

Junctions 9	
PICADY 9 - Priority Intersection Module	
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Filename: Headbolt Lane_Pingwood Lane_Dale Lane.j9

Path: C:\Users\rachel.comfoot\Arup\HBL New Station - Project Files\01 Engineering\04 Internal Project Data\Transport Planning\Junction Models

Report generation date: 14/05/2021 15:42:02

»2021 Base, AM
 »2021 Base, PM
 »2023 Base, AM
 »2023 Base, PM
 »2028 Base, AM
 »2028 Base, PM
 »2023 Base + Com, AM
 »2023 Base + Com, PM
 »2028 Base + Com, AM
 »2028 Base + Com, PM
 »2023 Base + Com + Dev, AM
 »2023 Base + Com + Dev, PM
 »2028 Base + Com + Dev, AM
 »2028 Base + Com + Dev, PM
 »2028 Base + Com + Dev (500 Spaces), AM
 »2028 Base + Com + Dev (500 Spaces), PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2021 Base									
Stream B-C	D1	0.2	5.90	0.14	A	D2	0.3	7.51	0.25	A
Stream B-A		0.2	9.68	0.14	A		0.1	9.13	0.06	A
Stream C-AB		1.1	8.42	0.46	A		0.4	7.86	0.26	A
	2023 Base									
Stream B-C	D3	0.2	5.94	0.15	A	D4	0.3	7.61	0.26	A
Stream B-A		0.2	9.80	0.15	A		0.1	9.25	0.07	A
Stream C-AB		1.2	8.56	0.47	A		0.4	7.95	0.27	A
	2028 Base									
Stream B-C	D5	0.2	6.02	0.15	A	D6	0.4	7.80	0.27	A
Stream B-A		0.2	10.09	0.16	B		0.1	9.45	0.07	A
Stream C-AB		1.3	8.90	0.50	A		0.5	8.09	0.28	A
	2023 Base + Com									
Stream B-C	D7	0.2	5.94	0.15	A	D8	0.3	7.61	0.26	A
Stream B-A		0.2	9.80	0.15	A		0.1	9.25	0.07	A
Stream C-AB		1.2	8.56	0.47	A		0.4	7.95	0.27	A
	2028 Base + Com									
Stream B-C	D9	0.2	6.02	0.15	A	D10	0.4	7.80	0.27	A
Stream B-A		0.2	10.09	0.16	B		0.1	9.45	0.07	A
Stream C-AB		1.3	8.90	0.50	A		0.5	8.09	0.28	A
	2023 Base + Com + Dev									
Stream B-C	D11	0.2	6.00	0.15	A	D12	0.4	7.82	0.28	A
Stream B-A		0.2	9.98	0.15	A		0.1	9.42	0.08	A
Stream C-AB		1.2	8.91	0.49	A		0.5	8.08	0.28	A
	2028 Base + Com + Dev									
Stream B-C	D13	0.2	6.07	0.16	A	D14	0.4	8.03	0.29	A
Stream B-A		0.2	10.25	0.16	B		0.1	9.65	0.08	A
Stream C-AB		1.4	9.29	0.52	A		0.5	8.26	0.29	A
	2028 Base + Com + Dev (500 Spaces)									
Stream B-C	D15	0.2	6.15	0.17	A	D16	0.5	8.43	0.32	A
Stream B-A		0.2	10.52	0.17	B		0.1	9.96	0.10	A
Stream C-AB		1.6	9.96	0.55	A		0.5	8.50	0.31	A

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.

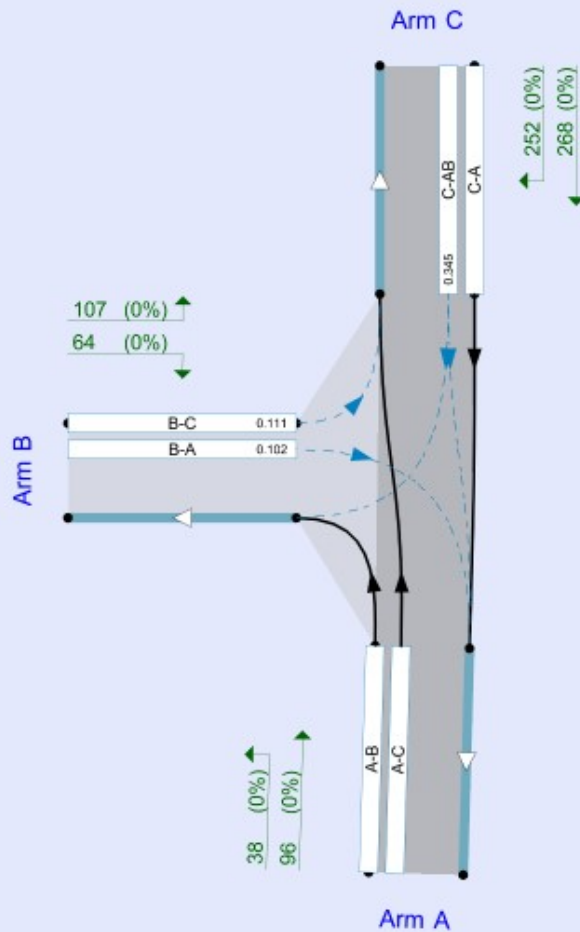
File summary

File Description

Title	
Location	
Site number	
Date	18/03/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	GLOBAL\Rachel.Cornfoot
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).
Streams (downstream end) show RFC (%)

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

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Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021 Base	AM	ONE HOUR	07:30	09:00	15
D2	2021 Base	PM	ONE HOUR	16:00	17:30	15
D3	2023 Base	AM	ONE HOUR	07:30	09:00	15
D4	2023 Base	PM	ONE HOUR	16:00	17:30	15
D5	2028 Base	AM	ONE HOUR	07:30	09:00	15
D6	2028 Base	PM	ONE HOUR	16:00	17:30	15
D7	2023 Base + Com	AM	ONE HOUR	07:30	09:00	15
D8	2023 Base + Com	PM	ONE HOUR	16:00	17:30	15
D9	2028 Base + Com	AM	ONE HOUR	07:30	09:00	15
D10	2028 Base + Com	PM	ONE HOUR	16:00	17:30	15
D11	2023 Base + Com + Dev	AM	ONE HOUR	07:30	09:00	15
D12	2023 Base + Com + Dev	PM	ONE HOUR	16:00	17:30	15
D13	2028 Base + Com + Dev	AM	ONE HOUR	07:30	09:00	15
D14	2028 Base + Com + Dev	PM	ONE HOUR	16:00	17:30	15
D15	2028 Base + Com + Dev (500 Spaces)	AM	ONE HOUR	07:30	09:00	15
D16	2028 Base + Com + Dev (500 Spaces)	PM	ONE HOUR	16:00	17:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Dale Lane	Dale Lane	Major
B	Headbolt Lane	Headbolt Lane	Minor
C	Pingwood Lane	Pingwood Lane	Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.75			120.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	10.00	8.40	4.30	3.50	✓	2.00	50	67

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	604	0.106	0.269	0.169	0.385
B-C	770	0.114	0.289	-	-
C-B	643	0.241	0.241	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

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)
D1	2021 Base	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	117	100.000
B		✓	149	100.000
C		✓	468	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	27	90
	B	57	0	92
	C	252	216	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A	B	C
	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.14	5.90	0.2	A
B-A	0.14	9.68	0.2	A
C-AB	0.46	8.42	1.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	69	732	0.095	69	0.1	5.426	A
B-A	43	489	0.088	43	0.1	8.052	A
C-AB	218	746	0.292	216	0.5	6.773	A
C-A	134			134			
A-B	20			20			
A-C	68			68			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	83	723	0.114	83	0.1	5.618	A
B-A	51	466	0.110	51	0.1	8.671	A
C-AB	276	767	0.360	275	0.7	7.326	A
C-A	144			144			
A-B	24			24			
A-C	81			81			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	711	0.142	101	0.2	5.900	A
B-A	63	435	0.144	63	0.2	9.681	A
C-AB	366	796	0.460	365	1.1	8.357	A
C-A	149			149			
A-B	30			30			
A-C	99			99			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	711	0.142	101	0.2	5.904	A
B-A	63	435	0.144	63	0.2	9.681	A
C-AB	367	796	0.461	367	1.1	8.416	A
C-A	148			148			
A-B	30			30			
A-C	99			99			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	83	723	0.114	83	0.1	5.622	A
B-A	51	466	0.110	51	0.1	8.697	A
C-AB	277	768	0.361	278	0.7	7.397	A
C-A	144			144			
A-B	24			24			
A-C	81			81			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	69	732	0.095	69	0.1	5.436	A
B-A	43	488	0.088	43	0.1	8.087	A
C-AB	219	747	0.293	220	0.5	6.850	A
C-A	134			134			
A-B	20			20			
A-C	68			68			

2021 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		2.95	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)
D2	2021 Base	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	422	100.000
B		✓	170	100.000
C		✓	228	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	75	347
	B	24	0	146
	C	112	116	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.25	7.51	0.3	A
B-A	0.06	9.13	0.1	A
C-AB	0.26	7.86	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	110	662	0.161	109	0.2	6.279	A
B-A	18	480	0.038	18	0.0	7.789	A
C-AB	101	625	0.162	100	0.2	6.855	A
C-A	71			71			
A-B	56			56			
A-C	261			261			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	131	664	0.198	131	0.2	6.746	A
B-A	22	455	0.047	22	0.0	8.300	A
C-AB	125	622	0.200	124	0.3	7.235	A
C-A	80			80			
A-B	67			67			
A-C	312			312			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	161	640	0.251	160	0.3	7.499	A
B-A	26	421	0.063	26	0.1	9.121	A
C-AB	160	618	0.258	159	0.4	7.841	A
C-A	91			91			
A-B	83			83			
A-C	382			382			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	161	640	0.251	161	0.3	7.508	A
B-A	26	421	0.063	26	0.1	9.127	A
C-AB	160	619	0.258	160	0.4	7.858	A
C-A	91			91			
A-B	83			83			
A-C	382			382			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	131	664	0.198	132	0.2	6.761	A
B-A	22	455	0.047	22	0.1	8.309	A
C-AB	125	622	0.200	125	0.3	7.256	A
C-A	80			80			
A-B	67			67			
A-C	312			312			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	110	682	0.161	110	0.2	6.302	A
B-A	18	479	0.038	18	0.0	7.804	A
C-AB	101	625	0.162	101	0.2	6.885	A
C-A	71			71			
A-B	56			56			
A-C	261			261			

2023 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.17	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)
D3	2023 Base	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	120	100.000
B		✓	152	100.000
C		✓	477	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	28	92
	B	58	0	94
	C	257	220	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.15	5.94	0.2	A
B-A	0.15	9.80	0.2	A
C-AB	0.47	8.58	1.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	731	0.097	70	0.1	5.446	A
B-A	44	487	0.090	43	0.1	8.107	A
C-AB	223	748	0.299	221	0.5	6.814	A
C-A	138			138			
A-B	21			21			
A-C	69			69			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	85	722	0.117	84	0.1	5.644	A
B-A	52	483	0.113	52	0.1	8.747	A
C-AB	283	770	0.368	283	0.7	7.397	A
C-A	145			145			
A-B	25			25			
A-C	83			83			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	710	0.146	103	0.2	5.938	A
B-A	64	432	0.148	64	0.2	9.777	A
C-AB	378	799	0.471	375	1.1	8.495	A
C-A	149			149			
A-B	31			31			
A-C	101			101			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	710	0.146	103	0.2	5.939	A
B-A	64	431	0.148	64	0.2	9.799	A
C-AB	377	799	0.472	377	1.2	8.558	A
C-A	148			148			
A-B	31			31			
A-C	101			101			

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08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	85	722	0.117	85	0.1	5.650	A
B-A	52	463	0.113	52	0.1	8.776	A
C-AB	284	770	0.369	286	0.8	7.471	A
C-A	145			145			
A-B	25			25			
A-C	83			83			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	731	0.097	71	0.1	5.456	A
B-A	44	466	0.090	44	0.1	8.143	A
C-AB	224	749	0.299	225	0.5	6.893	A
C-A	135			135			
A-B	21			21			
A-C	69			69			

2023 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.00	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)
D4	2023 Base	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	430	100.000
B		✓	174	100.000
C		✓	233	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	76	354
	B	25	0	149
	C	114	119	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.26	7.61	0.3	A
B-A	0.07	9.25	0.1	A
C-AB	0.27	7.95	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	660	0.165	111	0.2	6.325	A
B-A	19	477	0.039	19	0.0	7.847	A
C-AB	104	624	0.166	103	0.2	6.898	A
C-A	72			72			
A-B	57			57			
A-C	267			267			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	662	0.202	134	0.3	6.810	A
B-A	22	452	0.050	22	0.1	8.379	A
C-AB	128	621	0.206	128	0.3	7.295	A
C-A	81			81			
A-B	68			68			
A-C	318			318			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	637	0.257	164	0.3	7.589	A
B-A	28	417	0.066	27	0.1	9.241	A
C-AB	165	618	0.266	164	0.4	7.932	A
C-A	92			92			
A-B	84			84			
A-C	390			390			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	637	0.257	164	0.3	7.608	A
B-A	28	417	0.066	28	0.1	9.246	A
C-AB	165	618	0.267	165	0.4	7.949	A
C-A	92			92			
A-B	84			84			
A-C	390			390			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	662	0.202	134	0.3	6.825	A
B-A	22	452	0.050	23	0.1	8.390	A
C-AB	128	622	0.207	129	0.3	7.320	A
C-A	81			81			
A-B	68			68			
A-C	318			318			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	680	0.165	112	0.2	6.348	A
B-A	19	477	0.039	19	0.0	7.862	A
C-AB	104	624	0.167	104	0.2	6.931	A
C-A	71			71			
A-B	57			57			
A-C	267			267			

