

08:30 - 08:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	422	666	0.633	421	431	1.2	1.1	9.581	A
				2	C, D	503	666	0.755	504	502	1.6	1.5	10.206	B
				3	A, D	455	666	0.683	458	468	1.7	1.4	11.226	B
			2	1	(B, C)	434			432	440	0.2	0.2	1.105	A
				2	(A, C, D)	947			948	958	1.0	0.8	3.140	A
			3	1	((A, B, C, D))	1381			1381	1398	0.0	0.0	0.000	A
		Exit	1	1		1491			1491	1473	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	15	656	0.022	15	16	0.0	0.0	5.656	A
		Exit	1	1		14			14	13	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	631	884	0.714	627	618	1.7	1.8	9.327	A
				2	B, A, C	567	884	0.641	564	554	1.4	1.4	8.414	A
			2	1	(A, B, C, D)	1198			1198	1172	0.0	0.0	0.000	A
		Exit	1	1		869			869	885	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	329	784	0.420	328	319	1.1	0.9	7.950	A
				2	C, D	99	784	0.127	100	99	0.2	0.1	5.770	A
		Exit	1	1		642			642	636	0.0	0.0	0.000	A
2	A	Entry	1	1	B	383	1099	0.348	382	392	0.5	0.5	4.567	A
				2	B, C, A	486	1099	0.443	487	493	0.7	0.7	4.898	A
			2	1	(B, C, A)	869			869	885	0.0	0.0	0.000	A
		Exit	1	1		1195			1195	1173	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	610	1120	0.545	611	594	0.8	0.7	5.080	A
				2	B, A	571	1120	0.510	570	559	0.8	0.7	4.892	A
			2	1	(B, C, A)	1181			1181	1153	0.0	0.0	0.001	A
		Exit	1	1		710			710	726	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	102	870	0.118	102	100	0.2	0.2	5.852	A
		Exit	1	1		248			248	240	0.0	0.0	0.000	A

08:45 - 09:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	339	673	0.504	338	341	1.1	0.8	7.993	A
				2	C, D	415	673	0.618	415	420	1.5	1.0	8.250	A
				3	A, D	385	673	0.572	381	383	1.4	1.1	9.248	A
			2	1	(B, C)	319			319	317	0.2	0.0	0.215	A
				2	(A, C, D)	823			820	823	0.8	0.3	0.770	A
			3	1	((A, B, C, D))	1142			1142	1137	0.0	0.0	0.001	A
		Exit	1	1		1220			1220	1224	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	12	819	0.014	12	12	0.0	0.0	4.361	A
		Exit	1	1		11			11	11	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	527	929	0.567	528	526	1.8	1.0	6.883	A
				2	B, A, C	463	929	0.498	462	457	1.4	0.9	6.285	A
			2	1	(A, B, C, D)	990			990	978	0.0	0.0	0.000	A
		Exit	1	1		712			712	710	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	257	862	0.298	258	263	0.9	0.4	6.616	A
				2	C, D	76	862	0.089	78	73	0.1	0.1	4.604	A
		Exit	1	1		529			529	529	0.0	0.0	0.000	A
2	A	Entry	1	1	B	314	1099	0.286	315	315	0.5	0.3	3.900	A
				2	B, C, A	396	1099	0.361	395	396	0.7	0.5	4.334	A
			2	1	(B, C, A)	711			711	709	0.0	0.0	0.000	A
		Exit	1	1		988			988	976	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	502	1134	0.443	503	496	0.7	0.6	4.528	A
				2	B, A	474	1134	0.418	475	467	0.7	0.6	4.444	A
			2	1	(B, C, A)	977			977	962	0.0	0.0	0.000	A
		Exit	1	1		585			585	584	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	79	984	0.080	79	80	0.2	0.1	5.099	A
		Exit	1	1		194			194	194	0.0	0.0	0.000	A

09:00 - 09:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	271	676	0.401	271	275	0.8	0.6	7.482	A
				2	C, D	345	676	0.511	348	353	1.0	0.6	7.537	A
				3	A, D	314	676	0.465	315	319	1.1	0.7	8.206	A
			2	1	(B, C)	244			244	256	0.0	0.0	0.108	A
				2	(A, C, D)	686			687	687	0.3	0.0	0.429	A
			3	1	((A, B, C, D))	931			931	942	0.0	0.0	0.000	A
		Exit	1	1		1009			1009	1013	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	12	946	0.012	12	12	0.0	0.0	3.857	A
		Exit	1	1		8			8	8	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	429	964	0.445	428	438	1.0	0.6	5.582	A
				2	B, A, C	367	964	0.381	369	367	0.9	0.5	4.980	A
		Exit	1	1	(A, B, C, D)	796			796	801	0.0	0.0	0.000	A
				1		595			595	598	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	233	932	0.249	234	229	0.4	0.2	5.496	A
				2	C, D	62	932	0.067	63	64	0.1	0.1	4.535	A
		Exit	1	1		428			428	436	0.0	0.0	0.000	A
2	A	Entry	1	1	B	260	1100	0.236	261	260	0.3	0.2	3.911	A
				2	B, C, A	334	1100	0.303	334	337	0.5	0.5	4.213	A
			2	1	(B, C, A)	593			593	596	0.0	0.0	0.000	A
		Exit	1	1		799			799	800	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	410	1139	0.360	410	409	0.6	0.4	4.013	A
				2	B, A	378	1139	0.332	379	381	0.6	0.3	3.892	A
			2	1	(B, C, A)	788			788	788	0.0	0.0	0.000	A
		Exit	1	1		482			482	489	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	64	1094	0.058	65	68	0.1	0.1	4.224	A
		Exit	1	1		169			169	165	0.0	0.0	0.000	A

2026 Reference Case, IP

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Junction 1 - Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm A - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Linked roundabouts	Junction 2	U-turns on linked arms may cause sporadic locking up of junctions and/or unreliable results.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	15.92	C
2	untitled	Standard Roundabout		A, B, C	4.68	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2026 Reference Case	IP	ONE HOUR	12:45	14:15	15	✓

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

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	C	2	A	Simple (vertical queueing)	Normal	0	100.00	
2	A	1	C	Simple (vertical queueing)	Normal	0	100.00	

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	A		ONE HOUR	✓	1367	100.000
	B		ONE HOUR	✓	17	100.000
	C	✓				
	D		ONE HOUR	✓	1012	100.000
2	A	✓				
	B		ONE HOUR	✓	589	100.000
	C		ONE HOUR	✓	284	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

		To			
		A	B	C	D
From	A	158	12	580	617
	B	5	0	0	12
	C	530	5	0	256
	D	692	3	315	2

Demand (PCU/hr)

Junction 2

		To		
		A	B	C
From	A	2	728	174
	B	553	0	36
	C	212	72	0

Vehicle Mix

Heavy Vehicle Percentages

Junction 1

		To			
		A	B	C	D
From	A	0	0	5	5
	B	0	0	0	0
	C	5	0	0	15
	D	4	0	11	0

Heavy Vehicle Percentages

Junction 2

		To		
		A	B	C
From	A	0	5	19
	B	6	0	0
	C	13	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	A	20.36	8.3	C	1251	1876
	B	8.50	0.1	A	16	23
	C	8.03	2.1	A	704	1056
	D	16.05	4.9	C	927	1391
2	A	5.17	1.6	A	821	1231
	B	3.93	0.7	A	540	809
	C	4.68	0.5	A	265	397

Main Results for each time segment

12:45 - 13:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1035	259	234	1038	1028	1055	0.0	2.6	9.094	A
	B	15	4	1258	15	15	14	0.0	0.0	4.576	A
	C	588	147	607	592	580	666	0.0	0.9	5.456	A
	D	763	191	525	764	759	674	0.0	1.4	6.642	A
2	A	669	167	57	667	668	585	0.0	0.9	4.283	A
	B	452	113	133	451	449	592	0.0	0.4	3.538	A
	C	217	54	424	217	217	159	0.0	0.3	3.669	A

13:00 - 13:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1215	304	298	1219	1214	1222	2.6	4.0	11.068	B
	B	13	3	1498	13	14	19	0.0	0.0	5.175	A
	C	671	168	701	673	675	810	0.9	1.2	5.994	A
	D	917	229	603	917	907	771	1.4	2.5	9.097	A
2	A	813	203	66	812	809	670	0.9	1.1	4.587	A
	B	522	131	160	521	523	719	0.4	0.6	3.738	A
	C	245	61	491	245	251	190	0.3	0.2	3.959	A

13:15 - 13:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1501	375	353	1517	1486	1500	4.0	6.8	19.191	C
	B	20	5	1849	20	17	21	0.0	0.1	7.536	A
	C	839	210	887	841	837	983	1.2	1.9	7.621	A
	D	1104	276	755	1097	1098	972	2.5	4.6	13.617	B
2	A	988	246	83	984	975	841	1.1	1.6	5.137	A
	B	639	160	188	638	643	879	0.6	0.7	3.898	A
	C	324	81	601	323	313	226	0.2	0.4	4.549	A

13:30 - 13:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1491	373	355	1498	1493	1514	6.8	8.3	20.364	C
	B	18	5	1832	18	18	20	0.1	0.1	8.503	A
	C	848	212	877	843	847	973	1.9	2.1	8.025	A
	D	1115	279	749	1119	1112	971	4.6	4.9	16.054	C
2	A	977	244	78	981	993	851	1.6	1.3	5.167	A
	B	640	160	189	641	648	869	0.7	0.6	3.931	A
	C	323	81	605	324	314	225	0.4	0.5	4.676	A

13:45 - 14:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1234	308	291	1233	1252	1220	8.3	3.9	12.460	B
	B	15	4	1506	15	17	18	0.1	0.0	6.365	A
	C	686	172	718	688	692	803	2.1	1.3	6.303	A
	D	899	225	608	903	926	798	4.9	2.1	9.881	A
2	A	805	201	71	805	818	686	1.3	1.1	4.579	A
	B	536	134	152	534	531	723	0.6	0.7	3.775	A
	C	257	64	500	257	255	186	0.5	0.3	4.206	A

14:00 - 14:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1029	257	247	1028	1042	1044	3.9	2.8	9.309	A
	B	11	3	1262	11	13	13	0.0	0.0	4.342	A
	C	592	148	597	593	585	676	1.3	0.8	5.572	A
	D	765	191	524	766	766	666	2.1	1.4	6.868	A
2	A	675	169	53	674	682	588	1.1	0.8	4.196	A
	B	448	112	124	444	447	603	0.7	0.7	3.686	A
	C	221	55	419	223	214	149	0.3	0.2	3.788	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

