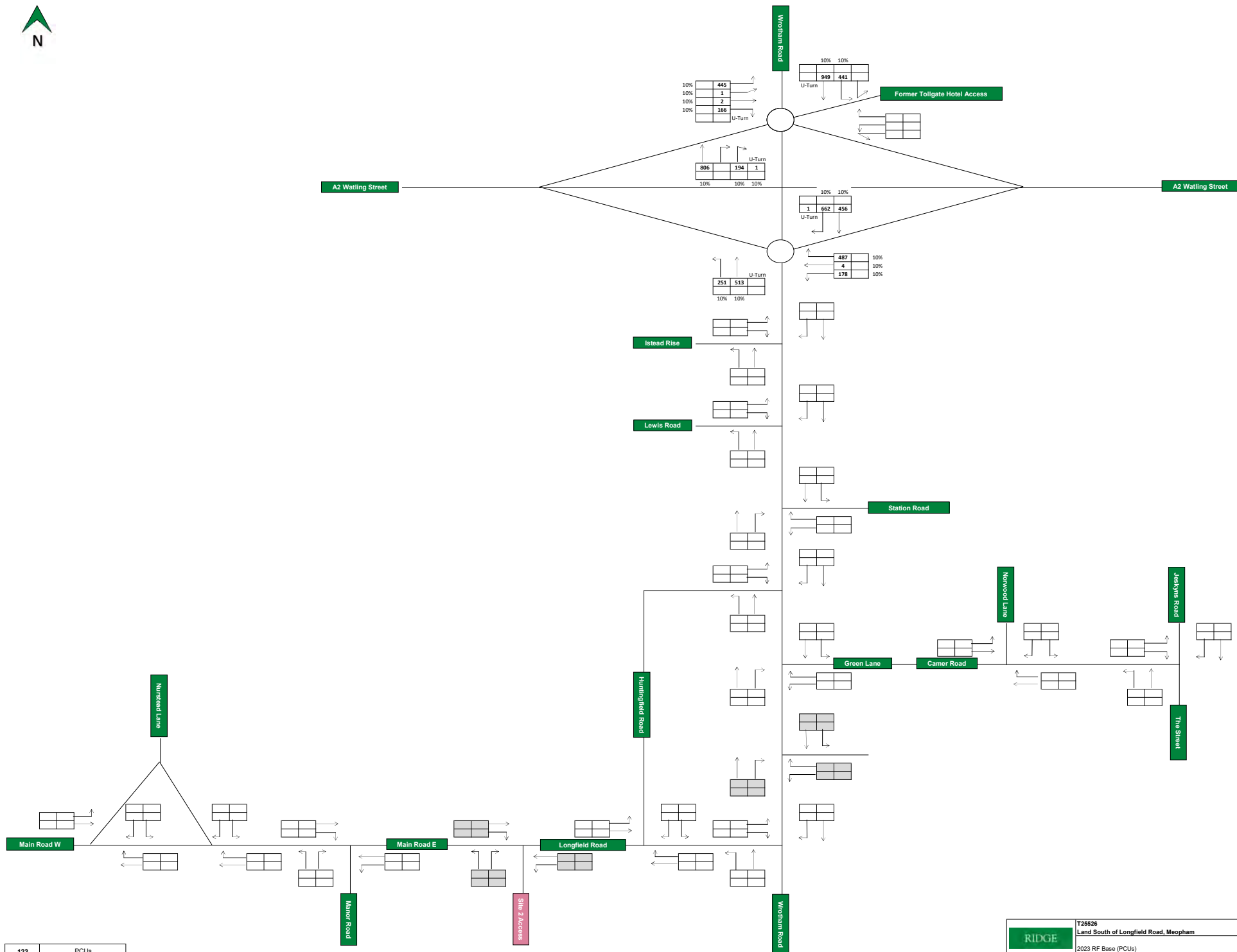
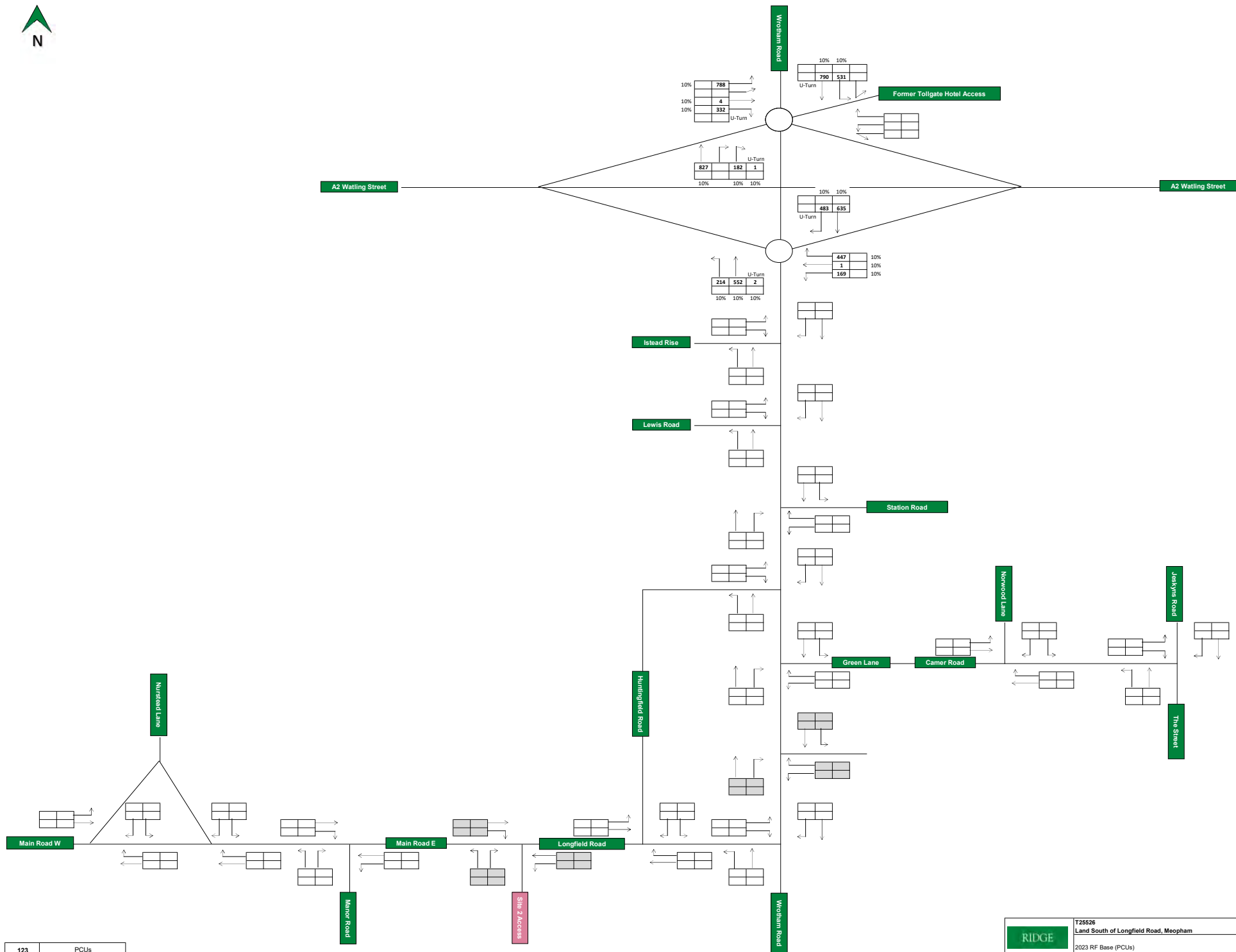
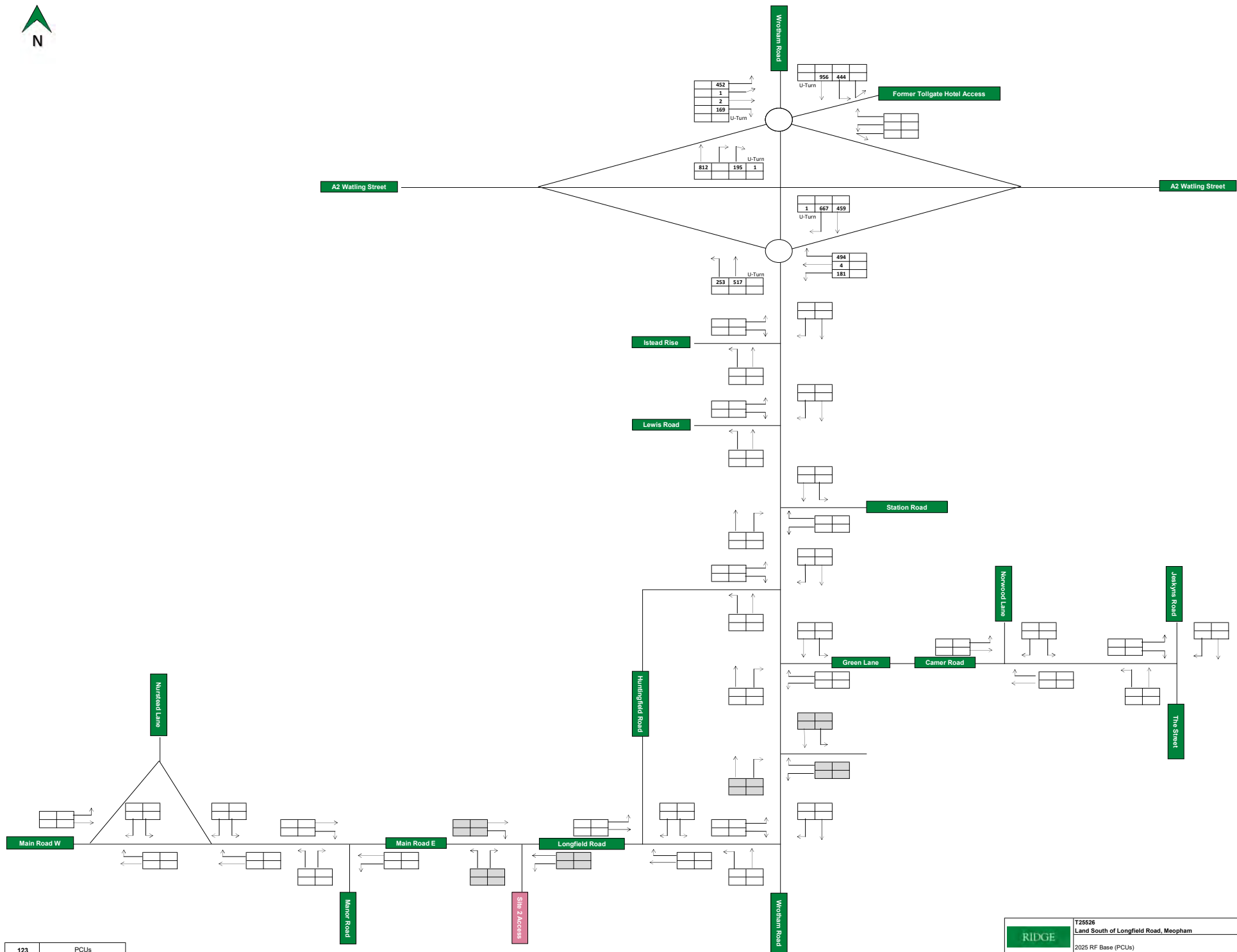