2028 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.42	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)
D5	2028 Base	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	125	100.000
B		✓	159	100.000
C		✓	497	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	29	96
	B	61	0	98
	C	268	229	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.15	6.02	0.2	A
B-A	0.16	10.09	0.2	B
C-AB	0.50	8.90	1.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	729	0.101	73	0.1	5.487	A
B-A	46	482	0.095	46	0.1	8.239	A
C-AB	236	753	0.313	233	0.6	6.910	A
C-A	139			139			
A-B	22			22			
A-C	72			72			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	720	0.122	88	0.1	5.698	A
B-A	55	458	0.120	55	0.1	8.933	A
C-AB	300	775	0.386	299	0.8	7.562	A
C-A	147			147			
A-B	26			26			
A-C	86			86			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	706	0.153	108	0.2	6.013	A
B-A	67	424	0.158	67	0.2	10.068	B
C-AB	399	806	0.495	397	1.3	8.821	A
C-A	148			148			
A-B	32			32			
A-C	106			106			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	706	0.153	108	0.2	6.016	A
B-A	67	424	0.158	67	0.2	10.092	B
C-AB	400	807	0.496	400	1.3	8.901	A
C-A	147			147			
A-B	32			32			
A-C	106			106			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	720	0.122	88	0.1	5.705	A
B-A	55	457	0.120	55	0.1	8.965	A
C-AB	300	776	0.387	302	0.8	7.648	A
C-A	146			146			
A-B	26			26			
A-C	86			86			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	729	0.101	74	0.1	5.500	A
B-A	46	481	0.095	46	0.1	8.279	A
C-AB	236	754	0.314	237	0.6	6.998	A
C-A	138			138			
A-B	22			22			
A-C	72			72			

2028 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.07	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2028 Base	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	447	100.000
B		✓	181	100.000
C		✓	242	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	79	368
	B	26	0	155
	C	119	123	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.27	7.80	0.4	A
B-A	0.07	9.45	0.1	A
C-AB	0.28	8.09	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	676	0.173	116	0.2	6.414	A
B-A	20	472	0.041	19	0.0	7.946	A
C-AB	108	624	0.173	107	0.2	6.957	A
C-A	74			74			
A-B	59			59			
A-C	277			277			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	658	0.212	139	0.3	6.938	A
B-A	23	446	0.052	23	0.1	8.515	A
C-AB	134	621	0.215	133	0.3	7.382	A
C-A	84			84			
A-B	71			71			
A-C	331			331			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	632	0.270	170	0.4	7.791	A
B-A	29	410	0.070	29	0.1	9.445	A
C-AB	172	618	0.279	172	0.5	8.069	A
C-A	94			94			
A-B	87			87			
A-C	405			405			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	632	0.270	171	0.4	7.804	A
B-A	29	409	0.070	29	0.1	9.454	A
C-AB	172	618	0.279	172	0.5	8.089	A
C-A	94			94			
A-B	87			87			
A-C	405			405			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	658	0.212	140	0.3	6.954	A
B-A	23	446	0.052	23	0.1	8.527	A
C-AB	134	621	0.216	134	0.3	7.407	A
C-A	84			84			
A-B	71			71			
A-C	331			331			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	676	0.173	117	0.2	6.441	A
B-A	20	472	0.041	20	0.0	7.962	A
C-AB	108	624	0.174	109	0.2	6.994	A
C-A	74			74			
A-B	59			59			
A-C	277			277			

2023 Base + Com, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.17	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)
D7	2023 Base + Com	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	120	100.000
B		✓	152	100.000
C		✓	477	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	28	92
	B	58	0	94
	C	257	220	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.15	5.94	0.2	A
B-A	0.15	9.80	0.2	A
C-AB	0.47	8.56	1.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	731	0.097	70	0.1	5.446	A
B-A	44	487	0.090	43	0.1	8.107	A
C-AB	223	748	0.299	221	0.5	6.814	A
C-A	136			136			
A-B	21			21			
A-C	69			69			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	85	722	0.117	84	0.1	5.644	A
B-A	52	483	0.113	52	0.1	8.747	A
C-AB	283	770	0.368	283	0.7	7.397	A
C-A	145			145			
A-B	25			25			
A-C	83			83			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	710	0.146	103	0.2	5.936	A
B-A	64	432	0.148	64	0.2	9.777	A
C-AB	376	799	0.471	375	1.1	8.495	A
C-A	149			149			
A-B	31			31			
A-C	101			101			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	103	710	0.146	103	0.2	5.939	A
B-A	64	431	0.148	64	0.2	9.799	A
C-AB	377	799	0.472	377	1.2	8.558	A
C-A	148			148			
A-B	31			31			
A-C	101			101			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	85	722	0.117	85	0.1	5.650	A
B-A	52	463	0.113	52	0.1	8.776	A
C-AB	284	770	0.369	288	0.8	7.471	A
C-A	145			145			
A-B	25			25			
A-C	83			83			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	71	731	0.097	71	0.1	5.456	A
B-A	44	486	0.090	44	0.1	8.143	A
C-AB	224	749	0.299	225	0.5	6.893	A
C-A	135			135			
A-B	21			21			
A-C	69			69			

2023 Base + Com, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.00	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)
D8	2023 Base + Com	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	430	100.000
B		✓	174	100.000
C		✓	233	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	76	354
	B	25	0	149
	C	114	119	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.26	7.61	0.3	A
B-A	0.07	9.25	0.1	A
C-AB	0.27	7.95	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	660	0.165	111	0.2	6.325	A
B-A	19	477	0.039	19	0.0	7.847	A
C-AB	104	624	0.166	103	0.2	6.898	A
C-A	72			72			
A-B	57			57			
A-C	267			267			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	662	0.202	134	0.3	6.810	A
B-A	22	452	0.050	22	0.1	8.379	A
C-AB	128	621	0.206	128	0.3	7.295	A
C-A	81			81			
A-B	68			68			
A-C	318			318			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	637	0.257	164	0.3	7.589	A
B-A	28	417	0.066	27	0.1	9.241	A
C-AB	165	618	0.266	164	0.4	7.932	A
C-A	92			92			
A-B	84			84			
A-C	390			390			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	164	637	0.257	164	0.3	7.608	A
B-A	28	417	0.066	28	0.1	9.246	A
C-AB	165	618	0.267	165	0.4	7.949	A
C-A	92			92			
A-B	84			84			
A-C	390			390			

16:00 - 17:00

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	134	662	0.202	134	0.3	6.825	A
B-A	22	452	0.050	23	0.1	8.390	A
C-AB	128	622	0.207	129	0.3	7.320	A
C-A	81			81			
A-B	68			68			
A-C	318			318			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	680	0.165	112	0.2	6.348	A
B-A	19	477	0.039	19	0.0	7.882	A
C-AB	104	624	0.167	104	0.2	6.931	A
C-A	71			71			
A-B	57			57			
A-C	267			267			

2028 Base + Com, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.42	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)
D9	2028 Base + Com	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	125	100.000
B		✓	159	100.000
C		✓	497	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	29	96
	B	61	0	98
	C	268	229	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.15	6.02	0.2	A
B-A	0.16	10.09	0.2	B
C-AB	0.50	8.90	1.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	729	0.101	73	0.1	5.487	A
B-A	46	482	0.095	46	0.1	8.239	A
C-AB	236	753	0.313	233	0.6	6.910	A
C-A	139			139			
A-B	22			22			
A-C	72			72			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	720	0.122	88	0.1	5.698	A
B-A	55	458	0.120	55	0.1	8.933	A
C-AB	300	775	0.386	299	0.8	7.562	A
C-A	147			147			
A-B	26			26			
A-C	86			86			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	706	0.153	108	0.2	6.013	A
B-A	67	424	0.158	67	0.2	10.068	B
C-AB	399	806	0.495	397	1.3	8.821	A
C-A	148			148			
A-B	32			32			
A-C	106			106			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	706	0.153	108	0.2	6.016	A
B-A	67	424	0.158	67	0.2	10.092	B
C-AB	400	807	0.496	400	1.3	8.901	A
C-A	147			147			
A-B	32			32			
A-C	106			106			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	720	0.122	88	0.1	5.705	A
B-A	55	457	0.120	55	0.1	8.965	A
C-AB	300	776	0.387	302	0.8	7.648	A
C-A	146			146			
A-B	26			26			
A-C	86			86			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	729	0.101	74	0.1	5.500	A
B-A	46	481	0.095	46	0.1	8.279	A
C-AB	236	754	0.314	237	0.6	6.998	A
C-A	138			138			
A-B	22			22			
A-C	72			72			

2028 Base + Com, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.07	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D10	2028 Base + Com	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	447	100.000
B		✓	181	100.000
C		✓	242	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	79	368
	B	26	0	155
	C	119	123	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.27	7.80	0.4	A
B-A	0.07	9.45	0.1	A
C-AB	0.28	8.09	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	676	0.173	116	0.2	6.414	A
B-A	20	472	0.041	19	0.0	7.946	A
C-AB	108	624	0.173	107	0.2	6.957	A
C-A	74			74			
A-B	59			59			
A-C	277			277			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	658	0.212	139	0.3	6.938	A
B-A	23	446	0.052	23	0.1	8.515	A
C-AB	134	621	0.215	133	0.3	7.382	A
C-A	84			84			
A-B	71			71			
A-C	331			331			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	632	0.270	170	0.4	7.791	A
B-A	29	410	0.070	29	0.1	9.445	A
C-AB	172	618	0.279	172	0.5	8.089	A
C-A	94			94			
A-B	87			87			
A-C	405			405			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	632	0.270	171	0.4	7.804	A
B-A	29	409	0.070	29	0.1	9.454	A
C-AB	172	618	0.279	172	0.5	8.089	A
C-A	94			94			
A-B	87			87			
A-C	405			405			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	658	0.212	140	0.3	6.954	A
B-A	23	446	0.052	23	0.1	8.527	A
C-AB	134	621	0.216	134	0.3	7.407	A
C-A	84			84			
A-B	71			71			
A-C	331			331			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	117	676	0.173	117	0.2	6.441	A
B-A	20	472	0.041	20	0.0	7.982	A
C-AB	108	624	0.174	109	0.2	6.994	A
C-A	74			74			
A-B	59			59			
A-C	277			277			

2023 Base + Com + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.43	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)
D11	2023 Base + Com + Dev	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	124	100.000
B		✓	158	100.000
C		✓	488	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	32	92
	B	60	0	98
	C	257	229	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.15	6.00	0.2	A
B-A	0.15	9.98	0.2	A
C-AB	0.49	8.91	1.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	730	0.101	73	0.1	5.479	A
B-A	45	484	0.093	45	0.1	8.187	A
C-AB	233	748	0.311	230	0.6	6.941	A
C-A	133			133			
A-B	24			24			
A-C	69			69			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	721	0.122	88	0.1	5.688	A
B-A	54	480	0.117	54	0.1	8.861	A
C-AB	295	769	0.384	294	0.8	7.592	A
C-A	142			142			
A-B	29			29			
A-C	83			83			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	708	0.152	108	0.2	5.997	A
B-A	66	427	0.155	66	0.2	9.955	A
C-AB	392	798	0.491	390	1.2	8.833	A
C-A	143			143			
A-B	35			35			
A-C	101			101			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	108	708	0.152	108	0.2	6.000	A
B-A	66	427	0.155	66	0.2	9.979	A
C-AB	393	799	0.492	393	1.2	8.913	A
C-A	142			142			
A-B	35			35			
A-C	101			101			

Unsignalised Level of Service

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	721	0.122	88	0.1	5.692	A
B-A	54	459	0.117	54	0.1	8.892	A
C-AB	298	770	0.384	298	0.8	7.678	A
C-A	141			141			
A-B	29			29			
A-C	83			83			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	730	0.101	74	0.1	5.492	A
B-A	45	483	0.094	45	0.1	8.228	A
C-AB	233	748	0.312	234	0.6	7.031	A
C-A	132			132			
A-B	24			24			
A-C	69			69			

2023 Base + Com + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.18	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)
D12	2023 Base + Com + Dev	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	432	100.000
B		✓	188	100.000
C		✓	238	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	78	354
	B	29	0	159
	C	114	124	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.28	7.82	0.4	A
B-A	0.08	9.42	0.1	A
C-AB	0.28	8.08	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	679	0.176	119	0.2	6.422	A
B-A	22	476	0.046	22	0.0	7.927	A
C-AB	108	624	0.173	107	0.2	6.958	A
C-A	71			71			
A-B	59			59			
A-C	267			267			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	660	0.216	143	0.3	6.949	A
B-A	26	450	0.058	26	0.1	8.492	A
C-AB	134	621	0.215	133	0.3	7.382	A
C-A	80			80			
A-B	70			70			
A-C	318			318			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	635	0.276	175	0.4	7.808	A
B-A	32	414	0.077	32	0.1	9.412	A
C-AB	172	618	0.278	171	0.5	8.063	A
C-A	90			90			
A-B	86			86			
A-C	390			390			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	635	0.276	175	0.4	7.823	A
B-A	32	414	0.077	32	0.1	9.421	A
C-AB	172	618	0.278	172	0.5	8.082	A
C-A	90			90			
A-B	86			86			
A-C	390			390			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	660	0.216	143	0.3	6.988	A
B-A	26	450	0.058	26	0.1	8.503	A
C-AB	134	621	0.215	134	0.3	7.406	A
C-A	80			80			
A-B	70			70			
A-C	318			318			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	679	0.176	120	0.2	6.447	A
B-A	22	475	0.046	22	0.0	7.943	A
C-AB	108	624	0.174	109	0.2	6.995	A
C-A	71			71			
A-B	59			59			
A-C	267			267			

