

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.1.7462
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Filename: Mill.EPR. Blackbrook. Capesthorne Rd Rbt Opt A.j9

Path: C:\Users\Brad\Highgate Transportation\HTp - Documents\1900 - Projects\1901 - Peel Hall\ModellingJunctions 9\Mill Lane. Enfield Park Road. Blackbrook Avenue. Capesthorne Road Roundabout

Report generation date: 30/01/2020 16:01:52

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
2018 Validation										
Arm 1	D1	0.4	3.23	0.29	A	D9	0.3	2.98	0.26	A
Arm 2		0.3	4.71	0.21	A		0.4	4.99	0.27	A
Arm 3		0.4	3.50	0.29	A		0.3	3.32	0.25	A
Arm 4		0.3	3.12	0.25	A		0.3	3.03	0.21	A
2022 Do Minimum										
Arm 1	D2	0.5	3.55	0.35	A	D10	0.4	3.09	0.27	A
Arm 2		0.3	4.88	0.22	A		0.4	5.24	0.30	A
Arm 3		0.5	3.75	0.32	A		0.4	3.49	0.28	A
Arm 4		0.4	3.24	0.27	A		0.3	3.11	0.23	A
2022 Do Something										
Arm 1	D3	0.6	3.65	0.36	A	D11	0.4	3.15	0.29	A
Arm 2		0.3	4.92	0.22	A		0.4	5.32	0.30	A
Arm 3		0.5	3.79	0.33	A		0.4	3.61	0.30	A
Arm 4		0.4	3.29	0.28	A		0.3	3.14	0.24	A

2022 Do Something Full										
Arm 1	D4	1.4	5.76	0.59	A	D12	0.8	4.01	0.43	A
Arm 2		0.4	5.96	0.27	A		0.6	6.18	0.36	A
Arm 3		0.7	4.79	0.42	A		1.1	5.74	0.52	A
Arm 4		0.6	4.06	0.39	A		0.6	4.02	0.36	A
2027 Do Minimum										
Arm 1	D5	0.6	3.78	0.38	A	D13	0.4	3.24	0.30	A
Arm 2		0.3	5.16	0.25	A		0.5	5.47	0.32	A
Arm 3		0.5	3.95	0.34	A		0.5	3.73	0.32	A
Arm 4		0.4	3.40	0.30	A		0.4	3.25	0.27	A
2027 Do Something										
Arm 1	D6	1.0	4.83	0.51	A	D14	0.6	3.86	0.39	A
Arm 2		0.4	5.83	0.29	A		0.6	6.37	0.39	A
Arm 3		0.7	4.56	0.40	A		1.0	5.32	0.49	A
Arm 4		0.6	3.83	0.37	A		0.6	4.03	0.39	A
2032 Do Minimum										
Arm 1	D7	0.7	4.10	0.42	A	D15	0.5	3.38	0.32	A
Arm 2		0.4	5.46	0.28	A		0.5	5.70	0.34	A
Arm 3		0.6	4.27	0.38	A		0.5	3.98	0.35	A
Arm 4		0.5	3.59	0.33	A		0.4	3.41	0.30	A
2032 Do Something Full										
Arm 1	D8	4.3	15.52	0.82	C	D16	0.9	4.46	0.48	A
Arm 2		0.8	8.21	0.46	A		0.6	6.57	0.39	A
Arm 3		2.7	11.13	0.73	B		1.6	7.27	0.62	A
Arm 4		1.5	7.08	0.60	A		0.8	4.69	0.45	A

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

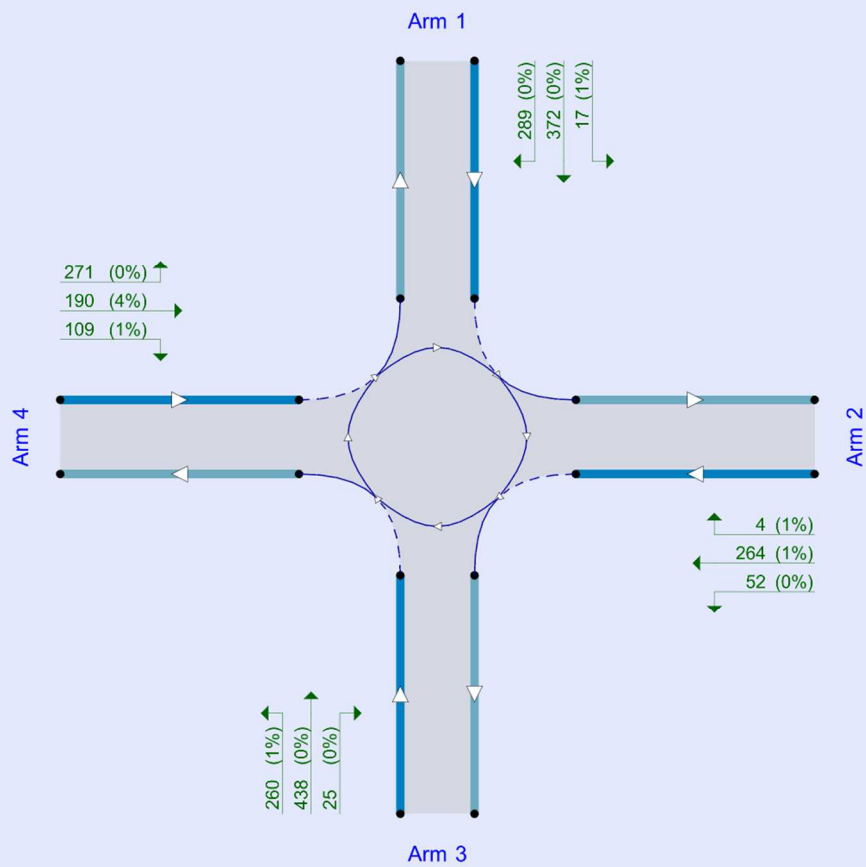
File summary

File Description

Title	
Location	
Site number	
Date	28/01/2020
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AzureAD\Brad
Description	

Units

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



Flows show original traffic demand (Veh/hr).