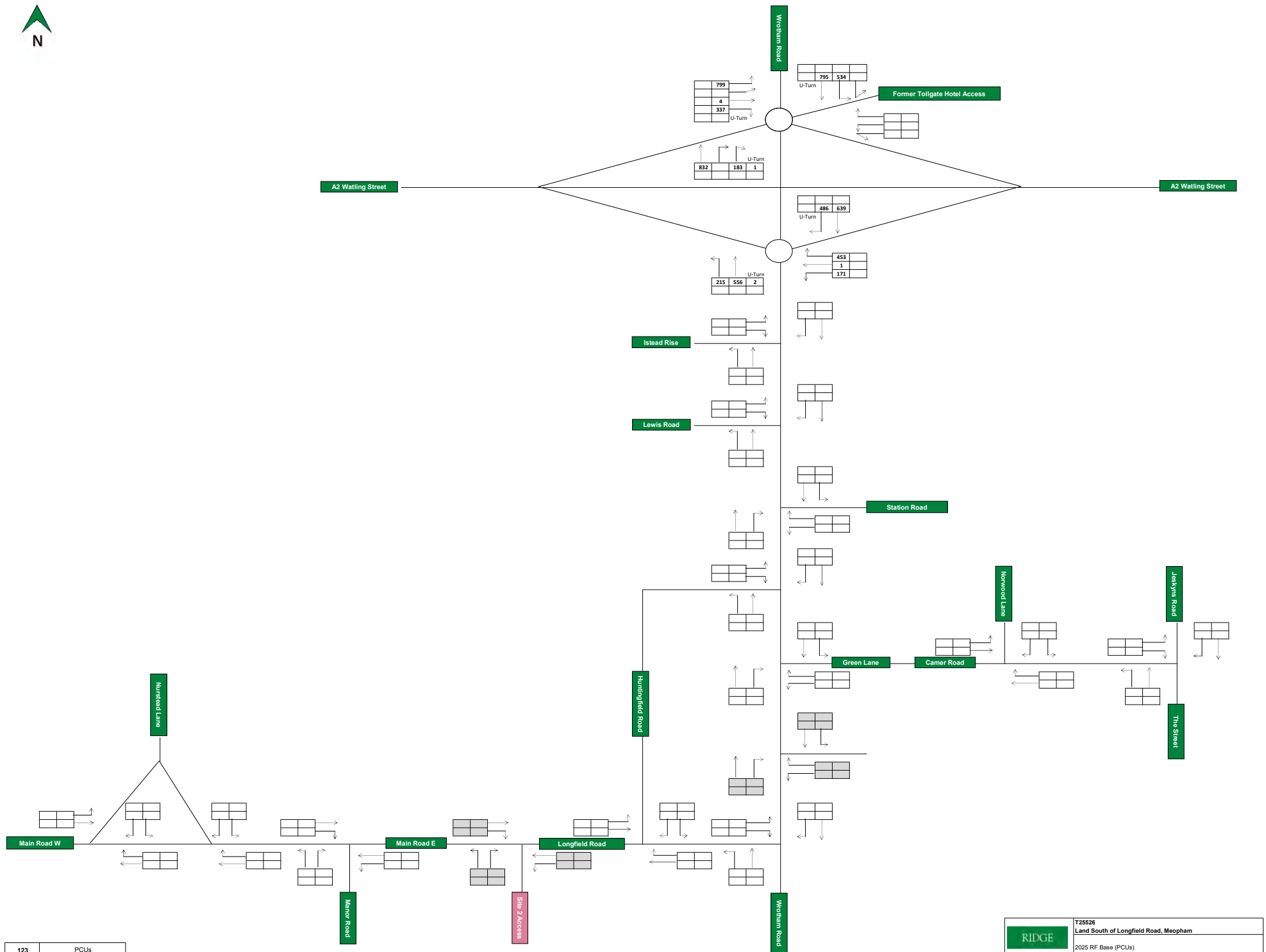
Appendix A

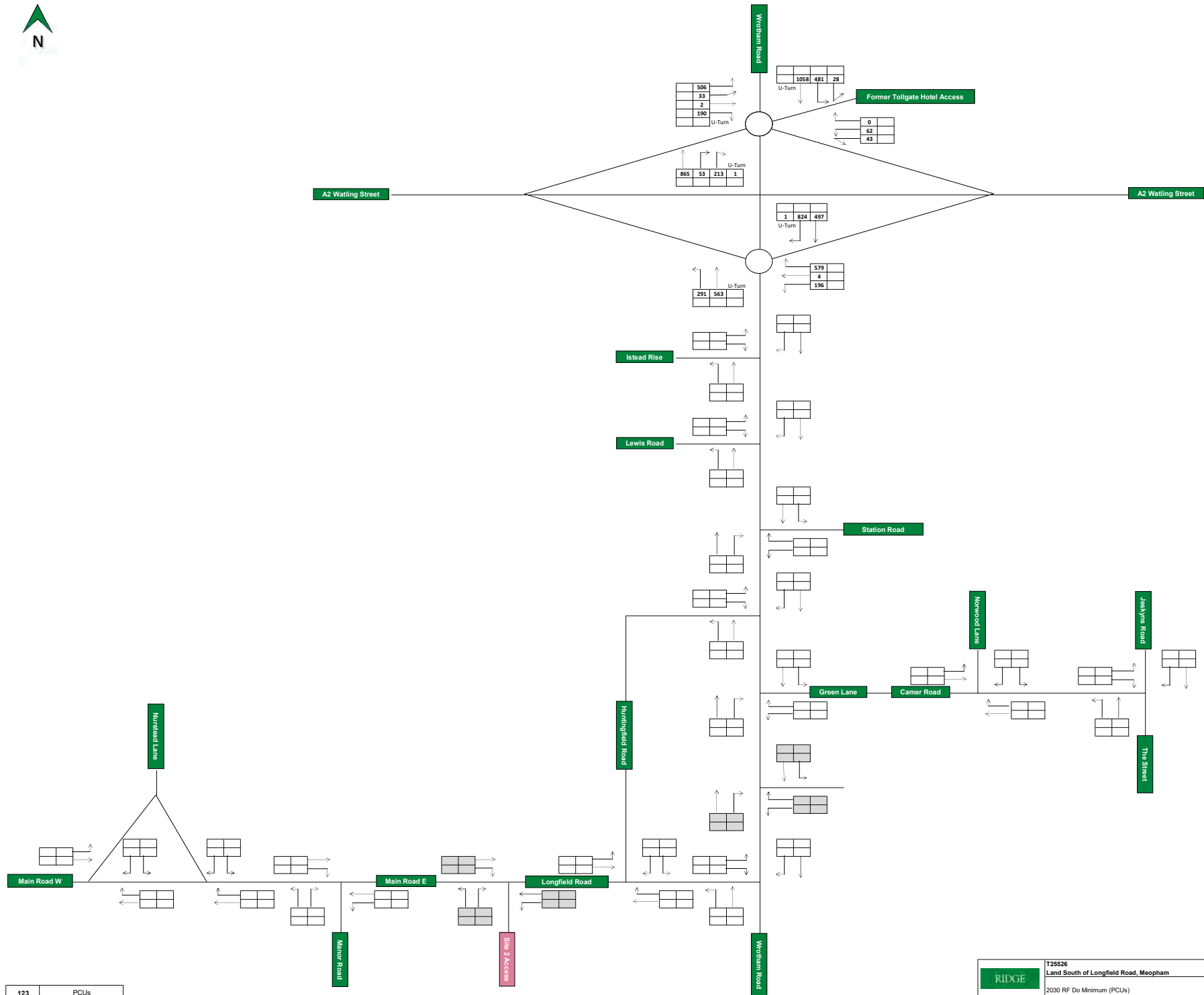
Traffic Flow Diagrams

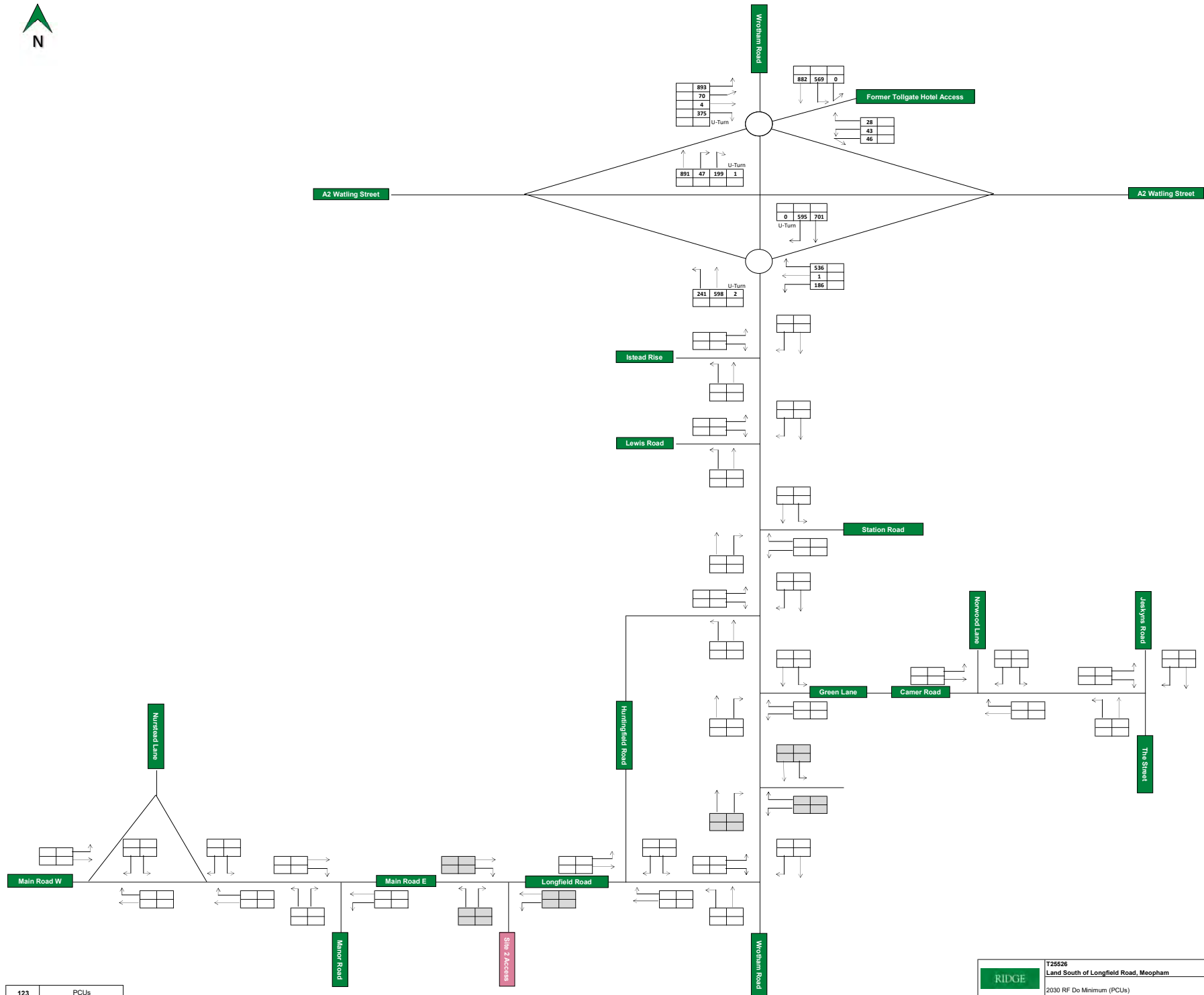


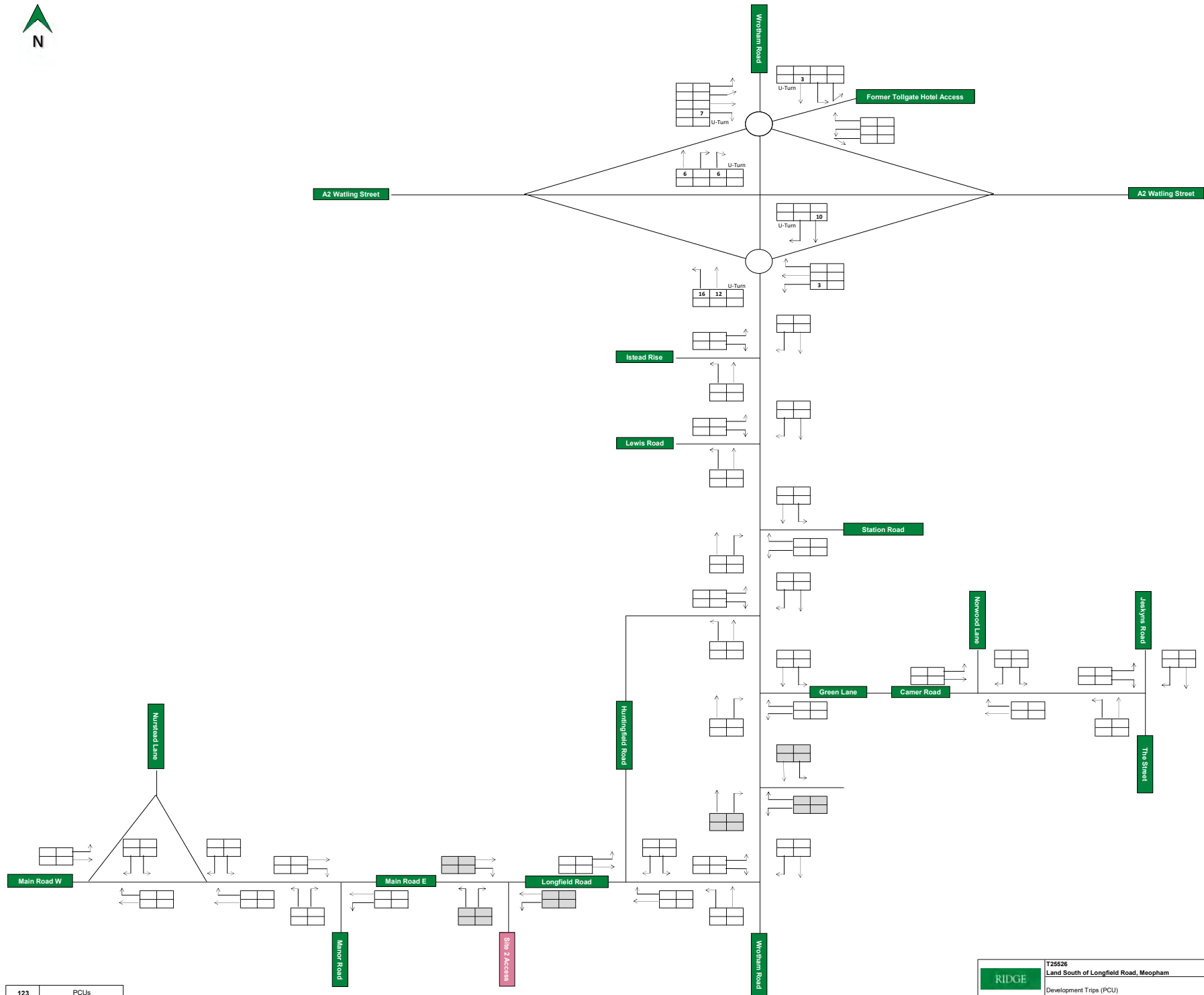


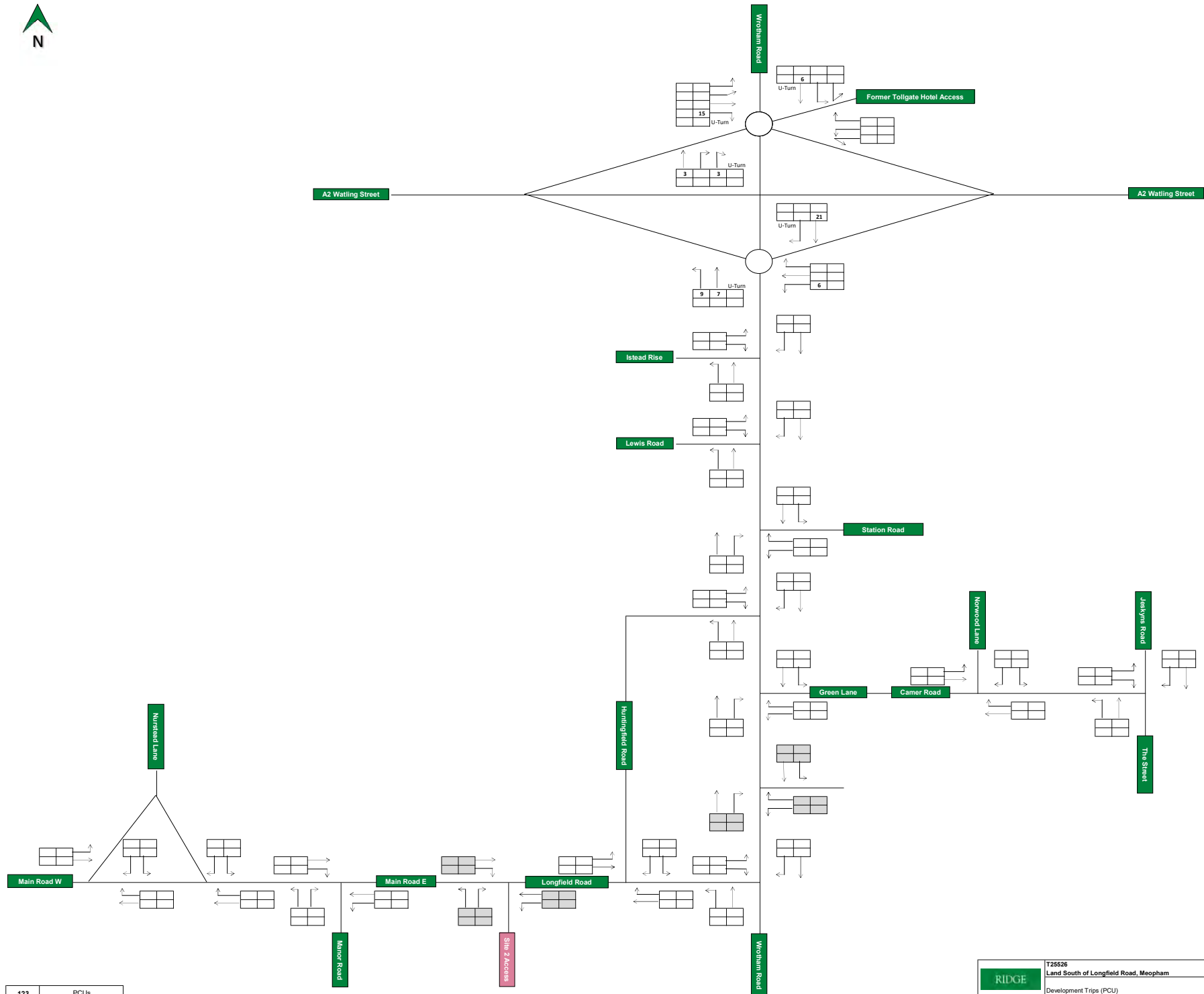


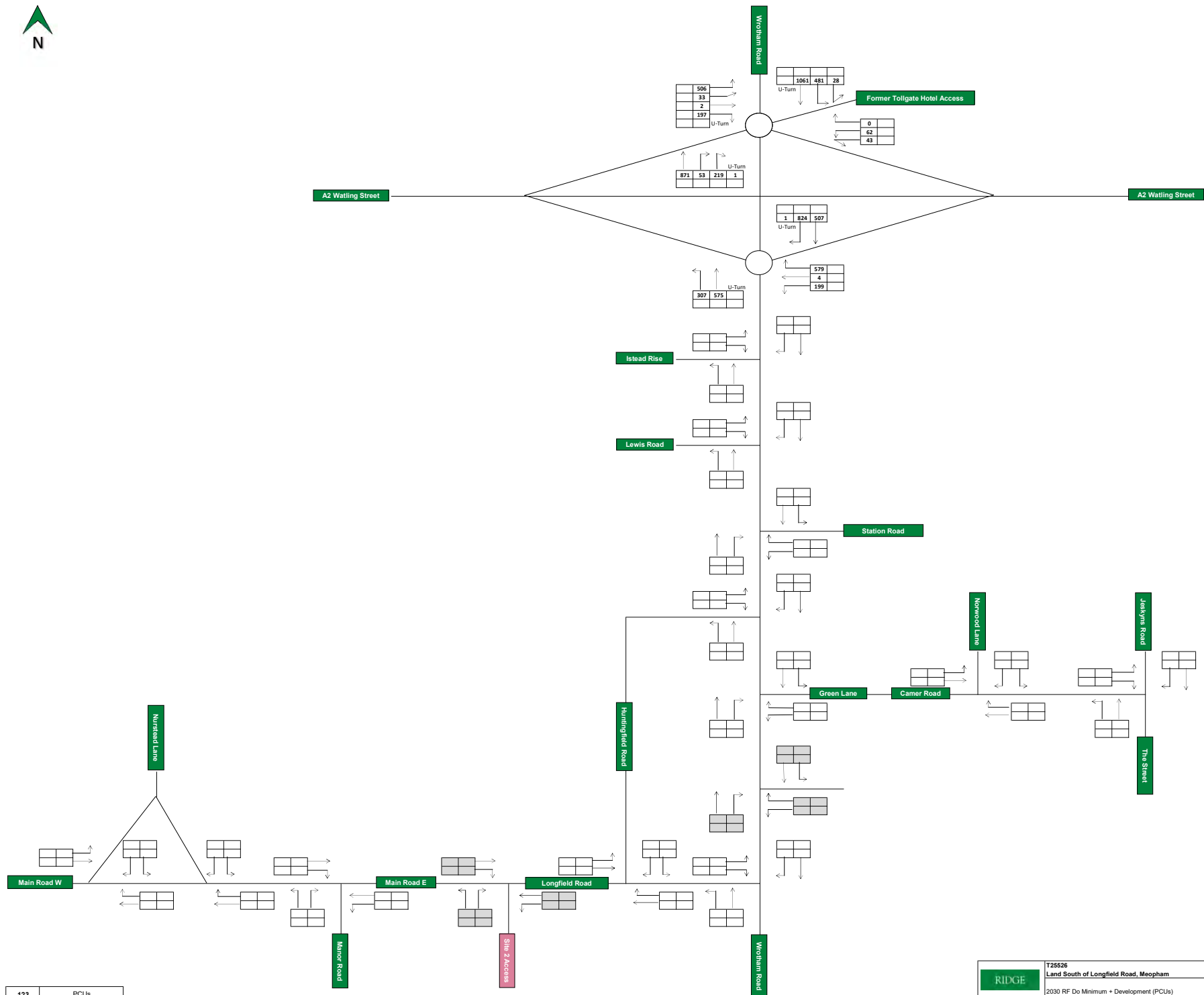


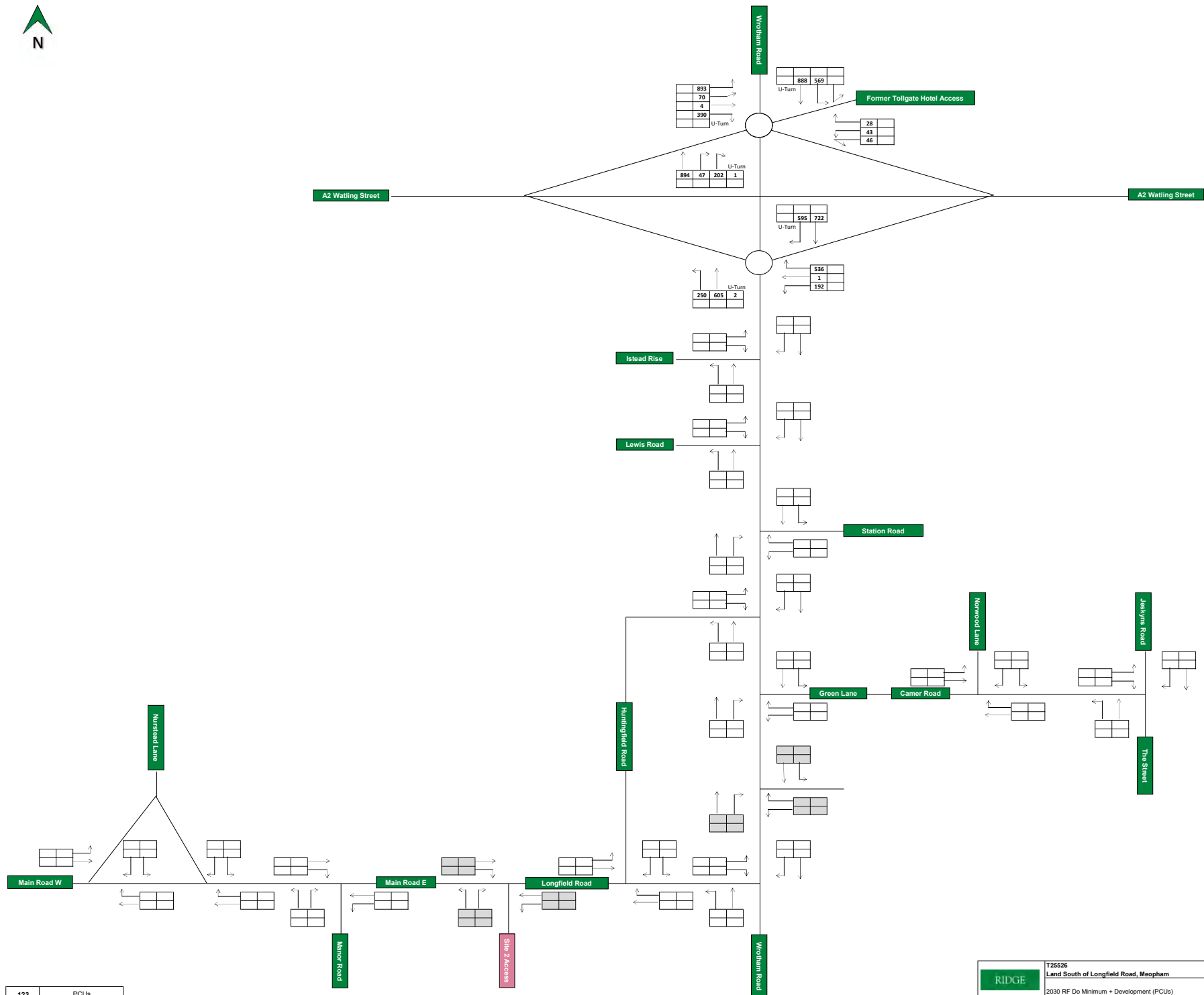












Appendix B

A2/Wrotham Road Complex ARCADY Model Outputs

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.0.2307
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Filename: Junction 7 - Wrotham Road_A2 Linked Rbt - Base Model AM.j11

Path: C:\Users\mattjohnson\Ridge and Partners LLP\Hub Transport Planning - General\Projects\T25526 Longfield Road, Meopham\Modelling\Arcady\Rose Farm

Report generation date: 11/08/2026 08:02:59

»D1 - 2023 | Base | AM
»D2 - 2025 | Base | AM
»D3 - 2030 | RF Do Minimum | AM
»D4 - 2030 | RF Do Minimum + Development | AM

Summary of junction performance

	AM			
	Set ID	Queue (PCU)	Delay (s)	RFC
	2023 - Base			
Junction 1 - Arm 1	D1	59.9	271.01	1.17
Junction 1 - Arm 2		6.1	27.81	0.86
Junction 1 - Arm 4		1.2	3.45	0.52
Junction 2 - Arm 2		0.9	2.79	0.44
Junction 2 - Arm 3		2.0	10.68	0.65
Junction 2 - Arm 4		4.3	10.38	0.80
Junction 2 - Arm 5		0.0	0.00	0.00
	2025 - Base			
Junction 1 - Arm 1	D2	67.3	301.88	1.19
Junction 1 - Arm 2		6.5	29.32	0.87
Junction 1 - Arm 4		1.2	3.47	0.52
