

2025 Baseline + Committed + Eastern Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	192.51	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-19	A43 (N)	192.51	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)	Run automatically
D29	2025 Baseline + Committed + Eastern 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	560	100.000
A43 (S)		ONE HOUR	✓	1835	100.000
B4100 (W)		ONE HOUR	✓	594	100.000
A43 (N)		ONE HOUR	✓	2219	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	103	194	263
	A43 (S)	246	0	151	1438
	B4100 (W)	285	182	14	113
	A43 (N)	336	1734	149	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	20	17

B4100 (W)	7	16	8	14
A43 (N)	9	18	15	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.58	8.63	1.5	A	514	771
A43 (S)	0.95	30.62	16.1	D	1684	2526
B4100 (W)	0.73	15.96	2.8	C	545	818
A43 (N)	1.23	420.06	248.0	F	2036	3054

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	422	105	1551	1262	0.334	419	648	0.0	0.5	4.638	A
A43 (S)	1381	345	464	2248	0.615	1374	1506	0.0	1.8	4.758	A
B4100 (W)	447	112	1458	1264	0.354	445	380	0.0	0.6	4.861	A
A43 (N)	1671	418	544	2134	0.783	1655	1358	0.0	4.0	8.468	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	503	126	1826	1109	0.454	502	770	0.5	0.9	6.445	A
A43 (S)	1650	412	553	2193	0.752	1643	1776	1.8	3.4	7.536	A
B4100 (W)	534	133	1744	1111	0.481	532	452	0.6	1.0	6.880	A
A43 (N)	1995	499	651	2069	0.964	1945	1625	4.0	16.4	26.807	D

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	617	154	1894	1071	0.576	614	876	0.9	1.4	8.539	A
A43 (S)	2020	505	650	2133	0.947	1979	1859	3.4	13.8	22.788	C
B4100 (W)	654	164	2105	918	0.712	648	524	1.0	2.6	14.433	B
A43 (N)	2443	611	790	1985	1.231	1980	1963	16.4	132.1	142.409	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	617	154	1895	1071	0.576	617	883	1.4	1.5	8.627	A
A43 (S)	2020	505	651	2132	0.948	2011	1860	13.8	16.1	30.619	D
B4100 (W)	654	164	2135	902	0.725	653	527	2.6	2.8	15.962	C
A43 (N)	2443	611	799	1980	1.234	1979	1990	132.1	248.0	346.691	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	503	126	1919	1057	0.476	505	798	1.5	1.0	7.119	A
A43 (S)	1650	412	563	2187	0.754	1699	1861	16.1	3.7	9.424	A
B4100 (W)	534	133	1797	1083	0.493	541	465	2.8	1.1	7.459	A

A43 (N)	1995	499	666	2060	0.968	2051	1672	248.0	234.0	420.062	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	422	105	1948	1041	0.405	423	723	1.0	0.7	6.342	A
A43 (S)	1381	345	498	2227	0.620	1389	1872	3.7	1.9	5.038	A
B4100 (W)	447	112	1473	1256	0.356	449	414	1.1	0.6	4.961	A
A43 (N)	1671	418	550	2131	0.784	2120	1372	234.0	121.6	303.038	F

2025 Baseline + Committed + Eastern Development , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	153.88	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-17	A43 (S)	153.88	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)	Run automatically
D30	2025 Baseline + Committed + Eastern 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	803	100.000
A43 (S)		ONE HOUR	✓	2220	100.000
B4100 (W)		ONE HOUR	✓	441	100.000
A43 (N)		ONE HOUR	✓	1767	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	188	272	343
	A43 (S)	139	0	141	1940
	B4100 (W)	188	119	18	116
	A43 (N)	268	1401	98	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	6	7

B4100 (W)	3	4	0	4
A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.79	15.46	3.7	C	737	1105
A43 (S)	1.20	341.39	215.9	F	2037	3056
B4100 (W)	0.59	11.05	1.5	B	405	607
A43 (N)	0.90	16.84	8.7	C	1621	2432

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	605	151	1226	1443	0.419	602	445	0.0	0.7	4.440	A
A43 (S)	1671	418	548	2196	0.761	1658	1280	0.0	3.3	6.997	A
B4100 (W)	332	83	1810	1076	0.309	330	396	0.0	0.5	4.979	A
A43 (N)	1330	333	347	2254	0.590	1324	1793	0.0	1.5	4.183	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	722	180	1466	1309	0.552	720	531	0.7	1.3	6.340	A
A43 (S)	1996	499	655	2129	0.937	1962	1531	3.3	11.7	19.946	C
B4100 (W)	396	99	2145	897	0.442	395	472	0.5	0.8	7.400	A
A43 (N)	1588	397	414	2214	0.718	1584	2126	1.5	2.7	6.174	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	884	221	1782	1133	0.780	875	625	1.3	3.4	14.073	B
A43 (S)	2444	611	797	2042	1.197	2035	1861	11.7	114.0	118.422	F
B4100 (W)	486	121	2280	825	0.589	483	552	0.8	1.4	10.818	B
A43 (N)	1946	486	483	2171	0.896	1924	2279	2.7	8.1	14.696	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	884	221	1799	1124	0.787	883	629	3.4	3.7	15.457	C
A43 (S)	2444	611	804	2037	1.200	2037	1878	114.0	215.9	293.301	F
B4100 (W)	486	121	2285	822	0.591	485	556	1.4	1.5	11.049	B
A43 (N)	1946	486	485	2170	0.896	1943	2285	8.1	8.7	16.841	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	722	180	1491	1295	0.557	731	547	3.7	1.3	6.751	A
A43 (S)	1996	499	666	2123	0.940	2112	1557	215.9	186.7	341.388	F
B4100 (W)	396	99	2291	819	0.484	398	488	1.5	1.0	8.897	A

A43 (N)	1588	397	426	2206	0.720	1612	2263	8.7	2.9	6.832	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	605	151	1236	1437	0.421	607	481	1.3	0.8	4.527	A
A43 (S)	1671	418	552	2193	0.762	2181	1291	186.7	59.3	204.967	F
B4100 (W)	332	83	2301	813	0.408	333	432	1.0	0.7	7.774	A
A43 (N)	1330	333	382	2233	0.596	1335	2252	2.9	1.6	4.387	A

2025 Baseline + Committed + Both Developments, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	230.04	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-21	A43 (N)	230.04	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)	Run automatically
D31	2025 Baseline + Committed + Both Developments	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	617	100.000
A43 (S)		ONE HOUR	✓	1877	100.000
B4100 (W)		ONE HOUR	✓	673	100.000
A43 (N)		ONE HOUR	✓	2239	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	103	251	263
	A43 (S)	246	0	193	1438
	B4100 (W)	317	213	14	129
	A43 (N)	336	1734	169	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	3	8
	A43 (S)	11	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	9	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.64	9.96	1.9	A	566	849
A43 (S)	0.99	53.08	30.1	F	1722	2584
B4100 (W)	0.81	22.19	4.3	C	618	926
A43 (N)	1.27	501.51	283.2	F	2055	3082

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	465	116	1588	1242	0.374	462	672	0.0	0.6	4.969	A
A43 (S)	1413	353	521	2213	0.639	1405	1528	0.0	2.0	5.122	A
B4100 (W)	507	127	1457	1265	0.401	504	469	0.0	0.7	5.153	A
A43 (N)	1686	421	591	2106	0.801	1668	1370	0.0	4.4	9.214	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1856	1092	0.508	553	796	0.6	1.1	7.180	A
A43 (S)	1687	422	620	2151	0.784	1679	1789	2.0	4.0	8.695	A
B4100 (W)	605	151	1742	1112	0.544	603	557	0.7	1.3	7.692	A
A43 (N)	2013	503	707	2035	0.989	1945	1638	4.4	21.5	33.024	D