The junction diagram reflects the last run of Junctions.

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2018 Validation	AM	ONE HOUR	07:45	09:15	15	✓
D2	2022 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D3	2022 Do Something	AM	ONE HOUR	07:45	09:15	15	✓
D4	2022 Do Something Full	AM	ONE HOUR	07:45	09:15	15	✓
D5	2027 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D6	2027 Do Something	AM	ONE HOUR	07:45	09:15	15	✓
D7	2032 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D8	2032 Do Something Full	AM	ONE HOUR	07:45	09:15	15	✓
D9	2018 Validation	PM	ONE HOUR	16:45	18:15	15	✓
D10	2022 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓
D11	2022 Do Something	PM	ONE HOUR	16:45	18:15	15	✓
D12	2022 Do Something Full	PM	ONE HOUR	16:45	18:15	15	✓
D13	2027 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓
D14	2027 Do Something	PM	ONE HOUR	16:45	18:15	15	✓
D15	2032 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓
D16	2032 Do Something Full	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2018 Validation, 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	3.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	Blackbrook Avenue (N)	
2	Enfield Park Road	
3	Blackbrook Avenue (S)	
4	Capesthorne Road	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.90	8.70	15.3	27.4	39.5	51.8	
2	3.50	7.40	19.7	3.0	89.6	49.7	
3	3.80	7.90	15.6	16.7	39.5	51.4	
4	3.70	7.10	21.3	51.3	39.5	47.5	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.642	1788
2	0.307	1168
3	0.612	1673
4	0.643	1747

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 segment length (min)	Run automatically
D1	2018 Validation	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	417	100.000
2		ONE HOUR	✓	179	100.000
3		ONE HOUR	✓	382	100.000
4		ONE HOUR	✓	341	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	13	242	162
	2	4	0	35	140
	3	231	43	0	108
	4	96	174	71	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	1	0
	2	1	0	0	6
	3	0	0	0	3
	4	0	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.29	3.23	0.4	A	383	574
2	0.21	4.71	0.3	A	164	246
3	0.29	3.50	0.4	A	351	526
4	0.25	3.12	0.3	A	313	469

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	314	78	216	1637	0.192	313	248	0.0	0.2	2.718	A
2	135	34	357	1010	0.133	134	173	0.0	0.2	4.107	A
3	288	72	230	1516	0.190	287	261	0.0	0.2	2.928	A
4	257	64	209	1589	0.162	256	308	0.0	0.2	2.699	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	375	94	259	1609	0.233	375	297	0.2	0.3	2.915	A
2	161	40	427	989	0.163	161	207	0.2	0.2	4.342	A
3	343	86	275	1487	0.231	343	313	0.2	0.3	3.146	A
4	307	77	250	1563	0.196	306	368	0.2	0.2	2.865	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	115	317	1572	0.292	459	364	0.3	0.4	3.232	A
2	197	49	523	961	0.205	197	253	0.2	0.3	4.708	A
3	421	105	337	1449	0.290	420	383	0.3	0.4	3.497	A
4	375	94	306	1527	0.246	375	451	0.2	0.3	3.124	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	115	317	1572	0.292	459	364	0.4	0.4	3.235	A
2	197	49	523	961	0.205	197	253	0.3	0.3	4.711	A
3	421	105	337	1449	0.290	421	383	0.4	0.4	3.500	A
4	375	94	306	1527	0.246	375	451	0.3	0.3	3.125	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	375	94	259	1609	0.233	375	298	0.4	0.3	2.920	A
2	161	40	427	989	0.163	161	207	0.3	0.2	4.348	A
3	343	86	275	1487	0.231	344	313	0.4	0.3	3.149	A
4	307	77	250	1562	0.196	307	369	0.3	0.2	2.869	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	314	78	217	1637	0.192	314	249	0.3	0.2	2.724	A
2	135	34	358	1010	0.133	135	173	0.2	0.2	4.117	A
3	288	72	231	1515	0.190	288	262	0.3	0.2	2.935	A
4	257	64	209	1588	0.162	257	309	0.2	0.2	2.706	A

2022 Do Minimum, 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	3.70	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	492	100.000
2		ONE HOUR	✓	186	100.000
3		ONE HOUR	✓	413	100.000
4		ONE HOUR	✓	371	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	14	260	218
	2	4	0	41	141
	3	246	49	0	118
	4	107	206	58	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	1	1	0
2	2	0	0	6
3	0	0	0	2
4	0	2	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.35	3.55	0.5	A	451	677
2	0.22	4.88	0.3	A	171	256
3	0.32	3.75	0.5	A	379	568
4	0.27	3.24	0.4	A	340	511

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	370	93	235	1627	0.228	369	268	0.0	0.3	2.860	A
2	140	35	402	998	0.140	139	202	0.0	0.2	4.191	A
3	311	78	272	1494	0.208	310	269	0.0	0.3	3.038	A
4	279	70	224	1585	0.176	278	358	0.0	0.2	2.753	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	442	111	281	1597	0.277	442	321	0.3	0.4	3.117	A
2	167	42	481	975	0.172	167	242	0.2	0.2	4.457	A
3	371	93	326	1460	0.254	371	322	0.3	0.3	3.304	A
4	334	83	269	1557	0.214	333	428	0.2	0.3	2.941	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	542	135	344	1556	0.348	541	393	0.4	0.5	3.546	A
2	205	51	590	943	0.217	205	296	0.2	0.3	4.877	A
3	455	114	399	1415	0.321	454	395	0.3	0.5	3.746	A
4	408	102	329	1519	0.269	408	525	0.3	0.4	3.241	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	542	135	345	1556	0.348	542	393	0.5	0.5	3.549	A
2	205	51	590	943	0.217	205	296	0.3	0.3	4.879	A
3	455	114	400	1414	0.321	455	395	0.5	0.5	3.750	A
4	408	102	329	1519	0.269	408	525	0.4	0.4	3.241	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	442	111	282	1596	0.277	443	321	0.5	0.4	3.124	A
2	167	42	482	974	0.172	167	242	0.3	0.2	4.463	A
3	371	93	327	1460	0.254	372	323	0.5	0.3	3.312	A
4	334	83	269	1557	0.214	334	429	0.4	0.3	2.946	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	370	93	236	1626	0.228	371	269	0.4	0.3	2.870	A
2	140	35	404	997	0.140	140	203	0.2	0.2	4.202	A
3	311	78	274	1493	0.208	311	271	0.3	0.3	3.048	A
4	279	70	225	1585	0.176	280	359	0.3	0.2	2.758	A

