
B-A	235	284	0.827	226	3.5	54.946	F
C-AB	278	577	0.481	276	0.9	11.938	B
C-A	487			487			
A-B	316			316			
A-C	306			306			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	358	270	1.328	263	25.9	218.586	F
B-A	287	221	1.298	216	21.3	239.090	F
C-AB	377	598	0.630	374	1.8	15.851	C
C-A	560			560			
A-B	388			388			
A-C	374			374			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	358	272	1.316	271	47.6	480.266	F
B-A	287	220	1.309	219	38.5	488.884	F
C-AB	377	599	0.630	377	1.9	16.315	C
C-A	560			560			
A-B	388			388			
A-C	374			374			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	292	326	0.896	319	40.7	486.224	F
B-A	235	263	0.893	256	33.1	491.730	F
C-AB	278	577	0.481	281	1.0	12.327	B
C-A	487			487			
A-B	316			316			
A-C	306			306			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	245	362	0.675	354	13.5	283.943	F
B-A	196	293	0.672	284	11.2	291.092	F
C-AB	227	590	0.385	229	0.6	9.999	A
C-A	413			413			
A-B	265			265			
A-C	256			256			

2026 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		564.17	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	564.17	F

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	2026 + Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	743	100.000
B - B578 Hinckley Road		✓	486	100.000
C - B4669 Burbage Rd (W)		✓	888	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	232	511
	B - B578 Hinckley Road	259	0	227
	C - B4669 Burbage Rd (W)	372	516	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	1	1
	B - B578 Hinckley Road	3	0	0
	C - B4669 Burbage Rd (W)	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	2.46	2040.24	89.9	F
B-A	2.47	2030.94	102.3	F
C-AB	1.12	276.76	64.3	F
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	171	456	0.375	169	0.6	12.420	B
B-A	195	293	0.667	188	1.8	32.410	D
C-AB	421	622	0.677	413	2.1	16.665	C
C-A	247			247			
A-B	175			175			
A-C	385			385			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	204	196	1.043	175	7.8	124.399	F
B-A	233	228	1.023	207	8.2	121.800	F
C-AB	601	706	0.851	587	5.5	28.556	D
C-A	198			198			
A-B	209			209			
A-C	459			459			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	250	131	1.910	130	37.7	749.797	F
B-A	285	148	1.928	147	42.6	733.887	F
C-AB	978	872	1.122	853	36.6	99.452	F
C-A	0			0			
A-B	255			255			
A-C	563			563			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	250	101	2.463	101	74.9	2040.238	F
B-A	285	115	2.472	115	85.1	2030.938	F
C-AB	978	873	1.120	867	64.2	226.405	F
C-A	0			0			
A-B	255			255			
A-C	563			563			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	204	144	1.416	144	89.9	1683.628	F
B-A	233	164	1.419	164	102.3	1679.623	F
C-AB	601	707	0.848	742	28.9	276.764	F
C-A	198			198			
A-B	209			209			
A-C	459			459			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	171	219	0.782	216	78.5	1402.981	F
B-A	195	249	0.783	247	89.4	1399.792	F
C-AB	421	623	0.676	527	2.5	66.801	F
C-A	247			247			
A-B	175			175			
A-C	385			385			

2026 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Sapcote/Burbage/Hinckley Road	T-Junction	Two-way	Two-way	Two-way		174.48	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	174.48	F

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	2026 + Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - B4669 Sapcote Rd (E)		✓	727	100.000
B - B578 Hinckley Road		✓	606	100.000
C - B4669 Burbage Rd (W)		✓	864	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	387	340
	B - B578 Hinckley Road	267	0	339
	C - B4669 Burbage Rd (W)	552	312	0

Vehicle Mix

Heavy Vehicle %

	To			
		A - B4669 Sapcote Rd (E)	B - B578 Hinckley Road	C - B4669 Burbage Rd (W)
From	A - B4669 Sapcote Rd (E)	0	0	1
	B - B578 Hinckley Road	2	0	0
	C - B4669 Burbage Rd (W)	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
B-C	1.41	618.54	58.3	F
B-A	1.39	624.25	46.3	F
C-AB	0.67	17.91	2.3	C
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	255	520	0.491	251	0.9	13.231	B
B-A	201	334	0.602	195	1.4	25.045	D
C-AB	238	585	0.407	235	0.7	10.218	B
C-A	413			413			
A-B	291			291			
A-C	256			256			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	305	373	0.816	294	3.5	41.228	E
B-A	240	271	0.886	227	4.6	68.366	F
C-AB	293	574	0.510	291	1.0	12.661	B
C-A	484			484			
A-B	348			348			
A-C	306			306			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	373	265	1.410	261	31.6	268.271	F
B-A	294	214	1.377	210	25.6	291.282	F
C-AB	411	613	0.670	406	2.2	17.198	C
C-A	541			541			
A-B	426			426			
A-C	374			374			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	373	267	1.399	266	58.3	583.807	F
B-A	294	212	1.390	211	46.3	593.708	F
C-AB	411	613	0.670	410	2.3	17.906	C
C-A	541			541			
A-B	426			426			
A-C	374			374			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	305	324	0.941	318	54.9	618.543	F
B-A	240	256	0.938	251	43.7	624.250	F
C-AB	293	575	0.509	297	1.1	13.233	B
C-A	484			484			
A-B	348			348			
A-C	306			306			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	255	360	0.709	353	30.4	438.851	F
B-A	201	285	0.706	278	24.3	445.433	F
C-AB	238	585	0.407	239	0.7	10.475	B
C-A	413			413			
A-B	291			291			
A-C	256			256			