12:45 - 13:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	280	650	0.430	280	277	0.0	0.5	7.708	A
				2	C, D	392	650	0.602	392	391	0.0	1.0	8.780	A
				3	A, D	367	650	0.564	366	361	0.0	1.1	9.198	A
			2	1	(B, C)	241			241	238	0.0	0.0	0.111	A
				2	(A, C, D)	794			797	801	0.0	0.1	0.550	A
			3	1	((A, B, C, D))	1035			1035	1039	0.0	0.0	0.000	A
		Exit	1	1		1055			1055	1031	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	15	817	0.018	15	15	0.0	0.0	4.576	A
		Exit	1	1		14			14	15	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	350	909	0.385	353	350	0.0	0.6	5.917	A
				2	B, A, C	238	909	0.261	239	230	0.0	0.3	4.791	A
		Exit	1	1	(A, B, C, D)	588			588	584	0.0	0.0	0.000	A
				1		666			666	670	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	596	1046	0.570	597	588	0.0	1.1	7.320	A
				2	C, D	167	1046	0.160	166	172	0.0	0.2	4.174	A
		Exit	1	1		674			674	667	0.0	0.0	0.000	A
2	A	Entry	1	1	B	298	1080	0.276	297	295	0.0	0.3	4.023	A
				2	B, C, A	371	1080	0.343	370	373	0.0	0.6	4.498	A
			2	1	(B, C, A)	669			669	672	0.0	0.0	0.000	A
		Exit	1	1		585			585	582	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	238	1133	0.210	238	236	0.0	0.2	3.501	A
				2	B, A	214	1133	0.189	213	213	0.0	0.3	3.580	A
			2	1	(B, C, A)	452			452	451	0.0	0.0	0.000	A
		Exit	1	1		592			592	598	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	217	1289	0.168	217	217	0.0	0.3	3.669	A
		Exit	1	1		159			159	154	0.0	0.0	0.000	A

12:45 - 13:00

13:00 - 13:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	345	636	0.543	346	339	0.5	0.9	9.046	A
				2	C, D	452	636	0.711	452	450	1.0	1.4	10.036	B
				3	A, D	421	636	0.662	422	425	1.1	1.4	10.588	B
			2	1	(B, C)	302			302	300	0.0	0.0	0.406	A
				2	(A, C, D)	913			917	919	0.1	0.3	1.341	A
			3	1	((A, B, C, D))	1215			1215	1219	0.0	0.0	0.000	A
		Exit	1	1		1222			1222	1215	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	13	674	0.020	13	14	0.0	0.0	5.175	A
		Exit	1	1		19			19	18	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	403	875	0.461	404	403	0.6	0.8	6.554	A
				2	B, A, C	268	875	0.306	269	272	0.3	0.4	5.205	A
			2	1	(A, B, C, D)	671			671	676	0.0	0.0	0.000	A
		Exit	1	1		810			810	806	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	690	1017	0.679	690	683	1.1	2.1	10.457	B
				2	C, D	227	1017	0.224	227	224	0.2	0.4	4.669	A
		Exit	1	1		771			771	771	0.0	0.0	0.000	A
2	A	Entry	1	1	B	359	1076	0.333	359	357	0.3	0.5	4.376	A
				2	B, C, A	454	1076	0.422	453	452	0.6	0.6	4.761	A
			2	1	(B, C, A)	813			813	810	0.0	0.0	0.000	A
		Exit	1	1		670			670	677	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	277	1122	0.246	276	272	0.2	0.4	3.815	A
				2	B, A	246	1122	0.219	245	251	0.3	0.3	3.653	A
			2	1	(B, C, A)	522			522	524	0.0	0.0	0.000	A
		Exit	1	1		719			719	715	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	245	1247	0.196	245	251	0.3	0.2	3.959	A
		Exit	1	1		190			190	191	0.0	0.0	0.000	A

13:15 - 13:30

13:15 - 13:30

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	425	624	0.681	426	426	0.9	1.3	11.443	B
				2	C, D	554	624	0.887	552	538	1.4	1.9	12.531	B
				3	A, D	539	624	0.864	539	523	1.4	1.9	13.297	B
			2	1	(B, C)	457			457	448	0.0	0.3	1.936	A
				2	(A, C, D)	1044			1062	1043	0.3	1.5	8.350	A
			3	1	((A, B, C, D))	1501			1501	1497	0.0	0.0	0.242	A
		Exit	1	1		1500			1500	1482	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	20	466	0.044	20	17	0.0	0.1	7.536	A
		Exit	1	1		21			21	23	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	484	807	0.600	485	486	0.8	1.2	8.509	A
				2	B, A, C	355	807	0.440	355	351	0.4	0.7	6.462	A
			2	1	(A, B, C, D)	839			839	840	0.0	0.0	0.000	A
		Exit	1	1		983			983	974	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	808	959	0.843	803	801	2.1	4.1	16.390	C
				2	C, D	295	959	0.308	295	297	0.4	0.6	5.603	A
		Exit	1	1		972			972	960	0.0	0.0	0.000	A
2	A	Entry	1	1	B	454	1070	0.424	454	445	0.5	0.6	4.791	A
				2	B, C, A	532	1070	0.497	530	530	0.6	0.9	5.440	A
			2	1	(B, C, A)	986			986	977	0.0	0.0	0.000	A
		Exit	1	1		841			841	838	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	336	1111	0.302	336	335	0.4	0.4	3.914	A
				2	B, A	303	1111	0.273	302	307	0.3	0.3	3.881	A
			2	1	(B, C, A)	639			639	643	0.0	0.0	0.000	A
		Exit	1	1		879			879	866	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	324	1179	0.275	323	313	0.2	0.4	4.549	A
		Exit	1	1		226			226	226	0.0	0.0	0.000	A

13:30 - 13:45

13:30 - 13:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	439	624	0.704	441	438	1.3	1.3	11.585	B
				2	C, D	522	624	0.836	523	529	1.9	1.9	13.083	B
				3	A, D	534	624	0.856	534	526	1.9	1.9	13.500	B
			2	1	(B, C)	457			456	454	0.3	0.5	2.472	A
				2	(A, C, D)	1031			1039	1039	1.5	2.1	9.000	A
			3	1	((A, B, C, D))	1491			1489	1497	0.0	0.5	0.498	A
		Exit	1	1		1514			1514	1508	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	18	476	0.038	18	18	0.1	0.1	8.503	A
		Exit	1	1		20			20	20	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	486	811	0.600	483	487	1.2	1.4	8.886	A
				2	B, A, C	362	811	0.446	360	360	0.7	0.7	6.943	A
		Exit	1	1	(A, B, C, D)	848			848	848	0.0	0.0	0.000	A
				1		973			973	985	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	810	962	0.842	816	809	4.1	4.3	19.647	C
				2	C, D	305	962	0.317	303	303	0.6	0.6	5.894	A
		Exit	1	1		971			971	957	0.0	0.0	0.000	A
2	A	Entry	1	1	B	446	1072	0.416	446	450	0.6	0.6	4.755	A
				2	B, C, A	531	1072	0.496	535	543	0.9	0.7	5.524	A
			2	1	(B, C, A)	977			977	992	0.0	0.0	0.000	A
		Exit	1	1		851			851	847	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	335	1111	0.302	335	338	0.4	0.4	3.941	A
				2	B, A	305	1111	0.274	306	309	0.3	0.3	3.919	A
			2	1	(B, C, A)	640			640	647	0.0	0.0	0.000	A
		Exit	1	1		869			869	874	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	323	1177	0.275	324	314	0.4	0.5	4.676	A
		Exit	1	1		225			225	234	0.0	0.0	0.000	A

13:45 - 13:55

13:45 - 14:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	338	638	0.531	339	348	1.3	0.8	9.134	A
				2	C, D	458	638	0.718	457	463	1.9	1.3	10.473	B
				3	A, D	438	638	0.688	437	440	1.9	1.2	11.083	B
			2	1	(B, C)	299			298	314	0.5	0.1	0.656	A
				2	(A, C, D)	934			936	930	2.1	0.5	2.593	A
			3	1	((A, B, C, D))	1234			1234	1236	0.5	0.0	0.147	A
		Exit	1	1		1220			1220	1251	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	15	669	0.022	15	17	0.1	0.0	6.365	A
		Exit	1	1		18			18	18	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	414	889	0.476	415	411	1.4	0.8	6.883	A
				2	B, A, C	273	889	0.315	272	280	0.7	0.5	5.495	A
			2	1	(A, B, C, D)	686			686	688	0.0	0.0	0.000	A
		Exit	1	1		803			803	814	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	683	1015	0.673	685	699	4.3	1.9	11.419	B
				2	C, D	217	1015	0.213	218	227	0.6	0.2	4.884	A
		Exit	1	1		798			798	803	0.0	0.0	0.000	A
2	A	Entry	1	1	B	361	1075	0.336	362	365	0.6	0.5	4.329	A
				2	B, C, A	445	1075	0.414	443	454	0.7	0.6	4.788	A
			2	1	(B, C, A)	805			805	817	0.0	0.0	0.000	A
		Exit	1	1		686			686	687	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	280	1125	0.249	279	279	0.4	0.4	3.801	A
				2	B, A	256	1125	0.227	255	253	0.3	0.3	3.746	A
			2	1	(B, C, A)	536			536	532	0.0	0.0	0.000	A
		Exit	1	1		723			723	725	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	257	1242	0.207	257	255	0.5	0.3	4.206	A
		Exit	1	1		186			186	193	0.0	0.0	0.000	A

Worksheet: Junctions

14:00 - 14:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	288	647	0.413	289	277	0.8	0.6	8.241	A
				2	C, D	407	647	0.628	407	400	1.3	1.0	8.585	A
				3	A, D	353	647	0.546	353	366	1.2	1.0	9.226	A
			2	1	(B, C)	232			232	239	0.1	0.0	0.277	A
				2	(A, C, D)	797			795	800	0.5	0.2	0.698	A
			3	1	((A, B, C, D))	1029			1029	1037	0.0	0.0	0.000	A
		Exit	1	1		1044			1044	1045	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	11	815	0.014	11	13	0.0	0.0	4.342	A
		Exit	1	1		13			13	14	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	360	913	0.394	362	354	0.8	0.4	5.955	A
				2	B, A, C	232	913	0.254	232	231	0.5	0.3	5.008	A
			2	1	(A, B, C, D)	592			592	583	0.0	0.0	0.000	A
		Exit	1	1		676			676	679	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	586	1046	0.560	587	592	1.9	1.1	7.588	A
				2	C, D	179	1046	0.171	179	174	0.2	0.2	4.304	A
		Exit	1	1		666			666	669	0.0	0.0	0.000	A
2	A	Entry	1	1	B	300	1081	0.277	298	300	0.5	0.4	3.894	A
				2	B, C, A	376	1081	0.347	376	382	0.6	0.4	4.443	A
			2	1	(B, C, A)	675			675	681	0.0	0.0	0.000	A
		Exit	1	1		588			588	582	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	233	1137	0.205	230	232	0.4	0.4	3.701	A
				2	B, A	215	1137	0.190	214	214	0.3	0.3	3.670	A
			2	1	(B, C, A)	448			448	447	0.0	0.0	0.000	A
		Exit	1	1		603			603	606	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	221	1292	0.171	223	214	0.3	0.2	3.788	A
		Exit	1	1		149			149	156	0.0	0.0	0.000	A