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1899	1068	0.636	676	897	1.1	1.8	9.834	A
A43 (S)	2067	517	725	2086	0.991	1995	1850	4.0	22.0	32.513	D
B4100 (W)	741	185	2078	933	0.795	731	642	1.3	3.8	18.630	C
A43 (N)	2465	616	852	1947	1.266	1944	1957	21.5	151.7	167.474	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1898	1069	0.635	679	906	1.8	1.9	9.961	A
A43 (S)	2067	517	728	2085	0.991	2034	1849	22.0	30.1	53.078	F
B4100 (W)	741	185	2115	913	0.812	739	647	3.8	4.3	22.186	C
A43 (N)	2465	616	864	1940	1.271	1940	1990	151.7	283.1	403.129	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1919	1058	0.524	557	827	1.9	1.2	7.806	A
A43 (S)	1687	422	629	2146	0.786	1790	1847	30.1	4.5	14.921	B
B4100 (W)	605	151	1843	1058	0.572	616	575	4.3	1.5	9.128	A

A43 (N)	2013	503	733	2020	0.997	2013	1727	283.1	283.2	501.514	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	465	116	1951	1040	0.447	466	741	1.2	0.9	6.786	A
A43 (S)	1413	353	557	2191	0.645	1423	1860	4.5	2.1	5.502	A
B4100 (W)	507	127	1475	1255	0.404	510	504	1.5	0.7	5.300	A
A43 (N)	1686	421	598	2101	0.802	2093	1386	283.2	181.4	400.305	F

2025 Baseline + Committed + Both Developments, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	175.06	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-18	A43 (S)	175.06	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)	Run automatically
D32	2025 Baseline + Committed + Both Developments	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	824	100.000
A43 (S)		ONE HOUR	✓	2241	100.000
B4100 (W)		ONE HOUR	✓	573	100.000
A43 (N)		ONE HOUR	✓	1777	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	188	293	343
	A43 (S)	139	0	162	1940
	B4100 (W)	256	162	18	137
	A43 (N)	268	1401	108	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7

B4100 (W)	3	10	0	8
A43 (N)	5	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.83	19.60	4.7	C	756	1134
A43 (S)	1.22	391.55	239.2	F	2056	3085
B4100 (W)	0.75	17.94	3.0	C	526	789
A43 (N)	0.93	24.78	12.6	C	1631	2446

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	620	155	1265	1421	0.437	617	496	0.0	0.8	4.639	A
A43 (S)	1687	422	571	2182	0.773	1673	1311	0.0	3.5	7.411	A
B4100 (W)	431	108	1809	1076	0.401	429	435	0.0	0.7	5.865	A
A43 (N)	1338	334	430	2204	0.607	1331	1808	0.0	1.7	4.469	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1513	1283	0.577	738	591	0.8	1.4	6.843	A
A43 (S)	2015	504	683	2112	0.954	1973	1568	3.5	13.9	22.947	C
B4100 (W)	515	129	2138	901	0.572	512	518	0.7	1.4	9.761	A
A43 (N)	1597	399	512	2154	0.742	1592	2138	1.7	3.0	6.924	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1830	1107	0.820	896	694	1.4	4.3	16.900	C
A43 (S)	2467	617	828	2022	1.220	2017	1898	13.9	126.4	132.271	F
B4100 (W)	631	158	2244	843	0.748	625	601	1.4	2.9	16.968	C
A43 (N)	1957	489	600	2100	0.932	1924	2269	3.0	11.2	19.497	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1854	1093	0.830	906	701	4.3	4.7	19.605	C
A43 (S)	2467	617	837	2017	1.224	2016	1923	126.4	239.2	327.293	F
B4100 (W)	631	158	2247	842	0.749	630	606	2.9	3.0	17.942	C
A43 (N)	1957	489	605	2098	0.933	1951	2273	11.2	12.6	24.785	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1552	1261	0.587	754	609	4.7	1.5	7.553	A
A43 (S)	2015	504	697	2103	0.958	2094	1608	239.2	219.4	391.547	F
B4100 (W)	515	129	2256	837	0.615	520	535	3.0	1.7	12.229	B

A43 (N)	1597	399	526	2146	0.745	1635	2251	12.6	3.3	8.231	A
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	620	155	1277	1414	0.439	623	531	1.5	0.8	4.751	A
A43 (S)	1687	422	576	2178	0.774	2168	1324	219.4	99.2	265.837	F
B4100 (W)	431	108	2270	830	0.520	434	474	1.7	1.2	9.693	A
A43 (N)	1338	334	464	2183	0.613	1344	2240	3.3	1.8	4.718	A

2031 Baseline , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	257.44	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-22	A43 (N)	257.44	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)	Run automatically
D33	2031 Baseline	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	605	100.000
A43 (S)		ONE HOUR	✓	1891	100.000
B4100 (W)		ONE HOUR	✓	672	100.000
A43 (N)		ONE HOUR	✓	2276	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	97	218	290
	A43 (S)	255	0	172	1464
	B4100 (W)	320	207	16	129
	A43 (N)	370	1736	170	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.61	9.15	1.7	A	555	833
A43 (S)	1.00	56.61	32.7	F	1735	2603
B4100 (W)	0.84	26.04	5.1	D	617	925
A43 (N)	1.29	558.63	318.8	F	2088	3133

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1586	1242	0.367	453	706	0.0	0.6	4.869	A
A43 (S)	1424	356	519	2214	0.643	1415	1520	0.0	2.0	5.133	A
B4100 (W)	506	126	1504	1240	0.408	503	431	0.0	0.7	5.163	A
A43 (N)	1713	428	597	2102	0.815	1694	1410	0.0	4.8	9.772	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1841	1101	0.494	542	833	0.6	1.0	6.883	A
A43 (S)	1700	425	616	2154	0.789	1692	1767	2.0	4.1	8.797	A
B4100 (W)	604	151	1798	1083	0.558	602	510	0.7	1.3	7.902	A
A43 (N)	2046	512	714	2031	1.007	1960	1685	4.8	26.3	38.138	E

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1867	1086	0.613	664	932	1.0	1.7	9.068	A
A43 (S)	2082	521	720	2090	0.996	2005	1811	4.1	23.4	33.809	D
B4100 (W)	740	185	2141	899	0.823	728	584	1.3	4.4	20.973	C
A43 (N)	2506	626	858	1943	1.290	1941	2010	26.3	167.5	186.509	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1865	1087	0.613	666	941	1.7	1.7	9.149	A
A43 (S)	2082	521	721	2088	0.997	2045	1810	23.4	32.7	56.608	F
B4100 (W)	740	185	2178	879	0.842	737	588	4.4	5.1	26.043	D
A43 (N)	2506	626	871	1935	1.295	1935	2044	167.5	310.2	442.966	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1890	1073	0.507	546	866	1.7	1.1	7.342	A
A43 (S)	1700	425	624	2149	0.791	1812	1812	32.7	4.6	16.176	C
B4100 (W)	604	151	1909	1023	0.591	618	527	5.1	1.6	9.740	A
A43 (N)	2046	512	744	2013	1.016	2012	1783	310.2	318.8	558.630	F

09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1919	1057	0.431	457	776	1.1	0.8	6.431	A
A43 (S)	1424	356	552	2194	0.649	1433	1824	4.6	2.2	5.512	A
B4100 (W)	506	126	1522	1230	0.411	509	463	1.6	0.7	5.319	A
A43 (N)	1713	428	605	2098	0.817	2090	1426	318.8	224.6	468.570	F

2031 Baseline, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	233.60	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-21	A43 (S)	233.60	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)	Run automatically
D34	2031 Baseline	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	876	100.000
A43 (S)		ONE HOUR	✓	2302	100.000
B4100 (W)		ONE HOUR	✓	505	100.000
A43 (N)		ONE HOUR	✓	1886	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	306	381
	A43 (S)	146	0	162	1994
	B4100 (W)	214	137	21	133
	A43 (N)	301	1473	112	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.91	32.22	8.1	D	804	1206
A43 (S)	1.28	518.63	300.3	F	2112	3169
B4100 (W)	0.66	13.23	2.0	B	463	695
A43 (N)	0.97	38.24	21.0	E	1731	2596