2028 Base + Com + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		5.68	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D13	2028 Base + Com + Dev	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	129	100.000
B		✓	164	100.000
C		✓	506	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	33	96
	B	62	0	102
	C	268	238	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.16	6.07	0.2	A
B-A	0.16	10.25	0.2	B
C-AB	0.52	9.29	1.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	728	0.105	76	0.1	5.519	A
B-A	47	479	0.097	46	0.1	8.310	A
C-AB	245	752	0.325	242	0.6	7.043	A
C-A	136			136			
A-B	25			25			
A-C	72			72			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	92	719	0.128	92	0.1	5.740	A
B-A	56	454	0.123	56	0.1	9.032	A
C-AB	311	774	0.402	310	0.8	7.766	A
C-A	143			143			
A-B	30			30			
A-C	86			86			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	705	0.159	112	0.2	6.071	A
B-A	68	420	0.163	68	0.2	10.221	B
C-AB	415	805	0.516	413	1.4	9.195	A
C-A	142			142			
A-B	36			36			
A-C	106			106			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	112	705	0.159	112	0.2	6.074	A
B-A	68	419	0.163	68	0.2	10.251	B
C-AB	416	806	0.516	416	1.4	9.293	A
C-A	141			141			
A-B	36			36			
A-C	106			106			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	92	719	0.128	92	0.1	5.745	A
B-A	56	453	0.123	56	0.1	9.068	A
C-AB	312	775	0.403	314	0.9	7.868	A
C-A	143			143			
A-B	30			30			
A-C	86			86			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	728	0.105	77	0.1	5.529	A
B-A	47	478	0.098	47	0.1	8.350	A
C-AB	246	753	0.326	247	0.6	7.139	A
C-A	135			135			
A-B	25			25			
A-C	72			72			

2028 Base + Com + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.27	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)
D14	2028 Base + Com + Dev	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	449	100.000
B		✓	195	100.000
C		✓	248	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	81	368
	B	30	0	165
	C	119	129	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.29	8.03	0.4	A
B-A	0.08	9.65	0.1	A
C-AB	0.29	8.26	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	124	675	0.184	123	0.2	6.514	A
B-A	23	470	0.048	22	0.0	8.033	A
C-AB	113	624	0.182	112	0.3	7.033	A
C-A	73			73			
A-B	61			61			
A-C	277			277			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	656	0.226	148	0.3	7.082	A
B-A	27	444	0.061	27	0.1	8.639	A
C-AB	140	621	0.226	140	0.3	7.489	A
C-A	83			83			
A-B	73			73			
A-C	331			331			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	182	630	0.288	181	0.4	8.016	A
B-A	33	406	0.081	33	0.1	9.640	A
C-AB	181	617	0.293	180	0.5	8.234	A
C-A	92			92			
A-B	89			89			
A-C	405			405			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	182	630	0.288	182	0.4	8.033	A
B-A	33	406	0.081	33	0.1	9.649	A
C-AB	181	617	0.293	181	0.5	8.257	A
C-A	92			92			
A-B	89			89			
A-C	405			405			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	656	0.226	149	0.3	7.104	A
B-A	27	443	0.061	27	0.1	8.651	A
C-AB	140	621	0.226	141	0.3	7.516	A
C-A	82			82			
A-B	73			73			
A-C	331			331			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	124	675	0.184	124	0.2	6.543	A
B-A	23	470	0.048	23	0.1	8.052	A
C-AB	114	624	0.182	114	0.3	7.069	A
C-A	73			73			
A-B	61			61			
A-C	277			277			

2028 Base + Com + Dev (500 Spaces), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		6.14	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)
D15	2028 Base + Com + Dev (500 Spaces)	AM	ONE HOUR	07:30	09:00	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	134	100.000
B		✓	171	100.000
C		✓	520	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	38	96
	B	64	0	107
	C	268	252	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.17	6.15	0.2	A
B-A	0.17	10.52	0.2	B
C-AB	0.55	9.96	1.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	81	727	0.111	80	0.1	5.561	A
B-A	48	475	0.102	48	0.1	8.423	A
C-AB	259	751	0.345	257	0.6	7.254	A
C-A	132			132			
A-B	29			29			
A-C	72			72			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	96	717	0.134	96	0.2	5.793	A
B-A	58	449	0.128	57	0.1	9.199	A
C-AB	330	774	0.427	329	0.9	8.103	A
C-A	137			137			
A-B	34			34			
A-C	86			86			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	118	703	0.168	118	0.2	6.150	A
B-A	70	413	0.170	70	0.2	10.485	B
C-AB	440	804	0.547	438	1.5	9.836	A
C-A	132			132			
A-B	42			42			
A-C	106			106			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	118	703	0.168	118	0.2	6.154	A
B-A	70	413	0.171	70	0.2	10.519	B
C-AB	441	805	0.548	441	1.6	9.963	A
C-A	131			131			
A-B	42			42			
A-C	106			106			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	96	717	0.134	96	0.2	5.801	A
B-A	58	448	0.129	58	0.1	9.241	A
C-AB	331	775	0.427	333	1.0	8.232	A
C-A	136			136			
A-B	34			34			
A-C	86			86			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	81	727	0.111	81	0.1	5.574	A
B-A	48	473	0.102	48	0.1	8.470	A
C-AB	260	752	0.346	262	0.7	7.371	A
C-A	131			131			
A-B	29			29			
A-C	72			72			

2028 Base + Com + Dev (500 Spaces), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Headbolt Lane / Pingwood Lane / Dale Lane	T-Junction	Two-way		3.57	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)
D16	2028 Base + Com + Dev (500 Spaces)	PM	ONE HOUR	16:00	17:30	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	453	100.000
B		✓	217	100.000
C		✓	256	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	85	368
	B	36	0	181
	C	119	137	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.32	8.43	0.5	A
B-A	0.10	9.96	0.1	A
C-AB	0.31	8.50	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	138	673	0.202	135	0.3	6.683	A
B-A	27	468	0.058	27	0.1	8.165	A
C-AB	120	623	0.193	119	0.3	7.139	A
C-A	72			72			
A-B	64			64			
A-C	277			277			

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	163	654	0.249	162	0.3	7.324	A
B-A	32	440	0.074	32	0.1	8.829	A
C-AB	149	620	0.240	149	0.4	7.641	A
C-A	81			81			
A-B	76			76			
A-C	331			331			

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	199	627	0.318	199	0.5	8.406	A
B-A	40	401	0.099	40	0.1	9.944	A
C-AB	192	616	0.311	191	0.5	8.469	A
C-A	90			90			
A-B	94			94			
A-C	405			405			

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	199	626	0.318	199	0.5	8.427	A
B-A	40	401	0.099	40	0.1	9.956	A
C-AB	192	616	0.312	192	0.5	8.496	A
C-A	90			90			
A-B	94			94			
A-C	405			405			

16:00 - 17:00

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	163	653	0.249	163	0.3	7.349	A
B-A	32	440	0.074	32	0.1	8.845	A
C-AB	149	620	0.241	150	0.4	7.671	A
C-A	81			81			
A-B	76			76			
A-C	331			331			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	136	673	0.203	137	0.3	6.716	A
B-A	27	467	0.058	27	0.1	8.186	A
C-AB	121	623	0.194	121	0.3	7.183	A
C-A	72			72			
A-B	64			64			
A-C	277			277			

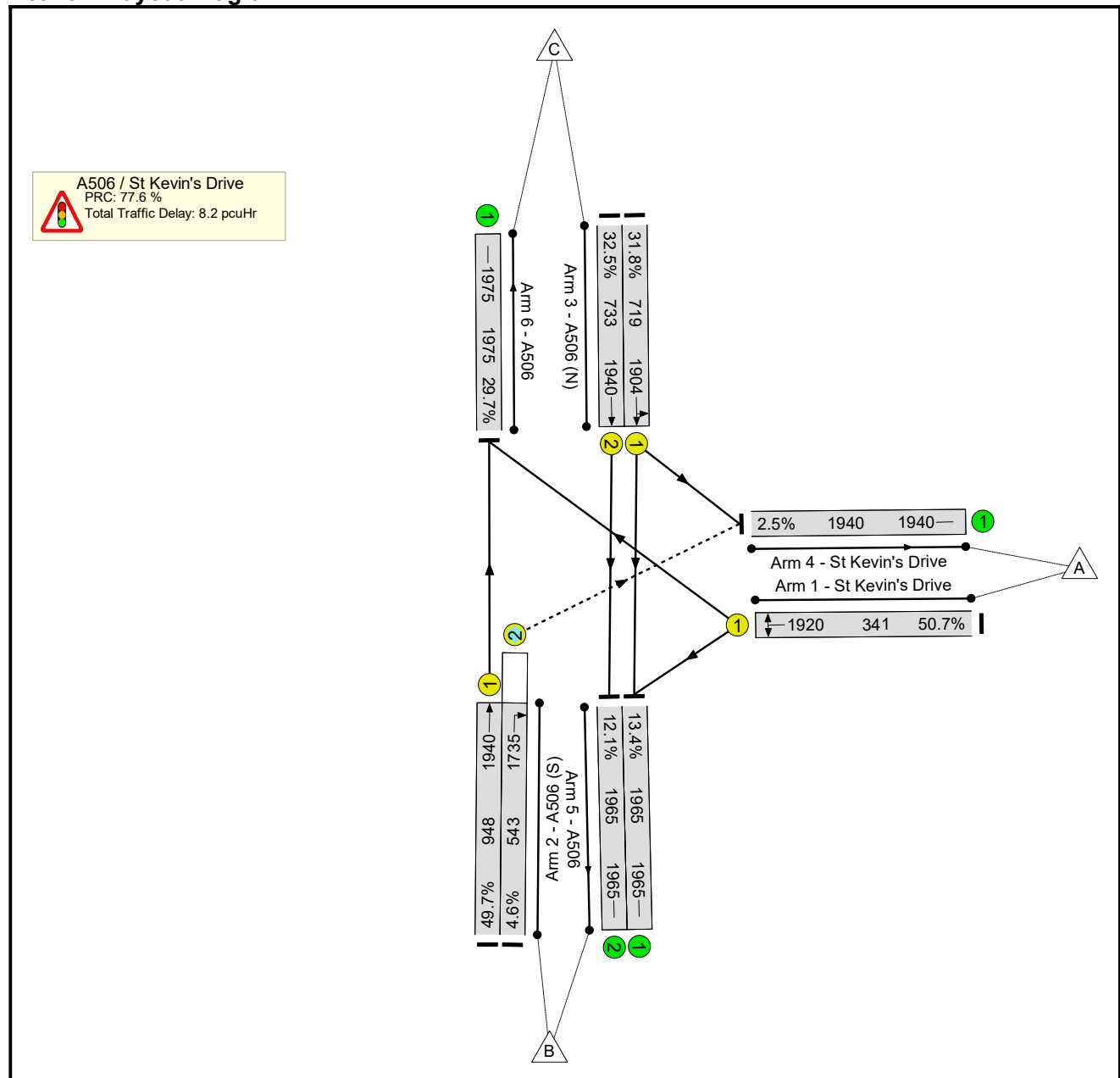
Basic Results Summary
Basic Results Summary

User and Project Details

Project:	
Title:	
Location:	
File name:	St Kevins Drive.lsg3x
Author:	
Company:	
Address:	
Notes:	

Scenario 1: '2023 AM Base' (FG1: '2023 AM Base', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



