Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.08	7.79	0.1	A	32	48
B-A	0.16	12.98	0.2	B	44	66
C-AB	0.11	6.43	0.1	A	60	90
C-A					280	420
A-B					6	9
A-C					224	336

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	26	7	529	0.050	26	0.0	0.1	7.158	A
B-A	36	9	370	0.098	36	0.0	0.1	10.753	B
C-AB	49	12	657	0.075	49	0.0	0.1	5.920	A
C-A	230	57			230				
A-B	5	1			5				
A-C	184	46			184				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	31	8	517	0.061	31	0.1	0.1	7.413	A
B-A	43	11	353	0.122	43	0.1	0.1	11.598	B
C-AB	59	15	646	0.091	59	0.1	0.1	6.128	A
C-A	274	69			274				
A-B	6	1			6				
A-C	220	55			220				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	38	10	500	0.077	38	0.1	0.1	7.791	A
B-A	53	13	330	0.160	53	0.1	0.2	12.964	B
C-AB	72	18	632	0.114	72	0.1	0.1	6.431	A
C-A	336	84			336				
A-B	7	2			7				
A-C	269	67			269				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	38	10	500	0.077	38	0.1	0.1	7.794	A
B-A	53	13	330	0.160	53	0.2	0.2	12.983	B
C-AB	72	18	632	0.114	72	0.1	0.1	6.433	A
C-A	336	84			336				
A-B	7	2			7				
A-C	269	67			269				

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	31	8	517	0.061	31	0.1	0.1	7.418	A
B-A	43	11	353	0.122	43	0.2	0.1	11.626	B
C-AB	59	15	646	0.091	59	0.1	0.1	6.133	A
C-A	274	69			274				
A-B	6	1			6				
A-C	220	55			220				

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	26	7	528	0.050	26	0.1	0.1	7.168	A
B-A	36	9	370	0.098	36	0.1	0.1	10.790	B
C-AB	49	12	657	0.075	49	0.1	0.1	5.928	A
C-A	230	57			230				
A-B	5	1			5				
A-C	184	46			184				

2028 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D9 - 2023 Base + Dev, AM	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.96	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	Relationship type	Relationship
D6	2028 Base	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D14*1.0905

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 (%)
A		ONE HOUR	✓	222	100.000
B		ONE HOUR	✓	147	100.000
C		ONE HOUR	✓	455	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	14	208
	B	55	0	93
	C	346	109	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	8	2
	B	14	0	4
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.20	8.63	0.2	A	85	128
B-A	0.20	14.99	0.2	B	50	75
C-AB	0.19	6.82	0.2	A	100	150
C-A					317	476
A-B					13	20
A-C					191	287

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	70	17	547	0.127	69	0.0	0.1	7.518	A
B-A	41	10	341	0.121	41	0.0	0.1	11.976	B
C-AB	82	21	670	0.123	82	0.0	0.1	6.117	A
C-A	260	65			260				
A-B	11	3			11				
A-C	157	39			157				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	83	21	536	0.156	83	0.1	0.2	7.951	A
B-A	49	12	324	0.152	49	0.1	0.2	13.097	B
C-AB	98	25	661	0.148	98	0.1	0.2	6.397	A
C-A	311	78			311				
A-B	13	3			13				
A-C	187	47			187				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	102	26	519	0.197	102	0.2	0.2	8.619	A
B-A	60	15	300	0.200	60	0.2	0.2	14.954	B
C-AB	120	30	648	0.185	120	0.2	0.2	6.813	A
C-A	381	95			381				
A-B	16	4			16				
A-C	229	57			229				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	102	26	519	0.197	102	0.2	0.2	8.629	A
B-A	60	15	300	0.200	60	0.2	0.2	14.993	B
C-AB	120	30	648	0.185	120	0.2	0.2	6.818	A
C-A	381	95			381				
A-B	16	4			16				
A-C	229	57			229				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	83	21	536	0.156	84	0.2	0.2	7.969	A
B-A	49	12	323	0.152	49	0.2	0.2	13.142	B
C-AB	98	25	661	0.148	98	0.2	0.2	6.404	A
C-A	311	78			311				
A-B	13	3			13				
A-C	187	47			187				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	70	17	547	0.128	70	0.2	0.1	7.549	A
B-A	41	10	340	0.121	41	0.2	0.1	12.042	B
C-AB	82	21	670	0.123	82	0.2	0.1	6.130	A
C-A	260	65			260				
A-B	11	3			11				
A-C	157	39			157				