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1305	1398	0.472	656	494	0.0	0.9	4.966	A
A43 (S)	1733	433	614	2155	0.804	1716	1347	0.0	4.2	8.460	A
B4100 (W)	380	95	1881	1038	0.366	378	449	0.0	0.6	5.618	A
A43 (N)	1420	355	387	2230	0.637	1412	1871	0.0	1.9	4.739	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1560	1257	0.627	784	588	0.9	1.7	7.794	A
A43 (S)	2069	517	734	2080	0.995	1998	1611	4.2	22.1	32.398	D
B4100 (W)	454	113	2198	868	0.523	452	534	0.6	1.1	8.900	A
A43 (N)	1695	424	460	2186	0.776	1689	2191	1.9	3.6	7.749	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1874	1082	0.891	944	683	1.7	6.7	24.044	C
A43 (S)	2535	634	884	1988	1.275	1985	1934	22.1	159.4	170.961	F
B4100 (W)	556	139	2256	837	0.664	553	613	1.1	2.0	12.928	B
A43 (N)	2077	519	533	2141	0.970	2024	2276	3.6	16.8	25.953	D

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1905	1065	0.906	959	690	6.7	8.1	32.217	D
A43 (S)	2535	634	897	1979	1.281	1979	1966	159.4	298.2	414.825	F
B4100 (W)	556	139	2257	837	0.664	556	620	2.0	2.0	13.227	B
A43 (N)	2077	519	535	2140	0.970	2060	2278	16.8	21.0	38.238	E

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1625	1221	0.645	812	606	8.1	1.9	9.593	A
A43 (S)	2069	517	761	2064	1.003	2061	1677	298.2	300.3	518.634	F
B4100 (W)	454	113	2270	830	0.547	457	553	2.0	1.3	10.052	B
A43 (N)	1695	424	467	2181	0.777	1764	2259	21.0	4.0	10.814	B

18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1319	1391	0.474	663	526	1.9	0.9	5.123	A
A43 (S)	1733	433	621	2151	0.806	2143	1362	300.3	197.8	418.930	F
B4100 (W)	380	95	2281	824	0.461	382	483	1.3	0.9	8.446	A
A43 (N)	1420	355	417	2212	0.642	1428	2245	4.0	2.0	5.035	A

2031 Baseline + Committed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	422.55	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-28	A43 (N)	422.55	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)	Run automatically
D35	2031 Baseline + Committed	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	605	100.000
A43 (S)		ONE HOUR	✓	2046	100.000
B4100 (W)		ONE HOUR	✓	672	100.000
A43 (N)		ONE HOUR	✓	2489	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	97	218	290
	A43 (S)	255	0	172	1619
	B4100 (W)	320	207	16	129
	A43 (N)	370	1949	170	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.62	9.59	1.8	A	555	833
A43 (S)	1.07	132.43	93.3	F	1877	2816
B4100 (W)	0.87	32.17	6.2	D	617	925
A43 (N)	1.41	866.81	520.1	F	2284	3426

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1734	1160	0.393	453	704	0.0	0.7	5.431	A
A43 (S)	1540	385	518	2215	0.696	1530	1669	0.0	2.6	5.966	A
B4100 (W)	506	126	1618	1178	0.429	503	429	0.0	0.8	5.625	A
A43 (N)	1874	468	597	2102	0.891	1841	1524	0.0	8.2	14.499	B

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1912	1061	0.512	542	813	0.7	1.1	7.403	A
A43 (S)	1839	460	607	2159	0.852	1825	1847	2.6	6.1	11.923	B
B4100 (W)	604	151	1932	1011	0.598	601	501	0.8	1.5	9.251	A
A43 (N)	2238	559	713	2032	1.101	2011	1820	8.2	64.7	74.791	F

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1902	1067	0.625	664	893	1.1	1.7	9.506	A
A43 (S)	2253	563	708	2097	1.074	2066	1858	6.1	52.7	60.547	F
B4100 (W)	740	185	2211	862	0.859	725	563	1.5	5.4	25.508	D
A43 (N)	2740	685	843	1953	1.404	1952	2092	64.7	261.8	306.512	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1900	1068	0.624	666	900	1.7	1.8	9.594	A
A43 (S)	2253	563	710	2096	1.075	2090	1857	52.7	93.3	132.425	F
B4100 (W)	740	185	2234	849	0.871	736	566	5.4	6.2	32.171	D
A43 (N)	2740	685	856	1945	1.409	1945	2115	261.8	460.7	664.276	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1908	1064	0.511	546	857	1.8	1.1	7.487	A
A43 (S)	1839	460	610	2157	0.853	2131	1844	93.3	20.3	99.823	F
B4100 (W)	604	151	2214	860	0.703	618	527	6.2	2.6	16.643	C
A43 (N)	2238	559	765	2000	1.119	2000	2067	460.7	520.1	866.806	F

09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1947	1042	0.437	457	755	1.1	0.8	6.599	A
A43 (S)	1540	385	538	2202	0.700	1611	1865	20.3	2.7	7.841	A
B4100 (W)	506	126	1694	1138	0.445	513	455	2.6	0.9	6.176	A
A43 (N)	1874	468	615	2091	0.896	2087	1592	520.1	467.0	851.705	F

2031 Baseline + Committed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	376.68	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-26	A43 (S)	376.68	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)	Run automatically
D36	2031 Baseline + Committed	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	876	100.000
A43 (S)		ONE HOUR	✓	2506	100.000
B4100 (W)		ONE HOUR	✓	505	100.000
A43 (N)		ONE HOUR	✓	2004	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	306	381
	A43 (S)	146	0	162	2198
	B4100 (W)	214	137	21	133
	A43 (N)	301	1591	112	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.94	45.29	11.4	E	804	1206
A43 (S)	1.39	802.76	490.8	F	2300	3449
B4100 (W)	0.67	13.58	2.1	B	463	695
A43 (N)	1.03	80.24	52.7	F	1839	2758

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1393	1350	0.489	656	494	0.0	1.0	5.307	A
A43 (S)	1887	472	614	2155	0.875	1860	1435	0.0	6.7	12.084	B
B4100 (W)	380	95	2025	961	0.396	378	449	0.0	0.7	6.350	A
A43 (N)	1509	377	386	2230	0.676	1500	2016	0.0	2.2	5.291	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1664	1199	0.657	784	580	1.0	1.9	8.837	A
A43 (S)	2253	563	734	2081	1.083	2056	1714	6.7	55.8	63.929	F
B4100 (W)	454	113	2264	833	0.545	452	526	0.7	1.2	9.713	A
A43 (N)	1802	450	453	2190	0.823	1791	2263	2.2	4.8	9.571	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1951	1039	0.928	937	665	1.9	8.8	30.473	D
A43 (S)	2759	690	875	1993	1.384	1993	2014	55.8	247.4	279.166	F
B4100 (W)	556	139	2271	829	0.671	553	596	1.2	2.0	13.316	B
A43 (N)	2206	552	523	2147	1.028	2093	2301	4.8	33.2	41.828	E

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1983	1022	0.944	954	671	8.8	11.4	45.292	E
A43 (S)	2759	690	890	1984	1.391	1984	2046	247.4	441.3	619.267	F
B4100 (W)	556	139	2270	830	0.670	556	603	2.0	2.1	13.576	B
A43 (N)	2206	552	525	2146	1.028	2128	2301	33.2	52.7	80.239	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1834	1104	0.713	823	612	11.4	2.7	14.640	B
A43 (S)	2253	563	775	2055	1.096	2055	1881	441.3	490.8	802.760	F
B4100 (W)	454	113	2280	825	0.551	457	550	2.1	1.3	10.212	B
A43 (N)	1802	450	456	2188	0.823	1990	2280	52.7	5.6	33.257	D

18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1413	1339	0.493	666	515	2.7	1.0	5.562	A
A43 (S)	1887	472	623	2149	0.878	2145	1455	490.8	426.3	769.928	F
B4100 (W)	380	95	2296	816	0.466	382	472	1.3	0.9	8.599	A
A43 (N)	1509	377	406	2218	0.680	1522	2271	5.6	2.4	5.716	A