Junction 2 - Arm 2		0.9	2.80	0.44
Junction 2 - Arm 3		2.1	11.18	0.66
Junction 2 - Arm 4		4.5	10.75	0.81
Junction 2 - Arm 5		0.0	0.00	0.00
	2030 - RF Do Minimum			
Junction 1 - Arm 1	D3	201.7	1063.85	1.65
Junction 1 - Arm 2		31.1	115.23	1.03
Junction 1 - Arm 4		1.7	4.28	0.61
Junction 2 - Arm 2		1.1	3.10	0.49
Junction 2 - Arm 3		5.9	28.14	0.86
Junction 2 - Arm 4		14.4	31.97	0.94
Junction 2 - Arm 5		1.1	34.93	0.51
	2030 - RF Do Minimum + Development			
Junction 1 - Arm 1	D4	209.2	1102.19	1.67
Junction 1 - Arm 2		41.5	144.61	1.06
Junction 1 - Arm 4		1.8	4.33	0.62
Junction 2 - Arm 2		1.1	3.14	0.50
Junction 2 - Arm 3		6.7	31.68	0.87
Junction 2 - Arm 4		15.5	34.36	0.95
Junction 2 - Arm 5		1.1	36.95	0.52

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

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

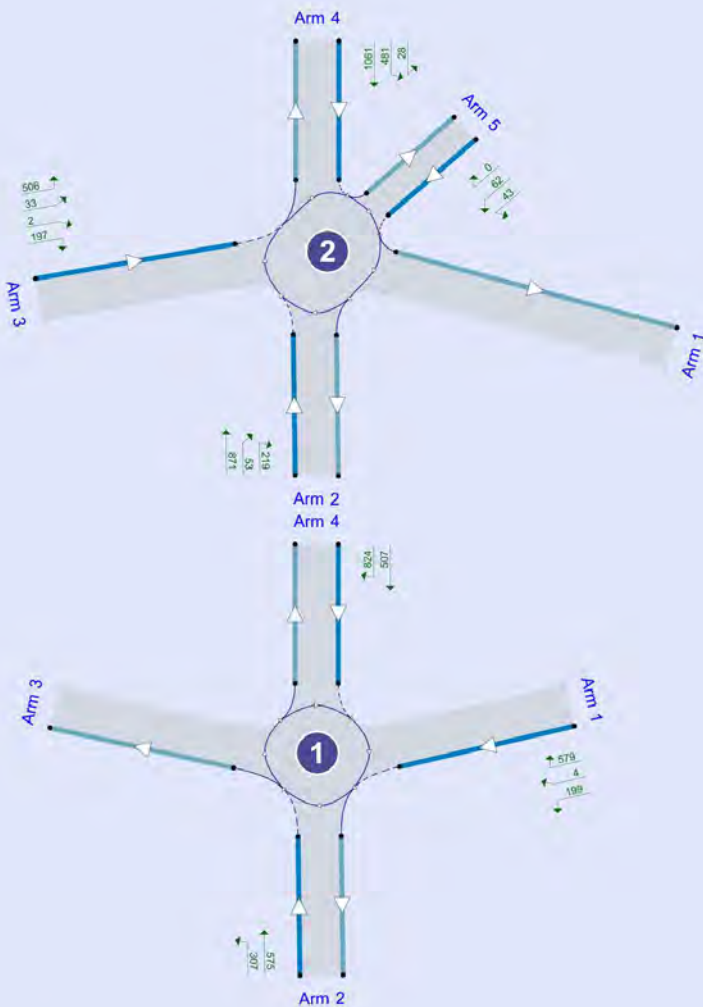
File summary

File Description

Title	
Location	Wrotham Road/A2 Southern Roundabout
Site number	7
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
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	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75	✓					0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023	Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓
D3	2030	RF Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D4	2030	RF Do Minimum + Development	AM	ONE HOUR	07:45	09:15	15	✓

