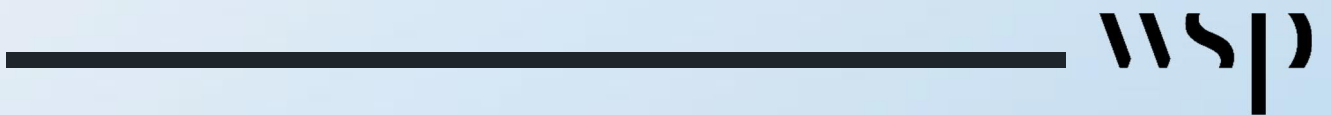


Appendix G

Botley Road, Marshall Drive
Modelling Results

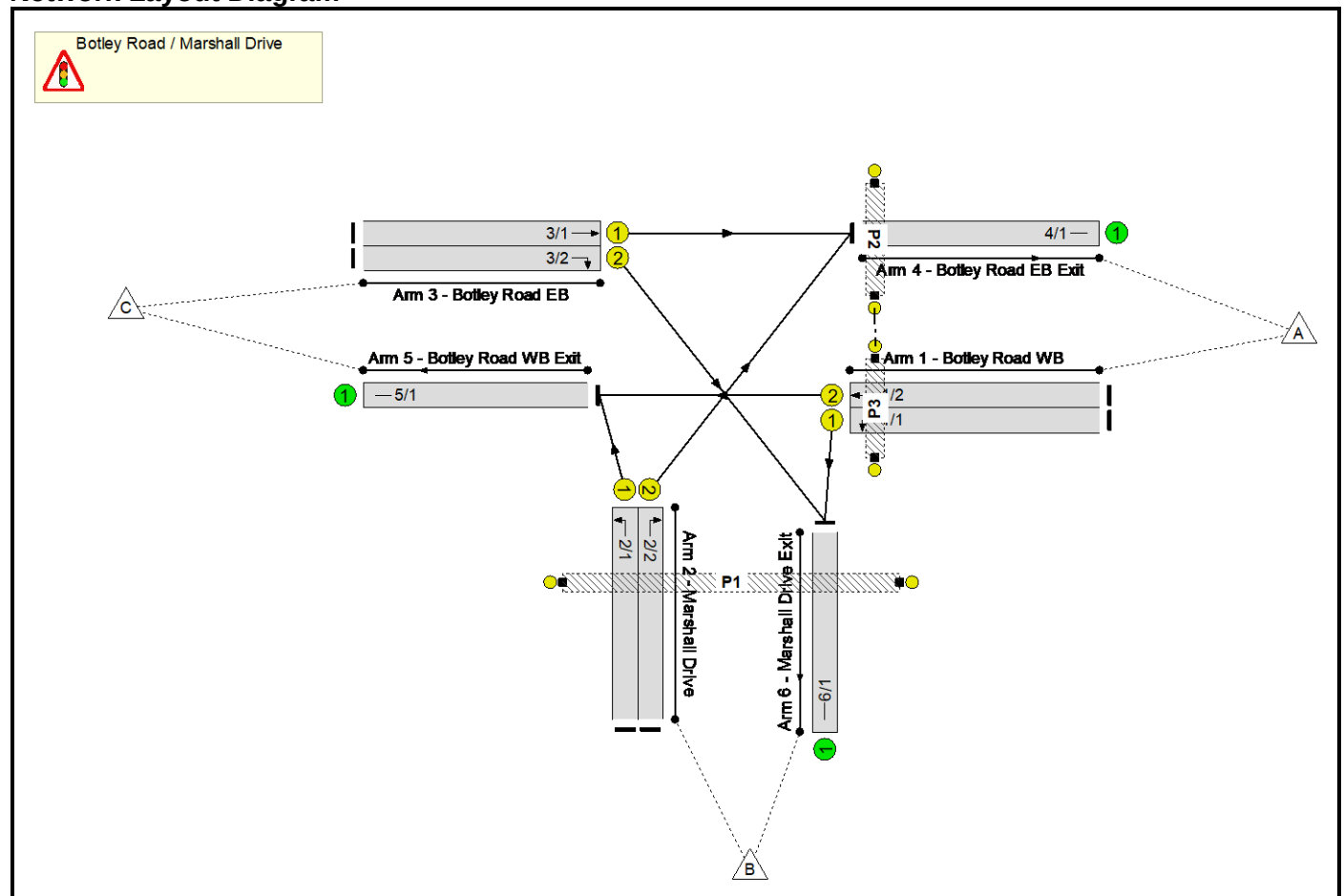


Full Input Data And Results
Full Input Data And Results

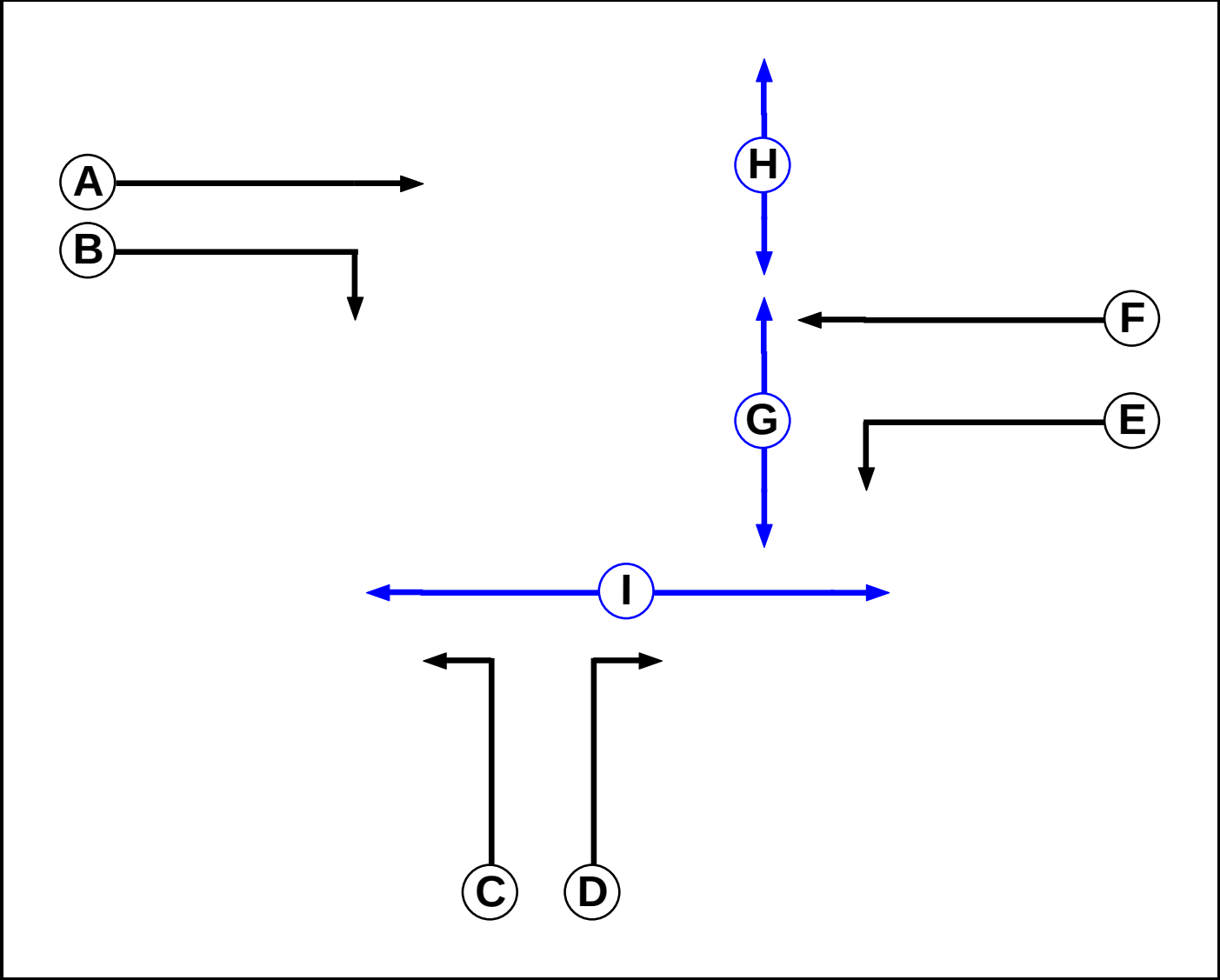
User and Project Details

Project:	Ageas Bowl Masterplan
Title:	Marshall Drive / Botley Road
Location:	
Additional detail:	
File name:	Marshall Drive_Botley Road.lsg3x
Author:	
Company:	
Address:	

Network Layout Diagram



Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Traffic		7	7
D	Traffic		7	7
E	Traffic		7	7
F	Traffic		7	7
G	Pedestrian		7	7
H	Pedestrian		7	7
I	Pedestrian		7	7