2031 Baseline + Committed + Western Development , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	491.80	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-29	A43 (N)	491.80	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)	Run automatically
D37	2031 Baseline + Committed + Western 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	572	100.000
A43 (S)		ONE HOUR	✓	2088	100.000
B4100 (W)		ONE HOUR	✓	752	100.000
A43 (N)		ONE HOUR	✓	2509	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	7	275	290
	A43 (S)	255	0	214	1619
	B4100 (W)	352	239	16	145
	A43 (N)	370	1949	190	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	3	7
	A43 (S)	8	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	7	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.59	8.71	1.5	A	525	787
A43 (S)	1.12	190.96	137.1	F	1916	2874
B4100 (W)	0.93	48.36	10.4	E	690	1035
A43 (N)	1.45	985.20	574.1	F	2302	3453

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	431	108	1768	1141	0.377	428	727	0.0	0.6	5.290	A
A43 (S)	1572	393	575	2179	0.721	1560	1621	0.0	2.9	6.607	A
B4100 (W)	566	142	1617	1179	0.480	562	518	0.0	1.0	6.341	A
A43 (N)	1889	472	644	2074	0.911	1850	1535	0.0	9.6	16.572	C

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	514	129	1919	1057	0.486	513	834	0.6	1.0	6.930	A
A43 (S)	1877	469	671	2120	0.886	1857	1760	2.9	7.8	14.864	B
B4100 (W)	676	169	1927	1013	0.667	672	601	1.0	2.1	11.370	B
A43 (N)	2256	564	769	1998	1.129	1983	1830	9.6	77.6	88.577	F

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	630	157	1909	1063	0.593	628	907	1.0	1.5	8.654	A
A43 (S)	2299	575	783	2051	1.121	2033	1754	7.8	74.2	81.492	F
B4100 (W)	828	207	2143	898	0.922	802	673	2.1	8.5	34.730	D
A43 (N)	2762	691	896	1920	1.439	1920	2050	77.6	288.3	348.477	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	630	157	1907	1064	0.592	630	916	1.5	1.5	8.712	A
A43 (S)	2299	575	784	2050	1.122	2047	1752	74.2	137.1	190.964	F
B4100 (W)	828	207	2157	890	0.930	820	675	8.5	10.4	48.359	E
A43 (N)	2762	691	912	1911	1.446	1910	2065	288.3	501.3	737.933	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	514	129	1913	1061	0.485	516	875	1.5	1.0	6.978	A
A43 (S)	1877	469	674	2118	0.886	2100	1755	137.1	81.3	188.193	F
B4100 (W)	676	169	2147	896	0.755	703	627	10.4	3.6	22.749	C

A43 (N)	2256	564	824	1964	1.148	1964	2026	501.3	574.1	985.202	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	431	108	1933	1049	0.410	432	800	1.0	0.7	6.139	A
A43 (S)	1572	393	593	2168	0.725	1884	1772	81.3	3.2	36.706	E
B4100 (W)	566	142	1910	1022	0.554	575	567	3.6	1.4	8.967	A
A43 (N)	1889	472	694	2043	0.925	2039	1791	574.1	536.6	980.695	F

2031 Baseline + Committed + Western Development , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	413.46	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-27	A43 (S)	413.46	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)	Run automatically
D38	2031 Baseline + Committed + Western 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	897	100.000
A43 (S)		ONE HOUR	✓	2527	100.000
B4100 (W)		ONE HOUR	✓	637	100.000
A43 (N)		ONE HOUR	✓	2015	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	327	381
	A43 (S)	146	0	183	2198
	B4100 (W)	282	180	21	154
	A43 (N)	301	1591	123	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	13	7

B4100 (W)	2	10	0	8
A43 (N)	4	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.96	55.32	14.5	F	823	1235
A43 (S)	1.41	868.46	530.1	F	2319	3478
B4100 (W)	0.83	25.43	4.7	D	585	877
A43 (N)	1.07	124.95	86.7	F	1849	2773

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	675	169	1432	1328	0.509	671	544	0.0	1.1	5.603	A
A43 (S)	1902	476	637	2141	0.889	1873	1466	0.0	7.5	13.201	B
B4100 (W)	480	120	2022	963	0.498	475	488	0.0	1.0	7.736	A
A43 (N)	1517	379	469	2180	0.696	1507	2029	0.0	2.4	5.750	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	806	202	1709	1174	0.687	802	638	1.1	2.2	9.834	A
A43 (S)	2272	568	761	2064	1.101	2044	1750	7.5	64.4	72.306	F
B4100 (W)	573	143	2237	848	0.676	568	569	1.0	2.1	13.400	B
A43 (N)	1811	453	549	2131	0.850	1798	2256	2.4	5.7	11.355	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	988	247	1958	1035	0.954	953	726	2.2	10.8	35.589	E
A43 (S)	2782	696	900	1978	1.407	1977	2011	64.4	265.6	305.542	F
B4100 (W)	701	175	2239	846	0.829	692	638	2.1	4.5	23.234	C
A43 (N)	2219	555	639	2077	1.068	2045	2292	5.7	49.0	57.324	F

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	988	247	1980	1024	0.965	973	733	10.8	14.5	55.318	F
A43 (S)	2782	696	917	1967	1.414	1967	2035	265.6	469.4	666.901	F
B4100 (W)	701	175	2238	847	0.828	700	646	4.5	4.7	25.426	D
A43 (N)	2219	555	645	2073	1.070	2068	2293	49.0	86.7	124.949	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	806	202	1969	1029	0.783	848	689	14.5	4.1	24.083	C
A43 (S)	2272	568	817	2029	1.119	2029	2001	469.4	530.1	868.462	F
B4100 (W)	573	143	2243	845	0.678	582	603	4.7	2.3	14.972	B

A43 (N)	1811	453	559	2126	0.852	2099	2266	86.7	14.8	91.325	F
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	675	169	1484	1299	0.520	687	571	4.1	1.1	6.166	A
A43 (S)	1902	476	654	2130	0.893	2126	1518	530.1	474.2	850.341	F
B4100 (W)	480	120	2264	833	0.576	483	516	2.3	1.5	10.956	B
A43 (N)	1517	379	489	2168	0.700	1566	2258	14.8	2.6	7.034	A

2031 Baseline + Committed + Eastern Development , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	446.75	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-28	A43 (N)	446.75	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)	Run automatically
D39	2031 Baseline + Committed + Eastern 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	635	100.000
A43 (S)		ONE HOUR	✓	2069	100.000
B4100 (W)		ONE HOUR	✓	676	100.000
A43 (N)		ONE HOUR	✓	2500	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	115	221	299
	A43 (S)	278	0	172	1619
	B4100 (W)	324	207	16	129
	A43 (N)	381	1949	170	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	20	17

B4100 (W)	7	16	8	14
A43 (N)	9	18	15	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.65	10.31	2.0	B	583	874
A43 (S)	1.09	151.70	108.4	F	1899	2848
B4100 (W)	0.88	35.68	6.9	E	620	930
A43 (N)	1.43	912.94	545.6	F	2294	3441

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	478	120	1732	1161	0.412	475	732	0.0	0.8	5.684	A
A43 (S)	1558	389	527	2209	0.705	1547	1681	0.0	2.7	6.229	A
B4100 (W)	509	127	1642	1166	0.437	506	431	0.0	0.8	6.020	A
A43 (N)	1882	471	617	2090	0.900	1847	1531	0.0	8.8	15.475	C

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	571	143	1894	1071	0.533	569	842	0.8	1.2	7.775	A
A43 (S)	1860	465	616	2154	0.864	1844	1847	2.7	6.7	12.918	B
B4100 (W)	608	152	1959	996	0.610	604	502	0.8	1.7	10.105	B
A43 (N)	2247	562	737	2017	1.114	2000	1826	8.8	70.7	81.114	F