2022 Do Something, 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	3.76	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2022 Do Something	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	513	100.000
2		ONE HOUR	✓	185	100.000
3		ONE HOUR	✓	417	100.000
4		ONE HOUR	✓	384	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	14	270	229
	2	4	0	41	140
	3	251	49	0	117
	4	114	210	60	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	1	0
	2	1	0	0	6
	3	0	0	0	2
	4	0	2	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.36	3.65	0.6	A	471	706
2	0.22	4.92	0.3	A	170	255
3	0.33	3.79	0.5	A	383	574
4	0.28	3.29	0.4	A	352	529

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	386	97	239	1624	0.238	385	277	0.0	0.3	2.903	A
2	139	35	419	993	0.140	139	205	0.0	0.2	4.211	A
3	314	78	280	1489	0.211	313	278	0.0	0.3	3.057	A
4	289	72	228	1583	0.183	288	365	0.0	0.2	2.778	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	461	115	287	1593	0.289	461	331	0.3	0.4	3.179	A
2	166	42	502	969	0.172	166	245	0.2	0.2	4.484	A
3	375	94	335	1455	0.258	375	333	0.3	0.3	3.332	A
4	345	86	273	1555	0.222	345	437	0.2	0.3	2.975	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	141	351	1552	0.364	564	406	0.4	0.6	3.644	A
2	204	51	615	936	0.218	203	300	0.2	0.3	4.917	A
3	459	115	410	1408	0.326	459	408	0.3	0.5	3.789	A
4	423	106	334	1516	0.279	422	534	0.3	0.4	3.293	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	141	351	1551	0.364	565	406	0.6	0.6	3.648	A
2	204	51	615	935	0.218	204	301	0.3	0.3	4.920	A
3	459	115	411	1408	0.326	459	408	0.5	0.5	3.793	A
4	423	106	335	1515	0.279	423	535	0.4	0.4	3.293	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	461	115	287	1593	0.290	462	332	0.6	0.4	3.186	A
2	166	42	503	968	0.172	167	246	0.3	0.2	4.492	A
3	375	94	336	1455	0.258	375	334	0.5	0.3	3.336	A
4	345	86	274	1554	0.222	346	438	0.4	0.3	2.981	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	386	97	240	1623	0.238	387	278	0.4	0.3	2.911	A
2	139	35	421	993	0.140	139	206	0.2	0.2	4.220	A
3	314	78	281	1489	0.211	314	280	0.3	0.3	3.068	A
4	289	72	229	1583	0.183	289	366	0.3	0.2	2.785	A

2022 Do Something Full, 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	5.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2022 Do Something Full	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	825	100.000
2		ONE HOUR	✓	205	100.000
3		ONE HOUR	✓	493	100.000
4		ONE HOUR	✓	525	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
	1	2	3	4	
From	1	0	16	418	391
	2	6	0	51	148
	3	322	50	0	121
	4	220	203	102	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	1	0	0
	2	2	0	0	5
	3	0	0	0	2
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.59	5.76	1.4	A	757	1136
2	0.27	5.96	0.4	A	188	282
3	0.42	4.79	0.7	A	452	679
4	0.39	4.06	0.6	A	482	723

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	621	155	266	1615	0.385	619	411	0.0	0.6	3.605	A
2	154	39	683	924	0.167	154	202	0.0	0.2	4.667	A
3	371	93	409	1412	0.263	370	428	0.0	0.4	3.448	A
4	395	99	283	1550	0.255	394	495	0.0	0.3	3.109	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	742	185	319	1581	0.469	741	492	0.6	0.9	4.281	A
2	184	46	818	884	0.208	184	242	0.2	0.3	5.141	A
3	443	111	489	1363	0.325	443	513	0.4	0.5	3.912	A
4	472	118	339	1514	0.312	472	593	0.3	0.5	3.450	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	908	227	390	1534	0.592	906	602	0.9	1.4	5.712	A
2	226	56	1001	830	0.272	225	296	0.3	0.4	5.950	A
3	543	136	599	1295	0.419	542	627	0.5	0.7	4.774	A
4	578	145	415	1466	0.394	577	725	0.5	0.6	4.048	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	908	227	391	1534	0.592	908	603	1.4	1.4	5.756	A
2	226	56	1003	829	0.272	226	296	0.4	0.4	5.963	A
3	543	136	600	1294	0.419	543	629	0.7	0.7	4.790	A
4	578	145	416	1465	0.394	578	727	0.6	0.6	4.056	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	742	185	320	1580	0.469	744	494	1.4	0.9	4.318	A
2	184	46	821	883	0.209	185	242	0.4	0.3	5.159	A
3	443	111	491	1361	0.326	444	515	0.7	0.5	3.930	A
4	472	118	341	1514	0.312	473	595	0.6	0.5	3.463	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	621	155	268	1614	0.385	622	413	0.9	0.6	3.633	A
2	154	39	687	923	0.167	155	203	0.3	0.2	4.688	A
3	371	93	411	1411	0.263	372	431	0.5	0.4	3.467	A
4	395	99	285	1549	0.255	396	498	0.5	0.3	3.124	A

2027 Do Minimum, 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	3.91	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2027 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	531	100.000
2		ONE HOUR	✓	209	100.000
3		ONE HOUR	✓	432	100.000
4		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	14	267	250
	2	5	0	55	149
	3	260	52	0	120
	4	118	197	90	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	1	0
	2	3	0	0	5
	3	0	0	0	2
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.38	3.78	0.6	A	487	731
2	0.25	5.16	0.3	A	192	288
3	0.34	3.95	0.5	A	396	595
4	0.30	3.40	0.4	A	372	557