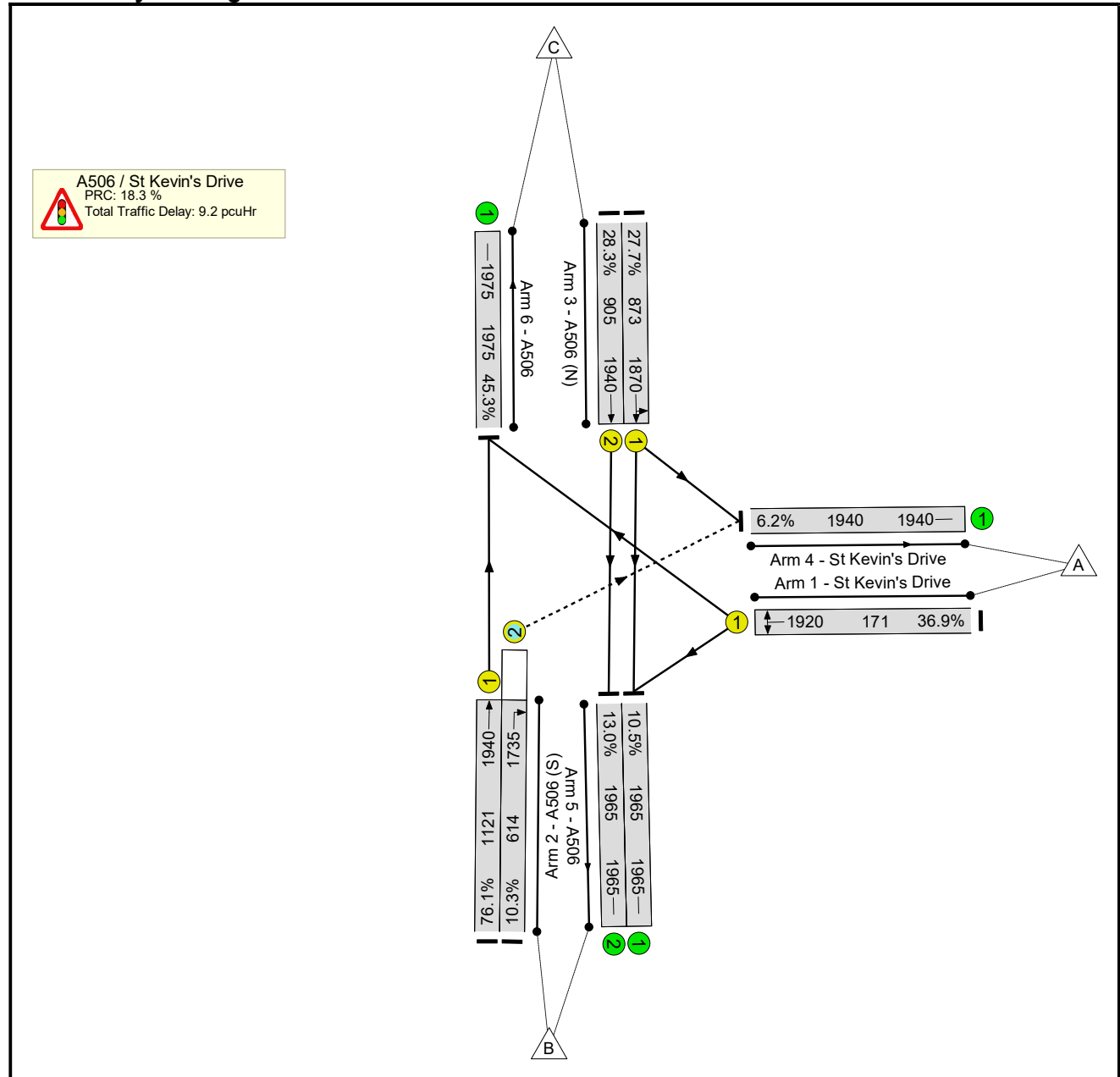
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	50.7%	22	2	1	8.2	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	50.7%	22	2	1	8.2	-	-
1/1	St Kevin's Drive Left Right	U	C		1	15	-	173	1920	341	50.7%	-	-	-	2.1	44.1	4.4
2/1	A506 (S) Ahead	U	A		1	43	-	471	1940	948	49.7%	-	-	-	2.5	19.3	8.3
2/2	A506 (S) Right	O	A	D	1	43	4	25	1735	543	4.6%	22	2	1	0.1	19.6	0.3
3/1	A506 (N) Left Ahead	U	B		1	33	-	229	1904	719	31.8%	-	-	-	1.5	23.5	4.2
3/2	A506 (N) Ahead	U	B		1	33	-	238	1940	733	32.5%	-	-	-	1.6	23.5	4.4
4/1	St Kevin's Drive	U	-		-	-	-	48	1940	1940	2.5%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	264	1965	1965	13.4%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	238	1965	1965	12.1%	-	-	-	0.1	1.0	0.1
6/1	A506	U	-		-	-	-	586	1975	1975	29.7%	-	-	-	0.2	1.3	0.2
C1 PRC for Signalised Lanes (%): 77.6 Total Delay for Signalised Lanes (pcuHr): 7.82 Cycle Time (s): 90 PRC Over All Lanes (%): 77.6 Total Delay Over All Lanes(pcuHr): 8.19																	

Basic Results Summary

Scenario 2: '2023 PM Base' (FG2: '2023 PM Base', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



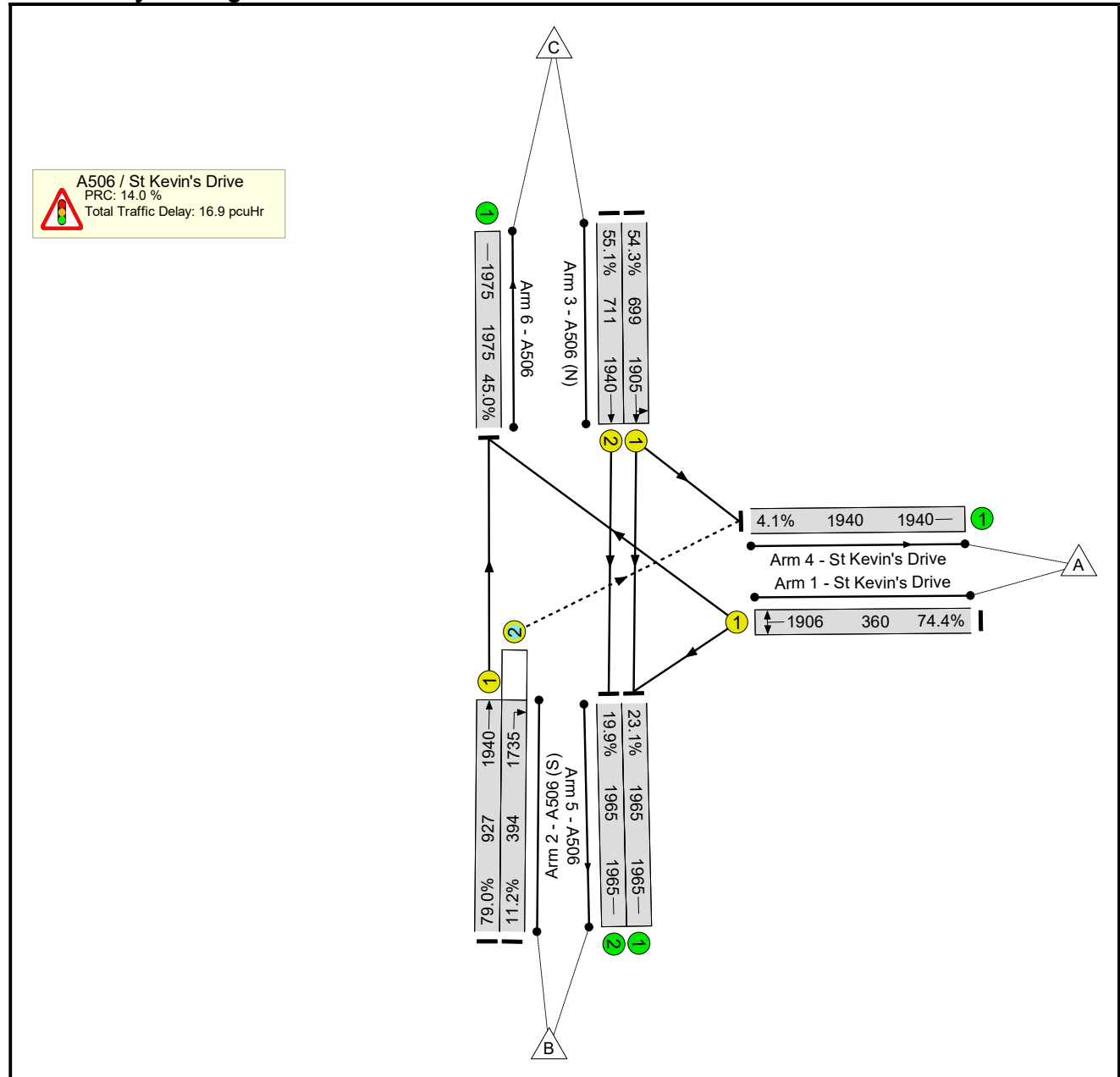
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	76.1%	55	6	2	9.2	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	76.1%	55	6	2	9.2	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	63	1920	171	36.9%	-	-	-	1.0	55.3	1.8
2/1	A506 (S) Ahead	U	A		1	51	-	853	1940	1121	76.1%	-	-	-	5.0	21.0	17.4
2/2	A506 (S) Right	O	A	D	1	51	4	63	1735	614	10.3%	55	6	2	0.3	15.3	0.7
3/1	A506 (N) Left Ahead	U	B		1	41	-	242	1870	873	27.7%	-	-	-	1.2	17.6	3.9
3/2	A506 (N) Ahead	U	B		1	41	-	256	1940	905	28.3%	-	-	-	1.2	17.5	4.1
4/1	St Kevin's Drive	U	-		-	-	-	120	1940	1940	6.2%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	206	1965	1965	10.5%	-	-	-	0.1	1.0	0.1
5/2	A506	U	-		-	-	-	256	1965	1965	13.0%	-	-	-	0.1	1.1	0.1
6/1	A506	U	-		-	-	-	895	1975	1975	45.3%	-	-	-	0.4	1.7	0.4
C1 PRC for Signalled Lanes (%): 18.3 Total Delay for Signalled Lanes (pcuHr): 8.63 Cycle Time (s): 90 PRC Over All Lanes (%): 18.3 Total Delay Over All Lanes(pcuHr): 9.21																	

Basic Results Summary

Scenario 3: '2023 AM Base + Com' (FG7: '2023 AM Base + Com', Plan 1: 'Network Control Plan 1')

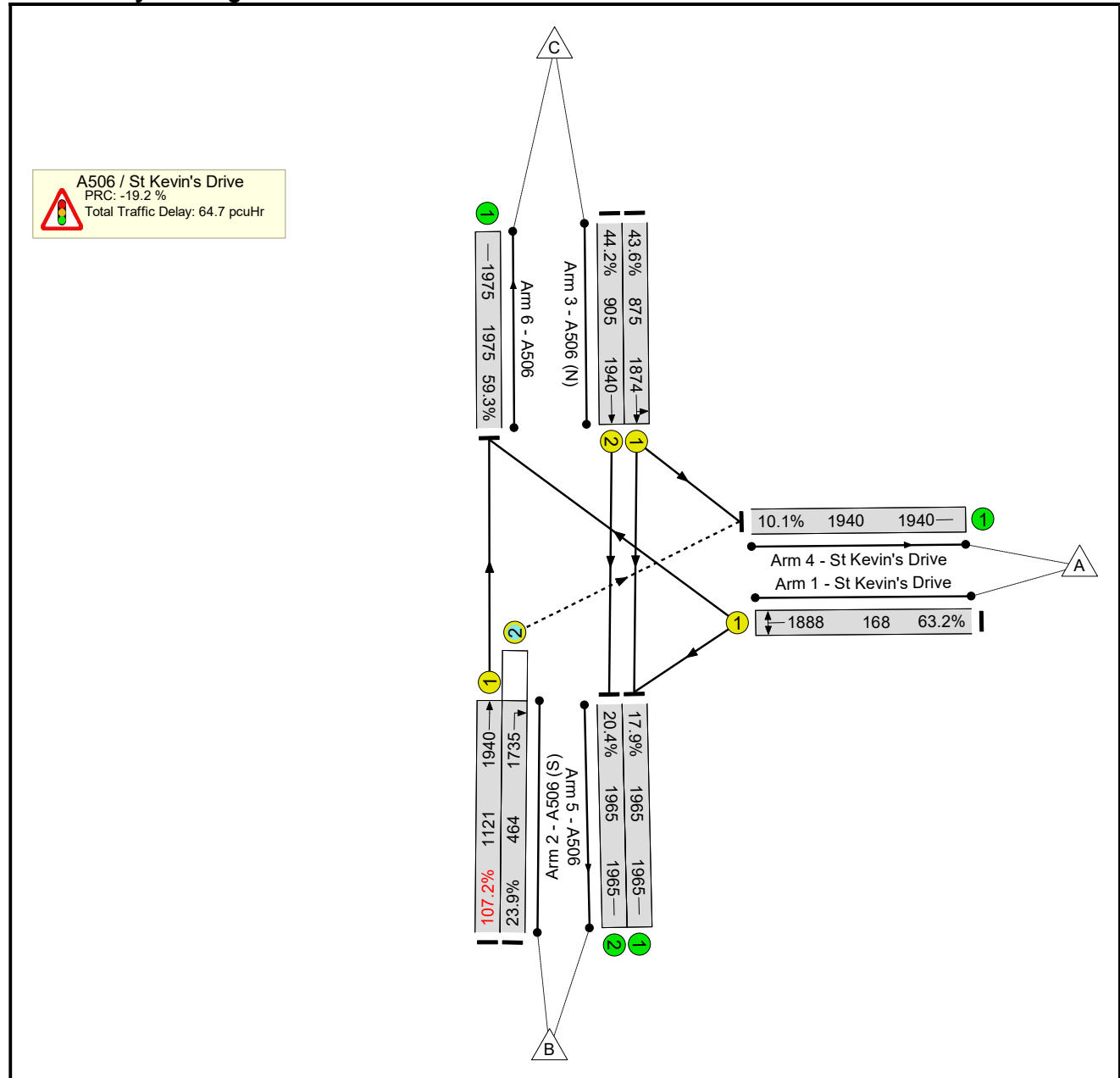
Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	79.0%	39	4	1	16.9	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	79.0%	39	4	1	16.9	-	-
1/1	St Kevin's Drive Left Right	U	C		1	16	-	268	1906	360	74.4%	-	-	-	4.0	53.4	7.7
2/1	A506 (S) Ahead	U	A		1	42	-	732	1940	927	79.0%	-	-	-	5.9	28.8	17.1
2/2	A506 (S) Right	O	A	D	1	42	4	44	1735	394	11.2%	39	4	1	0.3	27.5	0.6
3/1	A506 (N) Left Ahead	U	B		1	32	-	379	1905	699	54.3%	-	-	-	3.0	28.1	8.1
3/2	A506 (N) Ahead	U	B		1	32	-	392	1940	711	55.1%	-	-	-	3.1	28.2	8.3
4/1	St Kevin's Drive	U	-		-	-	-	80	1940	1940	4.1%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	454	1965	1965	23.1%	-	-	-	0.2	1.2	0.2
5/2	A506	U	-		-	-	-	392	1965	1965	19.9%	-	-	-	0.1	1.1	0.1
6/1	A506	U	-		-	-	-	889	1975	1975	45.0%	-	-	-	0.4	1.7	0.4
C1 PRC for Signalised Lanes (%): 14.0 Total Delay for Signalised Lanes (pcuHr): 16.20 Cycle Time (s): 90 PRC Over All Lanes (%): 14.0 Total Delay Over All Lanes(pcuHr): 16.91																	