2026 Reference Case, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Junction 1 - Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm A - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Linked roundabouts	Junction 2	U-turns on linked arms may cause sporadic locking up of junctions and/or unreliable results.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	34.15	D
2	untitled	Standard Roundabout		A, B, C	4.92	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2026 Reference Case	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

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	C	2	A	Simple (vertical queueing)	Normal	0	100.00	
2	A	1	C	Simple (vertical queueing)	Normal	0	100.00	

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	A		ONE HOUR	✓	1679	100.000
	B		ONE HOUR	✓	22	100.000
	C	✓				
	D		ONE HOUR	✓	858	100.000
2	A	✓				
	B		ONE HOUR	✓	822	100.000
	C		ONE HOUR	✓	227	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

		To			
		A	B	C	D
From	A	176	7	834	662
	B	2	0	1	19
	C	774	2	0	180
	D	645	5	207	1

Demand (PCU/hr)

Junction 2

		To		
		A	B	C
From	A	2	918	116
	B	795	0	27
	C	164	63	0

Vehicle Mix

Heavy Vehicle Percentages

Junction 1

		To			
		A	B	C	D
From	A	1	0	1	2
	B	0	0	0	0
	C	3	0	0	13
	D	2	0	10	0

Heavy Vehicle Percentages

Junction 2

		To		
		A	B	C
From	A	0	1	19
	B	4	0	6
	C	11	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	A	52.96	29.9	F	1540	2310
	B	12.29	0.1	B	20	30
	C	9.91	3.1	A	878	1317
	D	24.90	6.9	C	784	1176
2	A	5.41	1.8	A	954	1432
	B	4.21	1.1	A	754	1131
	C	5.28	0.5	A	210	314

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1271	318	167	1268	1253	1192	0.0	3.5	9.888	A
	B	17	4	1423	17	18	11	0.0	0.0	5.037	A
	C	719	180	647	719	713	794	0.0	1.2	5.533	A
	D	650	162	710	649	644	656	0.0	1.3	7.144	A
2	A	793	198	49	793	780	721	0.0	1.0	4.240	A
	B	616	154	91	616	616	751	0.0	0.7	3.658	A
	C	170	43	599	171	172	108	0.0	0.2	3.902	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1511	378	193	1515	1499	1428	3.5	5.8	14.303	B
	B	19	5	1696	19	18	12	0.0	0.0	6.831	A
	C	854	214	772	856	856	943	1.2	1.6	6.611	A
	D	761	190	857	765	763	771	1.3	2.1	9.757	A
2	A	943	236	56	940	931	858	1.0	1.4	4.802	A
	B	734	183	106	731	738	890	0.7	0.9	3.871	A
	C	204	51	711	203	200	126	0.2	0.3	4.212	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1852	463	236	1803	1779	1754	5.8	23.1	34.056	D
	B	23	6	2024	23	22	15	0.0	0.0	10.589	B
	C	1052	263	915	1053	1046	1133	1.6	3.0	9.137	A
	D	938	234	1051	939	925	917	2.1	6.1	20.082	C
2	A	1132	283	67	1130	1118	1057	1.4	1.8	5.150	A
	B	902	225	124	900	904	1074	0.9	1.1	4.117	A
	C	253	63	873	252	249	151	0.3	0.5	5.065	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1858	465	238	1825	1827	1755	23.1	29.9	52.962	F
	B	23	6	2047	23	24	16	0.0	0.1	12.289	B
	C	1056	264	935	1056	1053	1135	3.0	3.1	9.909	A
	D	946	236	1051	942	944	940	6.1	6.9	24.903	C
2	A	1137	284	70	1138	1142	1064	1.8	1.7	5.409	A
	B	909	227	132	908	905	1076	1.1	1.1	4.211	A
	C	253	63	880	254	252	160	0.5	0.4	5.283	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1497	374	189	1524	1596	1439	29.9	6.1	27.288	D
	B	20	5	1700	20	21	13	0.1	0.0	8.572	A
	C	861	215	785	862	869	935	3.1	1.5	7.368	A
	D	769	192	860	769	789	787	6.9	2.2	12.885	B
2	A	936	234	54	934	970	882	1.7	1.3	4.726	A
	B	739	185	107	739	739	882	1.1	0.8	3.850	A
	C	201	50	715	201	205	131	0.4	0.3	4.448	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1253	313	181	1254	1270	1207	6.1	3.2	9.915	A
	B	18	4	1405	17	18	10	0.0	0.0	5.397	A
	C	726	182	637	724	728	785	1.5	1.2	5.655	A
	D	642	160	724	643	650	637	2.2	1.1	7.413	A
2	A	786	197	50	786	788	729	1.3	1.0	4.199	A
	B	622	156	92	622	622	744	0.8	0.7	3.623	A
	C	176	44	602	177	173	112	0.3	0.2	3.975	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

16:45 - 17:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	385	665	0.579	385	378	0.0	0.9	8.758	A
				2	C, D	474	665	0.713	473	470	0.0	1.2	9.295	A
				3	A, D	411	665	0.619	410	404	0.0	1.2	9.381	A
			2	1	(B, C)	346			345	342	0.0	0.0	0.455	A
				2	(A, C, D)	925			925	924	0.0	0.2	0.820	A
			3	1	((A, B, C, D))	1271			1271	1267	0.0	0.0	0.000	A
		Exit	1	1		1192			1192	1190	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	17	719	0.024	17	18	0.0	0.0	5.037	A
		Exit	1	1		11			11	11	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	394	895	0.440	394	392	0.0	0.7	5.881	A
				2	B, A, C	326	895	0.364	325	321	0.0	0.5	5.145	A
		Exit	1	1	(A, B, C, D)	719			719	718	0.0	0.0	0.000	A
				1		794			794	783	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	531	976	0.543	530	530	0.0	1.2	7.720	A
				2	C, D	119	976	0.122	119	114	0.0	0.2	4.281	A
		Exit	1	1		656			656	644	0.0	0.0	0.000	A
2	A	Entry	1	1	B	377	1083	0.349	378	368	0.0	0.4	4.050	A
				2	B, C, A	415	1083	0.384	415	412	0.0	0.5	4.414	A
			2	1	(B, C, A)	793			793	784	0.0	0.0	0.000	A
		Exit	1	1		721			721	721	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	311	1150	0.271	311	312	0.0	0.4	3.693	A
				2	B, A	305	1150	0.265	305	304	0.0	0.3	3.622	A
			2	1	(B, C, A)	616			616	619	0.0	0.0	0.000	A
		Exit	1	1		751			751	740	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	170	1181	0.144	171	172	0.0	0.2	3.902	A
		Exit	1	1		108			108	107	0.0	0.0	0.000	A

17:00 - 17:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	473	659	0.718	473	464	0.9	1.4	10.625	B
				2	C, D	546	659	0.828	545	545	1.2	1.8	11.410	B
				3	A, D	498	659	0.755	497	490	1.2	1.6	11.314	B
			2	1	(B, C)	471			472	464	0.0	0.2	1.953	A
				2	(A, C, D)	1040			1045	1041	0.2	0.8	3.680	A
			3	1	((A, B, C, D))	1511			1511	1508	0.0	0.0	0.017	A
		Exit	1	1		1428			1428	1424	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	19	557	0.034	19	18	0.0	0.0	6.831	A
		Exit	1	1		12			12	13	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	465	849	0.547	465	463	0.7	0.9	6.937	A
				2	B, A, C	390	849	0.459	390	393	0.5	0.7	6.238	A
			2	1	(A, B, C, D)	854			854	858	0.0	0.0	0.000	A
		Exit	1	1		943			943	931	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	615	921	0.668	619	619	1.2	1.9	10.807	B
				2	C, D	146	921	0.158	146	144	0.2	0.2	4.910	A
		Exit	1	1		771			771	768	0.0	0.0	0.000	A
2	A	Entry	1	1	B	445	1080	0.412	445	438	0.4	0.6	4.459	A
				2	B, C, A	498	1080	0.461	496	493	0.5	0.8	4.735	A
			2	1	(B, C, A)	943			943	933	0.0	0.0	0.000	A
		Exit	1	1		858			858	861	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	373	1144	0.326	371	375	0.4	0.5	3.910	A
				2	B, A	361	1144	0.316	360	364	0.3	0.4	3.831	A
			2	1	(B, C, A)	734			734	739	0.0	0.0	0.000	A
		Exit	1	1		890			890	879	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	204	1111	0.183	203	200	0.2	0.3	4.212	A
		Exit	1	1		126			126	129	0.0	0.0	0.000	A

17:15 - 17:30

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	579	650	0.892	579	570	1.4	2.3	13.680	B
				2	C, D	618	650	0.951	618	615	1.8	2.6	14.562	B
				3	A, D	608	650	0.936	607	595	1.6	2.6	14.301	B
			2	1	(B, C)	787			787	743	0.2	2.0	7.489	A
				2	(A, C, D)	1039			1018	1047	0.8	9.0	21.632	C
			3	1	((A, B, C, D))	1852			1826	1830	0.0	4.7	3.796	A
		Exit	1	1		1754			1754	1733	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	23	362	0.064	23	22	0.0	0.0	10.589	B
		Exit	1	1		15			15	15	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	555	796	0.697	555	552	0.9	1.6	9.583	A
				2	B, A, C	498	796	0.625	498	494	0.7	1.3	8.653	A
			2	1	(A, B, C, D)	1052			1052	1051	0.0	0.0	0.000	A
		Exit	1	1		1133			1133	1122	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	733	848	0.865	734	724	1.9	5.8	23.710	C
				2	C, D	204	848	0.241	205	201	0.2	0.3	5.733	A
		Exit	1	1		917			917	903	0.0	0.0	0.000	A
2	A	Entry	1	1	B	541	1076	0.503	539	533	0.6	0.9	4.989	A
				2	B, C, A	592	1076	0.550	591	586	0.8	0.9	5.301	A
			2	1	(B, C, A)	1132			1132	1120	0.0	0.0	0.000	A
		Exit	1	1		1057			1057	1057	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	458	1137	0.403	458	461	0.5	0.5	4.117	A
				2	B, A	444	1137	0.390	442	443	0.4	0.5	4.116	A
			2	1	(B, C, A)	902			902	905	0.0	0.0	0.000	A
		Exit	1	1		1074			1074	1063	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	253	1011	0.250	252	249	0.3	0.5	5.065	A
		Exit	1	1		151			151	151	0.0	0.0	0.000	A