Analysis Set Details

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

D1 - 2023 | Base | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	80.91	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	7.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	41.44	E

Arms

Arms

Junction	Arm	Name	Description	No give-way line
1	1	A2 (E) Off-Slip		
	2	Wrotham Road S		
	3	A2 (W) On-Slip		
	4	Wrotham Road N - Internal Link		
2	1	A2 (E) On-Slip		
	2	Wrotham Road S - Internal Link		
	3	A2 (W) Off-Slip		
	4	Wrotham Road N		
	5	Hotel access		

Roundabout Geometry

Junction	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)	Entry only	Exit only
1	1	3.70	8.50	10.2	19.1	59.9	60.0	✓	
	2	4.90	9.20	22.2	24.1	59.9	49.0		
	3								✓
	4	7.60	8.10	6.9	20.8	59.9	36.0		
2	1								✓
	2	7.10	9.30	17.9	31.1	63.9	47.0		
	3	7.00	10.20	17.9	40.0	63.9	24.0	✓	
	4	4.60	9.30	22.1	48.8	63.9	50.0		
	5	3.10	5.50	5.4	12.7	63.9	59.0		

Slope / Intercept / Capacity

Arm Intercept Adjustments

Junction	Arm	Type	Reason	Direct intercept adjustment (PCU/hr)
1	1	Direct	Calbration	-275
	2	Direct	Calibration	-440
	3			
	4	None		
2	1			
	2	None		
	3	Direct	Calibration	-1000
	4	None		
	5	None		

Roundabout Slope and Intercept used in model

Junction	Arm	Final slope	Final intercept (PCU/hr)
1	1	0.499	1245
	2	0.622	1717
	3		
	4	0.671	2380
2	1		
	2	0.662	2521
	3	0.741	1862
	4	0.600	2150
	5	0.400	1080

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023	Base	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	669	100.000
	2		ONE HOUR	✓	764	100.000
	3					
	4		ONE HOUR	✓	1118	100.000
2	1					
	2		ONE HOUR	✓	1000	100.000
	3		ONE HOUR	✓	614	100.000
	4		ONE HOUR	✓	1390	100.000
	5		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

		To			
From		1	2	3	4
	1	0	178	4	487
	2	0	0	251	513
	3	0	0	0	0
	4	0	456	662	0

Demand (PCU/hr)

Junction 2

		To				
From		1	2	3	4	5
	1	0	0	0	0	0
	2	194	0	0	806	0
	3	2	166	0	445	1
	4	441	949	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.17	271.01	59.9	105.8	F	614	921
	2	0.86	27.81	6.1	32.5	D	701	1052
	3							
	4	0.52	3.45	1.2	1.6	A	1026	1539
2	1							
	2	0.44	2.79	0.9	2.1	A	918	1376
	3	0.65	10.68	2.0	4.3	B	563	845
	4	0.80	10.38	4.3	18.1	B	1275	1913
	5	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	504	126	839	827	0.609	497	0	0.0	1.7	11.778	B
	2	575	144	862	1181	0.487	571	475	0.0	1.0	6.447	A
	3			745				688				
	4	842	210	0	2380	0.354	839	745	0.0	0.6	2.567	A
2	1			835				478				
	2	753	188	0	2521	0.299	751	835	0.0	0.5	2.236	A
	3	462	116	751	1306	0.354	460	0	0.0	0.6	4.669	A
	4	1046	262	272	1987	0.527	1042	939	0.0	1.2	4.169	A
	5	0	0	1313	555	0.000	0	0.75	0.0	0.0	0.000	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	601	150	1004	745	0.807	592	0	1.7	4.1	24.467	C
	2	687	172	1029	1077	0.638	683	567	1.0	1.9	9.966	A
	3			890				823				
	4	1005	251	0	2380	0.422	1004	890	0.6	0.8	2.877	A
2	1			1000				572				
	2	899	225	0	2521	0.357	898	1000	0.5	0.6	2.441	A
	3	552	138	898	1196	0.461	551	0	0.6	0.9	6.120	A
	4	1250	312	326	1955	0.639	1247	1123	1.2	1.9	5.571	A
	5	0	0	1572	452	0.000	0	0.90	0.0	0.0	0.000	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	737	184	1229	633	1.164	620	0	4.1	33.2	125.772	F
	2	841	210	1183	982	0.857	826	666	1.9	5.6	23.574	C
	3			1006				1003				
	4	1231	308	0	2380	0.517	1229	1006	0.8	1.2	3.437	A
2	1			1220				698				
	2	1101	275	0	2521	0.437	1100	1220	0.6	0.8	2.786	A
	3	676	169	1100	1047	0.646	672	0	0.9	1.9	10.447	B
	4	1530	383	398	1911	0.801	1521	1374	1.9	4.2	9.930	A
	5	0	0	1919	313	0.000	0	1	0.0	0.0	0.000	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	737	184	1231	632	1.166	630	0	33.2	59.9	271.014	F
	2	841	210	1191	977	0.861	839	670	5.6	6.1	27.808	D
	3			1022				1008				
	4	1231	308	0	2380	0.517	1231	1022	1.2	1.2	3.445	A
2	1			1227				701				
	2	1101	275	0	2521	0.437	1101	1227	0.8	0.9	2.789	A
	3	676	169	1101	1046	0.646	676	0	1.9	2.0	10.680	B
	4	1530	383	400	1910	0.801	1530	1377	4.2	4.3	10.376	B
	5	0	0	1928	309	0.000	0	1	0.0	0.0	0.000	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	601	150	1007	744	0.809	730	0	59.9	27.7	218.653	F
	2	687	172	1132	1013	0.678	702	605	6.1	2.4	13.263	B
	3			1003				831				
	4	1005	251	0	2380	0.422	1007	1003	1.2	0.8	2.885	A
2	1			1010				576				
	2	899	225	0	2521	0.357	900	1010	0.9	0.6	2.444	A
	3	552	138	900	1195	0.462	556	0	2.0	1.0	6.233	A
	4	1250	312	328	1954	0.640	1259	1128	4.3	2.0	5.773	A
	5	0	0	1586	446	0.000	0	0.91	0.0	0.0	0.000	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	504	126	843	825	0.610	607	0	27.7	1.8	27.763	D
	2	575	144	944	1130	0.509	580	505	2.4	1.2	7.265	A
	3			831				693				
	4	842	210	0	2380	0.354	843	831	0.8	0.6	2.578	A
2	1			842				481				
	2	753	188	0	2521	0.299	753	842	0.6	0.5	2.243	A
	3	462	116	753	1304	0.355	464	0	1.0	0.6	4.720	A
	4	1046	262	274	1986	0.527	1049	943	2.0	1.2	4.243	A
	5	0	0	1322	551	0.000	0	0.76	0.0	0.0	0.000	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.66	0.11	1.29	3.18	4.23			N/A	N/A
	2	1.03	0.61	1.10	1.54	1.60			N/A	N/A
	3									
	4	0.60	0.60	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	0.60	0.60	1.10	1.54	1.60			N/A	N/A
	4	1.21	0.61	1.10	1.54	1.60			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	4.05	0.08	1.46	10.91	16.37			N/A	N/A
	2	1.88	0.06	0.77	4.73	7.14			N/A	N/A
	3									
	4	0.80	0.09	0.88	1.54	1.63			N/A	N/A
2	1									
	2	0.61	0.08	0.80	1.48	1.57			N/A	N/A
	3	0.93	0.08	0.87	1.48	1.96			N/A	N/A
	4	1.92	0.05	0.52	5.07	8.13			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	33.19	10.80	29.94	54.91	63.84			N/A	N/A
	2	5.57	0.05	0.45	15.06	29.70			N/A	N/A
	3									
	4	1.17	0.03	0.28	1.17	1.17			N/A	N/A
2	1									
	2	0.85	0.03	0.28	0.85	0.85			N/A	N/A
	3	1.94	0.03	0.30	1.94	3.99			N/A	N/A
	4	4.19	0.03	0.33	4.19	18.07			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	59.88	24.79	55.86	92.95	105.77			N/A	N/A
	2	6.13	0.04	0.37	11.17	32.55			N/A	N/A
	3									
	4	1.17	0.03	0.29	1.17	1.17			N/A	N/A
2	1									
	2	0.85	0.03	0.30	0.85	2.15			N/A	N/A
	3	1.97	0.03	0.30	1.97	4.25			N/A	N/A
	4	4.31	0.03	0.30	4.31	7.14			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	27.66	7.78	24.45	47.32	55.65			N/A	N/A
	2	2.41	0.06	0.60	6.46	10.24			N/A	N/A
	3									
	4	0.81	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.61	0.61	1.10	1.54	1.60			N/A	N/A
	3	0.96	0.08	0.90	1.53	1.98			N/A	N/A
	4	1.99	0.06	0.86	5.00	7.46			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.81	0.03	0.30	1.81	3.79			N/A	N/A
	2	1.16	0.04	0.35	2.34	5.84			N/A	N/A
	3									
	4	0.60	0.60	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	0.61	0.05	0.45	1.54	1.54			N/A	N/A
	4	1.24	0.04	0.42	3.13	5.49			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

D2 - 2025 | Base | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	89.89	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	8.20	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	45.72	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	679	100.000
	2		ONE HOUR	✓	770	100.000
	3					
	4		ONE HOUR	✓	1126	100.000
2	1					
	2		ONE HOUR	✓	1007	100.000
	3		ONE HOUR	✓	624	100.000
	4		ONE HOUR	✓	1400	100.000
	5		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	181	4	494
	2	0	0	253	517
	3	0	0	0	0
	4	0	459	667	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	195	0	0	812	0
	3	2	169	0	452	1
	4	444	956	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.19	301.88	67.3	113.3	F	623	935
	2	0.87	29.32	6.5	35.1	D	707	1060
	3							
	4	0.52	3.47	1.2	1.6	A	1033	1550
2	1							
	2	0.44	2.80	0.9	2.1	A	924	1386
	3	0.66	11.18	2.1	5.1	B	573	859
	4	0.81	10.75	4.5	19.6	B	1285	1927
	5	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	511	128	845	824	0.620	504	0	0.0	1.7	12.136	B
	2	580	145	871	1176	0.493	575	479	0.0	1.1	6.550	A
	3			753				693				
	4	848	212	0	2380	0.356	845	753	0.0	0.6	2.576	A
2	1			843				481				
	2	758	190	0	2521	0.301	756	843	0.0	0.5	2.243	A
	3	470	117	756	1302	0.361	467	0	0.0	0.6	4.733	A
	4	1054	263	275	1985	0.531	1049	948	0.0	1.2	4.209	A
	5	0	0	1324	551	0.000	0	0.75	0.0	0.0	0.000	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	610	153	1011	741	0.824	600	0	1.7	4.4	26.179	D
	2	692	173	1039	1071	0.646	689	572	1.1	1.9	10.254	B
	3			899				829				
	4	1012	253	0	2380	0.425	1011	899	0.6	0.8	2.892	A
2	1			1009				575				
	2	905	226	0	2521	0.359	905	1009	0.5	0.6	2.451	A
	3	561	140	905	1192	0.471	560	0	0.6	1.0	6.250	A
	4	1259	315	329	1953	0.645	1256	1135	1.2	2.0	5.658	A
	5	0	0	1584	447	0.000	0	0.90	0.0	0.0	0.000	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	748	187	1238	628	1.190	618	0	4.4	36.9	137.793	F
	2	848	212	1187	979	0.866	832	669	1.9	5.9	24.620	C
	3			1008				1011				
	4	1240	310	0	2380	0.521	1238	1008	0.8	1.2	3.464	A
2	1			1231				703				
	2	1109	277	0	2521	0.440	1108	1231	0.6	0.9	2.802	A
	3	687	172	1108	1041	0.660	683	0	1.0	2.1	10.909	B
	4	1541	385	403	1909	0.808	1532	1388	2.0	4.4	10.259	B
	5	0	0	1933	307	0.000	0	1	0.0	0.0	0.000	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	748	187	1240	627	1.192	626	0	36.9	67.3	301.877	F
	2	848	212	1193	975	0.869	845	672	5.9	6.5	29.325	D
	3			1023				1016				
	4	1240	310	0	2380	0.521	1240	1023	1.2	1.2	3.472	A
2	1			1238				706				
	2	1109	277	0	2521	0.440	1109	1238	0.9	0.9	2.804	A
	3	687	172	1109	1041	0.660	687	0	2.1	2.1	11.181	B
	4	1541	385	404	1908	0.808	1541	1392	4.4	4.5	10.754	B
	5	0	0	1944	303	0.000	0	1	0.0	0.0	0.000	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	610	153	1014	740	0.825	728	0	67.3	37.9	260.628	F
	2	692	173	1135	1012	0.684	708	607	6.5	2.5	13.683	B
	3			1005				838				
	4	1012	253	0	2380	0.425	1014	1005	1.2	0.8	2.903	A
2	1			1019				580				
	2	905	226	0	2521	0.359	906	1019	0.9	0.6	2.456	A
	3	561	140	906	1191	0.471	565	0	2.1	1.0	6.379	A
	4	1259	315	331	1951	0.645	1268	1140	4.5	2.0	5.878	A
	5	0	0	1599	441	0.000	0	0.91	0.0	0.0	0.000	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	511	128	849	822	0.622	655	0	37.9	1.9	46.648	E
	2	580	145	983	1106	0.524	585	520	2.5	1.2	7.666	A
	3			869				699				
	4	848	212	0	2380	0.356	849	869	0.8	0.6	2.586	A
2	1			849				484				
	2	758	190	0	2521	0.301	759	849	0.6	0.5	2.248	A
	3	470	117	759	1300	0.361	471	0	1.0	0.6	4.788	A
	4	1054	263	277	1984	0.531	1057	953	2.0	1.3	4.285	A
	5	0	0	1333	547	0.000	0	0.76	0.0	0.0	0.000	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.73	0.10	1.27	3.53	4.79			N/A	N/A
	2	1.05	0.60	1.10	1.54	1.60			N/A	N/A
	3									
	4	0.61	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	0.62	0.61	1.10	1.54	1.60			N/A	N/A
	4	1.23	0.61	1.10	1.54	1.60			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	4.42	0.08	1.62	11.85	17.60			N/A	N/A
	2	1.95	0.06	0.78	4.94	7.45			N/A	N/A
	3									
	4	0.81	0.09	0.88	1.55	1.64			N/A	N/A
2	1									
	2	0.61	0.08	0.81	1.48	1.57			N/A	N/A
	3	0.97	0.08	0.86	1.65	2.08			N/A	N/A
	4	1.96	0.05	0.52	5.21	8.41			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	36.89	13.51	33.78	59.05	67.92			N/A	N/A
	2	5.88	0.05	0.47	16.24	30.90			N/A	N/A
	3									
	4	1.19	0.03	0.28	1.19	1.19			N/A	N/A
2	1									
	2	0.86	0.03	0.28	0.86	0.86			N/A	N/A
	3	2.06	0.03	0.31	2.06	5.11			N/A	N/A
	4	4.36	0.03	0.33	4.36	19.55			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	67.30	31.02	63.57	100.72	113.32			N/A	N/A
	2	6.50	0.04	0.38	12.90	35.11			N/A	N/A
	3									
	4	1.19	0.03	0.29	1.19	1.19			N/A	N/A
2	1									
	2	0.86	0.03	0.30	0.86	2.09			N/A	N/A
	3	2.10	0.03	0.30	2.10	4.69			N/A	N/A
	4	4.49	0.03	0.30	4.49	8.36			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	37.85	15.05	35.01	59.10	67.47			N/A	N/A
	2	2.48	0.05	0.54	6.75	10.89			N/A	N/A
	3									
	4	0.82	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.62	0.61	1.10	1.54	1.60			N/A	N/A
	3	0.99	0.08	0.89	1.70	2.12			N/A	N/A
	4	2.03	0.06	0.82	5.18	7.79			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.92	0.03	0.30	1.92	3.90			N/A	N/A
	2	1.23	0.04	0.35	2.54	6.25			N/A	N/A
	3									
	4	0.61	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	0.63	0.04	0.45	1.61	1.75			N/A	N/A
	4	1.26	0.04	0.41	3.17	5.71			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