Network Layout Diagram



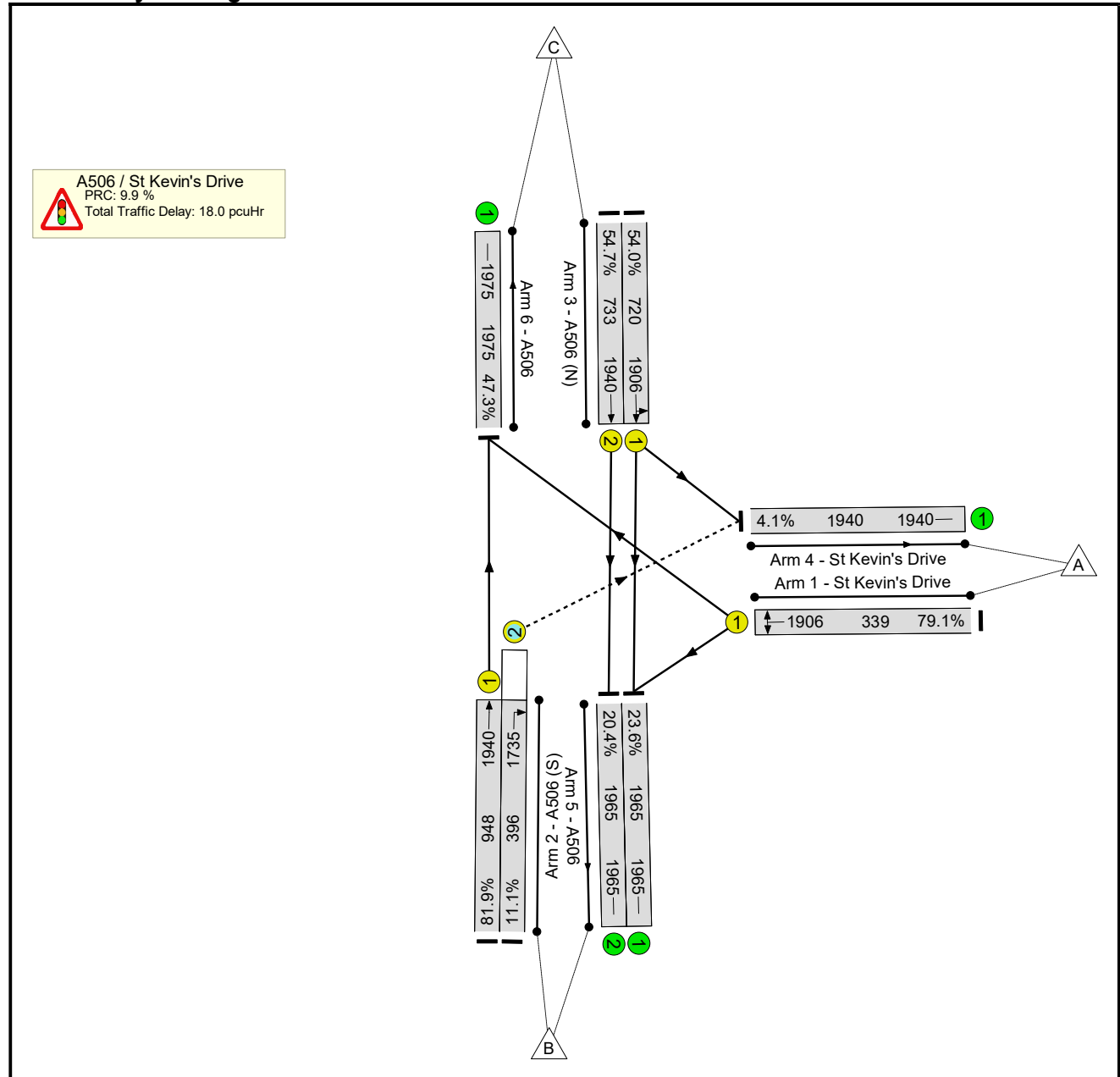
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	107.2%	97	10	4	64.7	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	107.2%	97	10	4	64.7	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	106	1888	168	63.2%	-	-	-	2.0	67.9	3.4
2/1	A506 (S) Ahead	U	A		1	51	-	1202	1940	1121	107.2%	-	-	-	56.7	169.8	79.0
2/2	A506 (S) Right	O	A	D	1	51	4	111	1735	464	23.9%	97	10	4	0.7	22.2	1.4
3/1	A506 (N) Left Ahead	U	B		1	41	-	381	1874	875	43.6%	-	-	-	2.1	19.7	6.7
3/2	A506 (N) Ahead	U	B		1	41	-	400	1940	905	44.2%	-	-	-	2.2	19.7	7.1
4/1	St Kevin's Drive	U	-		-	-	-	195	1940	1940	10.1%	-	-	-	0.1	1.0	0.1
5/1	A506	U	-		-	-	-	352	1965	1965	17.9%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	400	1965	1965	20.4%	-	-	-	0.1	1.1	0.1
6/1	A506	U	-		-	-	-	1253	1975	1975	59.3%	-	-	-	0.7	2.2	0.7
C1 PRC for Signalled Lanes (%): -19.2 Total Delay for Signalled Lanes (pcuHr): 63.65 Cycle Time (s): 90 PRC Over All Lanes (%): -19.2 Total Delay Over All Lanes(pcuHr): 64.67																	

Basic Results Summary

Scenario 5: '2023 AM Base + Com + Dev' (FG9: '2023 AM Base + Com + Dev', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



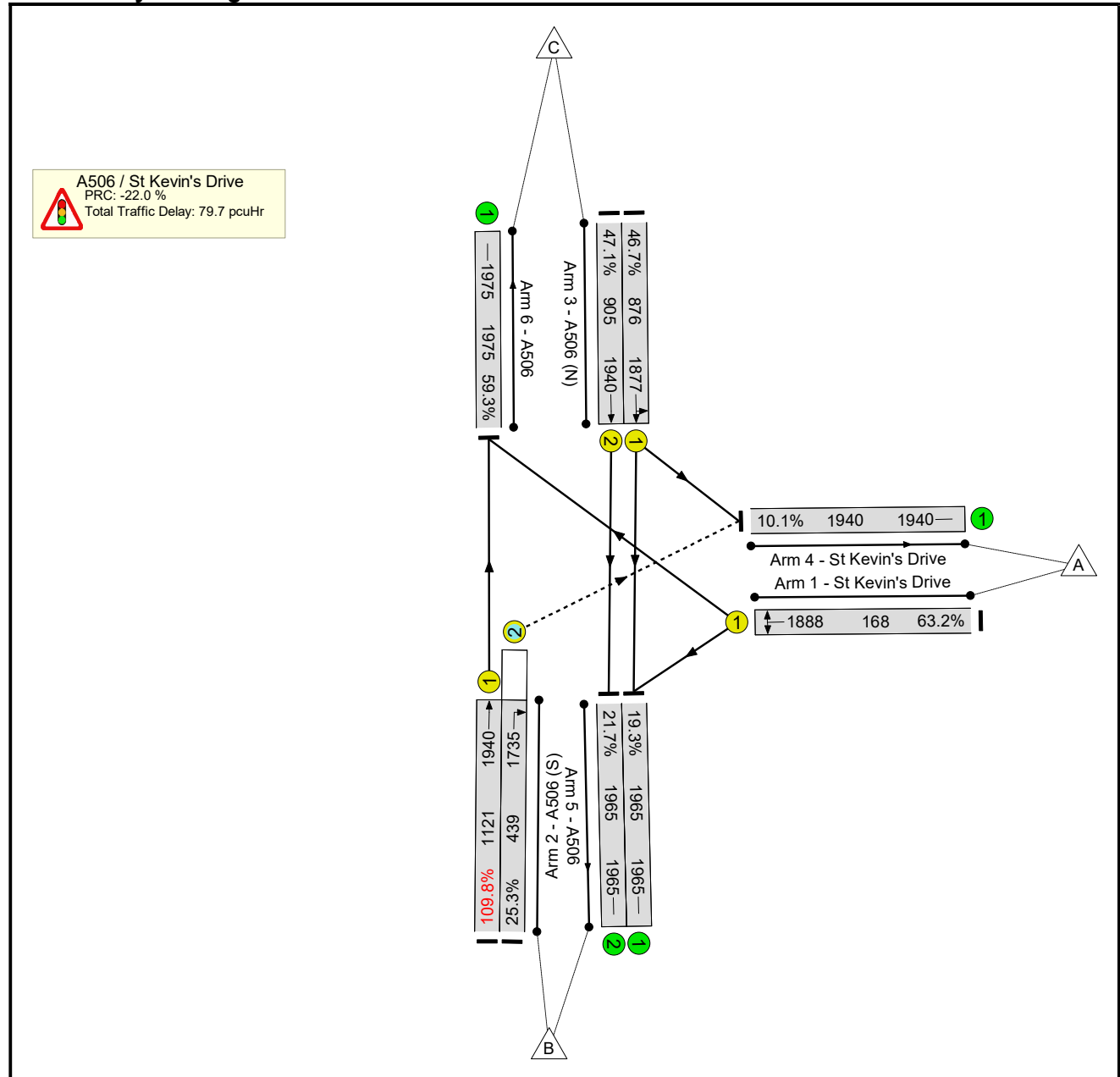
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	81.9%	39	4	1	18.0	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	81.9%	39	4	1	18.0	-	-
1/1	St Kevin's Drive Left Right	U	C		1	15	-	268	1906	339	79.1%	-	-	-	4.4	59.6	8.2
2/1	A506 (S) Ahead	U	A		1	43	-	777	1940	948	81.9%	-	-	-	6.4	29.8	18.6
2/2	A506 (S) Right	O	A	D	1	43	4	44	1735	396	11.1%	39	4	1	0.3	26.8	0.6
3/1	A506 (N) Left Ahead	U	B		1	33	-	389	1906	720	54.0%	-	-	-	3.0	27.3	8.1
3/2	A506 (N) Ahead	U	B		1	33	-	401	1940	733	54.7%	-	-	-	3.0	27.4	8.4
4/1	St Kevin's Drive	U	-		-	-	-	80	1940	1940	4.1%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	464	1965	1965	23.6%	-	-	-	0.2	1.2	0.2
5/2	A506	U	-		-	-	-	401	1965	1965	20.4%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	934	1975	1975	47.3%	-	-	-	0.4	1.7	0.4
C1 PRC for Signalled Lanes (%): 9.9 Total Delay for Signalled Lanes (pcuHr): 17.20 Cycle Time (s): 90 PRC Over All Lanes (%): 9.9 Total Delay Over All Lanes(pcuHr): 17.96																	

Basic Results Summary

Scenario 6: '2023 PM Base + Com + Dev' (FG10: '2023 PM Base + Com + Dev', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



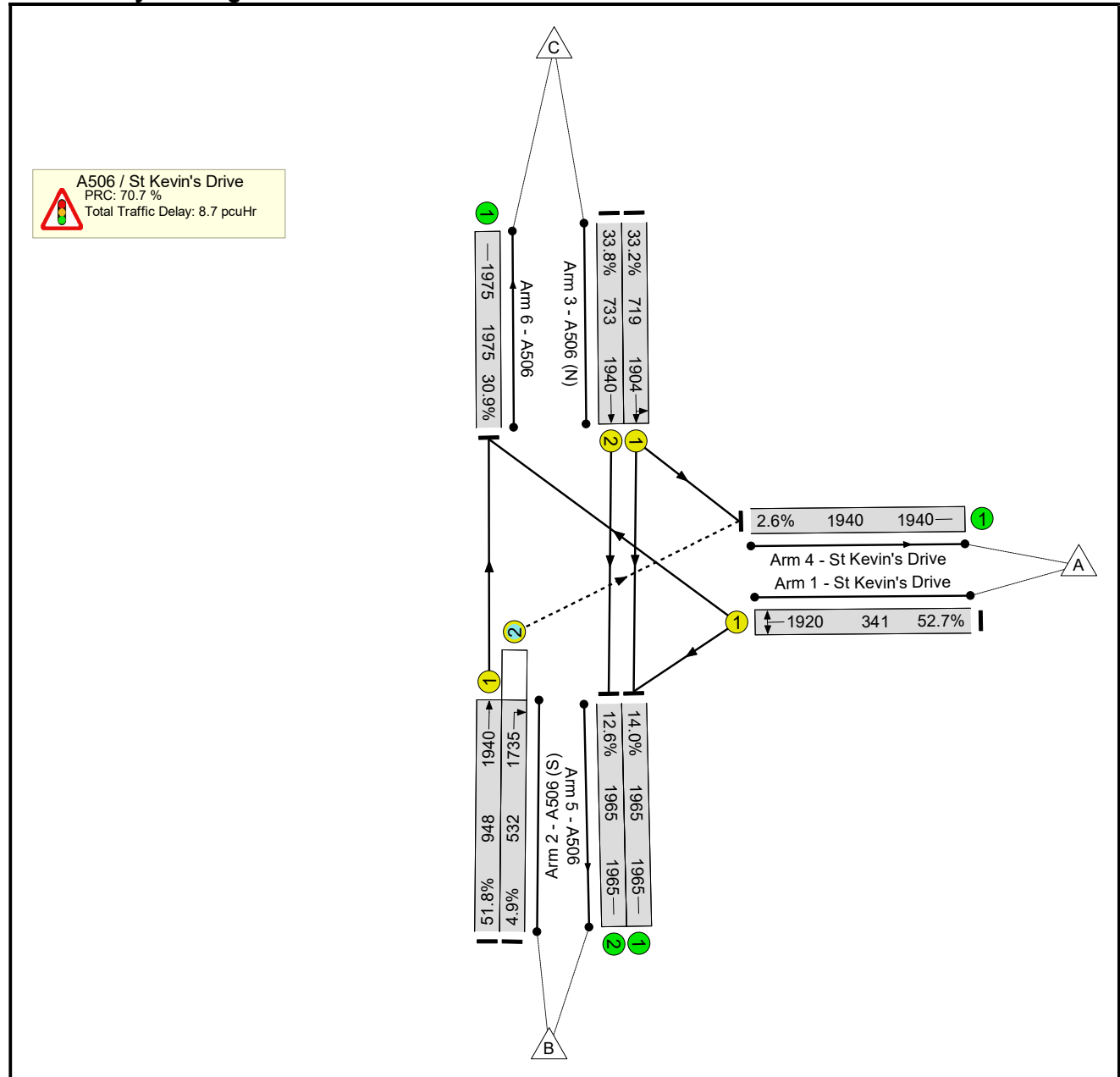
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	109.8%	97	10	4	79.7	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	109.8%	97	10	4	79.7	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	106	1888	168	63.2%	-	-	-	2.0	67.9	3.4
2/1	A506 (S) Ahead	U	A		1	51	-	1231	1940	1121	109.8%	-	-	-	71.3	208.4	93.7
2/2	A506 (S) Right	O	A	D	1	51	4	111	1735	439	25.3%	97	10	4	0.7	23.8	1.4
3/1	A506 (N) Left Ahead	U	B		1	41	-	409	1877	876	46.7%	-	-	-	2.3	20.2	7.4
3/2	A506 (N) Ahead	U	B		1	41	-	426	1940	905	47.1%	-	-	-	2.4	20.2	7.7
4/1	St Kevin's Drive	U	-		-	-	-	195	1940	1940	10.1%	-	-	-	0.1	1.0	0.1
5/1	A506	U	-		-	-	-	380	1965	1965	19.3%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	426	1965	1965	21.7%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	1282	1975	1975	59.3%	-	-	-	0.7	2.2	0.7
C1																	
PRC for Signalised Lanes (%):							-22.0		Total Delay for Signalised Lanes (pcuHr):			78.69		Cycle Time (s): 90			
PRC Over All Lanes (%):							-22.0		Total Delay Over All Lanes(pcuHr):			79.73					