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	699	175	1883	1077	0.649	696	921	1.2	2.0	10.195	B
A43 (S)	2278	570	719	2090	1.090	2065	1860	6.7	60.0	67.426	F
B4100 (W)	744	186	2221	856	0.869	727	563	1.7	5.9	27.988	D
A43 (N)	2753	688	866	1939	1.420	1938	2082	70.7	274.3	325.807	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	699	175	1881	1079	0.648	699	929	2.0	2.0	10.310	B
A43 (S)	2278	570	721	2089	1.091	2085	1858	60.0	108.4	151.698	F
B4100 (W)	744	186	2241	846	0.880	740	565	5.9	6.9	35.677	E
A43 (N)	2753	688	879	1931	1.426	1930	2102	274.3	479.8	698.115	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	571	143	1888	1075	0.531	574	887	2.0	1.3	7.863	A
A43 (S)	1860	465	620	2152	0.864	2129	1842	108.4	41.2	129.014	F
B4100 (W)	608	152	2222	856	0.710	624	526	6.9	2.9	18.282	C

A43 (N)	2247	562	791	1984	1.133	1984	2055	479.8	545.6	912.937	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	478	120	1922	1055	0.453	479	792	1.3	0.9	6.818	A
A43 (S)	1558	389	545	2198	0.709	1711	1856	41.2	2.9	11.701	B
B4100 (W)	509	127	1794	1084	0.469	516	462	2.9	1.0	7.123	A
A43 (N)	1882	471	648	2071	0.909	2067	1663	545.6	499.4	910.119	F

2031 Baseline + Committed + Eastern Development , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	395.17	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-27	A43 (S)	395.17	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)	Run automatically
D40	2031 Baseline + Committed + Eastern 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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	916	100.000
A43 (S)		ONE HOUR	✓	2518	100.000
B4100 (W)		ONE HOUR	✓	507	100.000
A43 (N)		ONE HOUR	✓	2010	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	212	311	393
	A43 (S)	158	0	162	2198
	B4100 (W)	216	137	21	133
	A43 (N)	307	1591	112	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	6	7

B4100 (W)	3	4	0	4
A43 (N)	5	10	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.98	63.93	17.5	F	841	1261
A43 (S)	1.40	838.94	512.7	F	2311	3466
B4100 (W)	0.67	13.78	2.1	B	465	698
A43 (N)	1.03	86.40	57.6	F	1844	2767

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	690	172	1393	1350	0.511	685	508	0.0	1.1	5.601	A
A43 (S)	1896	474	626	2147	0.883	1867	1452	0.0	7.1	12.682	B
B4100 (W)	382	95	2041	952	0.401	379	452	0.0	0.7	6.453	A
A43 (N)	1513	378	397	2224	0.680	1504	2023	0.0	2.3	5.375	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	823	206	1663	1199	0.687	819	596	1.1	2.2	9.731	A
A43 (S)	2264	566	748	2072	1.093	2050	1734	7.1	60.5	68.458	F
B4100 (W)	456	114	2270	830	0.549	454	529	0.7	1.2	9.832	A
A43 (N)	1807	452	463	2184	0.827	1796	2260	2.3	4.9	9.849	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1009	252	1944	1043	0.967	969	680	2.2	12.2	38.372	E
A43 (S)	2772	693	884	1988	1.395	1987	2029	60.5	256.8	292.566	F
B4100 (W)	558	140	2275	827	0.675	555	596	1.2	2.1	13.504	B
A43 (N)	2213	553	534	2141	1.034	2091	2296	4.9	35.5	44.026	E

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1009	252	1974	1027	0.982	987	686	12.2	17.5	63.929	F
A43 (S)	2772	693	900	1978	1.402	1978	2061	256.8	455.5	643.852	F
B4100 (W)	558	140	2274	828	0.674	558	604	2.1	2.1	13.780	B
A43 (N)	2213	553	536	2140	1.034	2125	2296	35.5	57.6	86.399	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	823	206	1849	1096	0.751	880	631	17.5	3.4	21.293	C
A43 (S)	2264	566	808	2035	1.112	2035	1922	455.5	512.7	838.944	F
B4100 (W)	456	114	2282	824	0.553	459	561	2.1	1.3	10.292	B

A43 (N)	1807	452	466	2182	0.828	2014	2274	57.6	5.9	39.774	E
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	690	172	1413	1338	0.515	699	531	3.4	1.1	5.934	A
A43 (S)	1896	474	638	2140	0.886	2136	1474	512.7	452.7	813.760	F
B4100 (W)	382	95	2298	815	0.468	383	476	1.3	0.9	8.658	A
A43 (N)	1513	378	417	2212	0.684	1527	2265	5.9	2.4	5.833	A

2031 Baseline + Committed + Both Developments, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	517.42	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-30	A43 (N)	517.42	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)	Run automatically
D41	2031 Baseline + Committed + Both Developments	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	692	100.000
A43 (S)		ONE HOUR	✓	2111	100.000
B4100 (W)		ONE HOUR	✓	757	100.000
A43 (N)		ONE HOUR	✓	2520	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	115	278	299
	A43 (S)	278	0	214	1619
	B4100 (W)	357	239	16	145
	A43 (N)	381	1949	190	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	3	8
	A43 (S)	11	0	15	17

B4100 (W)	6	13	8	12
A43 (N)	9	18	13	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.71	12.39	2.6	B	635	952
A43 (S)	1.14	220.87	153.0	F	1937	2906
B4100 (W)	0.94	52.55	11.4	F	695	1042
A43 (N)	1.46	1044.17	600.2	F	2312	3469

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	521	130	1765	1143	0.456	517	755	0.0	0.9	6.181	A
A43 (S)	1589	397	583	2174	0.731	1577	1699	0.0	3.1	6.859	A
B4100 (W)	570	142	1641	1166	0.489	566	520	0.0	1.0	6.507	A
A43 (N)	1897	474	665	2061	0.921	1855	1541	0.0	10.5	17.747	C

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	622	156	1900	1068	0.583	620	864	0.9	1.5	8.633	A
A43 (S)	1898	474	680	2114	0.898	1875	1841	3.1	8.6	16.143	C
B4100 (W)	681	170	1953	999	0.681	676	602	1.0	2.2	11.977	B
A43 (N)	2265	566	793	1983	1.142	1971	1836	10.5	84.1	95.722	F

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	762	190	1889	1074	0.710	758	936	1.5	2.5	12.132	B
A43 (S)	2324	581	793	2044	1.137	2030	1855	8.6	82.2	89.202	F
B4100 (W)	833	208	2152	893	0.933	806	671	2.2	9.2	36.986	E
A43 (N)	2775	694	919	1907	1.455	1906	2039	84.1	301.2	369.303	F

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	762	190	1887	1075	0.709	762	944	2.5	2.6	12.389	B
A43 (S)	2324	581	796	2042	1.138	2041	1854	82.2	153.0	212.117	F
B4100 (W)	833	208	2163	887	0.940	825	673	9.2	11.4	52.553	F
A43 (N)	2775	694	935	1896	1.463	1896	2052	301.2	520.8	773.750	F

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	622	156	1893	1072	0.580	626	906	2.6	1.5	8.802	A
A43 (S)	1898	474	684	2112	0.899	2096	1835	153.0	103.6	220.874	F
B4100 (W)	681	170	2154	892	0.763	711	626	11.4	3.8	24.575	C

A43 (N)	2265	566	851	1948	1.163	1948	2014	520.8	600.2	1033.859	F
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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	521	130	1907	1064	0.490	523	840	1.5	1.1	7.210	A
A43 (S)	1589	397	600	2163	0.735	1990	1830	103.6	3.5	67.646	F
B4100 (W)	570	142	2014	967	0.589	579	576	3.8	1.6	10.356	B
A43 (N)	1897	474	730	2021	0.939	2018	1863	600.2	570.1	1044.170	F

2031 Baseline + Committed + Both Developments, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	433.42	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-28	A43 (S)	433.42	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)	Run automatically
D42	2031 Baseline + Committed + Both Developments	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	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	938	100.000
A43 (S)		ONE HOUR	✓	2539	100.000
B4100 (W)		ONE HOUR	✓	638	100.000
A43 (N)		ONE HOUR	✓	2021	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	212	333	393
	A43 (S)	158	0	183	2198
	B4100 (W)	283	180	21	154
	A43 (N)	307	1591	123	0