2023 Base + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D9 - 2023 Base + Dev, AM	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.84	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	Relationship type	Relationship
D9	2023 Base + Dev	AM	ONE HOUR	08:15	09:45	15	✓	Simple	D3+D7

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 (%)
A		ONE HOUR	✓	246	100.000
B		ONE HOUR	✓	80	100.000
C		ONE HOUR	✓	362	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	6	240
	B	46	0	34
	C	299	63	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	7
	B	7	0	6
	C	2	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.07	7.73	0.1	A	31	46
B-A	0.15	12.76	0.2	B	42	64
C-AB	0.11	6.39	0.1	A	58	87
C-A					274	411
A-B					6	9
A-C					220	330

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	25	6	530	0.048	25	0.0	0.0	7.124	A
B-A	35	9	372	0.094	34	0.0	0.1	10.647	B
C-AB	48	12	658	0.072	47	0.0	0.1	5.892	A
C-A	225	56			225				
A-B	5	1			5				
A-C	180	45			180				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	30	8	519	0.058	30	0.0	0.1	7.370	A
B-A	42	10	356	0.117	41	0.1	0.1	11.453	B
C-AB	57	14	648	0.088	57	0.1	0.1	6.092	A
C-A	268	67			268				
A-B	6	1			6				
A-C	215	54			215				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	37	9	503	0.074	37	0.1	0.1	7.732	A
B-A	51	13	333	0.153	51	0.1	0.2	12.741	B
C-AB	69	17	633	0.110	69	0.1	0.1	6.385	A
C-A	329	82			329				
A-B	7	2			7				
A-C	264	66			264				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	37	9	502	0.074	37	0.1	0.1	7.734	A
B-A	51	13	333	0.153	51	0.2	0.2	12.760	B
C-AB	69	17	633	0.110	69	0.1	0.1	6.385	A
C-A	329	82			329				
A-B	7	2			7				
A-C	264	66			264				

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	30	8	518	0.058	30	0.1	0.1	7.374	A
B-A	42	10	356	0.117	42	0.2	0.1	11.478	B
C-AB	57	14	648	0.088	57	0.1	0.1	6.097	A
C-A	268	67			268				
A-B	6	1			6				
A-C	215	54			215				

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	25	6	530	0.048	25	0.1	0.1	7.138	A
B-A	35	9	372	0.094	35	0.1	0.1	10.686	B
C-AB	48	12	658	0.072	48	0.1	0.1	5.898	A
C-A	225	56			225				
A-B	5	1			5				
A-C	180	45			180				

2023 Base + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D9 - 2023 Base + Dev, AM	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.88	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	Relationship type	Relationship
D10	2023 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D4+D8

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 (%)
A		ONE HOUR	✓	219	100.000
B		ONE HOUR	✓	142	100.000
C		ONE HOUR	✓	444	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	14	206
	B	53	0	89
	C	339	105	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	8	2
	B	14	0	3
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.19	8.51	0.2	A	82	123
B-A	0.19	14.69	0.2	B	48	72
C-AB	0.18	6.75	0.2	A	96	145
C-A					311	467
A-B					13	19
A-C					189	283