D3 - 2030 | RF Do Minimum | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	315.77	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	22.03	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	155.77	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2030	RF Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	779	100.000
	2		ONE HOUR	✓	854	100.000
	3					
	4		ONE HOUR	✓	1321	100.000
2	1					
	2		ONE HOUR	✓	1131	100.000
	3		ONE HOUR	✓	731	100.000
	4		ONE HOUR	✓	1567	100.000
	5		ONE HOUR	✓	105	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	196	4	579
	2	0	0	291	563
	3	0	0	0	0
	4	0	497	824	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	213	0	0	865	53
	3	2	190	0	506	33
	4	481	1058	0	0	28
	5	43	62	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.65	1063.85	201.7	220.0	F	715	1072
	2	1.03	115.23	31.1	86.7	F	784	1175
	3							
	4	0.61	4.28	1.7	2.9	A	1212	1818
2	1							
	2	0.49	3.10	1.1	1.6	A	1038	1557
	3	0.86	28.14	5.9	31.8	D	671	1006
	4	0.94	31.97	14.4	77.1	D	1438	2157
	5	0.51	34.93	1.1	5.1	D	96	145

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	586	147	991	751	0.781	572	0	0.0	3.5	20.773	C
	2	643	161	1047	1066	0.603	636	517	0.0	1.6	9.080	A
	3			845				838				
	4	995	249	0	2380	0.418	991	845	0.0	0.8	2.846	A
2	1			980				553				
	2	851	213	0	2521	0.338	849	980	0.0	0.6	2.366	A
	3	550	138	849	1233	0.446	547	0	0.0	0.9	5.745	A
	4	1180	295	368	1929	0.611	1173	1028	0.0	1.7	5.189	A
	5	79	20	1456	498	0.159	78	85	0.0	0.2	9.416	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	700	175	1186	654	1.071	630	0	3.5	21.1	90.227	F
	2	768	192	1212	964	0.797	759	605	1.6	3.9	18.511	C
	3			968				1002				
	4	1188	297	0	2380	0.499	1186	968	0.8	1.1	3.315	A
2	1			1173				662				
	2	1017	254	0	2521	0.403	1016	1173	0.6	0.7	2.630	A
	3	657	164	1016	1109	0.592	654	0	0.9	1.6	8.653	A
	4	1409	352	440	1886	0.747	1403	1230	1.7	3.1	8.102	A
	5	94	24	1741	384	0.246	94	102	0.2	0.4	13.627	B

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	858	214	1452	522	1.644	521	0	21.1	105.2	450.839	F
	2	940	235	1296	912	1.031	875	677	3.9	20.2	64.351	F
	3			964				1207				
	4	1454	364	0	2380	0.611	1452	964	1.1	1.7	4.257	A
2	1			1412				801				
	2	1245	311	0	2521	0.494	1244	1412	0.7	1.1	3.099	A
	3	805	201	1244	940	0.856	789	0	1.6	5.5	24.055	C
	4	1725	431	535	1829	0.943	1689	1498	3.1	12.2	23.801	C
	5	116	29	2100	240	0.481	113	124	0.4	1.0	30.614	D

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	858	214	1454	520	1.648	520	0	105.2	189.6	910.353	F
	2	940	235	1297	911	1.032	897	678	20.2	31.1	115.227	F
	3			978				1215				
	4	1454	364	0	2380	0.611	1454	978	1.7	1.7	4.278	A
2	1			1436				811				
	2	1245	311	0	2521	0.494	1245	1436	1.1	1.1	3.104	A
	3	805	201	1245	940	0.857	803	0	5.5	5.9	28.137	D
	4	1725	431	540	1826	0.945	1717	1508	12.2	14.4	31.966	D
	5	116	29	2131	228	0.508	115	125	1.0	1.1	34.934	D

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	700	175	1190	652	1.074	652	0	189.6	201.7	1063.845	F
	2	768	192	1230	952	0.806	870	612	31.1	5.5	63.876	F
	3			1058				1042				
	4	1188	297	0	2380	0.499	1190	1058	1.7	1.1	3.334	A
2	1			1213				679				
	2	1017	254	0	2521	0.403	1018	1213	1.1	0.7	2.639	A
	3	657	164	1018	1108	0.593	674	0	5.9	1.6	9.484	A
	4	1409	352	447	1882	0.749	1453	1245	14.4	3.4	10.109	B
	5	94	24	1795	362	0.261	97	104	1.1	0.4	15.087	C

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	586	147	996	749	0.783	745	0	201.7	162.0	879.489	F
	2	643	161	1179	984	0.653	656	562	5.5	2.1	12.524	B
	3			986				849				
	4	995	249	0	2380	0.418	996	986	1.1	0.8	2.865	A
2	1			992				559				
	2	851	213	0	2521	0.338	852	992	0.7	0.6	2.374	A
	3	550	138	852	1231	0.447	553	0	1.6	0.9	5.871	A
	4	1180	295	371	1928	0.612	1186	1035	3.4	1.8	5.388	A
	5	79	20	1471	492	0.161	80	86	0.4	0.2	9.625	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	3.52	0.03	0.32	3.52	11.96			N/A	N/A
	2	1.63	0.22	1.43	2.66	3.22			N/A	N/A
	3									
	4	0.79	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.56	0.56	1.10	1.54	1.60			N/A	N/A
	3	0.88	0.61	1.10	1.54	1.60			N/A	N/A
	4	1.71	0.60	1.58	2.21	2.84			N/A	N/A
	5	0.20	0.00	0.00	0.20	0.20			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	21.06	0.33	10.97	53.56	73.78			N/A	N/A
	2	3.92	0.08	1.52	10.41	15.41			N/A	N/A
	3									
	4	1.09	0.07	0.84	2.05	2.86			N/A	N/A
2	1									
	2	0.74	0.09	0.88	1.51	1.59			N/A	N/A
	3	1.56	0.05	0.54	3.92	6.03			N/A	N/A
	4	3.14	0.05	0.52	8.75	14.75			N/A	N/A
	5	0.35	0.00	0.00	0.35	0.35			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	105.23	57.92	101.43	147.45	162.61			N/A	N/A
	2	20.22	1.17	14.64	43.50	55.46			N/A	N/A
	3									
	4	1.71	0.03	0.29	1.71	1.71			N/A	N/A
2	1									
	2	1.07	0.03	0.28	1.07	1.07			N/A	N/A
	3	5.49	0.05	0.46	14.93	29.14			N/A	N/A
	4	12.23	0.08	1.64	35.67	57.46			N/A	N/A
	5	0.96	0.03	0.30	0.96	2.11			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	189.57	>199	>199	>199	>199			N/A	N/A
	2	31.11	1.93	22.58	67.81	86.69			N/A	N/A
	3									
	4	1.72	0.03	0.29	1.72	1.72			N/A	N/A
2	1									
	2	1.07	0.03	0.29	1.07	1.37			N/A	N/A
	3	5.95	0.04	0.37	11.29	31.82			N/A	N/A
	4	14.37	0.05	0.53	40.44	77.15			N/A	N/A
	5	1.07	0.04	0.38	2.56	5.12			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	201.66	>199	>199	>199	>199			N/A	N/A
	2	5.48	0.05	0.52	15.60	27.67			N/A	N/A
	3									
	4	1.10	0.48	1.13	1.64	1.64			N/A	N/A
2	1									
	2	0.75	0.61	1.10	1.54	1.60			N/A	N/A
	3	1.64	0.04	0.45	4.31	7.49			N/A	N/A
	4	3.40	0.05	0.46	9.36	17.20			N/A	N/A
	5	0.40	0.03	0.34	1.05	1.35			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	162.03	>199	>199	>199	>199			N/A	N/A
	2	2.15	0.03	0.33	2.19	9.82			N/A	N/A
	3									
	4	0.79	0.10	0.90	1.53	1.61			N/A	N/A
2	1									
	2	0.56	0.56	1.10	1.54	1.60			N/A	N/A
	3	0.90	0.03	0.34	1.58	4.40			N/A	N/A
	4	1.76	0.03	0.34	2.64	8.77			N/A	N/A
	5	0.21	0.03	0.29	0.52	0.55			N/A	N/A

D4 - 2030 | RF Do Minimum + Development | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	332.30	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	23.85	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	164.86	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2030	RF Do Minimum + Development	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	782	100.000
	2		ONE HOUR	✓	882	100.000
	3					
	4		ONE HOUR	✓	1331	100.000
2	1					
	2		ONE HOUR	✓	1143	100.000
	3		ONE HOUR	✓	738	100.000
	4		ONE HOUR	✓	1570	100.000
	5		ONE HOUR	✓	105	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	199	4	579
	2	0	0	307	575
	3	0	0	0	0
	4	0	507	824	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	219	0	0	871	53
	3	2	197	0	506	33
	4	481	1061	0	0	28
	5	43	62	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
		1	2	3	4	5
From	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.67	1102.19	209.2	220.0	F	718	1076
	2	1.06	144.61	41.5	97.2	F	809	1214
	3							
	4	0.62	4.33	1.8	3.0	A	1221	1832
2	1							
	2	0.50	3.14	1.1	1.6	A	1049	1573
	3	0.87	31.68	6.7	36.8	D	677	1016
	4	0.95	34.36	15.5	81.3	D	1441	2161
	5	0.52	36.95	1.1	5.4	E	96	145

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	589	147	999	748	0.788	574	0	0.0	3.6	21.355	C
	2	664	166	1046	1067	0.623	657	527	0.0	1.8	9.512	A
	3			853				850				
	4	1002	251	0	2380	0.421	999	853	0.0	0.8	2.862	A
2	1			988				558				
	2	861	215	0	2521	0.341	858	988	0.0	0.6	2.379	A
	3	556	139	858	1226	0.453	552	0	0.0	0.9	5.845	A
	4	1182	295	378	1924	0.614	1175	1032	0.0	1.7	5.243	A
	5	79	20	1467	493	0.160	78	85	0.0	0.2	9.522	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	703	176	1195	650	1.082	628	0	3.6	22.4	95.230	F
	2	793	198	1208	966	0.821	782	615	1.8	4.5	20.408	C
	3			975				1015				
	4	1197	299	0	2380	0.503	1195	975	0.8	1.1	3.340	A
2	1			1182				668				
	2	1028	257	0	2521	0.408	1027	1182	0.6	0.8	2.649	A
	3	663	166	1027	1101	0.602	661	0	0.9	1.6	8.925	A
	4	1411	353	452	1879	0.751	1405	1235	1.7	3.2	8.260	A
	5	94	24	1755	378	0.250	94	102	0.2	0.4	13.896	B

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	861	215	1463	516	1.668	516	0	22.4	108.8	472.592	F
	2	971	243	1290	915	1.061	888	688	4.5	25.3	75.363	F
	3			961				1217				
	4	1465	366	0	2380	0.616	1463	961	1.1	1.7	4.306	A
2	1			1421				807				
	2	1258	315	0	2521	0.499	1257	1421	0.8	1.1	3.132	A
	3	813	203	1257	931	0.873	795	0	1.6	6.1	26.276	D
	4	1729	432	549	1821	0.949	1690	1503	3.2	13.0	24.956	C
	5	116	29	2115	235	0.493	113	124	0.4	1.0	31.951	D

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	861	215	1465	515	1.672	515	0	108.8	195.3	943.066	F
	2	971	243	1291	914	1.062	906	689	25.3	41.5	144.611	F
	3			972				1225				
	4	1465	366	0	2380	0.616	1465	972	1.7	1.8	4.330	A
2	1			1446				817				
	2	1258	315	0	2521	0.499	1258	1446	1.1	1.1	3.137	A
	3	813	203	1258	930	0.874	810	0	6.1	6.7	31.684	D
	4	1729	432	554	1818	0.951	1718	1514	13.0	15.5	34.361	D
	5	116	29	2147	221	0.522	115	125	1.0	1.1	36.949	E