Vehicle Mix

HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7

B4100 (W)	3	10	0	8
A43 (N)	5	10	9	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.00	79.41	22.9	F	861	1291
A43 (S)	1.42	906.30	552.3	F	2330	3495
B4100 (W)	0.83	26.00	4.8	D	585	878
A43 (N)	1.08	132.28	92.3	F	1855	2782

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	706	177	1432	1328	0.532	702	558	0.0	1.2	5.931	A
A43 (S)	1911	478	651	2132	0.896	1880	1483	0.0	8.0	13.912	B
B4100 (W)	480	120	2038	954	0.504	476	492	0.0	1.1	7.917	A
A43 (N)	1522	380	478	2175	0.700	1512	2036	0.0	2.5	5.841	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	843	211	1709	1174	0.718	838	653	1.2	2.5	10.949	B
A43 (S)	2283	571	777	2054	1.111	2037	1769	8.0	69.4	77.293	F
B4100 (W)	574	143	2241	845	0.679	569	573	1.1	2.1	13.614	B
A43 (N)	1817	454	559	2126	0.855	1803	2252	2.5	5.9	11.711	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1033	258	1950	1040	0.993	982	740	2.5	15.3	45.174	E
A43 (S)	2795	699	907	1973	1.417	1973	2025	69.4	275.0	319.278	F
B4100 (W)	702	176	2242	845	0.832	693	638	2.1	4.6	23.683	C
A43 (N)	2225	556	648	2071	1.074	2042	2287	5.9	51.7	59.903	F

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1033	258	1970	1029	1.004	1002	747	15.3	22.9	79.413	F
A43 (S)	2795	699	924	1963	1.424	1963	2048	275.0	483.2	691.912	F
B4100 (W)	702	176	2241	845	0.831	701	646	4.6	4.8	25.999	D
A43 (N)	2225	556	654	2067	1.076	2063	2288	51.7	92.3	132.276	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	843	211	1961	1034	0.816	914	702	22.9	5.3	40.499	E
A43 (S)	2283	571	854	2006	1.138	2006	2021	483.2	552.3	906.296	F
B4100 (W)	574	143	2244	843	0.680	583	616	4.8	2.4	15.186	C

A43 (N)	1817	454	567	2120	0.857	2095	2260	92.3	22.7	102.344	F
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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	706	177	1511	1284	0.550	722	589	5.3	1.3	6.842	A
A43 (S)	1911	478	672	2119	0.902	2115	1560	552.3	501.5	897.063	F
B4100 (W)	480	120	2265	833	0.577	484	522	2.4	1.5	11.047	B
A43 (N)	1522	380	499	2162	0.704	1602	2250	22.7	2.7	8.032	A

Junctions 10
ARCADY 10 - Roundabout Module
Version: 10.0.2.1574 © Copyright TRL Software Limited, 2021
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Filename: Banbury Road.j10
 Path: P:\17000's\17213\Junction Assessments
 Report generation date: 08/09/2021 16:32:12

- »2026RC, AM
- »2026RC, PM
- »2026WEST, AM
- »2026WEST, PM
- »2026EAST, AM
- »2026EAST, PM
- »2026DES, AM
- »2026DES, PM

Summary of junction performance

	AM				PM			
	Q (PCU)	Delay (s)	RFC	Res Cap	Q (PCU)	Delay (s)	RFC	Res Cap
2026RC								
1 - B4100	3.3	9.98	0.77	17 % [1 - B4100]	2.4	9.35	0.71	10 % [4 - A4095 W]
2 - A4095 E	2.6	7.70	0.72		2.8	7.69	0.74	
3 - Banbury Road	0.8	7.07	0.45		1.2	9.34	0.55	
4 - A4095 W	0.7	5.73	0.42		2.9	14.77	0.75	
2026WEST								
1 - B4100	3.6	10.89	0.79	15 % [1 - B4100]	3.6	12.57	0.78	8 % [4 - A4095 W]
2 - A4095 E	3.1	8.78	0.76		3.1	8.60	0.76	
3 - Banbury Road	0.9	7.91	0.48		1.4	10.23	0.58	
4 - A4095 W	0.8	6.44	0.46		3.2	16.09	0.77	
2026EAST								
1 - B4100	3.5	10.48	0.78	16 % [1 - B4100]	3.0	10.90	0.75	9 % [4 - A4095 W]
2 - A4095 E	2.8	8.29	0.74		3.0	8.17	0.75	
3 - Banbury Road	0.9	7.52	0.47		1.3	9.81	0.57	
4 - A4095 W	0.8	6.11	0.44		3.1	15.48	0.76	
2026DES								
1 - B4100	3.9	11.48	0.80	14 % [1 - B4100]	4.6	15.54	0.82	7 % [4 - A4095 W]
2 - A4095 E	3.4	9.54	0.77		3.4	9.20	0.77	
3 - Banbury Road	1.0	8.48	0.51		1.4	10.76	0.59	
4 - A4095 W	0.9	6.93	0.49		3.4	16.88	0.78	

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

Values shown are the highest values encountered over all time segments. Delay is the maximum value of Av. delay per arriving vehicle. Res Cap indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	
Location	
Site number	
Date	01/09/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\richardmcculloch
Description	

Units

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

Analysis Options

Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
	✓	Delay	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 period length (min)	Time segment length (min)
D1	2026RC	AM	FLAT	07:45	09:15	90	15
D2	2026RC	PM	FLAT	16:45	18:15	90	15
D3	2026WEST	AM	FLAT	07:45	09:15	90	15
D4	2026WEST	PM	FLAT	16:45	18:15	90	15
D5	2026EAST	AM	FLAT	07:45	09:15	90	15
D6	2026EAST	PM	FLAT	16:45	18:15	90	15
D7	2026DES	AM	FLAT	07:45	09:15	90	15
D8	2026DES	PM	FLAT	16:45	18:15	90	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2026RC, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	8.18	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	17	1 - B4100	8.18	A

Arms

Arms

Arm	Name	Description	No give-way line
1	B4100		
2	A4095 E		
3	Banbury Road		
4	A4095 W		

Roundabout Geometry

Arm	V (m)	E (m)	I' (m)	R (m)	D (m)	PHI (deg)	Entry only	Exit only
1 - B4100	3.38	6.75	33.0	32.0	40.0	22.0		
2 - A4095 E	4.30	8.30	27.0	20.0	40.0	33.0		
3 - Banbury Road	3.65	7.30	21.0	15.0	40.0	33.0		
4 - A4095 W	4.30	6.40	7.8	30.0	40.0	26.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1 - B4100	0.691	1876
2 - A4095 E	0.719	2103
3 - Banbury Road	0.647	1768
4 - A4095 W	0.650	1694

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D1	2026RC	AM	FLAT	07:45	09:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	1183	100.000
2 - A4095 E		✓	1218	100.000
3 - Banbury Road		✓	410	100.000
4 - A4095 W		✓	449	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	621	392	170
	2 - A4095 E	592	0	77	549
	3 - Banbury Road	265	92	0	53
	4 - A4095 W	59	371	19	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.77	9.98	3.3	A
2 - A4095 E	0.72	7.70	2.6	A
3 - Banbury Road	0.45	7.07	0.8	A
4 - A4095 W	0.42	5.73	0.7	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	479	1546	0.765	1171	3.1	9.315	A
2 - A4095 E	1218	575	1689	0.721	1208	2.5	7.333	A
3 - Banbury Road	410	1300	927	0.442	407	0.8	6.886	A
4 - A4095 W	449	941	1083	0.415	446	0.7	5.633	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	482	1543	0.767	1183	3.2	9.958	A
2 - A4095 E	1218	581	1685	0.723	1218	2.6	7.692	A
3 - Banbury Road	410	1311	919	0.446	410	0.8	7.064	A
4 - A4095 W	449	949	1078	0.417	449	0.7	5.725	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	482	1543	0.767	1183	3.2	9.974	A
2 - A4095 E	1218	581	1685	0.723	1218	2.6	7.701	A
3 - Banbury Road	410	1311	919	0.446	410	0.8	7.066	A
4 - A4095 W	449	949	1078	0.417	449	0.7	5.726	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	482	1543	0.767	1183	3.2	9.980	A
2 - A4095 E	1218	581	1685	0.723	1218	2.6	7.703	A
3 - Banbury Road	410	1311	919	0.446	410	0.8	7.066	A
4 - A4095 W	449	949	1078	0.417	449	0.7	5.726	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	482	1543	0.767	1183	3.3	9.982	A
2 - A4095 E	1218	581	1685	0.723	1218	2.6	7.704	A
3 - Banbury Road	410	1311	919	0.446	410	0.8	7.066	A
4 - A4095 W	449	949	1078	0.417	449	0.7	5.726	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1183	482	1543	0.767	1183	3.3	9.984	A
2 - A4095 E	1218	581	1685	0.723	1218	2.6	7.704	A
3 - Banbury Road	410	1311	919	0.446	410	0.8	7.066	A
4 - A4095 W	449	949	1078	0.417	449	0.7	5.726	A