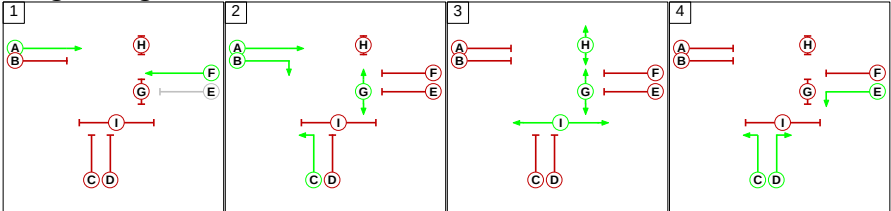
Phase Intergreens Matrix

	Starting Phase									
Terminating Phase		A	B	C	D	E	F	G	H	I
	A		-	-	5	-	-	-	8	-
	B	-		-	5	6	6	-	-	8
	C	-	-		-	-	6	-	-	5
	D	6	6	-		-	6	-	8	5
	E	-	6	-	-		-	6	-	6
	F	-	5	7	7	-		5	-	8
	G	-	-	-	-	6	6		-	-
	H	6	-	10	6	-	-	-		-
	I	-	12	10	10	12	12	-	-	

Phases in Stage

Stage No.	Phases in Stage
1	A F
2	A B C G
3	G H I
4	C D E

Stage Diagram



Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Prohibited Stage Change

		To Stage			
From Stage		1	2	3	4
	1		7	8	7
	2	6		8	6
	3	12	12		12
	4	6	6	8	

Full Input Data And Results

Give-Way Lane Input Data

Junction: Botley Road / Marshall Drive
There are no Opposed Lanes in this Junction

Full Input Data And Results

Lane Input Data

Junction: Botley Road / Marshall Drive												
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (Botley Road WB)	U	E	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 6 Left	5.00
1/2 (Botley Road WB)	U	F	2	3	60.0	Geom	-	3.25	0.00	N	Arm 5 Ahead	Inf
2/1 (Marshall Drive)	U	C	2	3	60.0	Geom	-	3.60	0.00	Y	Arm 5 Left	5.00
2/2 (Marshall Drive)	U	D	2	3	60.0	Geom	-	3.60	0.00	N	Arm 4 Right	10.00
3/1 (Botley Road EB)	U	A	2	3	60.0	Geom	-	3.50	0.00	Y	Arm 4 Ahead	Inf
3/2 (Botley Road EB)	U	B	2	3	60.0	Geom	-	3.50	0.00	N	Arm 6 Right	10.00
4/1 (Botley Road EB Exit)	U		2	3	60.0	Inf	-	-	-	-	-	-
5/1 (Botley Road WB Exit)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1 (Marshall Drive Exit)	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2021 Baseline AM'	08:00	09:00	01:00	
2: '2021 Baseline PM'	17:00	18:00	01:00	
3: '2021 Baseline AM + Dev'	08:00	09:00	01:00	
4: '2021 Baseline PM + Dev'	17:00	18:00	01:00	
5: '2027 Baseline AM'	08:00	09:00	01:00	
6: '2027 Baseline PM'	17:00	18:00	01:00	
7: '2027 Baseline AM + Dev'	08:00	09:00	01:00	
8: '2027 Baseline PM + Dev'	17:00	18:00	01:00	

Scenario 1: '2021 Baseline AM' (FG1: '2021 Baseline AM', Plan 1: 'Network Control Plan 1')
Traffic Flows, Desired

Desired Flow :

Origin	Destination				
		A	B	C	Tot.
	A	0	128	712	840
	B	60	0	54	114
	C	696	83	0	779
	Tot.	756	211	766	1733

Traffic Lane Flows

Lane	Scenario 1: 2021 Baseline AM
Junction: Botley Road / Marshall Drive	
1/1	128
1/2	712
2/1	54
2/2	60
3/1	696
3/2	83
4/1	756
5/1	766
6/1	211

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 2: '2021 Baseline PM' (FG2: '2021 Baseline PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	126	723	849
	B	100	0	83	183
	C	470	77	0	547
	Tot.	570	203	806	1579

Traffic Lane Flows

Lane	Scenario 2: 2021 Baseline PM
Junction: Botley Road / Marshall Drive	
1/1	126
1/2	723
2/1	83
2/2	100
3/1	470
3/2	77
4/1	570
5/1	806
6/1	203

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 3: '2021 Baseline AM + Dev' (FG3: '2021 Baseline AM + Dev', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
		A	B	C	Tot.
Origin	A	0	156	712	868
	B	107	0	105	212
	C	696	113	0	809
	Tot.	803	269	817	1889