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	400	100	254	1614	0.248	398	287	0.0	0.3	2.959	A
2	157	39	455	991	0.159	157	197	0.0	0.2	4.310	A
3	325	81	303	1476	0.220	324	309	0.0	0.3	3.123	A
4	305	76	238	1575	0.194	304	389	0.0	0.2	2.830	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	119	305	1582	0.302	477	344	0.3	0.4	3.258	A
2	188	47	545	964	0.195	188	236	0.2	0.2	4.633	A
3	388	97	363	1439	0.270	388	370	0.3	0.4	3.426	A
4	364	91	285	1546	0.236	364	466	0.2	0.3	3.046	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	585	146	373	1538	0.380	584	421	0.4	0.6	3.774	A
2	230	58	668	928	0.248	230	289	0.2	0.3	5.154	A
3	476	119	444	1388	0.343	475	453	0.4	0.5	3.940	A
4	446	111	349	1505	0.296	445	571	0.3	0.4	3.395	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	585	146	373	1537	0.380	585	422	0.6	0.6	3.778	A
2	230	58	668	928	0.248	230	290	0.3	0.3	5.159	A
3	476	119	445	1388	0.343	476	454	0.5	0.5	3.946	A
4	446	111	349	1505	0.296	446	571	0.4	0.4	3.399	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	119	305	1581	0.302	478	345	0.6	0.4	3.264	A
2	188	47	546	964	0.195	188	237	0.3	0.2	4.642	A
3	388	97	364	1438	0.270	389	371	0.5	0.4	3.432	A
4	364	91	285	1545	0.236	365	467	0.4	0.3	3.049	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	400	100	255	1614	0.248	400	289	0.4	0.3	2.967	A
2	157	39	457	991	0.159	158	198	0.2	0.2	4.324	A
3	325	81	305	1475	0.221	326	311	0.4	0.3	3.135	A
4	305	76	239	1575	0.194	305	391	0.3	0.2	2.835	A

2027 Do Something, 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	4.62	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	2027 Do Something	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	699	100.000
2		ONE HOUR	✓	225	100.000
3		ONE HOUR	✓	487	100.000
4		ONE HOUR	✓	494	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	15	359	325
	2	7	0	55	163
	3	289	52	0	146
	4	164	213	117	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	1	0	0
2	2	0	0	5
3	0	0	0	2
4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.51	4.83	1.0	A	641	962
2	0.29	5.83	0.4	A	206	310
3	0.40	4.56	0.7	A	447	670
4	0.37	3.83	0.6	A	453	680

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	526	132	287	1601	0.329	524	345	0.0	0.5	3.336	A
2	169	42	601	948	0.179	169	210	0.0	0.2	4.613	A
3	367	92	371	1433	0.256	365	398	0.0	0.3	3.366	A
4	372	93	261	1562	0.238	371	475	0.0	0.3	3.019	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	628	157	343	1565	0.402	628	413	0.5	0.7	3.842	A
2	202	51	719	913	0.222	202	251	0.2	0.3	5.062	A
3	438	109	444	1388	0.315	437	477	0.3	0.5	3.784	A
4	444	111	313	1529	0.290	444	569	0.3	0.4	3.316	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	770	192	420	1515	0.508	768	506	0.7	1.0	4.814	A
2	248	62	880	865	0.286	247	308	0.3	0.4	5.821	A
3	536	134	544	1326	0.404	535	584	0.5	0.7	4.546	A
4	544	136	383	1485	0.366	543	697	0.4	0.6	3.821	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	770	192	421	1514	0.508	770	506	1.0	1.0	4.833	A
2	248	62	882	865	0.286	248	308	0.4	0.4	5.832	A
3	536	134	545	1326	0.404	536	585	0.7	0.7	4.559	A
4	544	136	383	1484	0.366	544	698	0.6	0.6	3.826	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	628	157	344	1564	0.402	630	414	1.0	0.7	3.858	A
2	202	51	722	912	0.222	203	252	0.4	0.3	5.077	A
3	438	109	446	1387	0.316	439	478	0.7	0.5	3.801	A
4	444	111	313	1529	0.290	445	571	0.6	0.4	3.322	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	526	132	288	1601	0.329	527	347	0.7	0.5	3.357	A
2	169	42	604	947	0.179	170	211	0.3	0.2	4.632	A
3	367	92	373	1432	0.256	367	400	0.5	0.3	3.381	A
4	372	93	262	1561	0.238	372	478	0.4	0.3	3.027	A

2032 Do Minimum, 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	4.20	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	2032 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	580	100.000
2		ONE HOUR	✓	227	100.000
3		ONE HOUR	✓	464	100.000
4		ONE HOUR	✓	443	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	15	282	283
	2	5	0	56	166
	3	275	58	0	131
	4	122	220	101	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	0	0
	2	2	0	0	5
	3	0	0	0	2
	4	0	2	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.42	4.10	0.7	A	532	798
2	0.28	5.46	0.4	A	208	312
3	0.38	4.27	0.6	A	426	639
4	0.33	3.59	0.5	A	407	610