17:30 - 17:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	588	649	0.906	588	590	2.3	2.3	14.164	B
				2	C, D	622	649	0.958	621	620	2.6	2.7	15.215	C
				3	A, D	616	649	0.949	617	617	2.6	2.6	15.088	C
			2	1	(B, C)	814			817	818	2.0	2.2	10.374	B
				2	(A, C, D)	1011			1009	1009	9.0	10.1	34.718	D
			3	1	((A, B, C, D))	1858			1825	1833	4.7	10.1	14.137	B
		Exit	1	1		1755			1755	1755	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	23	348	0.065	23	24	0.0	0.1	12.289	B
		Exit	1	1		16			16	16	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	558	789	0.707	559	556	1.6	1.7	10.467	B
				2	B, A, C	497	789	0.630	497	497	1.3	1.4	9.303	A
			2	1	(A, B, C, D)	1056			1056	1054	0.0	0.0	0.001	A
		Exit	1	1		1135			1135	1140	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	739	848	0.871	735	738	5.8	6.5	29.789	D
				2	C, D	207	848	0.244	206	206	0.3	0.4	6.088	A
		Exit	1	1		940			940	938	0.0	0.0	0.000	A
2	A	Entry	1	1	B	542	1075	0.504	542	546	0.9	0.8	5.235	A
				2	B, C, A	595	1075	0.553	596	596	0.9	0.9	5.574	A
			2	1	(B, C, A)	1137			1137	1141	0.0	0.0	0.000	A
		Exit	1	1		1064			1064	1060	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	460	1133	0.406	460	459	0.5	0.6	4.244	A
				2	B, A	449	1133	0.396	448	446	0.5	0.6	4.177	A
			2	1	(B, C, A)	909			909	906	0.0	0.0	0.000	A
		Exit	1	1		1076			1076	1078	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	253	1006	0.251	254	252	0.5	0.4	5.283	A
		Exit	1	1		160			160	161	0.0	0.0	0.000	A

17:45 - 18:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	467	660	0.707	469	496	2.3	1.3	11.670	B
				2	C, D	552	660	0.836	554	569	2.7	1.7	12.489	B
				3	A, D	501	660	0.759	501	530	2.6	1.7	12.841	B
			2	1	(B, C)	475			478	558	2.2	0.2	4.966	A
				2	(A, C, D)	1029			1041	1027	10.1	1.2	13.337	B
			3	1	((A, B, C, D))	1497			1504	1540	10.1	0.0	5.531	A
		Exit	1	1		1439			1439	1469	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	20	554	0.036	20	21	0.1	0.0	8.572	A
		Exit	1	1		13			13	13	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	465	844	0.551	465	467	1.7	0.9	7.756	A
				2	B, A, C	395	844	0.468	397	401	1.4	0.6	6.929	A
			2	1	(A, B, C, D)	861			861	862	0.0	0.0	0.000	A
		Exit	1	1		935			935	968	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	623	920	0.677	623	635	6.5	2.0	14.671	B
				2	C, D	146	920	0.159	146	153	0.4	0.2	5.145	A
		Exit	1	1		787			787	823	0.0	0.0	0.000	A
2	A	Entry	1	1	B	446	1081	0.412	446	462	0.8	0.5	4.567	A
				2	B, C, A	491	1081	0.454	489	509	0.9	0.7	4.875	A
			2	1	(B, C, A)	936			936	968	0.0	0.0	0.000	A
		Exit	1	1		862			862	863	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	376	1143	0.329	376	377	0.6	0.5	3.867	A
				2	B, A	363	1143	0.317	363	362	0.6	0.4	3.833	A
			2	1	(B, C, A)	739			739	737	0.0	0.0	0.000	A
		Exit	1	1		882			882	918	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	201	1109	0.182	201	205	0.4	0.3	4.448	A
		Exit	1	1		131			131	132	0.0	0.0	0.000	A

18:00 - 18:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	382	666	0.574	384	382	1.3	0.8	8.666	A
				2	C, D	468	666	0.702	468	475	1.7	1.2	9.295	A
				3	A, D	403	666	0.606	402	412	1.7	1.0	9.371	A
			2	1	(B, C)	333			333	339	0.2	0.0	0.471	A
				2	(A, C, D)	920			920	923	1.2	0.1	0.936	A
			3	1	((A, B, C, D))	1253			1253	1258	0.0	0.0	0.001	A
		Exit	1	1		1207			1207	1214	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	18	730	0.024	17	18	0.0	0.0	5.397	A
		Exit	1	1		10			10	10	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	399	898	0.444	399	400	0.9	0.7	5.900	A
				2	B, A, C	327	898	0.364	326	327	0.6	0.5	5.365	A
			2	1	(A, B, C, D)	726			726	725	0.0	0.0	0.000	A
		Exit	1	1		785			785	787	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	528	971	0.544	529	534	2.0	1.0	8.009	A
				2	C, D	114	971	0.117	114	116	0.2	0.1	4.479	A
		Exit	1	1		637			637	654	0.0	0.0	0.000	A
2	A	Entry	1	1	B	370	1082	0.342	369	370	0.5	0.4	4.044	A
				2	B, C, A	416	1082	0.384	417	418	0.7	0.5	4.341	A
			2	1	(B, C, A)	786			786	787	0.0	0.0	0.000	A
		Exit	1	1		729			729	727	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	319	1149	0.277	318	318	0.5	0.4	3.634	A
				2	B, A	304	1149	0.264	304	304	0.4	0.3	3.611	A
			2	1	(B, C, A)	622			622	621	0.0	0.0	0.000	A
		Exit	1	1		744			744	745	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	176	1179	0.150	177	173	0.3	0.2	3.975	A
		Exit	1	1		112			112	111	0.0	0.0	0.000	A

2026 Test Case, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Junction 1 - Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm A - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	13.26	B
2	untitled	Standard Roundabout		A, B, C	5.03	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Test Case	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

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	C	2	A	Simple (vertical queueing)	Normal	0	100.00	
2	A	1	C	Simple (vertical queueing)	Normal	0	100.00	

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	A		ONE HOUR	✓	1363	100.000
	B		ONE HOUR	✓	14	100.000
	C	✓				
	D		ONE HOUR	✓	444	100.000
2	A	✓				
	B		ONE HOUR	✓	1079	100.000
	C		ONE HOUR	✓	102	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

		To			
		A	B	C	D
From	A	229	5	863	466
	B	2	0	5	7
	C	889	1	0	215
	D	285	6	152	1

Demand (PCU/hr)

Junction 2

		To		
		A	B	C
From	A	0	658	161
	B	1007	1	71
	C	93	9	0

Vehicle Mix

Heavy Vehicle Percentages

Junction 1

		To			
		A	B	C	D
From	A	2	0	5	6
	B	0	0	0	0
	C	4	0	0	13
	D	10	0	14	0

Heavy Vehicle Percentages

Junction 2

		To		
		A	B	C
From	A	0	5	12
	B	4	0	0
	C	27	33	0

Results

Results Summary for whole modelled period

Junction	Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	A	17.10	7.5	C	1240	1860
	B	6.15	0.1	A	13	19
	C	10.63	3.8	B	1008	1512
	D	8.34	1.3	A	409	613
2	A	4.72	1.3	A	745	1118
	B	5.13	1.9	A	986	1479
	C	6.31	0.3	A	96	145

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1026	257	121	1021	1009	1058	0.0	2.7	8.315	A
	B	10	2	1134	10	12	8	0.0	0.0	4.283	A
	C	832	208	533	831	826	611	0.0	1.3	5.558	A
	D	327	82	850	330	337	515	0.0	0.5	5.349	A
2	A	609	152	7	609	600	833	0.0	0.8	4.006	A
	B	815	204	118	815	813	499	0.0	0.9	4.014	A
	C	81	20	760	81	81	173	0.0	0.1	4.405	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1222	306	144	1224	1220	1243	2.7	3.3	10.224	B
	B	13	3	1359	13	12	10	0.0	0.0	5.062	A
	C	971	243	636	966	972	735	1.3	2.3	6.920	A
	D	406	102	984	403	397	618	0.5	0.9	6.153	A
2	A	732	183	9	734	727	971	0.8	0.9	4.269	A
	B	949	237	152	951	958	591	0.9	1.2	4.494	A
	C	95	24	886	94	91	216	0.1	0.2	5.154	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1486	372	177	1472	1486	1530	3.3	7.5	15.621	C
	B	15	4	1637	15	14	12	0.0	0.0	6.153	A
	C	1201	300	758	1208	1186	894	2.3	3.1	9.858	A
	D	490	123	1217	489	488	749	0.9	1.3	8.042	A
2	A	896	224	11	896	898	1194	0.9	1.2	4.693	A
	B	1166	292	183	1168	1164	725	1.2	1.5	4.981	A
	C	111	28	1095	110	110	257	0.2	0.2	6.081	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1493	373	181	1494	1506	1545	7.5	7.0	17.095	C
	B	16	4	1663	15	16	13	0.0	0.1	6.130	A
	C	1211	303	778	1202	1204	900	3.1	3.8	10.634	B
	D	495	124	1232	494	497	748	1.3	1.2	8.338	A
2	A	900	225	9	903	904	1221	1.2	1.3	4.722	A
	B	1195	299	175	1193	1185	736	1.5	1.9	5.129	A
	C	113	28	1117	113	114	251	0.2	0.3	6.313	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1197	299	144	1201	1240	1260	7.0	3.5	10.742	B
	B	13	3	1334	14	13	11	0.1	0.0	4.978	A
	C	1001	250	627	996	1004	720	3.8	2.3	7.441	A
	D	398	99	1006	397	401	617	1.2	0.9	6.764	A
2	A	719	180	10	717	742	999	1.3	0.9	4.322	A
	B	977	244	141	975	977	585	1.9	1.4	4.424	A
	C	98	24	911	98	94	206	0.3	0.1	5.412	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1015	254	120	1016	1028	1057	3.5	2.5	8.643	A
	B	9	2	1127	9	10	9	0.0	0.0	4.357	A
	C	833	208	519	832	828	617	2.3	1.5	5.804	A
	D	338	84	838	340	339	513	0.9	0.4	5.700	A
2	A	615	154	7	616	614	833	0.9	0.7	4.009	A
	B	814	203	120	811	806	502	1.4	0.9	3.983	A
	C	82	21	758	82	79	174	0.1	0.2	4.441	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

07:45 - 08:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	289	675	0.428	290	283	0.0	0.6	7.542	A
				2	C, D	374	675	0.555	373	373	0.0	0.8	7.824	A
				3	A, D	362	675	0.536	358	354	0.0	1.1	8.552	A
			2	1	(B, C)	260			260	256	0.0	0.0	0.111	A
				2	(A, C, D)	767			765	763	0.0	0.2	0.374	A
			3	1	((A, B, C, D))	1026			1026	1020	0.0	0.0	0.000	A
	B	Exit	1	1		1058			1058	1058	0.0	0.0	0.000	A
		Entry	1	1	B, A, C, D	10	890	0.011	10	12	0.0	0.0	4.263	A
	C	Exit	1	1		8			8	8	0.0	0.0	0.000	A
			1	1										
		Entry	1	1	A, D	458	936	0.489	457	457	0.0	0.8	5.732	A
			2	1	(A, B, C, D)	832			832	831	0.0	0.0	0.000	A
2	A	Exit	1	1		611			611	605	0.0	0.0	0.000	A
			1	1										
		Entry	1	1	B, A, C	255	924	0.276	258	267	0.0	0.4	5.572	A
			2	1	C, D	72	924	0.077	72	69	0.0	0.1	4.456	A
	B	Exit	1	1		515			515	513	0.0	0.0	0.000	A
			1	1										
		Entry	1	1	B	262	1099	0.239	262	259	0.0	0.3	3.810	A
			2	1	(B, C, A)	609			609	603	0.0	0.0	0.000	A
	C	Exit	1	1		833			833	833	0.0	0.0	0.000	A
			1	1										
		Entry	1	1	C, A	425	1139	0.373	426	421	0.0	0.4	4.096	A
			2	1	(B, C, A)	815			815	816	0.0	0.0	0.000	A
3	A	Exit	1	1		499			499	489	0.0	0.0	0.000	A
			1	1										
		Entry	1	1	B, C, A	81	1081	0.075	81	81	0.0	0.1	4.405	A
			2	1		173			173	173	0.0	0.0	0.000	A