2026RC, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	9.87	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	10	4 - A4095 W	9.87	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D2	2026RC	PM	FLAT	16:45	18:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	931	100.000
2 - A4095 E		✓	1300	100.000
3 - Banbury Road		✓	477	100.000
4 - A4095 W		✓	725	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	509	246	176
	2 - A4095 E	688	2	77	533
	3 - Banbury Road	271	156	0	50
	4 - A4095 W	72	609	44	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.71	9.35	2.4	A
2 - A4095 E	0.74	7.69	2.8	A
3 - Banbury Road	0.55	9.34	1.2	A
4 - A4095 W	0.75	14.77	2.9	B

Main Results for each time segment
16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	800	1324	0.703	922	2.3	8.767	A
2 - A4095 E	1300	461	1771	0.734	1289	2.7	7.315	A
3 - Banbury Road	477	1387	870	0.548	472	1.2	8.948	A
4 - A4095 W	725	1107	975	0.744	714	2.7	13.301	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	810	1316	0.707	931	2.4	9.320	A
2 - A4095 E	1300	466	1768	0.735	1300	2.7	7.680	A
3 - Banbury Road	477	1399	863	0.553	477	1.2	9.328	A
4 - A4095 W	725	1117	969	0.749	724	2.9	14.679	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	811	1316	0.707	931	2.4	9.339	A
2 - A4095 E	1300	466	1768	0.735	1300	2.7	7.692	A
3 - Banbury Road	477	1399	862	0.553	477	1.2	9.338	A
4 - A4095 W	725	1117	968	0.749	725	2.9	14.740	B

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	811	1316	0.707	931	2.4	9.344	A
2 - A4095 E	1300	466	1768	0.735	1300	2.8	7.691	A
3 - Banbury Road	477	1399	862	0.553	477	1.2	9.338	A
4 - A4095 W	725	1117	968	0.749	725	2.9	14.759	B

17:45 - 18:00

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	811	1316	0.707	931	2.4	9.346	A
2 - A4095 E	1300	466	1768	0.735	1300	2.8	7.693	A
3 - Banbury Road	477	1399	862	0.553	477	1.2	9.341	A
4 - A4095 W	725	1117	968	0.749	725	2.9	14.768	B

18:00 - 18:15

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	931	811	1316	0.707	931	2.4	9.348	A
2 - A4095 E	1300	466	1768	0.735	1300	2.8	7.693	A
3 - Banbury Road	477	1399	862	0.553	477	1.2	9.341	A
4 - A4095 W	725	1117	968	0.749	725	2.9	14.771	B

2026WEST, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	9.10	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	15	1 - B4100	9.10	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D3	2026WEST	AM	FLAT	07:45	09:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	1213	100.000
2 - A4095 E		✓	1266	100.000
3 - Banbury Road		✓	428	100.000
4 - A4095 W		✓	476	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	638	397	178
	2 - A4095 E	640	0	77	549
	3 - Banbury Road	283	92	0	53
	4 - A4095 W	86	371	19	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.79	10.89	3.6	B
2 - A4095 E	0.76	8.78	3.1	A
3 - Banbury Road	0.48	7.91	0.9	A
4 - A4095 W	0.46	6.44	0.8	A

Main Results for each time segment
07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	478	1546	0.785	1199	3.5	10.023	B
2 - A4095 E	1266	587	1681	0.753	1254	2.9	8.231	A
3 - Banbury Road	428	1354	892	0.480	424	0.9	7.649	A
4 - A4095 W	476	1006	1041	0.457	473	0.8	6.302	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	482	1543	0.786	1213	3.6	10.847	B
2 - A4095 E	1266	594	1676	0.755	1266	3.0	8.759	A
3 - Banbury Road	428	1367	883	0.485	428	0.9	7.903	A
4 - A4095 W	476	1015	1035	0.460	476	0.8	6.441	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	482	1543	0.786	1213	3.6	10.873	B
2 - A4095 E	1266	594	1676	0.755	1266	3.0	8.773	A
3 - Banbury Road	428	1367	883	0.485	428	0.9	7.909	A
4 - A4095 W	476	1015	1035	0.460	476	0.8	6.442	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	482	1543	0.786	1213	3.6	10.882	B
2 - A4095 E	1266	594	1676	0.755	1266	3.1	8.777	A
3 - Banbury Road	428	1367	883	0.485	428	0.9	7.909	A
4 - A4095 W	476	1015	1035	0.460	476	0.8	6.442	A

08:45 - 09:00

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	482	1543	0.786	1213	3.6	10.886	B
2 - A4095 E	1266	594	1676	0.755	1266	3.1	8.779	A
3 - Banbury Road	428	1367	883	0.485	428	0.9	7.910	A
4 - A4095 W	476	1015	1035	0.460	476	0.8	6.442	A

09:00 - 09:15

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1213	482	1543	0.786	1213	3.6	10.888	B
2 - A4095 E	1266	594	1676	0.755	1266	3.1	8.781	A
3 - Banbury Road	428	1367	883	0.485	428	0.9	7.910	A
4 - A4095 W	476	1015	1035	0.460	476	0.8	6.442	A

2026WEST, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	11.51	B

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	8	4 - A4095 W	11.51	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D4	2026WEST	PM	FLAT	16:45	18:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	1030	100.000
2 - A4095 E		✓	1315	100.000
3 - Banbury Road		✓	482	100.000
4 - A4095 W		✓	732	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	560	265	205
	2 - A4095 E	703	2	77	533
	3 - Banbury Road	276	156	0	50
	4 - A4095 W	79	609	44	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.78	12.57	3.6	B
2 - A4095 E	0.76	8.60	3.1	A
3 - Banbury Road	0.58	10.23	1.4	B
4 - A4095 W	0.77	16.09	3.2	C

Main Results for each time segment
16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	799	1324	0.778	1017	3.3	11.264	B
2 - A4095 E	1315	507	1738	0.757	1303	3.0	8.066	A
3 - Banbury Road	482	1429	843	0.572	477	1.3	9.702	A
4 - A4095 W	732	1126	963	0.760	720	3.0	14.227	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	810	1316	0.782	1029	3.5	12.479	B
2 - A4095 E	1315	514	1734	0.759	1315	3.1	8.578	A
3 - Banbury Road	482	1443	834	0.578	482	1.3	10.208	B
4 - A4095 W	732	1137	956	0.766	731	3.1	15.949	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	811	1316	0.783	1030	3.5	12.542	B
2 - A4095 E	1315	514	1733	0.759	1315	3.1	8.594	A
3 - Banbury Road	482	1443	834	0.578	482	1.4	10.223	B
4 - A4095 W	732	1137	955	0.766	732	3.2	16.040	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	811	1316	0.783	1030	3.5	12.560	B
2 - A4095 E	1315	514	1733	0.759	1315	3.1	8.598	A
3 - Banbury Road	482	1443	834	0.578	482	1.4	10.227	B
4 - A4095 W	732	1137	955	0.766	732	3.2	16.068	C