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	437	109	284	1603	0.272	435	302	0.0	0.4	3.079	A
2	171	43	500	978	0.175	170	220	0.0	0.2	4.451	A
3	349	87	340	1452	0.241	348	329	0.0	0.3	3.257	A
4	334	83	254	1565	0.213	332	435	0.0	0.3	2.917	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	521	130	340	1566	0.333	521	361	0.4	0.5	3.441	A
2	204	51	598	949	0.215	204	263	0.2	0.3	4.831	A
3	417	104	408	1411	0.296	417	394	0.3	0.4	3.619	A
4	398	100	304	1533	0.260	398	521	0.3	0.3	3.170	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	639	160	417	1517	0.421	638	442	0.5	0.7	4.091	A
2	250	62	732	909	0.275	250	322	0.3	0.4	5.454	A
3	511	128	499	1354	0.377	510	483	0.4	0.6	4.262	A
4	488	122	372	1490	0.327	487	638	0.3	0.5	3.588	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	639	160	417	1516	0.421	639	443	0.7	0.7	4.101	A
2	250	62	733	909	0.275	250	323	0.4	0.4	5.463	A
3	511	128	500	1354	0.377	511	483	0.6	0.6	4.271	A
4	488	122	372	1490	0.327	488	639	0.5	0.5	3.592	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	521	130	341	1566	0.333	522	362	0.7	0.5	3.451	A
2	204	51	600	948	0.215	204	264	0.4	0.3	4.841	A
3	417	104	409	1410	0.296	418	395	0.6	0.4	3.630	A
4	398	100	304	1533	0.260	399	522	0.5	0.4	3.177	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	437	109	286	1602	0.273	437	303	0.5	0.4	3.093	A
2	171	43	502	977	0.175	171	221	0.3	0.2	4.468	A
3	349	87	342	1451	0.241	350	331	0.4	0.3	3.270	A
4	334	83	255	1564	0.213	334	437	0.4	0.3	2.925	A

2032 Do Something Full, 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	11.24	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Do Something Full	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	930	100.000
2		ONE HOUR	✓	338	100.000
3		ONE HOUR	✓	808	100.000
4		ONE HOUR	✓	685	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
	1	2	3	4	
From	1	0	30	431	469
	2	5	0	139	194
	3	403	268	0	137
	4	201	356	128	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	0	0	0
	2	1	0	0	2
	3	0	1	0	2
	4	0	0	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.82	15.52	4.3	C	853	1280
2	0.46	8.21	0.8	A	310	465
3	0.73	11.13	2.7	B	741	1112
4	0.60	7.08	1.5	A	629	943

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	700	175	563	1424	0.492	696	456	0.0	1.0	4.920	A
2	254	64	770	920	0.277	253	490	0.0	0.4	5.383	A
3	608	152	500	1356	0.449	605	523	0.0	0.8	4.775	A
4	516	129	506	1415	0.364	513	599	0.0	0.6	3.983	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	836	209	675	1352	0.618	834	546	1.0	1.6	6.904	A
2	304	76	922	874	0.348	303	587	0.4	0.5	6.299	A
3	726	182	599	1295	0.561	725	626	0.8	1.3	6.285	A
4	616	154	606	1351	0.456	615	717	0.6	0.8	4.884	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	1024	256	824	1256	0.816	1014	667	1.6	4.1	14.346	B
2	372	93	1122	813	0.458	371	717	0.5	0.8	8.115	A
3	890	222	730	1215	0.732	884	763	1.3	2.6	10.696	B
4	754	189	740	1265	0.596	752	874	0.8	1.4	6.982	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	1024	256	828	1253	0.817	1023	670	4.1	4.3	15.517	C
2	372	93	1131	810	0.459	372	720	0.8	0.8	8.211	A
3	890	222	735	1212	0.734	889	768	2.6	2.7	11.127	B
4	754	189	744	1262	0.598	754	880	1.4	1.5	7.084	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	836	209	680	1349	0.620	846	551	4.3	1.7	7.302	A
2	304	76	935	870	0.349	305	591	0.8	0.5	6.385	A
3	726	182	606	1291	0.563	732	633	2.7	1.3	6.505	A
4	616	154	612	1347	0.457	618	726	1.5	0.9	4.957	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	700	175	568	1422	0.493	703	460	1.7	1.0	5.029	A
2	254	64	777	918	0.277	255	494	0.5	0.4	5.435	A
3	608	152	505	1353	0.450	610	527	1.3	0.8	4.860	A
4	516	129	511	1412	0.365	517	604	0.9	0.6	4.026	A

2018 Validation, 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	3.48	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	2018 Validation	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	381	100.000
2		ONE HOUR	✓	243	100.000
3		ONE HOUR	✓	334	100.000
4		ONE HOUR	✓	294	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	13	263	105
	2	3	0	44	196
	3	200	23	0	111
	4	110	118	66	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	0	1
	2	1	0	0	4
	3	0	0	0	2
	4	1	11	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.26	2.98	0.3	A	350	524
2	0.27	4.99	0.4	A	223	334
3	0.25	3.32	0.3	A	306	460
4	0.21	3.03	0.3	A	270	405

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	287	72	155	1677	0.171	286	235	0.0	0.2	2.587	A
2	183	46	326	1034	0.177	182	116	0.0	0.2	4.222	A
3	251	63	228	1519	0.166	251	280	0.0	0.2	2.836	A
4	221	55	170	1560	0.142	221	309	0.0	0.2	2.686	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	343	86	186	1656	0.207	342	281	0.2	0.3	2.740	A
2	218	55	390	1015	0.215	218	138	0.2	0.3	4.518	A
3	300	75	273	1491	0.201	300	335	0.2	0.3	3.022	A
4	264	66	203	1540	0.172	264	370	0.2	0.2	2.822	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	419	105	228	1628	0.258	419	344	0.3	0.3	2.979	A
2	268	67	477	989	0.271	267	169	0.3	0.4	4.988	A
3	368	92	334	1453	0.253	367	410	0.3	0.3	3.317	A
4	324	81	249	1512	0.214	323	453	0.2	0.3	3.029	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	419	105	228	1627	0.258	419	345	0.3	0.3	2.979	A
2	268	67	478	989	0.271	268	170	0.4	0.4	4.992	A
3	368	92	335	1452	0.253	368	411	0.3	0.3	3.318	A
4	324	81	249	1511	0.214	324	454	0.3	0.3	3.030	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	343	86	186	1656	0.207	343	282	0.3	0.3	2.744	A
2	218	55	391	1015	0.215	219	139	0.4	0.3	4.525	A
3	300	75	274	1491	0.201	301	336	0.3	0.3	3.025	A
4	264	66	203	1539	0.172	265	371	0.3	0.2	2.824	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	287	72	156	1676	0.171	287	236	0.3	0.2	2.590	A
2	183	46	327	1033	0.177	183	116	0.3	0.2	4.234	A
3	251	63	229	1518	0.166	252	281	0.3	0.2	2.843	A
4	221	55	170	1560	0.142	222	311	0.2	0.2	2.690	A