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	703	176	1199	648	1.085	647	0	195.3	209.2	1102.191	F
	2	793	198	1225	955	0.830	927	622	41.5	7.9	102.214	F
	3			1084				1068				
	4	1197	299	0	2380	0.503	1199	1084	1.8	1.1	3.360	A
2	1			1226				686				
	2	1028	257	0	2521	0.408	1029	1226	1.1	0.8	2.656	A
	3	663	166	1029	1100	0.603	683	0	6.7	1.7	9.948	A
	4	1411	353	460	1874	0.753	1459	1253	15.5	3.5	10.582	B
	5	94	24	1815	354	0.266	97	104	1.1	0.4	15.570	C

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	589	147	1003	745	0.790	741	0	209.2	171.0	923.886	F
	2	664	166	1174	987	0.673	686	571	7.9	2.4	14.042	B
	3			996				864				
	4	1002	251	0	2380	0.421	1003	996	1.1	0.8	2.878	A
2	1			1000				563				
	2	861	215	0	2521	0.341	861	1000	0.8	0.6	2.389	A
	3	556	139	861	1224	0.454	559	0	1.7	0.9	5.980	A
	4	1182	295	381	1922	0.615	1189	1039	3.5	1.8	5.450	A
	5	79	20	1483	487	0.162	80	86	0.4	0.2	9.745	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	3.64	0.03	0.31	3.64	11.11			N/A	N/A
	2	1.76	0.17	1.46	3.10	3.99			N/A	N/A
	3									
	4	0.80	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.57	0.57	1.10	1.54	1.60			N/A	N/A
	3	0.90	0.61	1.10	1.54	1.60			N/A	N/A
	4	1.73	0.59	1.59	2.35	2.93			N/A	N/A
	5	0.21	0.00	0.00	0.21	0.21			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	22.44	0.35	11.79	57.01	78.44			N/A	N/A
	2	4.48	0.09	1.28	11.84	17.35			N/A	N/A
	3									
	4	1.10	0.07	0.84	2.09	2.96			N/A	N/A
2	1									
	2	0.75	0.09	0.88	1.51	1.59			N/A	N/A
	3	1.63	0.05	0.53	4.13	6.41			N/A	N/A
	4	3.21	0.05	0.52	8.96	15.07			N/A	N/A
	5	0.36	0.00	0.00	0.36	0.36			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	108.79	59.52	104.82	152.88	168.75			N/A	N/A
	2	25.32	3.46	20.35	49.76	61.28			N/A	N/A
	3									
	4	1.74	0.03	0.29	1.74	1.74			N/A	N/A
2	1									
	2	1.09	0.03	0.28	1.09	1.09			N/A	N/A
	3	6.11	0.05	0.50	17.27	31.48			N/A	N/A
	4	12.97	0.09	2.26	37.68	59.35			N/A	N/A
	5	1.00	0.03	0.30	1.00	2.58			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	195.32	>199	>199	>199	>199			N/A	N/A
	2	41.52	7.08	34.49	79.73	97.18			N/A	N/A
	3									
	4	1.75	0.03	0.29	1.75	1.75			N/A	N/A
2	1									
	2	1.09	0.03	0.29	1.09	1.28			N/A	N/A
	3	6.72	0.04	0.40	14.97	36.83			N/A	N/A
	4	15.51	0.06	0.89	44.77	81.28			N/A	N/A
	5	1.13	0.04	0.38	2.74	5.40			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	209.20	>199	>199	>199	>199			N/A	N/A
	2	7.91	0.07	1.14	22.74	35.96			N/A	N/A
	3									
	4	1.12	0.44	1.13	1.24	1.73			N/A	N/A
2	1									
	2	0.76	0.61	1.10	1.54	1.60			N/A	N/A
	3	1.72	0.04	0.43	4.50	8.07			N/A	N/A
	4	3.49	0.05	0.46	9.58	17.71			N/A	N/A
	5	0.41	0.03	0.35	1.14	1.39			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	171.04	>199	>199	>199	>199			N/A	N/A
	2	2.35	0.03	0.33	2.35	10.50			N/A	N/A
	3									
	4	0.80	0.10	0.90	1.54	1.62			N/A	N/A
2	1									
	2	0.57	0.57	1.10	1.54	1.60			N/A	N/A
	3	0.93	0.03	0.33	1.41	4.49			N/A	N/A
	4	1.78	0.03	0.34	2.53	8.78			N/A	N/A
	5	0.22	0.03	0.29	0.53	0.73			N/A	N/A

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.0.2307
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Filename: Junction 7 - Wrotham Road_A2 Linked Rbt - Base Model PM.j11

Path: C:\Users\mattjohnson\Ridge and Partners LLP\Hub Transport Planning - General\Projects\T25526 Longfield Road, Meopham\Modelling\Arcady\Rose Farm

Report generation date: 11/08/2026 07:59:13

»D1 - 2023 | Base | PM
»D2 - 2025 | Base | PM
»D3 - 2030 | RF Do Minimum | PM
»D4 - 2030 | RF Do Minimum + Development | PM

Summary of junction performance

	PM			
	Set ID	Queue (PCU)	Delay (s)	RFC
	2023 - Base			
Junction 1 - Arm 1	D1	60.8	300.18	1.19
Junction 1 - Arm 2		5.8	26.09	0.85
Junction 1 - Arm 4		1.2	3.45	0.52
Junction 2 - Arm 2		0.9	2.81	0.44
Junction 2 - Arm 3		5.2	15.55	0.83
Junction 2 - Arm 4		4.4	11.14	0.80
Junction 2 - Arm 5		0.0	0.00	0.00
	2025 - Base			
Junction 1 - Arm 1	D2	66.9	328.51	1.21
Junction 1 - Arm 2		6.0	27.10	0.86
Junction 1 - Arm 4		1.2	3.47	0.52
Junction 2 - Arm 2		0.9	2.82	0.44
Junction 2 - Arm 3		5.7	17.00	0.85
Junction 2 - Arm 4		4.6	11.54	0.81
Junction 2 - Arm 5		0.0	0.00	0.00
	2030 - RF Do Minimum			
Junction 1 - Arm 1	D3	192.8	1094.00	1.68
Junction 1 - Arm 2		16.5	67.43	0.97
Junction 1 - Arm 4		1.6	4.15	0.60
Junction 2 - Arm 2		1.1	3.17	0.50
Junction 2 - Arm 3		69.3	151.06	1.08
Junction 2 - Arm 4		12.1	29.17	0.93
Junction 2 - Arm 5		1.7	51.55	0.63
	2030 - RF Do Minimum + Development			
Junction 1 - Arm 1	D4	208.5	1180.33	1.74
Junction 1 - Arm 2		18.8	74.21	0.98
Junction 1 - Arm 4		1.7	4.26	0.61
Junction 2 - Arm 2		1.1	3.19	0.50
Junction 2 - Arm 3		78.9	169.32	1.10
Junction 2 - Arm 4		13.3	31.75	0.94
Junction 2 - Arm 5		1.9	56.60	0.66

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

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

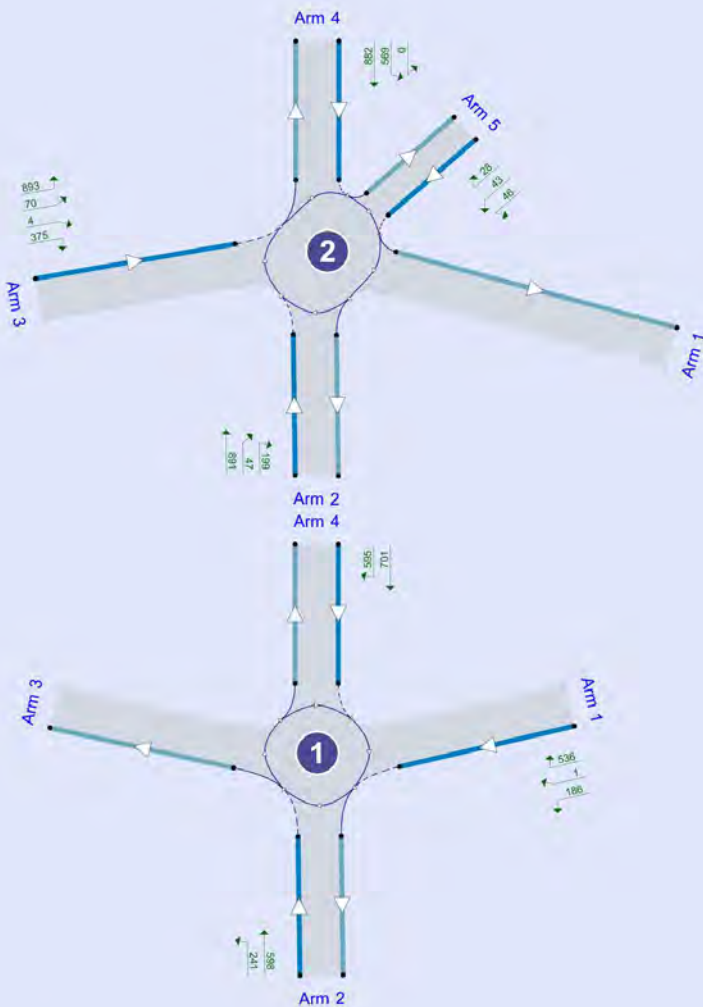
File summary

File Description

Title	
Location	Wrotham Road/A2 Southern Roundabout
Site number	7
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
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	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75	✓					0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023	Base	PM	ONE HOUR	16:45	18:15	15	✓
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2030	RF Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓
D4	2030	RF Do Minimum + Development	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

D1 - 2023 | Base | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	83.59	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	10.14	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	40.99	E

Arms

Arms

Junction	Arm	Name	Description	No give-way line
1	1	A2 (E) Off-Slip		
	2	Wrotham Road S		
	3	A2 (W) On-Slip		
	4	Wrotham Road N - Internal Link		
2	1	A2 (E) On-Slip		
	2	Wrotham Road S - Internal Link		
	3	A2 (W) Off-Slip		
	4	Wrotham Road N		
	5	Hotel access		

Roundabout Geometry

Junction	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)	Entry only	Exit only
1	1	3.70	8.50	10.2	19.1	59.9	60.0	✓	
	2	4.90	9.20	22.2	24.1	59.9	49.0		
	3								✓
	4	7.60	8.10	6.9	20.8	59.9	36.0		
2	1								✓
	2	7.10	9.30	17.9	31.1	63.9	47.0		
	3	7.00	10.20	17.9	40.0	63.9	24.0	✓	
	4	4.60	9.30	22.1	48.8	63.9	50.0		
	5	3.10	5.50	5.4	12.7	63.9	59.0		

Slope / Intercept / Capacity

Arm Intercept Adjustments

Junction	Arm	Type	Reason	Direct intercept adjustment (PCU/hr)
1	1	Direct	Calbration	-335
	2	Direct	Calibration	-580
	3			
	4	None		
2	1			
	2	None		
	3	Direct	Calibration	-550
	4	None		
	5	None		

Roundabout Slope and Intercept used in model

Junction	Arm	Final slope	Final intercept (PCU/hr)
1	1	0.499	1185
	2	0.622	1577
	3		
	4	0.671	2380
2	1		
	2	0.662	2521
	3	0.741	2312
	4	0.600	2150
	5	0.400	1080