17:45 - 18:00

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	811	1316	0.783	1030	3.6	12.569	B
2 - A4095 E	1315	514	1733	0.759	1315	3.1	8.601	A
3 - Banbury Road	482	1443	834	0.578	482	1.4	10.227	B
4 - A4095 W	732	1137	955	0.766	732	3.2	16.079	C

18:00 - 18:15

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1030	811	1316	0.783	1030	3.6	12.572	B
2 - A4095 E	1315	514	1733	0.759	1315	3.1	8.602	A
3 - Banbury Road	482	1443	834	0.578	482	1.4	10.229	B
4 - A4095 W	732	1137	955	0.766	732	3.2	16.088	C

2026EAST, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	8.68	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	16	1 - B4100	8.68	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2026EAST	AM	FLAT	07:45	09:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	1200	100.000
2 - A4095 E		✓	1245	100.000
3 - Banbury Road		✓	420	100.000
4 - A4095 W		✓	464	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	630	395	175
	2 - A4095 E	619	0	77	549
	3 - Banbury Road	275	92	0	53
	4 - A4095 W	74	371	19	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.78	10.48	3.5	B
2 - A4095 E	0.74	8.29	2.8	A
3 - Banbury Road	0.47	7.52	0.9	A
4 - A4095 W	0.44	6.11	0.8	A

Main Results for each time segment
07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	479	1546	0.776	1187	3.3	9.704	A
2 - A4095 E	1245	583	1684	0.739	1234	2.7	7.822	A
3 - Banbury Road	420	1331	907	0.463	417	0.9	7.300	A
4 - A4095 W	464	978	1059	0.438	461	0.8	5.990	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	482	1543	0.778	1200	3.4	10.442	B
2 - A4095 E	1245	589	1679	0.741	1245	2.8	8.268	A
3 - Banbury Road	420	1343	899	0.467	420	0.9	7.514	A
4 - A4095 W	464	986	1054	0.440	464	0.8	6.104	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	482	1543	0.778	1200	3.4	10.463	B
2 - A4095 E	1245	589	1679	0.741	1245	2.8	8.280	A
3 - Banbury Road	420	1343	899	0.467	420	0.9	7.519	A
4 - A4095 W	464	986	1054	0.440	464	0.8	6.105	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	482	1543	0.778	1200	3.4	10.472	B
2 - A4095 E	1245	589	1679	0.741	1245	2.8	8.282	A
3 - Banbury Road	420	1343	899	0.467	420	0.9	7.520	A
4 - A4095 W	464	986	1054	0.440	464	0.8	6.105	A

08:45 - 09:00

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	482	1543	0.778	1200	3.5	10.476	B
2 - A4095 E	1245	589	1679	0.741	1245	2.8	8.284	A
3 - Banbury Road	420	1343	899	0.467	420	0.9	7.520	A
4 - A4095 W	464	986	1054	0.440	464	0.8	6.105	A

09:00 - 09:15

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1200	482	1543	0.778	1200	3.5	10.478	B
2 - A4095 E	1245	589	1679	0.741	1245	2.8	8.285	A
3 - Banbury Road	420	1343	899	0.467	420	0.9	7.520	A
4 - A4095 W	464	986	1054	0.440	464	0.8	6.105	A

2026EAST, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	10.69	B

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	9	4 - A4095 W	10.69	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D6	2026EAST	PM	FLAT	16:45	18:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	986	100.000
2 - A4095 E		✓	1308	100.000
3 - Banbury Road		✓	480	100.000
4 - A4095 W		✓	729	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	537	257	192
	2 - A4095 E	696	2	77	533
	3 - Banbury Road	274	156	0	50
	4 - A4095 W	76	609	44	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.75	10.90	3.0	B
2 - A4095 E	0.75	8.17	3.0	A
3 - Banbury Road	0.57	9.81	1.3	A
4 - A4095 W	0.76	15.48	3.1	C

Main Results for each time segment
16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	799	1324	0.745	975	2.8	10.010	B
2 - A4095 E	1308	487	1753	0.746	1297	2.8	7.716	A
3 - Banbury Road	480	1410	855	0.561	475	1.2	9.354	A
4 - A4095 W	729	1117	968	0.753	718	2.9	13.805	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	810	1316	0.749	986	2.9	10.851	B
2 - A4095 E	1308	493	1749	0.748	1308	2.9	8.154	A
3 - Banbury Road	480	1423	847	0.567	480	1.3	9.796	A
4 - A4095 W	729	1128	961	0.758	728	3.0	15.362	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	811	1316	0.749	986	2.9	10.886	B
2 - A4095 E	1308	493	1748	0.748	1308	2.9	8.164	A
3 - Banbury Road	480	1423	847	0.567	480	1.3	9.807	A
4 - A4095 W	729	1128	961	0.758	729	3.1	15.439	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	811	1316	0.749	986	2.9	10.894	B
2 - A4095 E	1308	493	1748	0.748	1308	2.9	8.168	A
3 - Banbury Road	480	1423	847	0.567	480	1.3	9.810	A
4 - A4095 W	729	1128	961	0.758	729	3.1	15.462	C

17:45 - 18:00

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	811	1316	0.749	986	3.0	10.899	B
2 - A4095 E	1308	493	1748	0.748	1308	2.9	8.170	A
3 - Banbury Road	480	1423	847	0.567	480	1.3	9.811	A
4 - A4095 W	729	1128	961	0.758	729	3.1	15.471	C

18:00 - 18:15

Am	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	986	811	1316	0.749	986	3.0	10.902	B
2 - A4095 E	1308	493	1748	0.748	1308	3.0	8.172	A
3 - Banbury Road	480	1423	847	0.567	480	1.3	9.813	A
4 - A4095 W	729	1128	961	0.758	729	3.1	15.478	C

2026DES, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Geometry	1 - B4100 - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	9.72	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	14	1 - B4100	9.72	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D7	2026DES	AM	FLAT	07:45	09:15	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
1 - B4100		✓	1230	100.000
2 - A4095 E		✓	1293	100.000
3 - Banbury Road		✓	438	100.000
4 - A4095 W		✓	491	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	647	400	183
	2 - A4095 E	667	0	77	549
	3 - Banbury Road	293	92	0	53
	4 - A4095 W	101	371	19	0

Vehicle Mix

HV %s

		To			
		1 - B4100	2 - A4095 E	3 - Banbury Road	4 - A4095 W
From	1 - B4100	0	0	0	0
	2 - A4095 E	0	0	0	0
	3 - Banbury Road	0	0	0	0
	4 - A4095 W	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS
1 - B4100	0.80	11.48	3.9	B
2 - A4095 E	0.77	9.54	3.4	A
3 - Banbury Road	0.51	8.48	1.0	A
4 - A4095 W	0.49	6.93	0.9	A

Main Results for each time segment
07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1230	478	1546	0.796	1215	3.7	10.468	B
2 - A4095 E	1293	595	1675	0.772	1280	3.2	8.844	A
3 - Banbury Road	438	1385	872	0.502	434	1.0	8.154	A
4 - A4095 W	491	1042	1017	0.483	487	0.9	6.749	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1230	482	1543	0.797	1229	3.8	11.423	B
2 - A4095 E	1293	602	1670	0.774	1293	3.3	9.510	A
3 - Banbury Road	438	1399	863	0.508	438	1.0	8.472	A
4 - A4095 W	491	1052	1011	0.486	491	0.9	6.924	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1230	482	1543	0.797	1230	3.8	11.456	B
2 - A4095 E	1293	602	1670	0.774	1293	3.4	9.531	A
3 - Banbury Road	438	1399	862	0.508	438	1.0	8.479	A
4 - A4095 W	491	1052	1011	0.486	491	0.9	6.926	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - B4100	1230	482	1543	0.797	1230	3.9	11.468	B
2 - A4095 E	1293	602	1670	0.774	1293	3.4	9.538	A
3 - Banbury Road	438	1399	862	0.508	438	1.0	8.482	A
4 - A4095 W	491	1052	1011	0.486	491	0.9	6.926	A