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	67	17	549	0.123	67	0.0	0.1	7.463	A
B-A	40	10	342	0.116	39	0.0	0.1	11.845	B
C-AB	79	20	670	0.118	79	0.0	0.1	6.080	A
C-A	255	64			255				
A-B	10	3			10				
A-C	155	39			155				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	80	20	537	0.149	80	0.1	0.2	7.873	A
B-A	47	12	326	0.145	47	0.1	0.2	12.911	B
C-AB	94	24	661	0.143	94	0.1	0.2	6.348	A
C-A	305	76			305				
A-B	12	3			12				
A-C	185	46			185				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	98	25	521	0.189	98	0.2	0.2	8.503	A
B-A	58	14	303	0.191	58	0.2	0.2	14.657	B
C-AB	116	29	649	0.178	116	0.2	0.2	6.747	A
C-A	373	93			373				
A-B	15	4			15				
A-C	227	57			227				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	98	25	521	0.189	98	0.2	0.2	8.514	A
B-A	58	14	303	0.191	58	0.2	0.2	14.692	B
C-AB	116	29	649	0.178	116	0.2	0.2	6.750	A
C-A	373	93			373				
A-B	15	4			15				
A-C	227	57			227				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	80	20	537	0.150	81	0.2	0.2	7.888	A
B-A	47	12	326	0.145	47	0.2	0.2	12.953	B
C-AB	94	24	661	0.143	95	0.2	0.2	6.357	A
C-A	305	76			305				
A-B	12	3			12				
A-C	185	46			185				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	67	17	548	0.123	67	0.2	0.1	7.487	A
B-A	40	10	342	0.116	40	0.2	0.1	11.907	B
C-AB	79	20	670	0.118	79	0.2	0.1	6.092	A
C-A	255	64			255				
A-B	10	3			10				
A-C	155	39			155				

2028 Base + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D9 - 2023 Base + Dev, AM	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.87	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	Relationship type	Relationship
D11	2028 Base + Dev	AM	ONE HOUR	08:15	09:45	15	✓	Simple	D5+D7

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 (%)
A		ONE HOUR	✓	255	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	375	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	7	248
	B	48	0	35
	C	309	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	7
	B	7	0	6
	C	2	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.08	7.81	0.1	A	32	48
B-A	0.16	13.05	0.2	B	44	66
C-AB	0.11	6.45	0.1	A	60	90
C-A					284	426
A-B					6	9
A-C					228	342

Main Results for each time segment

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	26	7	528	0.050	26	0.0	0.1	7.168	A
B-A	36	9	369	0.098	36	0.0	0.1	10.786	B
C-AB	49	12	656	0.075	49	0.0	0.1	5.928	A
C-A	233	58			233				
A-B	5	1			5				
A-C	187	47			187				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	31	8	516	0.061	31	0.1	0.1	7.426	A
B-A	43	11	352	0.123	43	0.1	0.1	11.643	B
C-AB	59	15	645	0.091	59	0.1	0.1	6.138	A
C-A	278	70			278				
A-B	6	1			6				
A-C	223	56			223				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	38	10	499	0.077	38	0.1	0.1	7.809	A
B-A	53	13	329	0.161	53	0.1	0.2	13.034	B
C-AB	72	18	630	0.114	72	0.1	0.1	6.444	A
C-A	341	85			341				
A-B	7	2			7				
A-C	273	68			273				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	38	10	499	0.077	38	0.1	0.1	7.812	A
B-A	53	13	329	0.161	53	0.2	0.2	13.053	B
C-AB	72	18	630	0.114	72	0.1	0.1	6.447	A
C-A	341	85			341				
A-B	7	2			7				
A-C	273	68			273				

09:15 - 09:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	31	8	516	0.061	31	0.1	0.1	7.430	A
B-A	43	11	352	0.123	43	0.2	0.1	11.671	B
C-AB	59	15	645	0.091	59	0.1	0.1	6.143	A
C-A	278	70			278				
A-B	6	1			6				
A-C	223	56			223				

09:30 - 09:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	26	7	528	0.050	26	0.1	0.1	7.178	A
B-A	36	9	369	0.098	36	0.1	0.1	10.825	B
C-AB	49	12	656	0.075	49	0.1	0.1	5.936	A
C-A	233	58			233				
A-B	5	1			5				
A-C	187	47			187				

2028 Base + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D9 - 2023 Base + Dev, AM	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.94	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	Relationship type	Relationship
D12	2028 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D6+D8