08:00 - 08:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	356	670	0.531	353	355	0.6	1.0	8.315	A
				2	C, D	450	670	0.672	450	444	0.8	1.1	9.040	A
				3	A, D	416	670	0.621	421	421	1.1	0.9	9.890	A
			2	1	(B, C)	330			330	331	0.0	0.0	0.380	A
				2	(A, C, D)	892			891	891	0.2	0.3	1.358	A
			3	1	((A, B, C, D))	1222			1222	1222	0.0	0.0	0.000	A
		Exit	1	1		1243			1243	1238	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	13	757	0.017	13	12	0.0	0.0	5.062	A
		Exit	1	1		10			10	11	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	526	898	0.586	523	528	0.8	1.3	7.353	A
				2	B, A, C	445	898	0.495	443	444	0.5	0.9	6.423	A
			2	1	(A, B, C, D)	971			971	976	0.0	0.0	0.000	A
		Exit	1	1		735			735	732	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	315	874	0.361	314	310	0.4	0.7	6.523	A
				2	C, D	91	874	0.104	89	87	0.1	0.2	4.798	A
		Exit	1	1		618			618	620	0.0	0.0	0.000	A
2	A	Entry	1	1	B	326	1098	0.296	325	320	0.3	0.4	3.977	A
				2	B, C, A	407	1098	0.371	409	407	0.4	0.5	4.504	A
			2	1	(B, C, A)	732			732	728	0.0	0.0	0.000	A
		Exit	1	1		971			971	976	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	491	1125	0.436	491	495	0.4	0.6	4.544	A
				2	B, A	458	1125	0.407	460	462	0.5	0.6	4.441	A
			2	1	(B, C, A)	949			949	959	0.0	0.0	0.000	A
		Exit	1	1		591			591	588	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	95	1002	0.094	94	91	0.1	0.2	5.154	A
		Exit	1	1		216			216	211	0.0	0.0	0.000	A

08:15 - 08:30

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	446	663	0.673	449	449	1.0	1.2	10.122	B
				2	C, D	521	663	0.786	523	529	1.1	1.6	11.079	B
				3	A, D	502	663	0.757	500	507	0.9	2.0	12.099	B
			2	1	(B, C)	484			483	474	0.0	0.3	1.563	A
				2	(A, C, D)	1000			988	1019	0.3	2.3	5.606	A
			3	1	((A, B, C, D))	1486			1484	1502	0.0	0.1	0.114	A
		Exit	1	1		1530			1530	1514	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	15	592	0.025	15	14	0.0	0.0	6.153	A
		Exit	1	1		12			12	13	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	629	854	0.736	634	627	1.3	1.6	10.380	B
				2	B, A, C	572	854	0.670	574	558	0.9	1.4	9.293	A
			2	1	(A, B, C, D)	1201			1201	1189	0.0	0.0	0.000	A
		Exit	1	1		894			894	899	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	377	786	0.480	376	375	0.7	1.1	8.747	A
				2	C, D	113	786	0.144	113	113	0.2	0.2	5.619	A
		Exit	1	1		749			749	748	0.0	0.0	0.000	A
2	A	Entry	1	1	B	397	1097	0.362	396	398	0.4	0.5	4.392	A
				2	B, C, A	499	1097	0.455	501	500	0.5	0.7	4.940	A
			2	1	(B, C, A)	896			896	899	0.0	0.0	0.000	A
		Exit	1	1		1194			1194	1188	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	600	1113	0.539	602	598	0.6	0.7	5.032	A
				2	B, A	566	1113	0.509	567	565	0.6	0.8	4.927	A
			2	1	(B, C, A)	1166			1166	1165	0.0	0.0	0.000	A
		Exit	1	1		725			725	729	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	111	873	0.127	110	110	0.2	0.2	6.081	A
		Exit	1	1		257			257	255	0.0	0.0	0.000	A

08:30 - 08:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	448	662	0.678	449	450	1.2	1.4	10.668	B
				2	C, D	536	662	0.810	536	532	1.6	1.7	11.384	B
				3	A, D	511	662	0.772	509	524	2.0	1.9	12.235	B
		Entry	2	1	(B, C)	483			485	493	0.3	0.1	2.001	A
				2	(A, C, D)	1012			1010	1013	2.3	1.9	6.973	A
		Exit	1	1	((A, B, C, D))	1493			1495	1504	0.1	0.0	0.305	A
				1		1545			1545	1552	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	16	576	0.027	15	16	0.0	0.1	6.130	A
		Exit	1	1		13			13	13	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	640	847	0.756	637	631	1.6	2.0	11.174	B
				2	B, A, C	571	847	0.674	566	573	1.4	1.8	10.053	B
		Exit	1	1	(A, B, C, D)	1211			1211	1207	0.0	0.0	0.002	A
				1		900			900	906	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	380	780	0.487	380	380	1.1	1.0	9.011	A
				2	C, D	116	780	0.148	114	116	0.2	0.3	6.068	A
	Exit	1	1	1		748			748	752	0.0	0.0	0.000	A
				1										
2	A	Entry	1	1	B	402	1098	0.366	403	405	0.5	0.5	4.461	A
				2	B, C, A	499	1098	0.454	500	499	0.7	0.7	4.938	A
		Exit	1	1	(B, C, A)	900			900	904	0.0	0.0	0.000	A
				1		1221			1221	1210	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	611	1116	0.548	609	607	0.7	1.0	5.194	A
				2	B, A	584	1116	0.523	584	578	0.8	0.9	5.061	A
		Exit	1	1	(B, C, A)	1195			1195	1187	0.0	0.0	0.000	A
				1		736			736	737	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	113	859	0.131	113	114	0.2	0.3	6.313	A
		Exit	1	1		251			251	256	0.0	0.0	0.000	A

08:45 - 09:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	351	670	0.523	351	383	1.4	1.0	8.617	A
				2	C, D	438	670	0.651	438	446	1.7	1.2	9.317	A
				3	A, D	411	670	0.614	413	431	1.9	1.0	10.102	B
			2	1	(B, C)	319			319	338	0.1	0.0	0.518	A
				2	(A, C, D)	878			879	895	1.9	0.3	1.733	A
			3	1	((A, B, C, D))	1197			1197	1227	0.0	0.0	0.001	A
		Exit	1	1		1280			1280	1280	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	13	772	0.017	14	13	0.1	0.0	4.978	A
		Exit	1	1		11			11	10	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	538	902	0.596	537	542	2.0	1.2	7.760	A
				2	B, A, C	464	902	0.514	459	462	1.8	1.1	7.076	A
			2	1	(A, B, C, D)	1001			1001	998	0.0	0.0	0.000	A
		Exit	1	1		720			720	740	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	311	885	0.359	310	313	1.0	0.8	7.283	A
				2	C, D	87	885	0.100	87	88	0.3	0.1	4.888	A
		Exit	1	1		617			617	629	0.0	0.0	0.000	A
2	A	Entry	1	1	B	320	1098	0.292	319	328	0.5	0.4	4.052	A
				2	B, C, A	399	1098	0.363	397	413	0.7	0.5	4.543	A
			2	1	(B, C, A)	719			719	740	0.0	0.0	0.000	A
		Exit	1	1		999			999	996	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	498	1130	0.441	498	500	1.0	0.7	4.534	A
				2	B, A	479	1130	0.424	477	477	0.9	0.7	4.307	A
			2	1	(B, C, A)	977			977	975	0.0	0.0	0.000	A
		Exit	1	1		585			585	607	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	98	987	0.099	98	94	0.3	0.1	5.412	A
		Exit	1	1		206			206	210	0.0	0.0	0.000	A

09:00 - 09:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	291	675	0.431	292	294	1.0	0.6	7.776	A
				2	C, D	377	675	0.559	375	379	1.2	1.0	8.111	A
				3	A, D	348	675	0.516	349	354	1.0	0.9	8.716	A
			2	1	(B, C)	255			255	259	0.0	0.0	0.161	A
				2	(A, C, D)	761			761	765	0.3	0.0	0.514	A
			3	1	((A, B, C, D))	1015			1015	1023	0.0	0.0	0.000	A
		Exit	1	1		1057			1057	1059	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	9	894	0.010	9	10	0.0	0.0	4.357	A
		Exit	1	1		9			9	9	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	452	941	0.480	450	449	1.2	0.9	6.223	A
				2	B, A, C	381	941	0.405	382	378	1.1	0.6	5.320	A
			2	1	(A, B, C, D)	833			833	825	0.0	0.0	0.000	A
		Exit	1	1		617			617	618	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	264	928	0.284	265	267	0.8	0.4	5.957	A
				2	C, D	74	928	0.080	74	72	0.1	0.1	4.719	A
		Exit	1	1		513			513	519	0.0	0.0	0.000	A
2	A	Entry	1	1	B	269	1099	0.245	270	269	0.4	0.2	3.773	A
				2	B, C, A	346	1099	0.315	346	345	0.5	0.5	4.197	A
			2	1	(B, C, A)	615			615	613	0.0	0.0	0.000	A
		Exit	1	1		833			833	824	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	421	1138	0.370	418	414	0.7	0.5	4.044	A
				2	B, A	393	1138	0.345	393	392	0.7	0.4	3.918	A
			2	1	(B, C, A)	814			814	804	0.0	0.0	0.000	A
		Exit	1	1		502			502	503	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	82	1082	0.076	82	79	0.1	0.2	4.441	A
		Exit	1	1		174			174	171	0.0	0.0	0.000	A

2026 Test Case, IP

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Junction 1 - Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm A - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Linked roundabouts	Junction 2	U-turns on linked arms may cause sporadic locking up of junctions and/or unreliable results.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	68.13	F
2	untitled	Standard Roundabout		A, B, C	5.07	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 Test Case	IP	ONE HOUR	12:45	14:15	15	✓

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

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	C	2	A	Simple (vertical queueing)	Normal	0	100.00	
2	A	1	C	Simple (vertical queueing)	Normal	0	100.00	

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	A		ONE HOUR	✓	1567	100.000
	B		ONE HOUR	✓	17	100.000
	C	✓				
	D		ONE HOUR	✓	1271	100.000
2	A	✓				
	B		ONE HOUR	✓	644	100.000
	C		ONE HOUR	✓	327	100.000