2022 Do Minimum, 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	3.63	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
D10	2022 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	401	100.000
2		ONE HOUR	✓	262	100.000
3		ONE HOUR	✓	369	100.000
4		ONE HOUR	✓	318	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	12	270	119
	2	3	0	47	212
	3	211	25	0	133
	4	106	128	84	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	1	0	1
2	1	0	0	4
3	0	0	0	1
4	1	10	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.27	3.09	0.4	A	368	552
2	0.30	5.24	0.4	A	240	361
3	0.28	3.49	0.4	A	339	508
4	0.23	3.11	0.3	A	292	438

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	302	75	178	1662	0.182	301	240	0.0	0.2	2.643	A
2	197	49	355	1025	0.192	196	124	0.0	0.2	4.340	A
3	278	69	250	1510	0.184	277	301	0.0	0.2	2.919	A
4	239	60	179	1560	0.153	239	348	0.0	0.2	2.723	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	360	90	213	1639	0.220	360	287	0.2	0.3	2.816	A
2	236	59	425	1004	0.235	235	148	0.2	0.3	4.681	A
3	332	83	300	1479	0.224	331	360	0.2	0.3	3.138	A
4	286	71	215	1538	0.186	286	417	0.2	0.2	2.874	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	442	110	261	1606	0.275	441	352	0.3	0.4	3.090	A
2	288	72	520	976	0.296	288	182	0.3	0.4	5.231	A
3	406	102	367	1436	0.283	406	441	0.3	0.4	3.491	A
4	350	88	263	1508	0.232	350	510	0.2	0.3	3.107	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	442	110	261	1606	0.275	442	352	0.4	0.4	3.090	A
2	288	72	521	976	0.296	288	182	0.4	0.4	5.238	A
3	406	102	368	1436	0.283	406	442	0.4	0.4	3.494	A
4	350	88	263	1508	0.232	350	511	0.3	0.3	3.107	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	360	90	213	1638	0.220	361	288	0.4	0.3	2.820	A
2	236	59	426	1004	0.235	236	148	0.4	0.3	4.691	A
3	332	83	301	1478	0.224	332	361	0.4	0.3	3.141	A
4	286	71	215	1538	0.186	286	418	0.3	0.2	2.876	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	302	75	179	1662	0.182	302	241	0.3	0.2	2.649	A
2	197	49	356	1025	0.193	198	124	0.3	0.2	4.355	A
3	278	69	252	1509	0.184	278	302	0.3	0.2	2.924	A
4	239	60	180	1559	0.154	240	350	0.2	0.2	2.729	A

2022 Do Something, 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	3.69	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
D11	2022 Do Something	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	418	100.000
2		ONE HOUR	✓	266	100.000
3		ONE HOUR	✓	390	100.000
4		ONE HOUR	✓	329	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	12	275	131
	2	3	0	47	216
	3	223	25	0	142
	4	112	131	86	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	0	1
	2	1	0	0	4
	3	0	0	0	1
	4	1	9	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.29	3.15	0.4	A	384	575
2	0.30	5.32	0.4	A	244	366
3	0.30	3.61	0.4	A	358	537
4	0.24	3.14	0.3	A	302	453

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	315	79	182	1660	0.190	314	254	0.0	0.2	2.673	A
2	200	50	369	1021	0.196	199	126	0.0	0.2	4.376	A
3	294	73	262	1502	0.195	293	306	0.0	0.2	2.973	A
4	248	62	188	1561	0.159	247	367	0.0	0.2	2.738	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	376	94	217	1636	0.230	376	304	0.2	0.3	2.856	A
2	239	60	442	999	0.239	239	151	0.2	0.3	4.735	A
3	351	88	314	1470	0.239	350	367	0.2	0.3	3.216	A
4	296	74	225	1538	0.192	296	439	0.2	0.2	2.897	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	460	115	266	1603	0.287	460	372	0.3	0.4	3.149	A
2	293	73	541	969	0.302	292	185	0.3	0.4	5.314	A
3	429	107	385	1425	0.301	429	449	0.3	0.4	3.610	A
4	362	91	276	1507	0.240	362	538	0.2	0.3	3.144	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	460	115	266	1603	0.287	460	372	0.4	0.4	3.149	A
2	293	73	542	969	0.302	293	185	0.4	0.4	5.322	A
3	429	107	385	1425	0.301	429	449	0.4	0.4	3.614	A
4	362	91	276	1506	0.240	362	538	0.3	0.3	3.145	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	376	94	218	1636	0.230	376	304	0.4	0.3	2.858	A
2	239	60	443	999	0.239	240	151	0.4	0.3	4.744	A
3	351	88	315	1469	0.239	351	367	0.4	0.3	3.220	A
4	296	74	226	1538	0.192	296	440	0.3	0.2	2.901	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	315	79	182	1660	0.190	315	255	0.3	0.2	2.679	A
2	200	50	371	1020	0.196	201	127	0.3	0.2	4.394	A
3	294	73	264	1501	0.196	294	307	0.3	0.2	2.981	A
4	248	62	189	1560	0.159	248	369	0.2	0.2	2.744	A

2022 Do Something Full, 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	4.87	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
D12	2022 Do Something Full	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	624	100.000
2		ONE HOUR	✓	293	100.000
3		ONE HOUR	✓	629	100.000
4		ONE HOUR	✓	462	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
	1	2	3	4	
From	1	0	15	344	265
	2	4	0	47	242
	3	401	22	0	206
	4	208	154	100	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	1	0	0
	2	1	0	0	3
	3	0	0	0	1
	4	0	8	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.43	4.01	0.8	A	573	859
2	0.36	6.18	0.6	A	269	403
3	0.52	5.74	1.1	A	577	866
4	0.36	4.02	0.6	A	424	636