Basic Results Summary

Scenario 7: '2028 AM Base' (FG11: '2028 AM Base', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



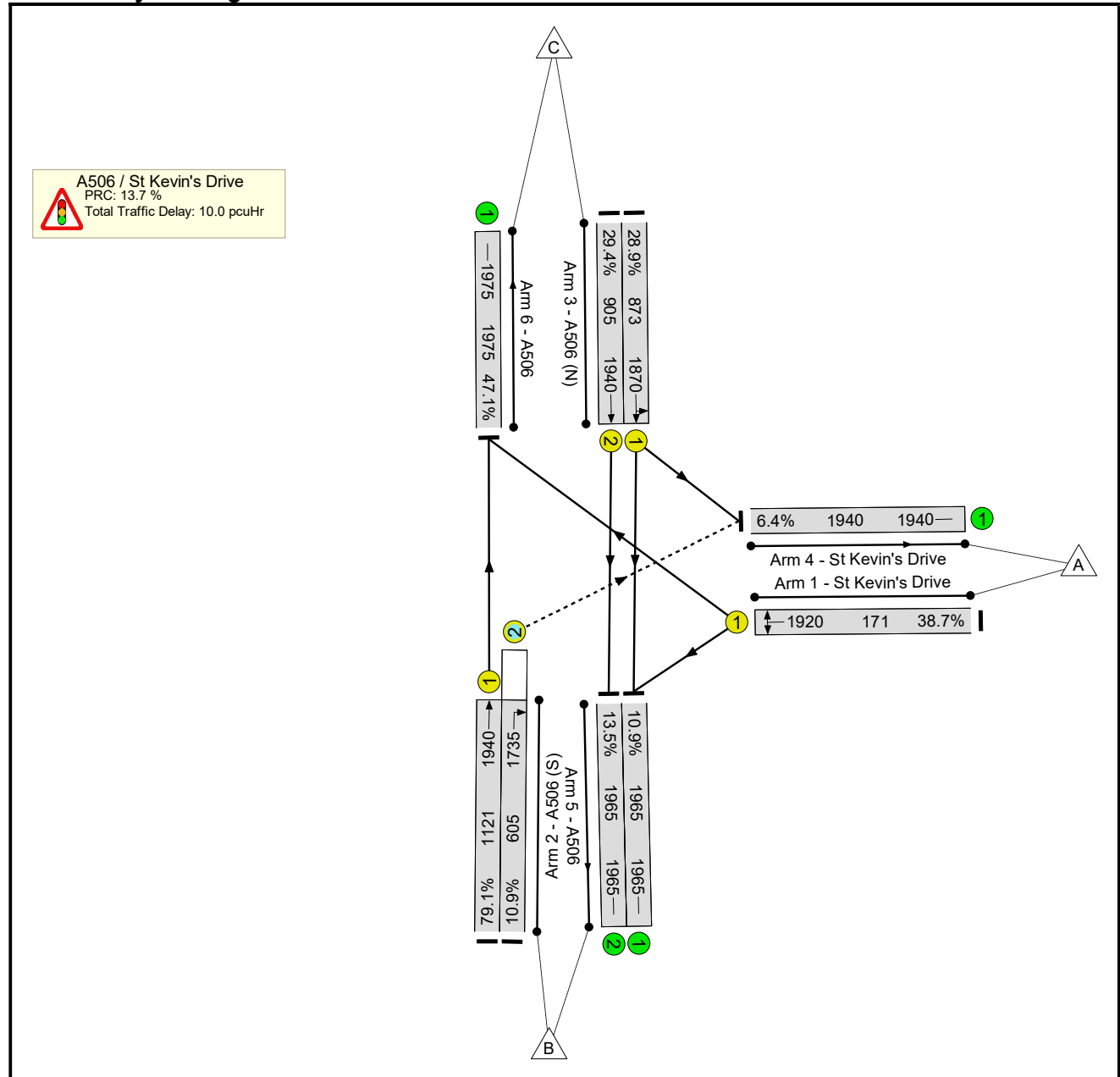
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	52.7%	23	2	1	8.7	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	52.7%	23	2	1	8.7	-	-
1/1	St Kevin's Drive Left Right	U	C		1	15	-	180	1920	341	52.7%	-	-	-	2.2	44.7	4.6
2/1	A506 (S) Ahead	U	A		1	43	-	491	1940	948	51.8%	-	-	-	2.7	19.7	8.9
2/2	A506 (S) Right	O	A	D	1	43	4	26	1735	532	4.9%	23	2	1	0.1	19.9	0.4
3/1	A506 (N) Left Ahead	U	B		1	33	-	239	1904	719	33.2%	-	-	-	1.6	23.7	4.5
3/2	A506 (N) Ahead	U	B		1	33	-	248	1940	733	33.8%	-	-	-	1.6	23.7	4.7
4/1	St Kevin's Drive	U	-		-	-	-	50	1940	1940	2.6%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	275	1965	1965	14.0%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	248	1965	1965	12.6%	-	-	-	0.1	1.0	0.1
6/1	A506	U	-		-	-	-	611	1975	1975	30.9%	-	-	-	0.2	1.3	0.2
C1 PRC for Signalled Lanes (%): 70.7 Total Delay for Signalled Lanes (pcuHr): 8.26 Cycle Time (s): 90 PRC Over All Lanes (%): 70.7 Total Delay Over All Lanes(pcuHr): 8.65																	

Basic Results Summary

Scenario 8: '2028 PM Base' (FG12: '2028 PM Base', Plan 1: 'Network Control Plan 1')

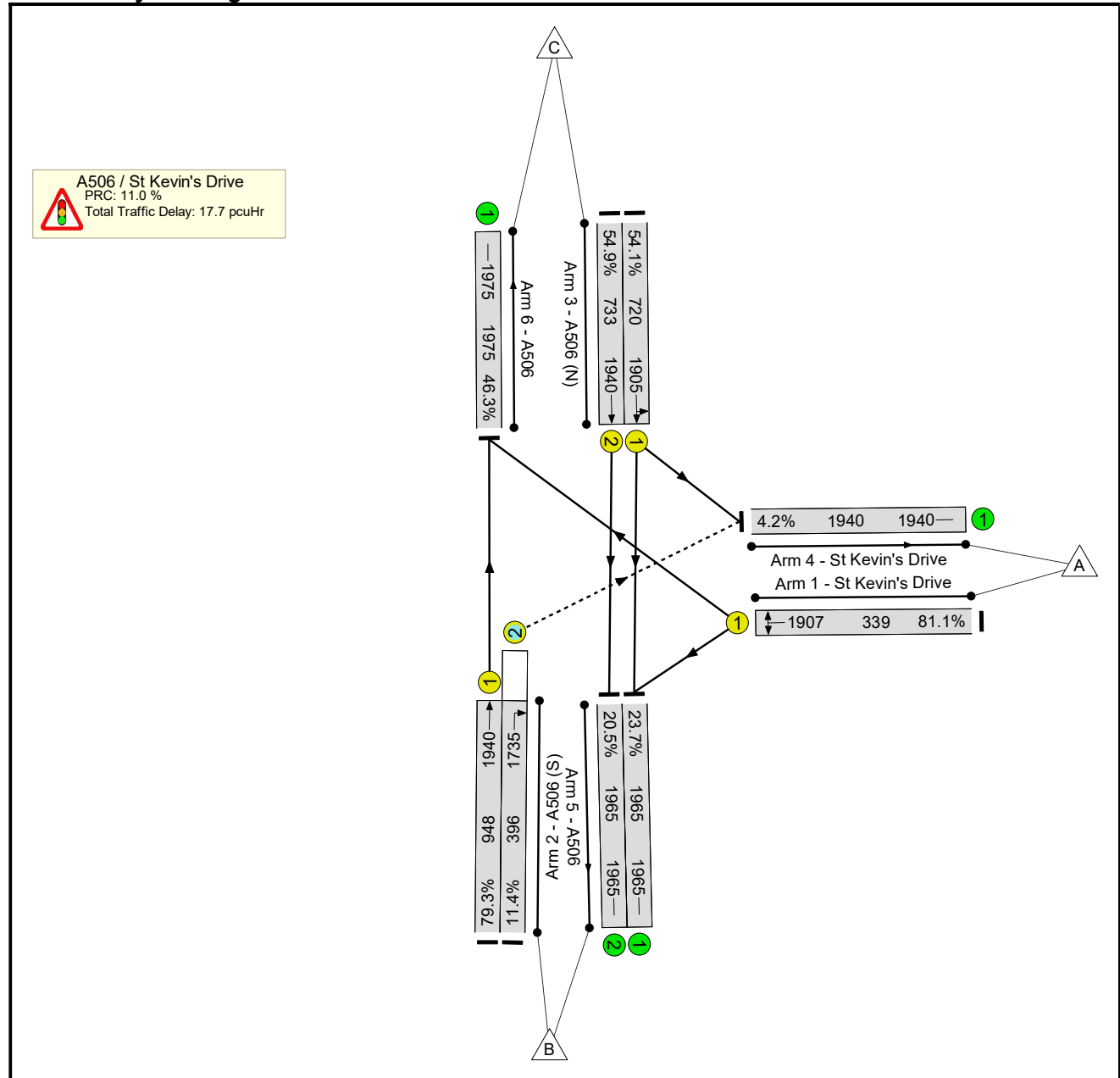
Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	79.1%	58	6	2	10.0	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	79.1%	58	6	2	10.0	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	66	1920	171	38.7%	-	-	-	1.0	55.8	1.9
2/1	A506 (S) Ahead	U	A		1	51	-	887	1940	1121	79.1%	-	-	-	5.5	22.4	19.1
2/2	A506 (S) Right	O	A	D	1	51	4	66	1735	605	10.9%	58	6	2	0.3	15.5	0.8
3/1	A506 (N) Left Ahead	U	B		1	41	-	252	1870	873	28.9%	-	-	-	1.2	17.7	4.1
3/2	A506 (N) Ahead	U	B		1	41	-	266	1940	905	29.4%	-	-	-	1.3	17.7	4.3
4/1	St Kevin's Drive	U	-		-	-	-	125	1940	1940	6.4%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	215	1965	1965	10.9%	-	-	-	0.1	1.0	0.1
5/2	A506	U	-		-	-	-	266	1965	1965	13.5%	-	-	-	0.1	1.1	0.1
6/1	A506	U	-		-	-	-	931	1975	1975	47.1%	-	-	-	0.4	1.7	0.4
C1 PRC for Signalled Lanes (%): 13.7 Total Delay for Signalled Lanes (pcuHr): 9.36 Cycle Time (s): 90 PRC Over All Lanes (%): 13.7 Total Delay Over All Lanes(pcuHr): 9.98																	