Origin-Destination Data

Junction 1

	To				
From	A	158	12	608	789
	B	5	0	0	12
	C	563	5	0	303
	D	894	3	372	2

Junction 2

		To		
From		A	B	C
	A	2	785	202
	B	600	0	44
	C	245	82	0

Junction 1

Junction 2

		To			
		A	B	C	D
From	A	0	0	5	5
	B	0	0	0	0
	C	5	0	0	15
	D	4	0	11	0

Results

	To			
From		A	B	C
	A	0	5	19
	B	6	0	0
	C	13	0	0

Results

Junction	Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	A	84.54	46.0	F	1430	2145
	B	12.41	0.1	B	15	23
	C	11.00	2.8	B	786	1179
	D	87.16	37.6	F	1171	1757
2	A	5.61	1.8	A	890	1336
	B	4.19	1.0	A	595	893
	C	5.21	0.6	A	302	453

Main Results for each time segment

12:45 - 13:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1173	293	295	1174	1162	1210	0.0	3.4	10.598	B
	B	12	3	1452	12	14	17	0.0	0.0	5.021	A
	C	637	159	726	640	634	738	0.0	1.2	6.155	A
	D	969	242	536	968	952	831	0.0	2.7	9.378	A
2	A	738	184	63	740	725	635	0.0	0.9	4.473	A
	B	486	122	150	484	483	653	0.0	0.7	3.780	A
	C	248	62	452	247	248	182	0.0	0.4	3.806	A

13:00 - 13:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1399	350	336	1411	1391	1458	3.4	6.3	16.227	C
	B	16	4	1727	16	14	20	0.0	0.0	7.030	A
	C	775	194	874	776	763	869	1.2	1.8	7.310	A
	D	1156	289	653	1141	1132	996	2.7	5.6	14.795	B
2	A	873	218	72	873	869	777	0.9	1.1	4.804	A
	B	588	147	187	588	581	758	0.7	0.7	3.840	A
	C	298	74	551	298	296	225	0.4	0.4	4.334	A

13:15 - 13:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1712	428	423	1656	1627	1695	6.3	30.8	46.961	E
	B	18	5	2058	18	17	21	0.0	0.1	9.657	A
	C	938	235	1029	942	925	1047	1.8	2.5	10.111	B
	D	1415	354	775	1343	1326	1196	5.6	24.3	45.973	E
2	A	1047	262	91	1049	1049	937	1.1	1.4	5.452	A
	B	718	179	210	717	709	930	0.7	1.0	4.117	A
	C	358	89	671	358	352	256	0.4	0.6	5.068	A

13:30 - 13:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1732	433	421	1664	1661	1710	30.8	46.0	84.540	F
	B	19	5	2061	19	19	23	0.1	0.1	12.409	B
	C	954	238	1029	954	938	1052	2.5	2.8	10.997	B
	D	1401	350	788	1343	1345	1194	24.3	37.6	87.158	F
2	A	1048	262	88	1047	1052	944	1.4	1.8	5.609	A
	B	716	179	217	714	708	919	1.0	1.0	4.185	A
	C	367	92	668	364	362	263	0.6	0.6	5.215	A

13:45 - 14:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1387	347	346	1472	1541	1531	46.0	10.4	52.709	F
	B	15	4	1799	15	16	19	0.1	0.0	9.906	A
	C	766	191	913	772	775	901	2.8	1.5	8.260	A
	D	1153	288	652	1225	1251	1033	37.6	12.7	65.452	F
2	A	900	225	75	902	928	781	1.8	1.1	5.161	A
	B	577	144	188	577	584	790	1.0	0.6	3.916	A
	C	294	74	541	295	296	224	0.6	0.3	4.279	A

14:00 - 14:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1178	294	289	1178	1211	1215	10.4	3.4	12.375	B
	B	12	3	1432	12	12	15	0.0	0.0	6.116	A
	C	644	161	718	647	644	726	1.5	1.0	6.415	A
	D	935	234	540	944	984	825	12.7	2.5	15.849	C
2	A	736	184	60	736	749	644	1.1	0.9	4.558	A
	B	487	122	155	489	487	640	0.6	0.4	3.683	A
	C	248	62	456	248	245	188	0.3	0.4	4.020	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

12:45 - 13:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	304	637	0.477	303	301	0.0	0.8	8.541	A
				2	C, D	449	637	0.705	450	440	0.0	1.2	9.762	A
				3	A, D	420	637	0.659	421	421	0.0	1.2	10.158	B
			2	1	(B, C)	253			252	255	0.0	0.0	0.272	A
				2	(A, C, D)	920			920	919	0.0	0.2	1.196	A
			3	1	((A, B, C, D))	1173			1173	1175	0.0	0.0	0.000	A
	B	Exit	1	1		1210			1210	1202	0.0	0.0	0.000	A
			1	1	B, A, C, D	12	702	0.018	12	14	0.0	0.0	5.021	A
	C	Entry	1	1	A, D	386	866	0.446	389	384	0.0	0.8	6.803	A
				2	B, A, C	251	866	0.290	251	249	0.0	0.4	5.204	A
			2	1	(A, B, C, D)	637			637	638	0.0	0.0	0.000	A
				1		738			738	725	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	739	1042	0.710	739	731	0.0	2.4	10.733	B
				2	C, D	230	1042	0.221	230	220	0.0	0.3	4.561	A
		Exit	1	1		831			831	819	0.0	0.0	0.000	A
2	A	Entry	1	1	B	324	1077	0.301	325	318	0.0	0.4	4.169	A
				2	B, C, A	414	1077	0.384	415	407	0.0	0.5	4.719	A
			2	1	(B, C, A)	738			738	729	0.0	0.0	0.000	A
		Exit	1	1		635			635	635	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	253	1126	0.225	252	254	0.0	0.3	3.828	A
				2	B, A	233	1126	0.207	232	230	0.0	0.4	3.727	A
			2	1	(B, C, A)	486			486	486	0.0	0.0	0.000	A
		Exit	1	1		653			653	640	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	248	1272	0.195	247	248	0.0	0.4	3.806	A
				1		182			182	181	0.0	0.0	0.000	A

13:00 - 13:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	385	628	0.613	386	381	0.8	1.1	10.130	B
				2	C, D	510	628	0.811	512	507	1.2	1.8	12.243	B
				3	A, D	511	628	0.814	512	504	1.2	1.7	12.581	B
			2	1	(B, C)	363			364	356	0.0	0.1	1.148	A
				2	(A, C, D)	1037			1041	1040	0.2	1.6	5.402	A
			3	1	((A, B, C, D))	1399			1399	1403	0.0	0.0	0.096	A
		Exit	1	1		1458			1458	1439	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	16	538	0.030	16	14	0.0	0.0	7.030	A
		Exit	1	1		20			20	18	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	462	812	0.569	461	453	0.8	1.3	8.036	A
				2	B, A, C	313	812	0.386	315	310	0.4	0.5	6.300	A
			2	1	(A, B, C, D)	775			775	765	0.0	0.0	0.000	A
		Exit	1	1		869			869	868	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	868	998	0.870	855	845	2.4	5.1	17.756	C
				2	C, D	287	998	0.288	287	287	0.3	0.5	5.467	A
		Exit	1	1		996			996	976	0.0	0.0	0.000	A
2	A	Entry	1	1	B	384	1074	0.358	385	384	0.4	0.5	4.540	A
				2	B, C, A	489	1074	0.455	488	485	0.5	0.6	5.021	A
			2	1	(B, C, A)	873			873	870	0.0	0.0	0.000	A
		Exit	1	1		777			777	766	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	308	1111	0.277	307	303	0.3	0.4	3.865	A
				2	B, A	280	1111	0.252	281	277	0.4	0.3	3.812	A
			2	1	(B, C, A)	588			588	581	0.0	0.0	0.000	A
		Exit	1	1		758			758	764	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	298	1210	0.246	298	296	0.4	0.4	4.334	A
		Exit	1	1		225			225	216	0.0	0.0	0.000	A

13:15 - 13:30

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	481	609	0.790	480	474	1.1	1.9	13.017	B
				2	C, D	580	609	0.952	582	574	1.8	2.5	15.225	C
				3	A, D	594	609	0.976	595	579	1.7	2.8	16.080	C
			2	1	(B, C)	607			608	576	0.1	0.7	4.236	A
				2	(A, C, D)	1055			1047	1061	1.6	12.0	29.407	D
			3	1	((A, B, C, D))	1712			1662	1682	0.0	10.9	10.830	B
		Exit	1	1		1695			1695	1671	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	18	341	0.053	18	17	0.0	0.1	9.657	A
		Exit	1	1		21			21	20	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	538	755	0.713	541	529	1.3	1.7	11.493	B
				2	B, A, C	400	755	0.530	402	396	0.5	0.8	8.336	A
			2	1	(A, B, C, D)	938			938	928	0.0	0.0	0.010	A
		Exit	1	1		1047			1047	1047	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	1006	952	1.057	938	932	5.1	23.4	60.326	F
				2	C, D	408	952	0.429	405	394	0.5	0.9	7.089	A
		Exit	1	1		1196			1196	1158	0.0	0.0	0.000	A
2	A	Entry	1	1	B	474	1067	0.444	476	478	0.5	0.6	5.071	A
				2	B, C, A	573	1067	0.537	574	572	0.6	0.8	5.786	A
			2	1	(B, C, A)	1047			1047	1051	0.0	0.0	0.000	A
		Exit	1	1		938			937	925	0.0	0.0	0.007	A
	B	Entry	1	1	C, A	373	1102	0.338	373	371	0.4	0.5	4.140	A
				2	B, A	345	1102	0.313	344	338	0.3	0.5	4.086	A
			2	1	(B, C, A)	718			717	710	0.0	0.0	0.001	A
		Exit	1	1		930			930	924	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	358	1136	0.315	358	352	0.4	0.6	5.068	A
		Exit	1	1		256			256	261	0.0	0.0	0.000	A

13:30 - 13:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	486	610	0.797	487	487	1.9	1.9	13.532	B
				2	C, D	577	610	0.947	579	576	2.5	2.5	15.906	C
				3	A, D	598	610	0.982	599	598	2.8	2.9	16.784	C
			2	1	(B, C)	634			628	625	0.7	1.2	5.033	A
				2	(A, C, D)	1038			1034	1036	12.0	13.9	44.633	E
			3	1	((A, B, C, D))	1732			1672	1671	10.9	23.6	38.834	E
		Exit	1	1		1710			1710	1709	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	19	340	0.056	19	19	0.1	0.1	12.409	B
		Exit	1	1		23			23	21	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	547	755	0.725	546	532	1.7	1.8	12.440	B
				2	B, A, C	407	755	0.539	407	407	0.8	1.0	9.161	A
			2	1	(A, B, C, D)	954			954	940	0.0	0.0	0.025	A
		Exit	1	1		1052			1052	1055	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	991	947	1.047	935	937	23.4	36.7	117.819	F
				2	C, D	410	947	0.432	408	409	0.9	0.9	7.491	A
		Exit	1	1		1194			1194	1178	0.0	0.0	0.000	A
2	A	Entry	1	1	B	477	1068	0.447	477	480	0.6	0.8	5.197	A
				2	B, C, A	571	1068	0.534	570	572	0.8	1.0	5.969	A
			2	1	(B, C, A)	1048			1048	1053	0.0	0.0	0.000	A
		Exit	1	1		944			944	934	0.0	0.0	0.014	A
	B	Entry	1	1	C, A	367	1099	0.333	365	365	0.5	0.6	4.300	A
				2	B, A	349	1099	0.318	349	343	0.5	0.4	4.057	A
			2	1	(B, C, A)	716			716	708	0.0	0.0	0.004	A
		Exit	1	1		919			919	929	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	367	1138	0.322	364	362	0.6	0.6	5.215	A
		Exit	1	1		263			263	260	0.0	0.0	0.000	A