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023	Base	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	617	100.000
	2		ONE HOUR	✓	766	100.000
	3					
	4		ONE HOUR	✓	1118	100.000
2	1					
	2		ONE HOUR	✓	1009	100.000
	3		ONE HOUR	✓	1124	100.000
	4		ONE HOUR	✓	1321	100.000
	5		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	169	1	447
	2	0	0	214	552
	3	0	0	0	0
	4	0	635	483	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	182	0	0	827	0
	3	4	332	0	788	0
	4	531	790	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.19	300.18	60.8	104.6	F	566	849
	2	0.85	26.09	5.8	29.7	D	703	1054
	3							
	4	0.52	3.45	1.2	1.6	A	1026	1539
2	1							
	2	0.44	2.81	0.9	2.1	A	926	1389
	3	0.83	15.55	5.2	26.3	C	1031	1547
	4	0.80	11.14	4.4	19.2	B	1212	1818
	5	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	465	116	839	767	0.606	458	0	0.0	1.6	12.566	B
	2	577	144	695	1145	0.504	572	602	0.0	1.1	6.864	A
	3			744				523				
	4	842	210	0	2380	0.354	839	744	0.0	0.6	2.567	A
2	1			841				538				
	2	760	190	0	2521	0.301	758	841	0.0	0.5	2.244	A
	3	846	212	758	1751	0.483	842	0	0.0	1.0	4.340	A
	4	995	249	388	1917	0.519	990	1211	0.0	1.2	4.249	A
	5	0	0	1378	529	0.000	0	0	0.0	0.0	0.000	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	555	139	1004	685	0.810	545	0	1.6	4.1	26.618	D
	2	689	172	830	1061	0.649	685	720	1.1	2.0	10.427	B
	3			889				626				
	4	1005	251	0	2380	0.422	1004	889	0.6	0.8	2.877	A
2	1			1006				643				
	2	907	227	0	2521	0.360	906	1006	0.5	0.6	2.453	A
	3	1010	253	906	1640	0.616	1008	0	1.0	1.7	6.229	A
	4	1188	297	465	1871	0.635	1185	1449	1.2	1.9	5.743	A
	5	0	0	1649	420	0.000	0	0	0.0	0.0	0.000	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	679	170	1229	573	1.187	562	0	4.1	33.5	138.874	F
	2	843	211	939	993	0.849	830	852	2.0	5.3	22.594	C
	3			1005				764				
	4	1231	308	0	2380	0.517	1229	1005	0.8	1.2	3.437	A
2	1			1226				785				
	2	1111	278	0	2521	0.441	1110	1226	0.6	0.9	2.806	A
	3	1238	309	1110	1490	0.831	1225	0	1.7	4.9	14.304	B
	4	1454	364	566	1810	0.803	1445	1768	1.9	4.2	10.572	B
	5	0	0	2011	276	0.000	0	0	0.0	0.0	0.000	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	679	170	1231	572	1.188	570	0	33.5	60.8	300.182	F
	2	843	211	946	989	0.853	841	855	5.3	5.8	26.091	D
	3			1019				768				
	4	1231	308	0	2380	0.517	1231	1019	1.2	1.2	3.445	A
2	1			1235				789				
	2	1111	278	0	2521	0.441	1111	1235	0.9	0.9	2.808	A
	3	1238	309	1111	1489	0.831	1237	0	4.9	5.2	15.552	C
	4	1454	364	570	1808	0.804	1454	1778	4.2	4.4	11.136	B
	5	0	0	2024	271	0.000	0	0	0.0	0.0	0.000	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	555	139	1007	684	0.811	672	0	60.8	31.5	249.036	F
	2	689	172	922	1004	0.686	702	756	5.8	2.5	13.640	B
	3			992				632				
	4	1005	251	0	2380	0.422	1007	992	1.2	0.8	2.885	A
2	1			1018				649				
	2	907	227	0	2521	0.360	908	1018	0.9	0.6	2.456	A
	3	1010	253	908	1639	0.616	1024	0	5.2	1.8	6.569	A
	4	1188	297	470	1868	0.636	1197	1462	4.4	2.0	5.984	A
	5	0	0	1667	413	0.000	0	0	0.0	0.0	0.000	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	465	116	843	765	0.607	583	0	31.5	1.8	37.948	E
	2	577	144	788	1087	0.530	582	638	2.5	1.3	7.903	A
	3			842				527				
	4	842	210	0	2380	0.354	843	842	0.8	0.6	2.578	A
2	1			847				541				
	2	760	190	0	2521	0.301	760	847	0.6	0.5	2.249	A
	3	846	212	760	1749	0.484	849	0	1.8	1.0	4.418	A
	4	995	249	391	1916	0.519	998	1218	2.0	1.2	4.328	A
	5	0	0	1389	525	0.000	0	0	0.0	0.0	0.000	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.63	0.10	1.24	3.20	4.29			N/A	N/A
	2	1.10	0.61	1.10	1.54	1.60			N/A	N/A
	3									
	4	0.60	0.60	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	1.02	0.61	1.10	1.54	1.60			N/A	N/A
	4	1.17	0.61	1.10	1.54	1.60			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	4.07	0.08	1.51	10.89	16.25			N/A	N/A
	2	1.97	0.06	0.89	4.92	7.31			N/A	N/A
	3									
	4	0.80	0.09	0.88	1.54	1.63			N/A	N/A
2	1									
	2	0.62	0.08	0.82	1.48	1.57			N/A	N/A
	3	1.73	0.05	0.50	4.51	7.30			N/A	N/A
	4	1.88	0.05	0.52	4.94	7.86			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	33.47	11.60	30.43	54.36	62.83			N/A	N/A
	2	5.31	0.04	0.44	13.95	28.60			N/A	N/A
	3									
	4	1.17	0.03	0.28	1.17	1.17			N/A	N/A
2	1									
	2	0.86	0.03	0.28	0.86	0.86			N/A	N/A
	3	4.94	0.04	0.37	9.29	26.30			N/A	N/A
	4	4.25	0.03	0.33	4.25	19.16			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	60.76	26.70	57.07	92.43	104.55			N/A	N/A
	2	5.79	0.04	0.36	9.18	29.67			N/A	N/A
	3									
	4	1.17	0.03	0.29	1.17	1.17			N/A	N/A
2	1									
	2	0.86	0.03	0.30	0.86	2.07			N/A	N/A
	3	5.16	0.03	0.32	5.16	19.47			N/A	N/A
	4	4.38	0.03	0.31	4.38	8.74			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	31.54	10.71	28.58	51.47	59.61			N/A	N/A
	2	2.51	0.06	0.65	6.74	10.67			N/A	N/A
	3									
	4	0.81	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.62	0.61	1.10	1.54	1.60			N/A	N/A
	3	1.80	0.05	0.52	4.69	7.46			N/A	N/A
	4	1.95	0.06	0.81	4.94	7.43			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.80	0.03	0.30	1.80	3.47			N/A	N/A
	2	1.26	0.04	0.36	2.83	6.38			N/A	N/A
	3									
	4	0.60	0.60	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.48	0.00	0.00	0.48	0.48			N/A	N/A
	3	1.04	0.04	0.37	2.36	5.09			N/A	N/A
	4	1.20	0.04	0.41	3.02	5.40			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

D2 - 2025 | Base | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	91.28	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	10.79	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	44.58	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	625	100.000
	2		ONE HOUR	✓	771	100.000
	3					
	4		ONE HOUR	✓	1125	100.000
2	1					
	2		ONE HOUR	✓	1015	100.000
	3		ONE HOUR	✓	1140	100.000
	4		ONE HOUR	✓	1329	100.000
	5		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	171	1	453
	2	0	0	215	556
	3	0	0	0	0
	4	0	639	486	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	183	0	0	832	0
	3	4	337	0	799	0
	4	534	795	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

	To					
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.21	328.51	66.9	110.8	F	574	860
	2	0.86	27.10	6.0	31.6	D	707	1061
	3							
	4	0.52	3.47	1.2	1.6	A	1032	1548
2	1							
	2	0.44	2.82	0.9	2.0	A	931	1397
	3	0.85	17.00	5.7	29.4	C	1046	1569
	4	0.81	11.54	4.6	20.5	B	1220	1829
	5	0.00	0.00	0.0	~1	A	0	0

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	471	118	845	764	0.616	464	0	0.0	1.7	12.899	B
	2	580	145	702	1141	0.509	576	607	0.0	1.1	6.957	A
	3			751				526				
	4	847	212	0	2380	0.356	845	751	0.0	0.6	2.571	A
2	1			848				541				
	2	764	191	0	2521	0.303	762	848	0.0	0.5	2.250	A
	3	858	215	762	1747	0.491	854	0	0.0	1.1	4.414	A
	4	1001	250	393	1914	0.523	996	1223	0.0	1.2	4.288	A
	5	0	0	1389	525	0.000	0	0	0.0	0.0	0.000	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	562	140	1011	682	0.824	551	0	1.7	4.4	28.239	D
	2	693	173	837	1057	0.656	689	725	1.1	2.0	10.674	B
	3			897				630				
	4	1011	253	0	2380	0.425	1011	897	0.6	0.8	2.890	A
2	1			1015				647				
	2	912	228	0	2521	0.362	912	1015	0.5	0.6	2.462	A
	3	1025	256	912	1636	0.626	1022	0	1.1	1.8	6.411	A
	4	1195	299	470	1868	0.640	1192	1464	1.2	1.9	5.829	A
	5	0	0	1662	416	0.000	0	0	0.0	0.0	0.000	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	688	172	1237	569	1.210	559	0	4.4	36.6	150.145	F
	2	849	212	941	992	0.856	835	856	2.0	5.5	23.332	C
	3			1008				768				
	4	1239	310	0	2380	0.520	1237	1008	0.8	1.2	3.461	A
2	1			1236				790				
	2	1118	279	0	2521	0.443	1117	1236	0.6	0.9	2.819	A
	3	1255	314	1117	1485	0.845	1241	0	1.8	5.4	15.397	C
	4	1463	366	572	1807	0.810	1453	1785	1.9	4.4	10.907	B
	5	0	0	2026	270	0.000	0	0	0.0	0.0	0.000	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	688	172	1239	568	1.212	567	0	36.6	66.9	328.506	F
	2	849	212	947	989	0.859	847	859	5.5	6.0	27.102	D
	3			1021				772				
	4	1239	310	0	2380	0.520	1239	1021	1.2	1.2	3.469	A
2	1			1246				794				
	2	1118	279	0	2521	0.443	1118	1246	0.9	0.9	2.821	A
	3	1255	314	1118	1484	0.846	1254	0	5.4	5.7	17.000	C
	4	1463	366	577	1804	0.811	1463	1795	4.4	4.6	11.542	B
	5	0	0	2039	265	0.000	0	0	0.0	0.0	0.000	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	562	140	1013	681	0.826	670	0	66.9	40.0	287.014	F
	2	693	173	924	1003	0.691	707	758	6.0	2.6	13.962	B
	3			995				636				
	4	1011	253	0	2380	0.425	1013	995	1.2	0.8	2.901	A
2	1			1028				653				
	2	912	228	0	2521	0.362	913	1028	0.9	0.6	2.465	A
	3	1025	256	913	1635	0.627	1040	0	5.7	1.9	6.819	A
	4	1195	299	476	1865	0.641	1205	1478	4.6	2.0	6.095	A
	5	0	0	1681	408	0.000	0	0	0.0	0.0	0.000	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	471	118	848	763	0.617	623	0	40.0	1.9	60.300	F
	2	580	145	819	1068	0.543	585	652	2.6	1.3	8.286	A
	3			874				530				
	4	847	212	0	2380	0.356	848	874	0.8	0.6	2.585	A
2	1			855				544				
	2	764	191	0	2521	0.303	765	855	0.6	0.5	2.255	A
	3	858	215	765	1745	0.492	861	0	1.9	1.1	4.496	A
	4	1001	250	396	1913	0.523	1004	1231	2.0	1.2	4.371	A
	5	0	0	1399	521	0.000	0	0	0.0	0.0	0.000	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.70	0.09	1.21	3.51	4.82			N/A	N/A
	2	1.12	0.61	1.10	1.54	1.60			N/A	N/A
	3									
	4	0.61	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.48	0.00	0.00	0.48	0.48			N/A	N/A
	3	1.05	0.61	1.10	1.54	1.60			N/A	N/A
	4	1.19	0.61	1.10	1.54	1.60			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	4.39	0.08	1.64	11.74	17.38			N/A	N/A
	2	2.03	0.06	0.90	5.10	7.57			N/A	N/A
	3									
	4	0.81	0.09	0.88	1.55	1.64			N/A	N/A
2	1									
	2	0.62	0.08	0.83	1.49	1.57			N/A	N/A
	3	1.81	0.05	0.50	4.79	7.77			N/A	N/A
	4	1.92	0.05	0.52	5.07	8.13			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	36.56	13.90	33.64	57.89	66.39			N/A	N/A
	2	5.53	0.04	0.45	14.86	29.61			N/A	N/A
	3									
	4	1.18	0.03	0.28	1.18	1.18			N/A	N/A
2	1									
	2	0.87	0.03	0.28	0.87	0.87			N/A	N/A
	3	5.41	0.04	0.38	11.63	29.45			N/A	N/A
	4	4.41	0.03	0.34	4.87	20.54			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	66.92	31.93	63.44	98.88	110.84			N/A	N/A
	2	6.04	0.04	0.36	10.32	31.58			N/A	N/A
	3									
	4	1.19	0.03	0.29	1.19	1.19			N/A	N/A
2	1									
	2	0.87	0.03	0.30	0.87	2.01			N/A	N/A
	3	5.69	0.03	0.33	5.69	24.05			N/A	N/A
	4	4.56	0.03	0.31	4.56	10.06			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	40.00	16.89	37.28	61.31	69.61			N/A	N/A
	2	2.57	0.06	0.55	7.01	11.23			N/A	N/A
	3									
	4	0.82	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.63	0.61	1.10	1.54	1.60			N/A	N/A
	3	1.88	0.05	0.50	5.01	8.14			N/A	N/A
	4	2.00	0.06	0.76	5.11	7.73			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	1.90	0.03	0.30	1.90	3.64			N/A	N/A
	2	1.33	0.04	0.37	3.02	6.76			N/A	N/A
	3									
	4	0.61	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.48	0.00	0.00	0.48	0.48			N/A	N/A
	3	1.07	0.04	0.36	2.32	5.33			N/A	N/A
	4	1.22	0.04	0.40	3.06	5.62			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A

D3 - 2030 | RF Do Minimum | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	298.43	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	62.93	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	160.41	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2030	RF Do Minimum	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	723	100.000
	2		ONE HOUR	✓	839	100.000
	3					
	4		ONE HOUR	✓	1296	100.000
2	1					
	2		ONE HOUR	✓	1137	100.000
	3		ONE HOUR	✓	1342	100.000
	4		ONE HOUR	✓	1451	100.000
	5		ONE HOUR	✓	117	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	186	1	536
	2	0	0	241	598
	3	0	0	0	0
	4	0	701	595	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	199	0	0	891	47
	3	4	375	0	893	70
	4	569	882	0	0	0
	5	46	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

		To				
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.68	1094.00	192.8	220.0	F	663	995
	2	0.97	67.43	16.5	70.3	F	770	1155
	3							
	4	0.60	4.15	1.6	2.6	A	1189	1784
2	1							
	2	0.50	3.17	1.1	1.6	A	1043	1565
	3	1.08	151.06	69.3	137.8	F	1231	1847
	4	0.93	29.17	12.1	66.6	D	1331	1997
	5	0.63	51.55	1.7	8.6	F	107	161

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	544	136	973	701	0.777	531	0	0.0	3.4	21.825	C
	2	632	158	841	1054	0.599	625	663	0.0	1.6	9.095	A
	3			839				627				
	4	976	244	0	2380	0.410	973	839	0.0	0.8	2.808	A
2	1			993				613				
	2	856	214	21	2507	0.341	854	973	0.0	0.6	2.392	A
	3	1010	253	875	1664	0.607	1004	0	0.0	1.7	5.938	A
	4	1092	273	521	1838	0.594	1086	1358	0.0	1.6	5.224	A
	5	88	22	1519	473	0.186	87	88	0.0	0.2	10.246	B

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	650	162	1164	605	1.074	582	0	3.4	20.3	94.586	F
	2	754	189	967	976	0.773	747	779	1.6	3.5	16.750	C
	3			964				750				
	4	1165	291	0	2380	0.490	1164	964	0.8	1.0	3.254	A
2	1			1188				733				
	2	1022	256	25	2504	0.408	1021	1163	0.6	0.8	2.669	A
	3	1206	302	1046	1537	0.785	1198	0	1.7	3.8	11.407	B
	4	1304	326	622	1777	0.734	1299	1623	1.6	2.9	8.192	A
	5	105	26	1816	354	0.297	104	105	0.2	0.5	15.820	C

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	796	199	1425	475	1.675	475	0	20.3	100.7	474.321	F
	2	924	231	1007	951	0.971	886	893	3.5	12.8	45.458	E
	3			984				909				
	4	1427	357	0	2380	0.600	1425	984	1.0	1.6	4.135	A
2	1			1402				886				
	2	1252	313	30	2501	0.501	1251	1372	0.8	1.1	3.165	A
	3	1478	369	1280	1364	1.084	1336	0	3.8	39.2	69.406	F
	4	1598	399	718	1720	0.929	1567	1899	2.9	10.5	22.533	C
	5	129	32	2163	215	0.599	125	121	0.5	1.5	42.174	E