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 (%)
A		ONE HOUR	✓	227	100.000
B		ONE HOUR	✓	147	100.000
C		ONE HOUR	✓	461	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	14	213
	B	55	0	93
	C	352	109	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	8	2
	B	14	0	4
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.20	8.66	0.2	A	85	128
B-A	0.20	15.11	0.2	C	50	75
C-AB	0.19	6.84	0.2	A	100	150
C-A					323	484
A-B					13	20
A-C					196	294

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	70	17	547	0.128	69	0.0	0.1	7.532	A
B-A	41	10	339	0.121	41	0.0	0.1	12.027	B
C-AB	82	21	669	0.123	82	0.0	0.1	6.128	A
C-A	265	66			265				
A-B	11	3			11				
A-C	161	40			161				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	83	21	535	0.156	83	0.1	0.2	7.971	A
B-A	49	12	322	0.152	49	0.1	0.2	13.170	B
C-AB	98	25	659	0.149	98	0.1	0.2	6.411	A
C-A	316	79			316				
A-B	13	3			13				
A-C	192	48			192				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	102	26	518	0.197	102	0.2	0.2	8.644	A
B-A	60	15	298	0.201	60	0.2	0.2	15.072	C
C-AB	120	30	646	0.186	120	0.2	0.2	6.832	A
C-A	387	97			387				
A-B	16	4			16				
A-C	235	59			235				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	102	26	518	0.197	102	0.2	0.2	8.658	A
B-A	60	15	298	0.201	60	0.2	0.2	15.111	C
C-AB	120	30	646	0.186	120	0.2	0.2	6.838	A
C-A	387	97			387				
A-B	16	4			16				
A-C	235	59			235				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	83	21	534	0.156	84	0.2	0.2	7.989	A
B-A	49	12	322	0.152	49	0.2	0.2	13.219	B
C-AB	98	25	659	0.149	98	0.2	0.2	6.420	A
C-A	316	79			316				
A-B	13	3			13				
A-C	192	48			192				

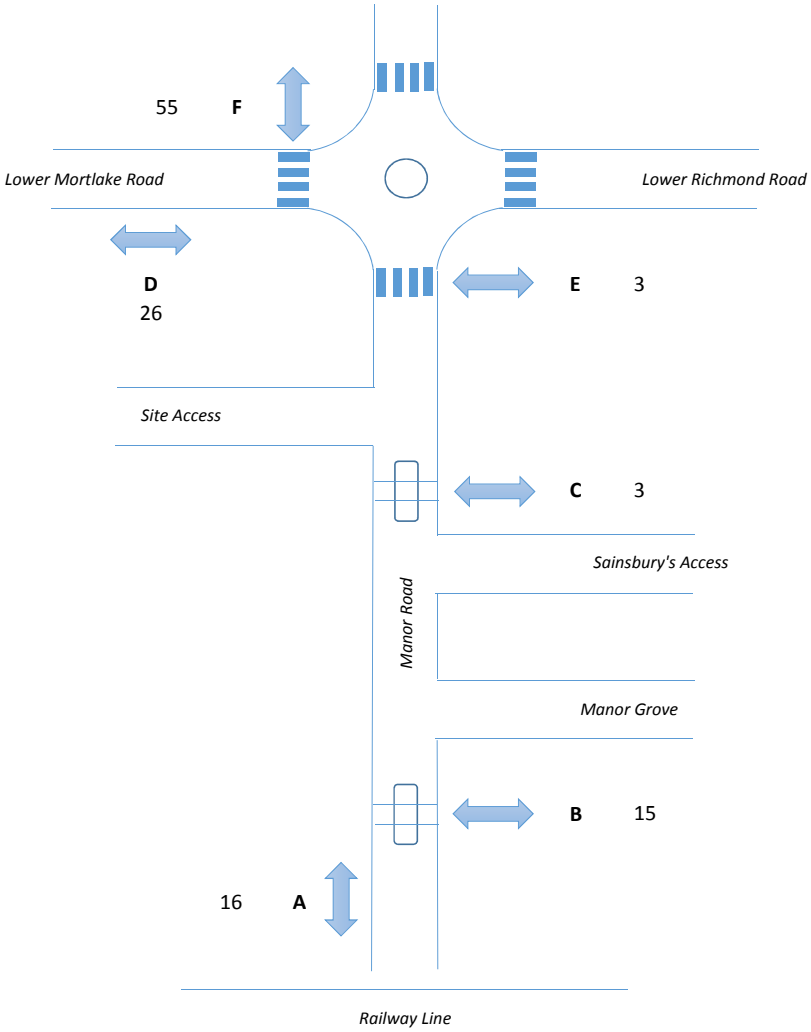
18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	LOS
B-C	70	17	546	0.128	70	0.2	0.1	7.563	A
B-A	41	10	339	0.121	41	0.2	0.1	12.094	B
C-AB	82	21	669	0.123	82	0.2	0.1	6.140	A
C-A	265	66			265				
A-B	11	3			11				
A-C	161	40			161				