Junction 1 - 13:30 - 13:45

13:45 - 14:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	407	626	0.650	407	431	1.9	1.3	12.354	B
				2	C, D	536	626	0.856	539	550	2.5	1.8	14.065	B
				3	A, D	522	626	0.833	526	560	2.9	1.9	15.004	C
		2	1	1	(B, C)	424			428	494	1.2	0.1	3.992	A
				2	(A, C, D)	1003			1036	1038	13.9	3.2	27.758	D
		3	1	1	((A, B, C, D))	1387			1427	1485	23.6	2.0	20.240	C
		Exit	1	1		1531			1531	1570	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	15	496	0.030	15	16	0.1	0.0	9.906	A
		Exit	1	1		19			19	19	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	455	797	0.570	458	459	1.8	1.0	9.152	A
				2	B, A, C	311	797	0.390	314	316	1.0	0.4	7.038	A
		2	1	1	(A, B, C, D)	766			766	770	0.0	0.0	0.000	A
				2		901			901	924	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	841	998	0.842	914	928	36.7	12.2	86.824	F
				2	C, D	313	998	0.313	311	323	0.9	0.5	6.219	A
		Exit	1	1		1033			1033	1070	0.0	0.0	0.000	A
2	A	Entry	1	1	B	401	1073	0.373	403	415	0.8	0.4	4.841	A
				2	B, C, A	500	1073	0.466	499	513	1.0	0.7	5.432	A
		2	1	1	(B, C, A)	900			900	925	0.0	0.0	0.000	A
				1		761			761	768	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	298	1111	0.268	298	303	0.6	0.3	3.993	A
				2	B, A	279	1111	0.251	279	281	0.4	0.3	3.834	A
		2	1	1	(B, C, A)	577			577	582	0.0	0.0	0.000	A
				1		790			790	809	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	294	1217	0.242	295	296	0.6	0.3	4.279	A
		Exit	1	1		224			224	231	0.0	0.0	0.000	A

13:45 - 14:00

14:00 - 14:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	308	643	0.479	310	316	1.3	0.6	8.627	A
				2	C, D	444	643	0.691	444	458	1.8	1.2	10.077	B
				3	A, D	424	643	0.660	424	437	1.9	1.3	10.793	B
			2	1	(B, C)	254			254	275	0.1	0.0	0.528	A
				2	(A, C, D)	924			922	929	3.2	0.3	2.799	A
			3	1	((A, B, C, D))	1178			1178	1192	2.0	0.0	0.428	A
		Exit	1	1		1215			1215	1248	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	12	714	0.017	12	12	0.0	0.0	6.116	A
		Exit	1	1		15			15	15	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	388	889	0.445	389	389	1.0	0.7	7.099	A
				2	B, A, C	258	889	0.297	258	255	0.4	0.3	5.429	A
			2	1	(A, B, C, D)	644			644	642	0.0	0.0	0.000	A
		Exit	1	1		726			726	741	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	723	1040	0.696	732	760	12.2	2.2	19.194	C
				2	C, D	212	1040	0.204	212	225	0.5	0.3	4.519	A
		Exit	1	1		825			825	849	0.0	0.0	0.000	A
2	A	Entry	1	1	B	325	1079	0.302	326	332	0.4	0.3	4.229	A
				2	B, C, A	411	1079	0.381	410	417	0.7	0.6	4.833	A
			2	1	(B, C, A)	736			736	748	0.0	0.0	0.000	A
		Exit	1	1		644			644	639	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	256	1124	0.227	256	256	0.3	0.3	3.687	A
				2	B, A	232	1124	0.206	232	231	0.3	0.2	3.678	A
			2	1	(B, C, A)	487			487	486	0.0	0.0	0.000	A
		Exit	1	1		640			640	654	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	248	1269	0.195	248	245	0.3	0.4	4.020	A
		Exit	1	1		188			188	188	0.0	0.0	0.000	A

2026 Test Case, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Lane Simulation	A1 - [Lane Simulation]	This analysis set uses Lane Simulation mode. This is provided as an investigative tool and the user should apply judgement when interpreting the results.
Warning	Geometry	Junction 1 - Arm C - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm A - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Geometry	Junction 2 - Arm B - Roundabout Geometry	Effective flare length is over 30m, which is outside the normal range. Treat capacities with increasing caution.
Warning	Linked roundabouts	Junction 2	U-turns on linked arms may cause sporadic locking up of junctions and/or unreliable results.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	78.20	F
2	untitled	Standard Roundabout		A, B, C	5.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2026 Test Case	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

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	C	2	A	Simple (vertical queueing)	Normal	0	100.00	
2	A	1	C	Simple (vertical queueing)	Normal	0	100.00	

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	A		ONE HOUR	✓	1803	100.000
	B		ONE HOUR	✓	22	100.000
	C	✓				
	D		ONE HOUR	✓	993	100.000
2	A	✓				
	B		ONE HOUR	✓	858	100.000
	C		ONE HOUR	✓	248	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

		To			
		A	B	C	D
From	A	176	7	851	769
	B	2	0	1	19
	C	791	2	0	211
	D	758	5	229	1

Demand (PCU/hr)

Junction 2

		To		
		A	B	C
From	A	2	940	133
	B	826	0	32
	C	181	67	0

Vehicle Mix

Heavy Vehicle Percentages

Junction 1

		To			
		A	B	C	D
From	A	1	0	1	2
	B	0	0	0	0
	C	3	0	0	13
	D	2	0	10	0

Heavy Vehicle Percentages

Junction 2

		To		
		A	B	C
From	A	0	1	19
	B	4	0	6
	C	11	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	A	121.58	76.2	F	1653	2479
	B	13.30	0.1	B	20	30
	C	11.86	3.7	B	926	1389
	D	68.37	21.8	F	910	1365
2	A	5.43	1.7	A	983	1474
	B	4.33	1.2	A	789	1184
	C	5.55	0.6	A	226	338

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1363	341	176	1364	1338	1296	0.0	4.4	11.054	B
	B	17	4	1530	17	18	9	0.0	0.0	5.464	A
	C	751	188	739	752	745	808	0.0	1.2	6.064	A
	D	742	186	727	745	742	764	0.0	1.7	8.518	A
2	A	810	202	52	811	798	754	0.0	1.0	4.299	A
	B	643	161	102	642	638	761	0.0	0.7	3.729	A
	C	186	46	620	185	187	124	0.0	0.2	3.960	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1630	407	213	1628	1599	1561	4.4	8.8	17.824	C
	B	19	5	1826	19	19	14	0.0	0.0	7.657	A
	C	915	229	877	916	897	968	1.2	1.9	7.325	A
	D	888	222	887	886	880	906	1.7	3.8	13.235	B
2	A	969	242	57	969	961	917	1.0	1.3	4.722	A
	B	782	196	122	783	771	904	0.7	0.7	3.918	A
	C	218	55	757	217	215	148	0.2	0.3	4.470	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1982	495	262	1841	1834	1848	8.8	46.5	57.817	F
	B	25	6	2089	26	23	14	0.0	0.1	11.814	B
	C	1113	278	980	1114	1100	1135	1.9	3.6	11.041	B
	D	1096	274	1055	1055	1041	1040	3.8	16.1	38.063	E
2	A	1135	284	71	1139	1141	1113	1.3	1.6	5.343	A
	B	945	236	141	945	941	1089	0.7	1.2	4.252	A
	C	274	69	911	272	270	175	0.3	0.6	5.515	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1965	491	256	1865	1859	1865	46.5	76.2	121.580	F
	B	23	6	2107	23	23	14	0.1	0.1	13.299	B
	C	1118	279	995	1114	1109	1135	3.6	3.7	11.857	B
	D	1085	271	1056	1064	1065	1053	16.1	21.8	68.370	F
2	A	1136	284	73	1136	1131	1118	1.6	1.7	5.435	A
	B	956	239	142	958	949	1068	1.2	1.0	4.326	A
	C	268	67	923	268	269	177	0.6	0.4	5.551	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1624	406	212	1776	1813	1608	76.2	29.1	99.027	F
	B	20	5	1975	19	20	13	0.1	0.1	11.863	B
	C	901	225	965	899	912	1029	3.7	2.3	8.727	A
	D	894	223	893	927	962	971	21.8	5.9	41.677	E
2	A	1033	258	58	1035	1055	903	1.7	1.3	5.031	A
	B	764	191	129	764	771	984	1.0	0.9	3.961	A
	C	222	55	740	222	225	154	0.4	0.3	4.655	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Throughput (PCU/hr)	Average throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	1353	338	180	1368	1456	1317	29.1	4.7	23.160	C
	B	17	4	1537	17	17	10	0.1	0.0	7.297	A
	C	760	190	741	760	768	813	2.3	1.3	6.699	A
	D	756	189	742	755	768	759	5.9	2.0	11.133	B
2	A	813	203	49	813	846	760	1.3	1.0	4.462	A
	B	645	161	99	645	649	763	0.9	0.7	3.718	A
	C	186	47	624	186	187	120	0.3	0.3	4.004	A

Lane Results

Lane Level notation: Lane Level 1 is always closest to the junction.