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	796	199	1427	474	1.679	474	0	100.7	181.2	943.357	F
	2	924	231	1007	951	0.971	909	894	12.8	16.5	67.429	F
	3			999				917				
	4	1427	357	0	2380	0.600	1427	999	1.6	1.6	4.155	A
2	1			1424				897				
	2	1252	313	31	2500	0.501	1252	1393	1.1	1.1	3.171	A
	3	1478	369	1282	1362	1.085	1357	0	39.2	69.3	151.064	F
	4	1598	399	725	1715	0.931	1591	1915	10.5	12.1	29.174	D
	5	129	32	2193	203	0.635	128	123	1.5	1.7	51.553	F

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	650	162	1167	603	1.077	603	0	181.2	192.8	1093.996	F
	2	754	189	984	965	0.781	803	787	16.5	4.3	29.649	D
	3			1020				767				
	4	1165	291	0	2380	0.490	1167	1020	1.6	1.1	3.271	A
2	1			1289				752				
	2	1022	256	26	2503	0.408	1023	1263	1.1	0.8	2.678	A
	3	1206	302	1050	1534	0.786	1464	0	69.3	4.9	83.043	F
	4	1304	326	711	1723	0.757	1339	1803	12.1	3.6	11.134	B
	5	105	26	1931	308	0.342	110	119	1.7	0.6	20.417	C

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	544	136	977	698	0.779	695	0	192.8	155.3	903.061	F
	2	632	158	964	978	0.646	641	707	4.3	2.1	12.050	B
	3			972				633				
	4	976	244	0	2380	0.410	977	972	1.1	0.8	2.826	A
2	1			1009				620				
	2	856	214	21	2506	0.342	857	987	0.8	0.6	2.403	A
	3	1010	253	878	1661	0.608	1023	0	4.9	1.7	6.321	A
	4	1092	273	528	1834	0.596	1100	1374	3.6	1.6	5.456	A
	5	88	22	1539	465	0.190	89	89	0.6	0.3	10.590	B

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	3.43	0.03	0.31	3.43	11.27			N/A	N/A
	2	1.60	0.57	1.48	2.13	2.66			N/A	N/A
	3									
	4	0.76	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.57	0.57	1.10	1.54	1.60			N/A	N/A
	3	1.67	0.11	1.31	3.19	4.24			N/A	N/A
	4	1.59	0.61	1.48	2.06	2.31			N/A	N/A
	5	0.25	0.00	0.00	0.25	0.25			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	20.32	0.31	10.32	52.06	72.04			N/A	N/A
	2	3.47	0.08	1.45	9.05	13.31			N/A	N/A
	3									
	4	1.05	0.07	0.86	1.92	2.57			N/A	N/A
2	1									
	2	0.76	0.09	0.88	1.51	1.59			N/A	N/A
	3	3.80	0.05	0.53	10.71	18.18			N/A	N/A
	4	2.94	0.05	0.53	8.16	13.55			N/A	N/A
	5	0.45	0.03	0.32	0.87	1.26			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	100.66	54.67	96.89	141.84	156.71			N/A	N/A
	2	12.78	0.19	5.67	33.45	47.15			N/A	N/A
	3									
	4	1.63	0.03	0.28	1.63	1.63			N/A	N/A
2	1									
	2	1.10	0.03	0.28	1.10	1.10			N/A	N/A
	3	39.18	9.26	33.99	70.40	83.95			N/A	N/A
	4	10.53	0.06	1.28	30.73	51.95			N/A	N/A
	5	1.47	0.03	0.33	2.08	7.24			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	181.15	>199	>199	>199	>199			N/A	N/A
	2	16.54	0.12	4.71	46.83	70.32			N/A	N/A
	3									
	4	1.64	0.03	0.29	1.64	1.64			N/A	N/A
2	1									
	2	1.10	0.03	0.29	1.10	1.28			N/A	N/A
	3	69.32	21.35	62.46	117.81	137.78			N/A	N/A
	4	12.14	0.05	0.46	31.69	66.61			N/A	N/A
	5	1.73	0.04	0.40	4.37	8.63			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	192.83	>199	>199	>199	>199			N/A	N/A
	2	4.33	0.05	0.48	12.06	22.11			N/A	N/A
	3									
	4	1.06	0.56	1.11	1.28	1.28			N/A	N/A
2	1									
	2	0.76	0.61	1.10	1.54	1.60			N/A	N/A
	3	4.91	0.04	0.44	13.15	26.14			N/A	N/A
	4	3.57	0.05	0.53	10.05	16.98			N/A	N/A
	5	0.59	0.05	0.48	1.48	1.62			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	155.28	>199	>199	>199	>199			N/A	N/A
	2	2.08	0.03	0.34	3.43	10.64			N/A	N/A
	3									
	4	0.77	0.10	0.91	1.52	1.59			N/A	N/A
2	1									
	2	0.57	0.57	1.10	1.54	1.60			N/A	N/A
	3	1.74	0.03	0.30	1.74	3.68			N/A	N/A
	4	1.64	0.03	0.34	2.57	8.27			N/A	N/A
	5	0.26	0.03	0.32	0.94	1.37			N/A	N/A

D4 - 2030 | RF Do Minimum + Development | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	Southern Rbt	Standard Roundabout		1, 2, 3, 4	320.41	F
2	Northern Rbt	Standard Roundabout		1, 2, 3, 4, 5	70.27	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	174.31	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2030	RF Do Minimum + Development	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1		ONE HOUR	✓	729	100.000
	2		ONE HOUR	✓	855	100.000
	3					
	4		ONE HOUR	✓	1317	100.000
2	1					
	2		ONE HOUR	✓	1143	100.000
	3		ONE HOUR	✓	1357	100.000
	4		ONE HOUR	✓	1457	100.000
	5		ONE HOUR	✓	117	100.000

Origin-Destination Data

Demand (PCU/hr)

Junction 1

	To				
From		1	2	3	4
	1	0	192	1	536
	2	0	0	250	605
	3	0	0	0	0
	4	0	722	595	0

Demand (PCU/hr)

Junction 2

	To					
From		1	2	3	4	5
	1	0	0	0	0	0
	2	202	0	0	894	47
	3	4	390	0	893	70
	4	569	888	0	0	0
	5	46	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 1

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

Heavy Vehicle %

Junction 2

		To				
From		1	2	3	4	5
	1	10	10	10	10	10
	2	10	10	10	10	10
	3	10	10	10	10	10
	4	10	10	10	10	10
	5	10	10	10	10	10

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1	1.74	1180.33	208.5	220.0	F	669	1003
	2	0.98	74.21	18.8	74.1	F	785	1177
	3							
	4	0.61	4.26	1.7	2.8	A	1209	1813
2	1							
	2	0.50	3.19	1.1	1.6	A	1049	1573
	3	1.10	169.32	78.9	147.3	F	1245	1868
	4	0.94	31.75	13.3	72.0	D	1337	2005
	5	0.66	56.60	1.9	9.4	F	107	161

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	549	137	988	693	0.792	534	0	0.0	3.7	23.186	C
	2	644	161	840	1055	0.610	637	682	0.0	1.7	9.333	A
	3			843				634				
	4	992	248	0	2380	0.417	988	843	0.0	0.8	2.840	A
2	1			1009				615				
	2	861	215	21	2507	0.343	858	988	0.0	0.6	2.399	A
	3	1022	255	879	1661	0.615	1015	0	0.0	1.7	6.067	A
	4	1097	274	534	1830	0.599	1090	1360	0.0	1.6	5.312	A
	5	88	22	1537	466	0.189	87	88	0.0	0.3	10.437	B

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	655	164	1183	596	1.100	577	0	3.7	23.2	106.281	F
	2	769	192	960	981	0.784	761	800	1.7	3.7	17.394	C
	3			963				758				
	4	1184	296	0	2380	0.497	1183	963	0.8	1.1	3.305	A
2	1			1206				735				
	2	1028	257	25	2504	0.410	1027	1181	0.6	0.8	2.679	A
	3	1220	305	1052	1533	0.796	1211	0	1.7	4.0	11.962	B
	4	1310	327	638	1768	0.741	1304	1625	1.6	3.0	8.442	A
	5	105	26	1837	345	0.304	104	105	0.3	0.5	16.363	C

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	803	201	1448	464	1.731	463	0	23.2	108.1	525.619	F
	2	941	235	995	958	0.982	900	916	3.7	14.1	48.390	E
	3			977				918				
	4	1450	363	0	2380	0.609	1448	977	1.1	1.7	4.237	A
2	1			1417				889				
	2	1258	315	30	2501	0.503	1257	1387	0.8	1.1	3.181	A
	3	1494	374	1287	1359	1.100	1335	0	4.0	43.8	75.751	F
	4	1604	401	730	1712	0.937	1571	1892	3.0	11.3	23.924	C
	5	129	32	2181	208	0.619	124	121	0.5	1.6	45.226	E

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	803	201	1450	463	1.735	463	0	108.1	193.1	1016.950	F
	2	941	235	996	958	0.983	923	917	14.1	18.8	74.209	F
	3			993				925				
	4	1450	363	0	2380	0.609	1450	993	1.7	1.7	4.258	A
2	1			1439				900				
	2	1258	315	31	2500	0.503	1258	1409	1.1	1.1	3.188	A
	3	1494	374	1289	1357	1.101	1354	0	43.8	78.9	169.318	F
	4	1604	401	737	1708	0.939	1596	1906	11.3	13.3	31.749	D
	5	129	32	2212	196	0.659	128	122	1.6	1.9	56.604	F

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	655	164	1186	594	1.103	594	0	193.1	208.5	1180.332	F
	2	769	192	973	972	0.791	825	807	18.8	4.6	33.788	D
	3			1021				778				
	4	1184	296	0	2380	0.497	1186	1021	1.7	1.1	3.324	A
2	1			1322				756				
	2	1028	257	26	2503	0.411	1029	1295	1.1	0.8	2.688	A
	3	1220	305	1055	1530	0.797	1508	0	78.9	6.8	107.745	F
	4	1310	327	740	1706	0.768	1348	1824	13.3	3.8	12.101	B
	5	105	26	1967	293	0.359	110	120	1.9	0.6	22.161	C

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1	549	137	993	691	0.795	687	0	208.5	173.9	1002.735	F
	2	644	161	955	984	0.654	654	725	4.6	2.2	12.336	B
	3			968				641				
	4	992	248	0	2380	0.417	993	968	1.1	0.8	2.859	A
2	1			1027				622				
	2	861	215	21	2506	0.343	861	1006	0.8	0.6	2.409	A
	3	1022	255	883	1658	0.616	1042	0	6.8	1.8	6.628	A
	4	1097	274	544	1824	0.601	1105	1381	3.8	1.7	5.576	A
	5	88	22	1560	456	0.193	90	89	0.6	0.3	10.843	B

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	3.70	0.03	0.31	3.70	9.39			N/A	N/A
	2	1.68	0.56	1.53	2.31	2.92			N/A	N/A
	3									
	4	0.78	0.61	1.10	1.54	1.60			N/A	N/A
2	1									
	2	0.57	0.57	1.10	1.54	1.60			N/A	N/A
	3	1.73	0.10	1.29	3.44	4.65			N/A	N/A
	4	1.62	0.60	1.50	2.11	2.57			N/A	N/A
	5	0.25	0.00	0.00	0.25	0.25			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	23.24	0.34	11.95	59.54	82.29			N/A	N/A
	2	3.67	0.08	1.53	9.59	14.05			N/A	N/A
	3									
	4	1.08	0.07	0.85	2.03	2.82			N/A	N/A
2	1									
	2	0.76	0.09	0.88	1.52	1.60			N/A	N/A
	3	4.03	0.05	0.54	11.42	19.22			N/A	N/A
	4	3.04	0.05	0.53	8.46	14.01			N/A	N/A
	5	0.47	0.04	0.35	1.14	1.39			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	108.07	57.74	103.89	153.39	169.78			N/A	N/A
	2	14.07	0.26	7.16	35.63	49.16			N/A	N/A
	3									
	4	1.70	0.03	0.29	1.70	1.70			N/A	N/A
2	1									
	2	1.11	0.03	0.28	1.11	1.11			N/A	N/A
	3	43.76	12.43	38.92	75.49	88.83			N/A	N/A
	4	11.33	0.07	1.20	33.15	54.24			N/A	N/A
	5	1.58	0.03	0.34	2.77	8.10			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	193.09	>199	>199	>199	>199			N/A	N/A
	2	18.78	0.17	7.19	51.23	74.06			N/A	N/A
	3									
	4	1.71	0.03	0.29	1.71	1.71			N/A	N/A
2	1									
	2	1.11	0.03	0.29	1.11	1.23			N/A	N/A
	3	78.91	28.89	72.70	127.87	147.34			N/A	N/A
	4	13.26	0.05	0.50	36.66	71.95			N/A	N/A
	5	1.89	0.04	0.41	4.91	9.38			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	208.47	>199	>199	>199	>199			N/A	N/A
	2	4.64	0.05	0.48	12.99	23.71			N/A	N/A
	3									
	4	1.10	0.50	1.12	1.60	1.60			N/A	N/A
2	1									
	2	0.77	0.61	1.10	1.54	1.60			N/A	N/A
	3	6.80	0.06	0.92	19.65	33.08			N/A	N/A
	4	3.81	0.05	0.54	10.76	18.07			N/A	N/A
	5	0.64	0.05	0.50	1.30	1.30			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1	173.94	>199	>199	>199	>199			N/A	N/A
	2	2.16	0.03	0.34	3.42	10.95			N/A	N/A
	3									
	4	0.79	0.10	0.90	1.53	1.61			N/A	N/A
2	1									
	2	0.58	0.58	1.10	1.54	1.60			N/A	N/A
	3	1.80	0.03	0.30	1.80	3.36			N/A	N/A
	4	1.68	0.03	0.34	2.47	8.36			N/A	N/A
	5	0.27	0.03	0.32	0.98	1.42			N/A	N/A