Network Layout Diagram



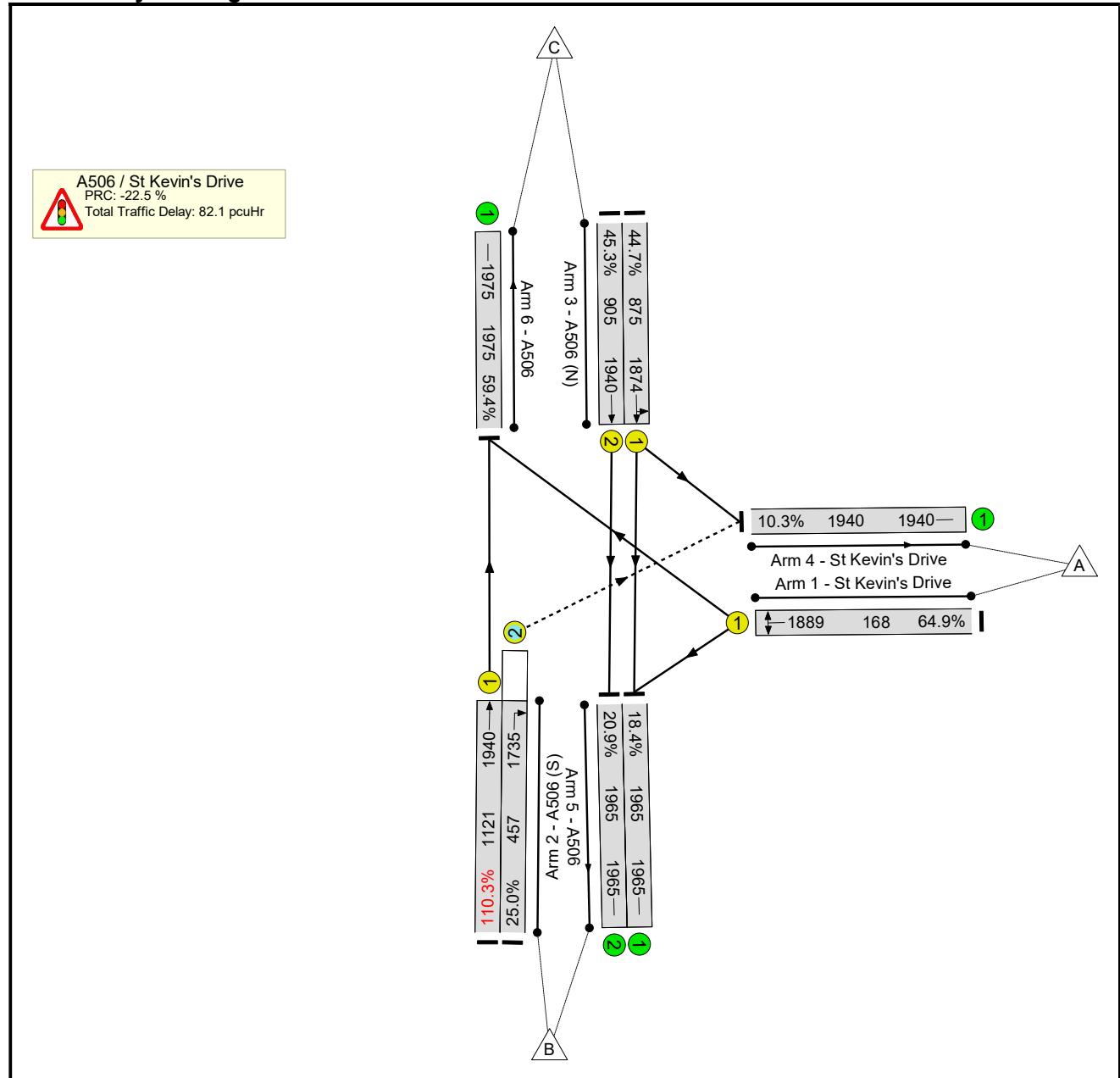
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	81.1%	40	4	2	17.7	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	81.1%	40	4	2	17.7	-	-
1/1	St Kevin's Drive Left Right	U	C		1	15	-	275	1907	339	81.1%	-	-	-	4.7	62.0	8.6
2/1	A506 (S) Ahead	U	A		1	43	-	752	1940	948	79.3%	-	-	-	5.9	28.2	17.5
2/2	A506 (S) Right	O	A	D	1	43	4	45	1735	396	11.4%	40	4	2	0.3	26.8	0.7
3/1	A506 (N) Left Ahead	U	B		1	33	-	389	1905	720	54.1%	-	-	-	3.0	27.3	8.2
3/2	A506 (N) Ahead	U	B		1	33	-	402	1940	733	54.9%	-	-	-	3.1	27.4	8.4
4/1	St Kevin's Drive	U	-		-	-	-	82	1940	1940	4.2%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	465	1965	1965	23.7%	-	-	-	0.2	1.2	0.2
5/2	A506	U	-		-	-	-	402	1965	1965	20.5%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	914	1975	1975	46.3%	-	-	-	0.4	1.7	0.4
C1 PRC for Signalled Lanes (%): 11.0 Total Delay for Signalled Lanes (pcuHr): 16.97 Cycle Time (s): 90 PRC Over All Lanes (%): 11.0 Total Delay Over All Lanes(pcuHr): 17.71																	

Basic Results Summary

Scenario 10: '2028 PM Base + Com' (FG14: '2028 PM Base + Com', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



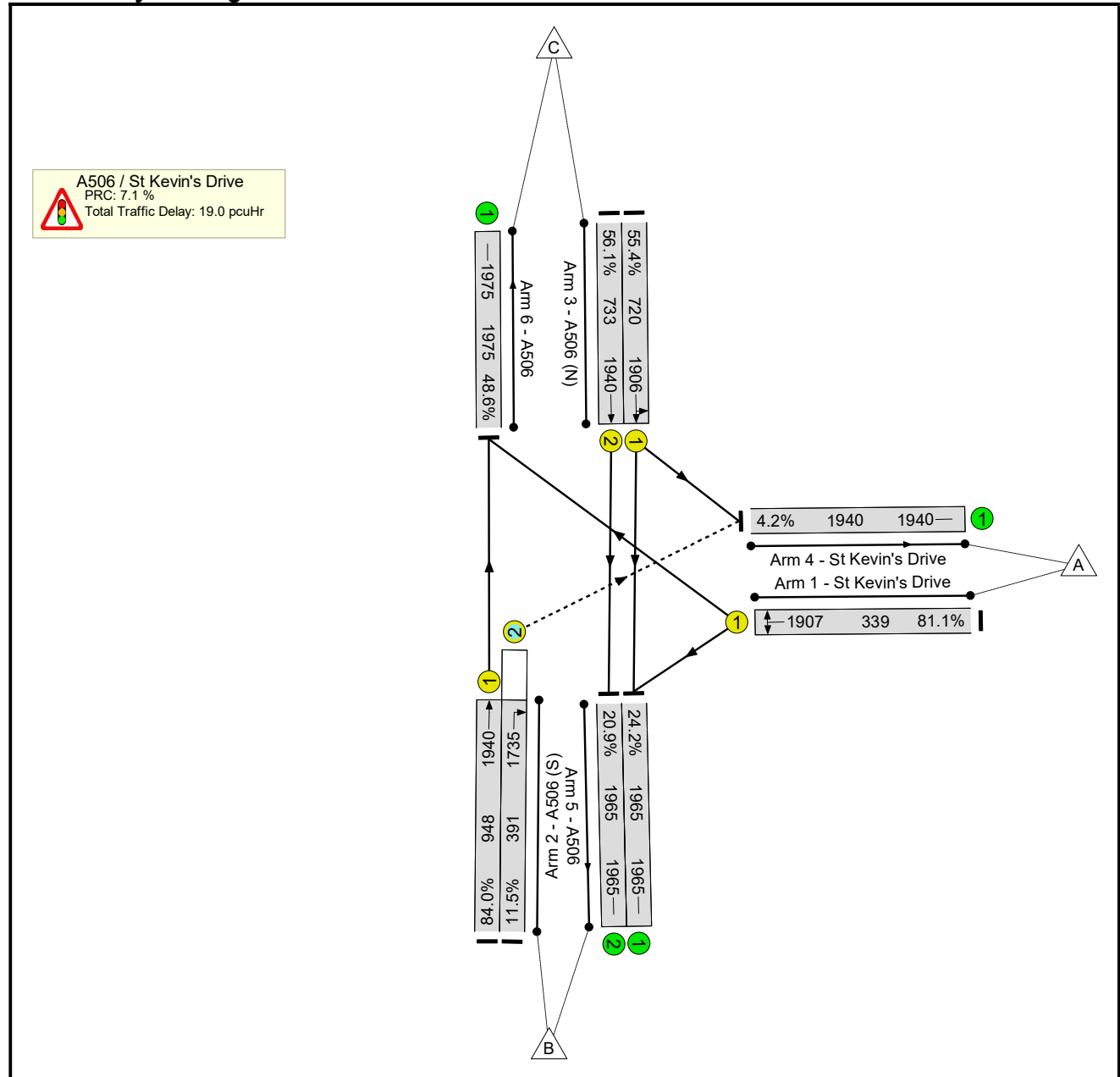
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	110.3%	100	10	4	82.1	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	110.3%	100	10	4	82.1	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	109	1889	168	64.9%	-	-	-	2.1	69.3	3.5
2/1	A506 (S) Ahead	U	A		1	51	-	1236	1940	1121	110.3%	-	-	-	73.8	215.1	96.3
2/2	A506 (S) Right	O	A	D	1	51	4	114	1735	457	25.0%	100	10	4	0.7	22.6	1.4
3/1	A506 (N) Left Ahead	U	B		1	41	-	391	1874	875	44.7%	-	-	-	2.2	19.9	6.9
3/2	A506 (N) Ahead	U	B		1	41	-	410	1940	905	45.3%	-	-	-	2.3	19.9	7.2
4/1	St Kevin's Drive	U	-		-	-	-	200	1940	1940	10.3%	-	-	-	0.1	1.0	0.1
5/1	A506	U	-		-	-	-	361	1965	1965	18.4%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	410	1965	1965	20.9%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	1289	1975	1975	59.4%	-	-	-	0.7	2.2	0.7
C1 PRC for Signalled Lanes (%): -22.5 Total Delay for Signalled Lanes (pcuHr): 81.07 Cycle Time (s): 90 PRC Over All Lanes (%): -22.5 Total Delay Over All Lanes(pcuHr): 82.11																	

Basic Results Summary

Scenario 11: '2028 AM Base + Com + Dev' (FG15: '2028 AM Base + Com + Dev', Plan 1: 'Network Control Plan 1')

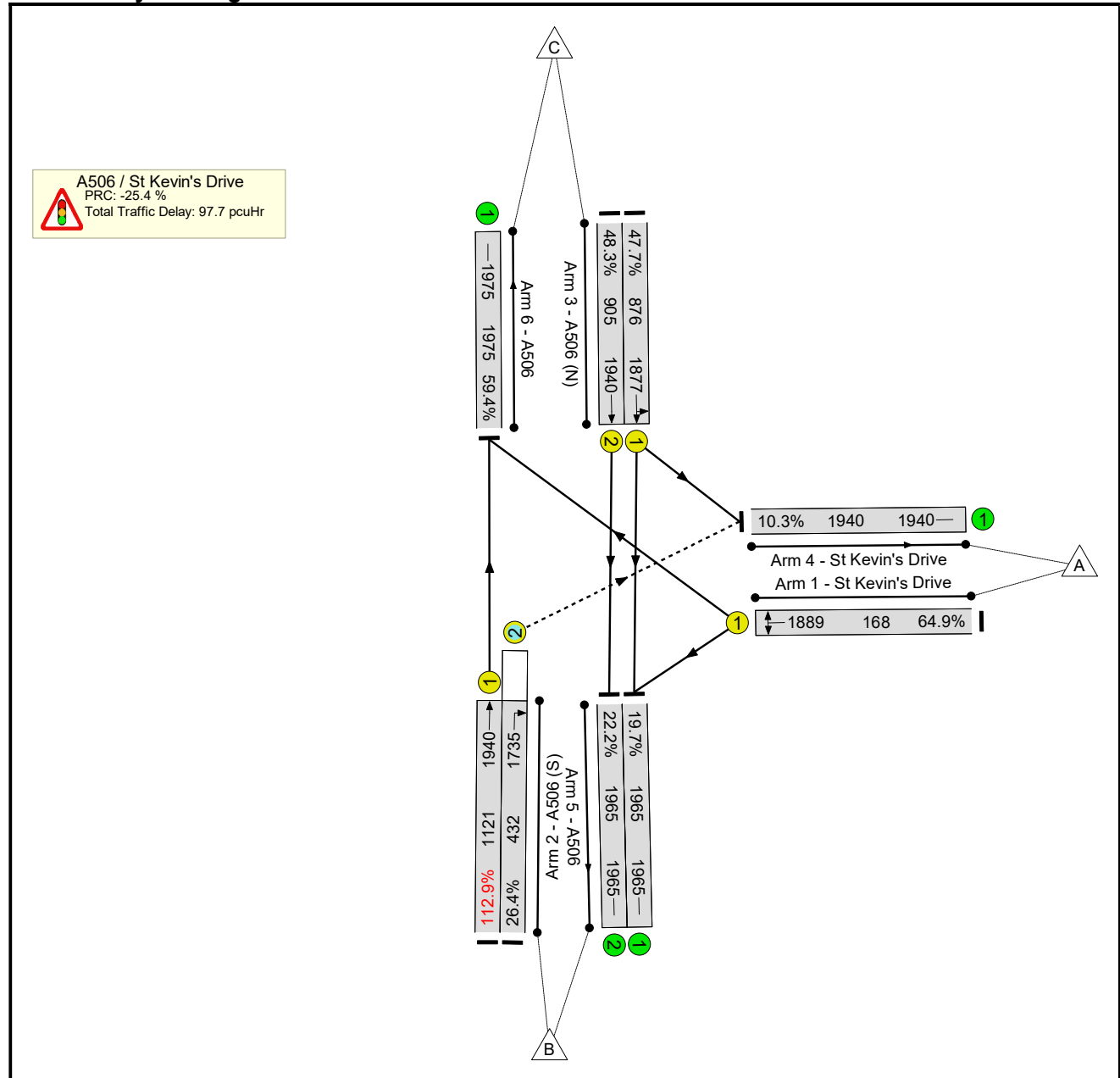
Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	84.0%	40	4	2	19.0	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	84.0%	40	4	2	19.0	-	-
1/1	St Kevin's Drive Left Right	U	C		1	15	-	275	1907	339	81.1%	-	-	-	4.7	62.0	8.6
2/1	A506 (S) Ahead	U	A		1	43	-	797	1940	948	84.0%	-	-	-	7.0	31.5	19.8
2/2	A506 (S) Right	O	A	D	1	43	4	45	1735	391	11.5%	40	4	2	0.3	27.1	0.7
3/1	A506 (N) Left Ahead	U	B		1	33	-	399	1906	720	55.4%	-	-	-	3.1	27.6	8.4
3/2	A506 (N) Ahead	U	B		1	33	-	411	1940	733	56.1%	-	-	-	3.2	27.7	8.7
4/1	St Kevin's Drive	U	-		-	-	-	82	1940	1940	4.2%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	475	1965	1965	24.2%	-	-	-	0.2	1.2	0.2
5/2	A506	U	-		-	-	-	411	1965	1965	20.9%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	959	1975	1975	48.6%	-	-	-	0.5	1.8	0.5
C1 PRC for Signalled Lanes (%): 7.1 Total Delay for Signalled Lanes (pcuHr): 18.26 Cycle Time (s): 90 PRC Over All Lanes (%): 7.1 Total Delay Over All Lanes(pcuHr): 19.04																	