Lanes: Main Results for each time segment

16:45 - 17:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	404	663	0.609	402	395	0.0	1.2	9.199	A
				2	C, D	504	663	0.760	505	498	0.0	1.5	9.967	A
				3	A, D	456	663	0.688	457	446	0.0	1.3	10.064	B
			2	1	(B, C)	358			358	359	0.0	0.1	0.677	A
				2	(A, C, D)	1004			1005	995	0.0	0.4	1.476	A
			3	1	((A, B, C, D))	1363			1363	1356	0.0	0.0	0.008	A
		Exit	1	1		1296			1296	1284	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	17	655	0.025	17	18	0.0	0.0	5.464	A
		Exit	1	1		9			9	10	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	418	861	0.485	418	410	0.0	0.7	6.426	A
				2	B, A, C	333	861	0.387	334	335	0.0	0.5	5.636	A
		Exit	1	1	(A, B, C, D)	751			751	750	0.0	0.0	0.000	A
				1		808			808	801	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	611	970	0.630	613	611	0.0	1.6	9.299	A
				2	C, D	131	970	0.135	132	131	0.0	0.2	4.589	A
		Exit	1	1		764			764	747	0.0	0.0	0.000	A
2	A	Entry	1	1	B	380	1082	0.351	380	373	0.0	0.4	4.123	A
				2	B, C, A	430	1082	0.397	430	425	0.0	0.5	4.458	A
			2	1	(B, C, A)	810			810	802	0.0	0.0	0.000	A
		Exit	1	1		754			754	751	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	329	1145	0.287	329	325	0.0	0.4	3.748	A
				2	B, A	314	1145	0.274	314	313	0.0	0.4	3.709	A
			2	1	(B, C, A)	643			643	640	0.0	0.0	0.000	A
		Exit	1	1		761			761	751	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	186	1167	0.159	185	187	0.0	0.2	3.980	A
		Exit	1	1		124			124	120	0.0	0.0	0.000	A

17:00 - 17:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	499	655	0.762	498	491	1.2	1.7	11.311	B
				2	C, D	579	655	0.884	579	573	1.5	2.1	12.462	B
				3	A, D	552	655	0.843	551	535	1.3	2.0	12.584	B
			2	1	(B, C)	533			533	518	0.1	0.4	2.678	A
				2	(A, C, D)	1097			1097	1088	0.4	2.5	6.893	A
			3	1	((A, B, C, D))	1630			1630	1616	0.0	0.1	0.120	A
		Exit	1	1		1561			1561	1534	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	19	479	0.039	19	19	0.0	0.0	7.657	A
		Exit	1	1		14			14	14	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	498	810	0.615	499	487	0.7	1.1	7.747	A
				2	B, A, C	417	810	0.515	417	410	0.5	0.9	6.843	A
			2	1	(A, B, C, D)	915			915	900	0.0	0.0	0.000	A
		Exit	1	1		968			968	961	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	715	910	0.785	712	707	1.6	3.5	15.080	C
				2	C, D	173	910	0.190	174	173	0.2	0.2	5.056	A
		Exit	1	1		906			906	886	0.0	0.0	0.000	A
2	A	Entry	1	1	B	459	1080	0.425	458	453	0.4	0.6	4.526	A
				2	B, C, A	510	1080	0.473	511	509	0.5	0.7	4.903	A
			2	1	(B, C, A)	969			969	963	0.0	0.0	0.000	A
		Exit	1	1		917			917	903	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	400	1137	0.352	401	392	0.4	0.4	3.956	A
				2	B, A	382	1137	0.336	382	379	0.4	0.4	3.879	A
			2	1	(B, C, A)	782			782	771	0.0	0.0	0.000	A
		Exit	1	1		904			904	896	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	218	1083	0.202	217	215	0.2	0.3	4.470	A
		Exit	1	1		148			148	149	0.0	0.0	0.000	A

Junction 9

17:15 - 17:30

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	589	644	0.915	589	585	1.7	2.4	14.305	B
				2	C, D	624	644	0.969	623	627	2.1	2.7	15.220	C
				3	A, D	629	644	0.976	629	621	2.0	2.9	15.410	C
			2	1	(B, C)	880			852	816	0.4	2.8	9.519	A
				2	(A, C, D)	1007			990	1026	2.5	14.4	37.114	E
			3	1	((A, B, C, D))	1982			1886	1899	0.1	21.4	17.215	C
		Exit	1	1		1848			1848	1823	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	25	323	0.079	26	23	0.0	0.1	11.814	B
		Exit	1	1		14			14	15	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	588	773	0.759	588	581	1.1	1.9	11.766	B
				2	B, A, C	526	773	0.681	526	519	0.9	1.7	10.256	B
			2	1	(A, B, C, D)	1113			1113	1107	0.0	0.0	0.002	A
		Exit	1	1		1135			1135	1142	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	853	847	1.007	811	803	3.5	15.6	46.354	E
				2	C, D	244	847	0.288	244	239	0.2	0.5	6.392	A
		Exit	1	1		1040			1040	1019	0.0	0.0	0.000	A
2	A	Entry	1	1	B	542	1074	0.504	543	545	0.6	0.8	5.155	A
				2	B, C, A	593	1074	0.552	596	596	0.7	0.9	5.522	A
			2	1	(B, C, A)	1135			1135	1142	0.0	0.0	0.000	A
		Exit	1	1		1113			1113	1107	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	481	1130	0.426	480	478	0.4	0.7	4.317	A
				2	B, A	464	1130	0.411	465	463	0.4	0.5	4.184	A
			2	1	(B, C, A)	945			945	943	0.0	0.0	0.000	A
		Exit	1	1		1069			1069	1068	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	274	987	0.278	272	270	0.3	0.6	5.515	A
		Exit	1	1		175			175	178	0.0	0.0	0.000	A

Source: Junctions 9

17:30 - 17:45

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	598	645	0.924	597	594	2.4	2.5	14.747	B
				2	C, D	633	645	0.981	633	628	2.7	2.8	15.749	C
				3	A, D	635	645	0.984	636	637	2.9	2.9	16.168	C
			2	1	(B, C)	862			872	867	2.8	2.5	11.812	B
				2	(A, C, D)	997			993	993	14.4	15.4	54.566	F
			3	1	((A, B, C, D))	1965			1858	1862	21.4	50.1	71.248	F
		Exit	1	1		1865			1865	1865	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	23	312	0.072	23	23	0.1	0.1	13.299	B
		Exit	1	1		14			14	14	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	590	767	0.769	589	586	1.9	2.1	12.557	B
				2	B, A, C	527	767	0.687	525	524	1.7	1.6	11.101	B
			2	1	(A, B, C, D)	1118			1118	1110	0.0	0.0	0.000	A
		Exit	1	1		1135			1135	1130	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	842	846	0.994	821	822	15.6	21.4	84.927	F
				2	C, D	243	846	0.287	243	243	0.5	0.5	6.670	A
		Exit	1	1		1053			1053	1048	0.0	0.0	0.000	A
2	A	Entry	1	1	B	542	1074	0.505	542	539	0.8	0.8	5.235	A
				2	B, C, A	594	1074	0.553	595	592	0.9	0.9	5.623	A
			2	1	(B, C, A)	1136			1136	1131	0.0	0.0	0.000	A
		Exit	1	1		1118			1118	1112	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	485	1129	0.430	487	480	0.7	0.5	4.384	A
				2	B, A	470	1129	0.416	471	469	0.5	0.5	4.266	A
			2	1	(B, C, A)	956			956	948	0.0	0.0	0.000	A
		Exit	1	1		1068			1068	1061	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	268	980	0.274	268	269	0.6	0.4	5.551	A
		Exit	1	1		177			177	175	0.0	0.0	0.000	A

17:30 - 17:45

17:45 - 18:00

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	552	655	0.843	554	566	2.5	2.0	14.116	B
				2	C, D	607	655	0.926	609	617	2.8	2.4	15.065	C
				3	A, D	611	655	0.933	614	629	2.9	2.4	15.208	C
		Entry	2	1	(B, C)	714			721	779	2.5	1.5	10.476	B
				2	(A, C, D)	1023			1049	1029	15.4	8.6	42.150	E
		Exit	1	1	((A, B, C, D))	1624			1737	1776	50.1	12.2	56.891	F
				1		1608			1608	1649	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	20	391	0.050	19	20	0.1	0.1	11.863	B
		Exit	1	1		13			13	15	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	487	778	0.626	485	493	2.1	1.3	9.241	A
				2	B, A, C	415	778	0.533	414	419	1.6	1.0	8.144	A
		Exit	1	1	(A, B, C, D)	901			901	907	0.0	0.0	0.000	A
				1		1029			1029	1050	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	714	908	0.787	747	774	21.4	5.6	50.537	F
				2	C, D	180	908	0.198	180	188	0.5	0.3	5.677	A
	Exit	1	1	1		971			971	993	0.0	0.0	0.000	A
				1										
2	A	Entry	1	1	B	488	1079	0.452	489	499	0.8	0.6	4.889	A
				2	B, C, A	545	1079	0.505	546	556	0.9	0.7	5.162	A
		Exit	1	1	(B, C, A)	1033			1033	1054	0.0	0.0	0.000	A
				1		903			903	910	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	385	1134	0.339	385	392	0.5	0.4	4.002	A
				2	B, A	379	1134	0.334	379	379	0.5	0.4	3.918	A
		Exit	1	1	(B, C, A)	764			764	770	0.0	0.0	0.000	A
				1		964			964	983	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	222	1093	0.203	222	225	0.4	0.3	4.655	A
		Exit	1	1		154			154	157	0.0	0.0	0.000	A

18:00 - 18:15

Junction	Arm	Side	Lane level	Lane	Destination arms	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Average throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	A	Entry	1	1	B, C	404	662	0.610	403	435	2.0	1.1	10.205	B
				2	C, D	505	662	0.763	505	530	2.4	1.5	11.161	B
				3	A, D	459	662	0.693	461	491	2.4	1.2	11.639	B
			2	1	(B, C)	367			367	439	1.5	0.2	3.217	A
				2	(A, C, D)	996			1001	1005	8.6	0.7	8.968	A
			3	1	((A, B, C, D))	1353			1363	1407	12.2	0.0	6.109	A
		Exit	1	1		1317			1317	1342	0.0	0.0	0.000	A
	B	Entry	1	1	B, A, C, D	17	651	0.026	17	17	0.1	0.0	7.297	A
		Exit	1	1		10			10	11	0.0	0.0	0.000	A
	C	Entry	1	1	A, D	417	880	0.484	417	421	1.3	0.7	7.067	A
				2	B, A, C	343	880	0.399	343	345	1.0	0.6	6.266	A
			2	1	(A, B, C, D)	760			760	762	0.0	0.0	0.000	A
		Exit	1	1		813			813	843	0.0	0.0	0.000	A
	D	Entry	1	1	B, A, C	620	964	0.643	618	631	5.6	1.9	12.492	B
				2	C, D	136	964	0.141	137	137	0.3	0.1	4.581	A
		Exit	1	1		759			759	811	0.0	0.0	0.000	A
2	A	Entry	1	1	B	378	1083	0.349	378	394	0.6	0.4	4.345	A
				2	B, C, A	435	1083	0.402	435	452	0.7	0.6	4.568	A
			2	1	(B, C, A)	813			813	845	0.0	0.0	0.000	A
		Exit	1	1		760			760	764	0.0	0.0	0.000	A
	B	Entry	1	1	C, A	330	1147	0.288	330	330	0.4	0.4	3.763	A
				2	B, A	315	1147	0.274	315	319	0.4	0.4	3.671	A
			2	1	(B, C, A)	645			645	649	0.0	0.0	0.000	A
		Exit	1	1		763			763	791	0.0	0.0	0.000	A
	C	Entry	1	1	B, C, A	186	1165	0.160	186	187	0.3	0.3	4.004	A
		Exit	1	1		120			120	127	0.0	0.0	0.000	A