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	470	117	207	1649	0.285	468	460	0.0	0.4	3.045	A
2	221	55	532	980	0.225	219	143	0.0	0.3	4.727	A
3	474	118	383	1430	0.331	472	368	0.0	0.5	3.746	A
4	348	87	320	1498	0.232	347	535	0.0	0.3	3.123	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	561	140	248	1621	0.346	560	550	0.4	0.5	3.391	A
2	263	66	637	948	0.278	263	172	0.3	0.4	5.250	A
3	565	141	459	1383	0.409	565	441	0.5	0.7	4.393	A
4	415	104	383	1459	0.285	415	640	0.3	0.4	3.449	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	687	172	303	1584	0.434	686	674	0.5	0.8	4.006	A
2	323	81	780	906	0.356	322	210	0.4	0.5	6.161	A
3	693	173	562	1320	0.525	691	540	0.7	1.1	5.709	A
4	509	127	469	1405	0.362	508	784	0.4	0.6	4.010	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	687	172	304	1584	0.434	687	675	0.8	0.8	4.015	A
2	323	81	781	905	0.356	323	210	0.5	0.6	6.176	A
3	693	173	563	1319	0.525	693	541	1.1	1.1	5.743	A
4	509	127	470	1404	0.362	509	785	0.6	0.6	4.018	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	561	140	249	1621	0.346	562	552	0.8	0.5	3.401	A
2	263	66	638	948	0.278	264	172	0.6	0.4	5.268	A
3	565	141	460	1383	0.409	567	442	1.1	0.7	4.424	A
4	415	104	385	1458	0.285	416	642	0.6	0.4	3.460	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	470	117	208	1648	0.285	470	462	0.5	0.4	3.059	A
2	221	55	534	979	0.225	221	144	0.4	0.3	4.752	A
3	474	118	385	1429	0.331	474	370	0.7	0.5	3.776	A
4	348	87	322	1497	0.232	348	538	0.4	0.3	3.136	A

2027 Do Minimum, 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	3.80	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2027 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	437	100.000
2		ONE HOUR	✓	277	100.000
3		ONE HOUR	✓	404	100.000
4		ONE HOUR	✓	364	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	13	279	145
	2	4	0	50	223
	3	222	26	0	156
	4	135	141	88	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	0	1
	2	1	0	0	4
	3	0	0	0	1
	4	1	9	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.30	3.24	0.4	A	401	601
2	0.32	5.47	0.5	A	254	381
3	0.32	3.73	0.5	A	371	556
4	0.27	3.25	0.4	A	334	501

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	82	191	1653	0.199	328	271	0.0	0.2	2.716	A
2	209	52	384	1016	0.205	208	135	0.0	0.3	4.445	A
3	304	76	279	1492	0.204	303	313	0.0	0.3	3.026	A
4	274	69	189	1562	0.175	273	393	0.0	0.2	2.793	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	98	229	1628	0.241	393	324	0.2	0.3	2.914	A
2	249	62	460	994	0.251	249	162	0.3	0.3	4.829	A
3	363	91	334	1457	0.249	363	375	0.3	0.3	3.290	A
4	327	82	226	1539	0.213	327	471	0.2	0.3	2.971	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	120	280	1593	0.302	481	397	0.3	0.4	3.234	A
2	305	76	563	963	0.317	304	198	0.3	0.5	5.458	A
3	445	111	409	1410	0.315	444	459	0.3	0.5	3.725	A
4	401	100	277	1507	0.266	400	576	0.3	0.4	3.252	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	120	281	1593	0.302	481	397	0.4	0.4	3.237	A
2	305	76	564	963	0.317	305	198	0.5	0.5	5.471	A
3	445	111	410	1410	0.316	445	459	0.5	0.5	3.729	A
4	401	100	277	1507	0.266	401	577	0.4	0.4	3.253	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	98	229	1627	0.241	393	325	0.4	0.3	2.919	A
2	249	62	461	994	0.251	250	162	0.5	0.3	4.841	A
3	363	91	335	1456	0.249	364	375	0.5	0.3	3.295	A
4	327	82	227	1538	0.213	328	472	0.4	0.3	2.973	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	329	82	192	1653	0.199	329	272	0.3	0.2	2.722	A
2	209	52	386	1016	0.205	209	136	0.3	0.3	4.461	A
3	304	76	280	1491	0.204	304	314	0.3	0.3	3.037	A
4	274	69	190	1561	0.176	274	395	0.3	0.2	2.799	A

2027 Do Something, 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	4.76	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
D14	2027 Do Something	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	544	100.000
2		ONE HOUR	✓	325	100.000
3		ONE HOUR	✓	595	100.000
4		ONE HOUR	✓	520	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	14	316	214
	2	4	0	50	271
	3	316	26	0	253
	4	195	200	125	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
	1	2	3	4
1	0	1	0	0
2	1	0	0	3
3	0	0	0	1
4	0	6	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.39	3.86	0.6	A	499	749
2	0.39	6.37	0.6	A	298	447
3	0.49	5.32	1.0	A	546	819
4	0.39	4.03	0.6	A	477	716

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	410	102	263	1613	0.254	408	386	0.0	0.3	2.987	A
2	245	61	491	992	0.247	243	180	0.0	0.3	4.803	A
3	448	112	367	1439	0.311	446	368	0.0	0.4	3.621	A
4	391	98	259	1541	0.254	390	553	0.0	0.3	3.125	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	489	122	315	1578	0.310	489	462	0.3	0.4	3.302	A
2	292	73	588	963	0.304	292	216	0.3	0.4	5.362	A
3	535	134	439	1394	0.384	534	441	0.4	0.6	4.184	A
4	467	117	311	1509	0.310	467	663	0.3	0.4	3.452	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	599	150	386	1531	0.391	598	566	0.4	0.6	3.856	A
2	358	89	720	923	0.388	357	264	0.4	0.6	6.350	A
3	655	164	537	1333	0.492	654	540	0.6	1.0	5.291	A
4	573	143	380	1465	0.391	572	811	0.4	0.6	4.025	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	599	150	386	1531	0.391	599	567	0.6	0.6	3.863	A
2	358	89	721	923	0.388	358	264	0.6	0.6	6.370	A
3	655	164	538	1332	0.492	655	541	1.0	1.0	5.316	A
4	573	143	381	1465	0.391	573	813	0.6	0.6	4.033	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	489	122	316	1577	0.310	490	464	0.6	0.5	3.313	A
2	292	73	590	962	0.304	293	216	0.6	0.4	5.386	A
3	535	134	441	1393	0.384	536	442	1.0	0.6	4.209	A
4	467	117	312	1508	0.310	468	665	0.6	0.5	3.465	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	410	102	265	1612	0.254	410	388	0.5	0.3	2.996	A
2	245	61	494	991	0.247	245	181	0.4	0.3	4.828	A
3	448	112	369	1437	0.312	449	370	0.6	0.5	3.645	A
4	391	98	261	1540	0.254	392	556	0.5	0.3	3.137	A