Network Layout Diagram



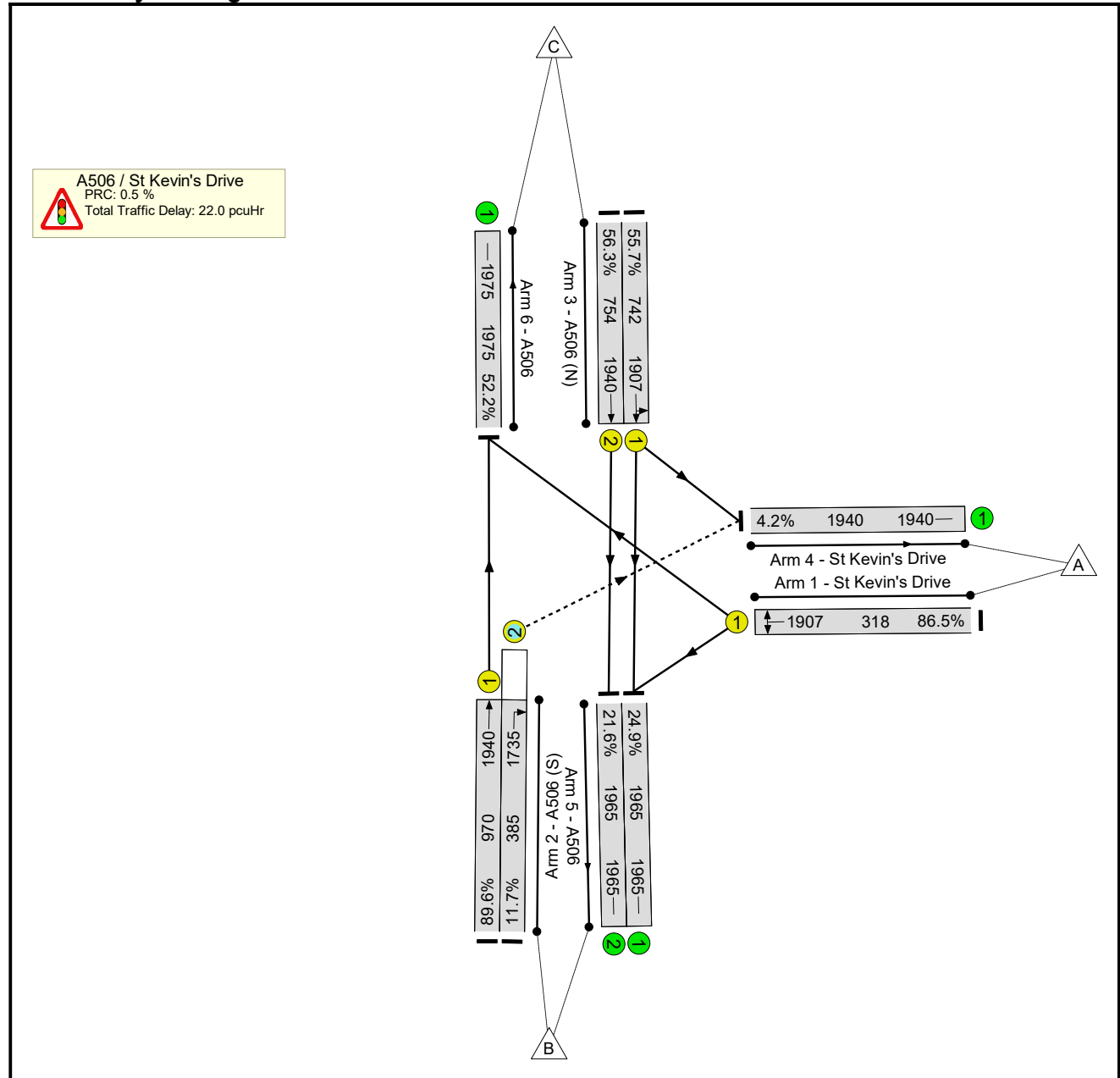
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	112.9%	100	10	4	97.7	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	112.9%	100	10	4	97.7	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	109	1889	168	64.9%	-	-	-	2.1	69.3	3.5
2/1	A506 (S) Ahead	U	A		1	51	-	1265	1940	1121	112.9%	-	-	-	88.9	253.0	111.4
2/2	A506 (S) Right	O	A	D	1	51	4	114	1735	432	26.4%	100	10	4	0.8	24.3	1.4
3/1	A506 (N) Left Ahead	U	B		1	41	-	418	1877	876	47.7%	-	-	-	2.4	20.4	7.5
3/2	A506 (N) Ahead	U	B		1	41	-	437	1940	905	48.3%	-	-	-	2.5	20.4	7.9
4/1	St Kevin's Drive	U	-		-	-	-	200	1940	1940	10.3%	-	-	-	0.1	1.0	0.1
5/1	A506	U	-		-	-	-	388	1965	1965	19.7%	-	-	-	0.1	1.1	0.1
5/2	A506	U	-		-	-	-	437	1965	1965	22.2%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	1318	1975	1975	59.4%	-	-	-	0.7	2.2	0.7
C1 PRC for Signalised Lanes (%): -25.4 Total Delay for Signalised Lanes (pcuHr): 96.61 Cycle Time (s): 90 PRC Over All Lanes (%): -25.4 Total Delay Over All Lanes(pcuHr): 97.67																	

Basic Results Summary

Scenario 13: '2028 AM Base + Com + Dev (Future Provision)' (FG19: '2028 AM Base + Com + Dev (Future Provision)', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



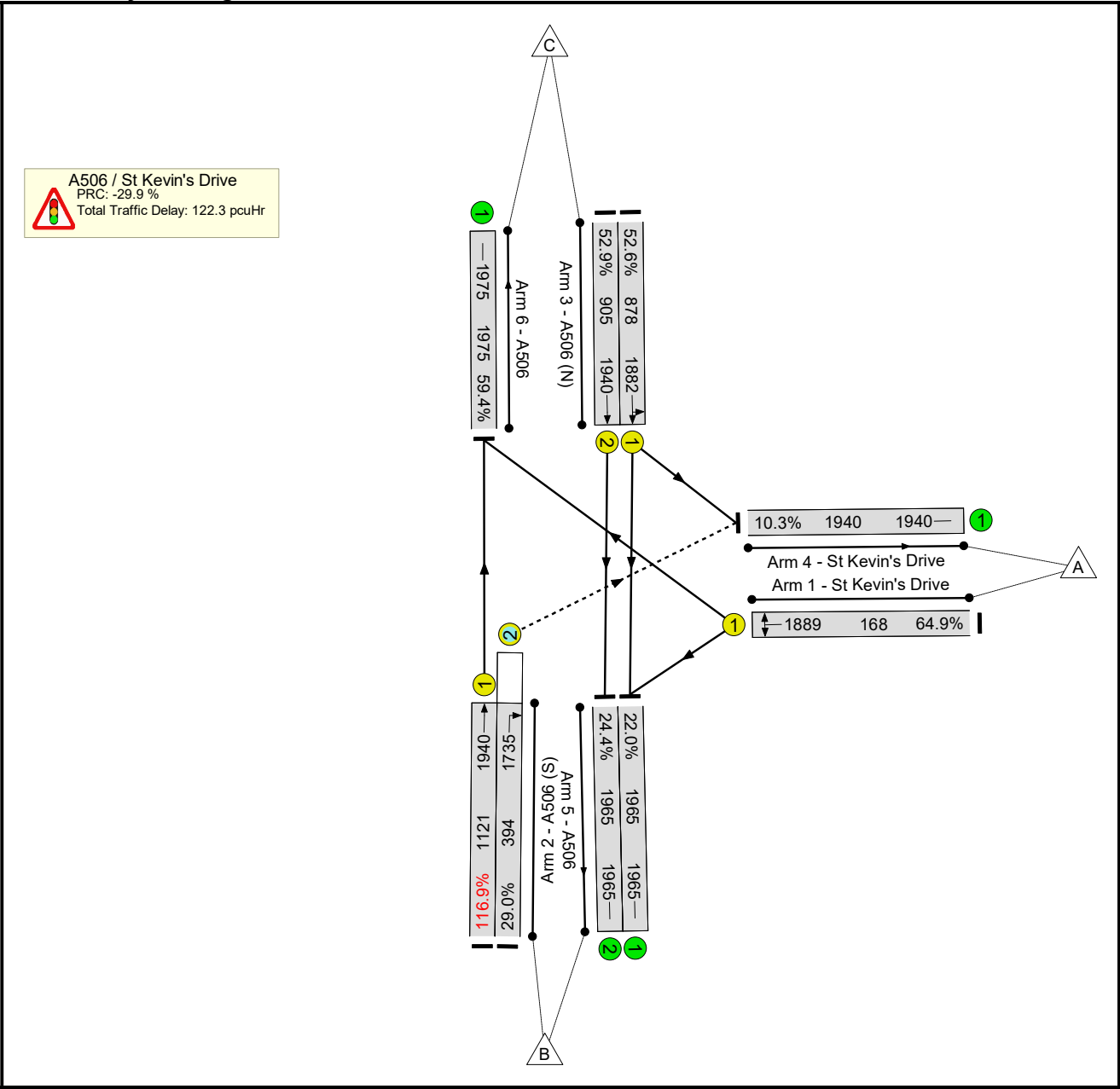
Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Avg. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	89.6%	40	4	2	22.0	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	89.6%	40	4	2	22.0	-	-
1/1	St Kevin's Drive Left Right	U	C		1	14	-	275	1907	318	86.5%	-	-	-	5.6	73.6	9.5
2/1	A506 (S) Ahead	U	A		1	44	-	869	1940	970	89.6%	-	-	-	8.9	36.9	23.5
2/2	A506 (S) Right	O	A	D	1	44	4	45	1735	385	11.7%	40	4	2	0.3	27.2	0.6
3/1	A506 (N) Left Ahead	U	B		1	34	-	413	1907	742	55.7%	-	-	-	3.1	26.9	8.7
3/2	A506 (N) Ahead	U	B		1	34	-	425	1940	754	56.3%	-	-	-	3.2	27.0	8.9
4/1	St Kevin's Drive	U	-		-	-	-	82	1940	1940	4.2%	-	-	-	0.0	1.0	0.0
5/1	A506	U	-		-	-	-	489	1965	1965	24.9%	-	-	-	0.2	1.2	0.2
5/2	A506	U	-		-	-	-	425	1965	1965	21.6%	-	-	-	0.1	1.2	0.1
6/1	A506	U	-		-	-	-	1031	1975	1975	52.2%	-	-	-	0.5	1.9	0.5
C1 PRC for Signalled Lanes (%): 0.5 Total Delay for Signalled Lanes (pcuHr): 21.14 Cycle Time (s): 90 PRC Over All Lanes (%): 0.5 Total Delay Over All Lanes(pcuHr): 22.01																	

Basic Results Summary

Scenario 14: '2028 PM Base + Com + Dev (Future Provision)' (FG20: '2028 PM Base + Com + Dev (Future Provision)', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network	-	-	-		-	-	-	-	-	-	116.9%	100	10	4	122.3	-	-
A506 / St Kevin's Drive	-	-	-		-	-	-	-	-	-	116.9%	100	10	4	122.3	-	-
1/1	St Kevin's Drive Left Right	U	C		1	7	-	109	1889	168	64.9%	-	-	-	2.1	69.3	3.5
2/1	A506 (S) Ahead	U	A		1	51	-	1310	1940	1121	116.9%	-	-	-	112.7	309.8	135.4
2/2	A506 (S) Right	O	A	D	1	51	4	114	1735	394	29.0%	100	10	4	0.9	28.0	1.5
3/1	A506 (N) Left Ahead	U	B		1	41	-	462	1882	878	52.6%	-	-	-	2.7	21.3	8.6
3/2	A506 (N) Ahead	U	B		1	41	-	479	1940	905	52.9%	-	-	-	2.8	21.2	8.9
4/1	St Kevin's Drive	U	-		-	-	-	200	1940	1940	10.3%	-	-	-	0.1	1.0	0.1
5/1	A506	U	-		-	-	-	432	1965	1965	22.0%	-	-	-	0.1	1.2	0.1
5/2	A506	U	-		-	-	-	479	1965	1965	24.4%	-	-	-	0.2	1.2	0.2
6/1	A506	U	-		-	-	-	1363	1975	1975	59.4%	-	-	-	0.7	2.2	0.7
C1 PRC for Signalled Lanes (%): -29.9 Total Delay for Signalled Lanes (pcuHr): 121.26 Cycle Time (s): 90 PRC Over All Lanes (%): -29.9 Total Delay Over All Lanes(pcuHr): 122.35																	