APPENDIX P

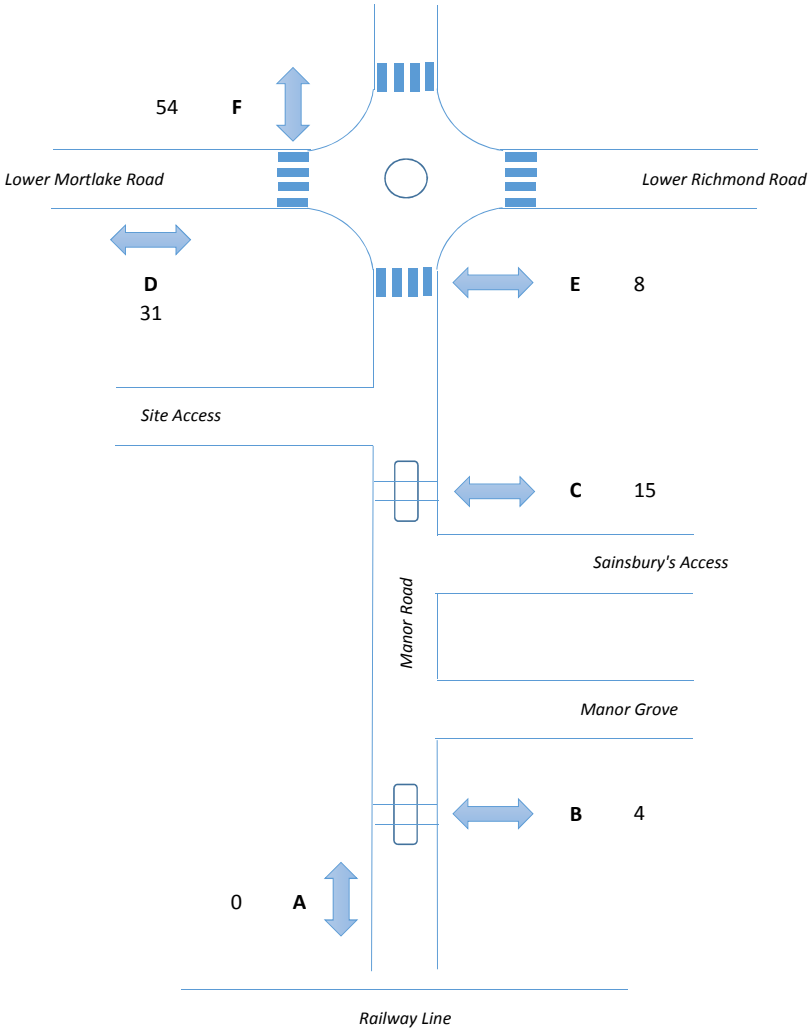
Predicted Pedestrian Movements

AM Peak Hour Pedestrian Movements



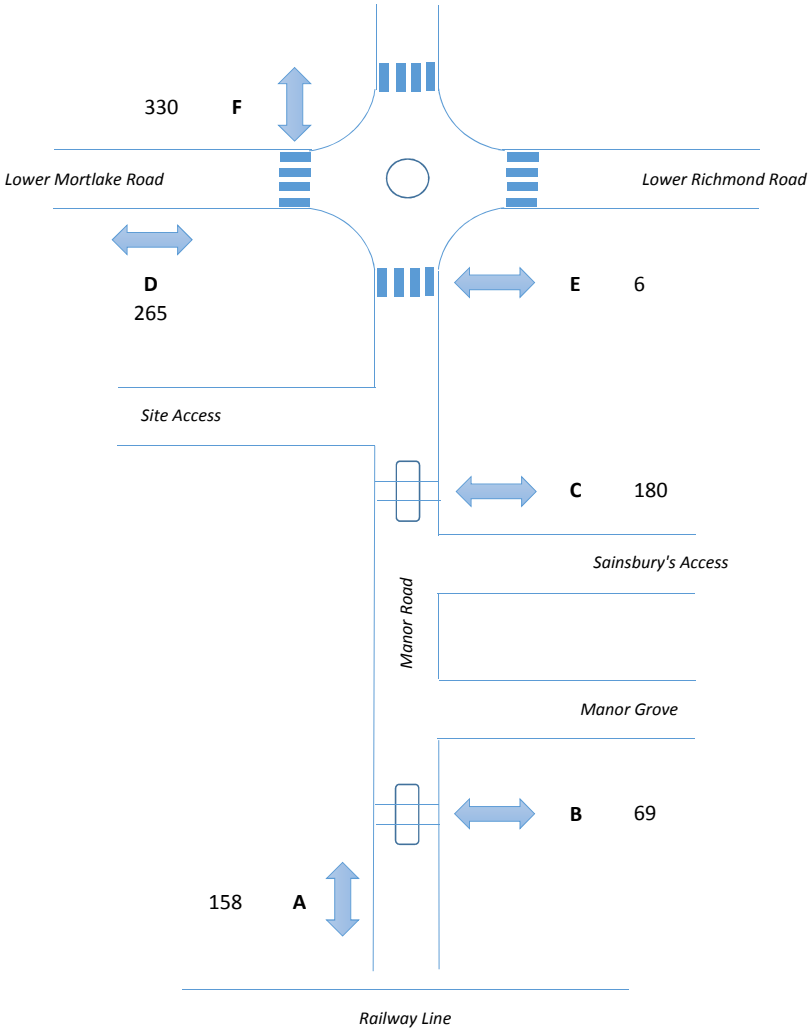
	Link					
Trip Purpose	**A**	**B**	**C**	**D**	**E**	**F**
Education	16	8				9
Commuting				5	3	3
Richmond Underground Station				36		
Bus			3	14		14
North Sheen Station		7				
Shopping						
Walking						
Leisure						
Personal Business						
Other						
Total	16	15	3	55	3	26