2032 Do Minimum, 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	3.98	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
D15	2032 Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	464	100.000
2		ONE HOUR	✓	292	100.000
3		ONE HOUR	✓	445	100.000
4		ONE HOUR	✓	406	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		1	2	3	4
From	1	0	14	295	155
	2	4	0	52	236
	3	233	27	0	185
	4	152	161	93	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	1	0	1
	2	1	0	0	4
	3	0	0	0	1
	4	1	8	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.32	3.38	0.5	A	426	639
2	0.34	5.70	0.5	A	268	402
3	0.35	3.98	0.5	A	408	613
4	0.30	3.41	0.4	A	373	559

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	349	87	211	1640	0.213	348	292	0.0	0.3	2.783	A
2	220	55	408	1009	0.218	219	152	0.0	0.3	4.547	A
3	335	84	296	1480	0.226	334	330	0.0	0.3	3.137	A
4	306	76	198	1561	0.196	305	432	0.0	0.2	2.864	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	417	104	252	1613	0.259	417	349	0.3	0.3	3.010	A
2	263	66	488	985	0.266	262	181	0.3	0.4	4.975	A
3	400	100	355	1444	0.277	400	395	0.3	0.4	3.448	A
4	365	91	237	1537	0.238	365	517	0.2	0.3	3.071	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	511	128	309	1575	0.324	510	428	0.3	0.5	3.381	A
2	321	80	597	953	0.337	321	222	0.4	0.5	5.693	A
3	490	122	434	1394	0.352	489	484	0.4	0.5	3.977	A
4	447	112	290	1504	0.297	447	633	0.3	0.4	3.403	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	511	128	309	1574	0.325	511	428	0.5	0.5	3.384	A
2	321	80	598	953	0.338	321	222	0.5	0.5	5.704	A
3	490	122	435	1393	0.352	490	484	0.5	0.5	3.984	A
4	447	112	291	1504	0.297	447	634	0.4	0.4	3.406	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	417	104	253	1612	0.259	418	350	0.5	0.4	3.014	A
2	263	66	489	985	0.266	263	182	0.5	0.4	4.989	A
3	400	100	356	1443	0.277	401	396	0.5	0.4	3.454	A
4	365	91	238	1536	0.238	365	519	0.4	0.3	3.077	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	349	87	212	1640	0.213	350	293	0.4	0.3	2.792	A
2	220	55	409	1009	0.218	220	152	0.4	0.3	4.566	A
3	335	84	298	1479	0.226	335	332	0.4	0.3	3.149	A
4	306	76	199	1560	0.196	306	434	0.3	0.2	2.869	A

2032 Do Something Full, 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	5.70	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
D16	2032 Do Something Full	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		ONE HOUR	✓	678	100.000
2		ONE HOUR	✓	320	100.000
3		ONE HOUR	✓	723	100.000
4		ONE HOUR	✓	570	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
	1	2	3	4	
From	1	0	17	372	289
	2	4	0	52	264
	3	438	25	0	260
	4	271	190	109	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	1	0	0
	2	1	0	0	1
	3	0	0	0	1
	4	0	4	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
1	0.48	4.46	0.9	A	622	933
2	0.39	6.57	0.6	A	294	440
3	0.62	7.27	1.6	A	663	995
4	0.45	4.69	0.8	A	523	785

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	510	128	243	1628	0.314	509	534	0.0	0.5	3.210	A
2	241	60	578	982	0.245	240	174	0.0	0.3	4.841	A
3	544	136	417	1411	0.386	542	400	0.0	0.6	4.130	A
4	429	107	350	1499	0.286	428	609	0.0	0.4	3.355	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	610	152	291	1596	0.382	609	640	0.5	0.6	3.644	A
2	288	72	691	947	0.304	287	208	0.3	0.4	5.450	A
3	650	162	500	1360	0.478	649	479	0.6	0.9	5.050	A
4	512	128	419	1456	0.352	512	730	0.4	0.5	3.813	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	746	187	356	1553	0.481	745	783	0.6	0.9	4.449	A
2	352	88	846	900	0.391	352	255	0.4	0.6	6.552	A
3	796	199	612	1292	0.616	793	586	0.9	1.6	7.184	A
4	628	157	512	1396	0.449	627	893	0.5	0.8	4.669	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	746	187	357	1553	0.481	746	785	0.9	0.9	4.463	A
2	352	88	848	900	0.392	352	255	0.6	0.6	6.575	A
3	796	199	613	1291	0.617	796	587	1.6	1.6	7.268	A
4	628	157	514	1395	0.450	628	895	0.8	0.8	4.688	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	610	152	292	1596	0.382	611	643	0.9	0.6	3.658	A
2	288	72	694	947	0.304	288	209	0.6	0.4	5.477	A
3	650	162	502	1359	0.478	653	480	1.6	0.9	5.112	A
4	512	128	422	1454	0.352	513	733	0.8	0.5	3.834	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	510	128	244	1627	0.314	511	538	0.6	0.5	3.227	A
2	241	60	580	981	0.246	241	175	0.4	0.3	4.870	A
3	544	136	420	1409	0.386	545	402	0.9	0.6	4.173	A
4	429	107	352	1498	0.287	430	613	0.5	0.4	3.371	A