PM Peak Hour Pedestrian Movements



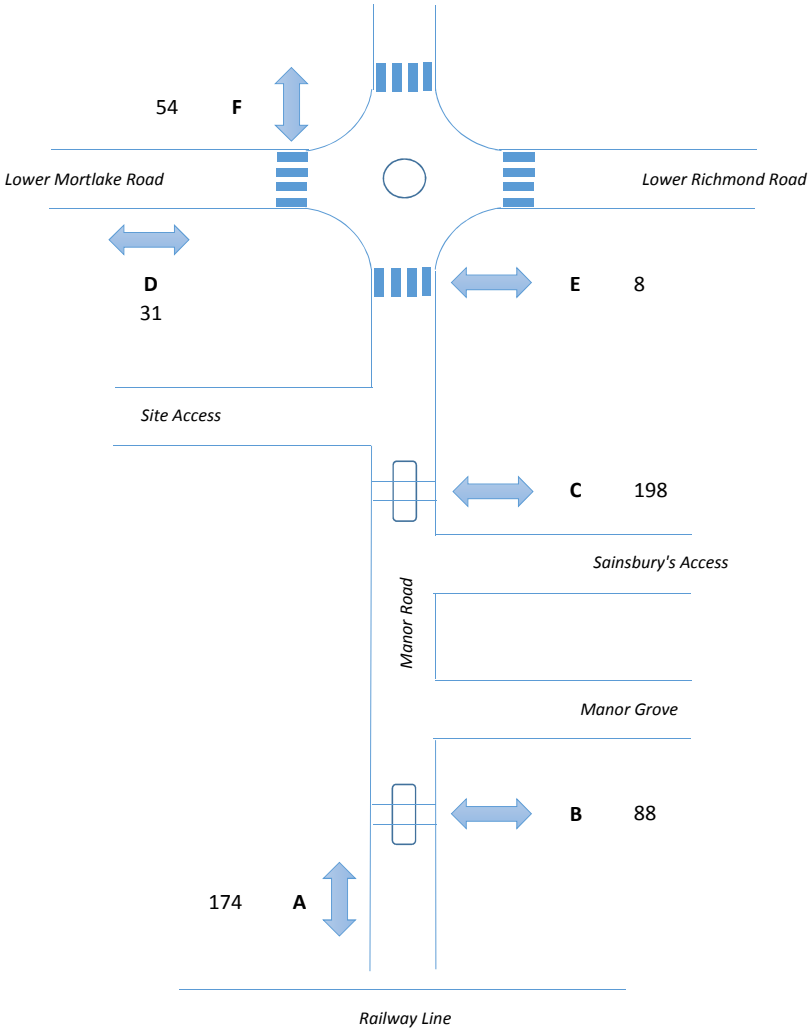
	Link					
Trip Purpose	**A**	**B**	**C**	**D**	**E**	**F**
Education						
Commuting				8	4	4
Richmond Underground Station						30
Bus			3	15		16
North Sheen Station		4				
Shopping			12			
Walking						
Leisure						
Personal Business						
Other				8	4	4
Total	0	4	15	31	8	54

Off-Peak Pedestrian Movements



	Link					
Trip Purpose	**A**	**B**	**C**	**D**	**E**	**F**
Education	48	24				21
Commuting				7	3	5
Richmond Underground Station				111		111
Bus			24	105		104
North Sheen Station		35				
Shopping			102			
Walking	69			35		34
Leisure	41	10				51
Personal Business			54			
Other				7	3	4
Total	158	69	180	265	6	330

Daily Pedestrian Movements



	Link					
Trip Purpose	**A**	**B**	**C**	**D**	**E**	**F**
Education	64	32				30
Commuting				8	4	4
Richmond Underground Station				147		141
Bus			30	134		134
North Sheen Station		46				
Shopping			114			
Walking	69			35		34
Leisure	41	10				51
Personal Business			54			
Other				15	7	8
Total	174	88	198	339	11	402

APPENDIX Q

Census Travel by Bus Data

WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)

population	All usual residents aged 16 and over in employment the week before the census
units	Persons
date	2011
method of travel to work	Bus, minibus or coach

place of work : 2011 super output area - middle layer	**usual residence E02000787 : Richmond upon Thames 004**	%
E02000791 : Richmond upon Thames 008	41	18%
E02000797 : Richmond upon Thames 014	22	10%
E02000606 : Kingston upon Thames 009	19	8%
E02000384 : Hammersmith and Fulham 013	16	7%
E02006792 : Hounslow 029	14	6%
E02000784 : Richmond upon Thames 001	10	4%
E02000787 : Richmond upon Thames 004	10	4%
E02000804 : Richmond upon Thames 021	10	4%
E02000372 : Hammersmith and Fulham 001	8	3%
E02000932 : Wandsworth 010	8	3%
E02000268 : Ealing 031	8	3%
E02000387 : Hammersmith and Fulham 016	7	3%
E02000531 : Hounslow 006	7	3%
E02000539 : Hounslow 014	7	3%
E02000785 : Richmond upon Thames 002	7	3%
E02000789 : Richmond upon Thames 006	7	3%
E02000938 : Wandsworth 016	6	3%
E02000602 : Kingston upon Thames 005	6	3%
E02000788 : Richmond upon Thames 005	6	3%
E02000798 : Richmond upon Thames 015	6	3%
E02000801 : Richmond upon Thames 018	6	3%
Total	231	100%