Traffic Lane Flows

Lane	Scenario 3: 2021 Baseline AM + Dev
Junction: Botley Road / Marshall Drive	
1/1	156
1/2	712
2/1	105
2/2	107
3/1	696
3/2	113
4/1	803
5/1	817
6/1	269

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 4: '2021 Baseline PM + Dev' (FG4: '2021 Baseline PM + Dev', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
	A	B	C	Tot.	
Origin	A	0	166	723	889
	B	127	0	112	239
	C	470	121	0	591
	Tot.	597	287	835	1719

Traffic Lane Flows

Lane	Scenario 4: 2021 Baseline PM + Dev
Junction: Botley Road / Marshall Drive	
1/1	166
1/2	723
2/1	112
2/2	127
3/1	470
3/2	121
4/1	597
5/1	835
6/1	287

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 5: '2027 Baseline AM' (FG5: '2027 Baseline AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
Origin		A	B	C	Tot.
	A	0	138	798	936
	B	65	0	58	123
	C	767	90	0	857
	Tot.	832	228	856	1916

Traffic Lane Flows

Lane	Scenario 5: 2027 Baseline AM
Junction: Botley Road / Marshall Drive	
1/1	138
1/2	798
2/1	58
2/2	65
3/1	767
3/2	90
4/1	832
5/1	856
6/1	228

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 6: '2027 Baseline PM' (FG6: '2027 Baseline PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
		A	B	C	Tot.
	A	0	137	793	930
	B	108	0	90	198
	C	525	84	0	609
	Tot.	633	221	883	1737

Traffic Lane Flows

Lane	Scenario 6: 2027 Baseline PM
Junction: Botley Road / Marshall Drive	
1/1	137
1/2	793
2/1	90
2/2	108
3/1	525
3/2	84
4/1	633
5/1	883
6/1	221

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 7: '2027 Baseline AM + Dev' (FG7: '2027 Baseline AM + Dev', Plan 1: 'Network Control Plan 1')
Traffic Flows, Desired
Desired Flow :

		Destination			
Origin		A	B	C	Tot.
	A	0	166	825	991
	B	112	0	110	222
	C	780	120	0	900
	Tot.	892	286	935	2113

Traffic Lane Flows

Lane	Scenario 7: 2027 Baseline AM + Dev
Junction: Botley Road / Marshall Drive	
1/1	166
1/2	825
2/1	110
2/2	112
3/1	780
3/2	120
4/1	892
5/1	935
6/1	286

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 8: '2027 Baseline PM + Dev' (FG8: '2027 Baseline PM + Dev', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination				
		A	B	C	Tot.
	A	0	177	804	981
	B	135	0	119	254
	C	541	128	0	669
	Tot.	676	305	923	1904

Traffic Lane Flows

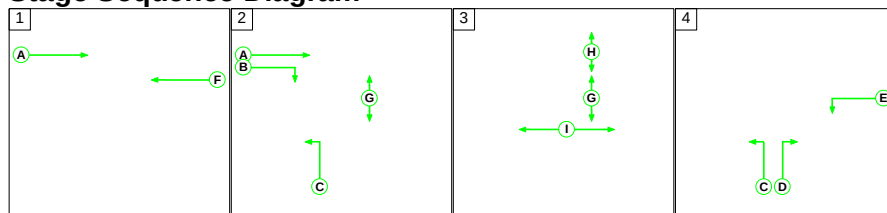
Lane	Scenario 8: 2027 Baseline PM + Dev
Junction: Botley Road / Marshall Drive	
1/1	177
1/2	804
2/1	119
2/2	135
3/1	541
3/2	128
4/1	676
5/1	923
6/1	305

Lane Saturation Flows

Junction: Botley Road / Marshall Drive								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Botley Road WB)	3.00	0.00	Y	Arm 6 Left	5.00	100.0 %	1473	1473
1/2 (Botley Road WB)	3.25	0.00	N	Arm 5 Ahead	Inf	100.0 %	2080	2080
2/1 (Marshall Drive)	3.60	0.00	Y	Arm 5 Left	5.00	100.0 %	1519	1519
2/2 (Marshall Drive)	3.60	0.00	N	Arm 4 Right	10.00	100.0 %	1839	1839
3/1 (Botley Road EB)	3.50	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1965	1965
3/2 (Botley Road EB)	3.50	0.00	N	Arm 6 Right	10.00	100.0 %	1830	1830
4/1 (Botley Road EB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (Botley Road WB Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (Marshall Drive Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 1: '2021 Baseline AM' (FG1: '2021 Baseline AM', Plan 1: 'Network Control Plan 1')

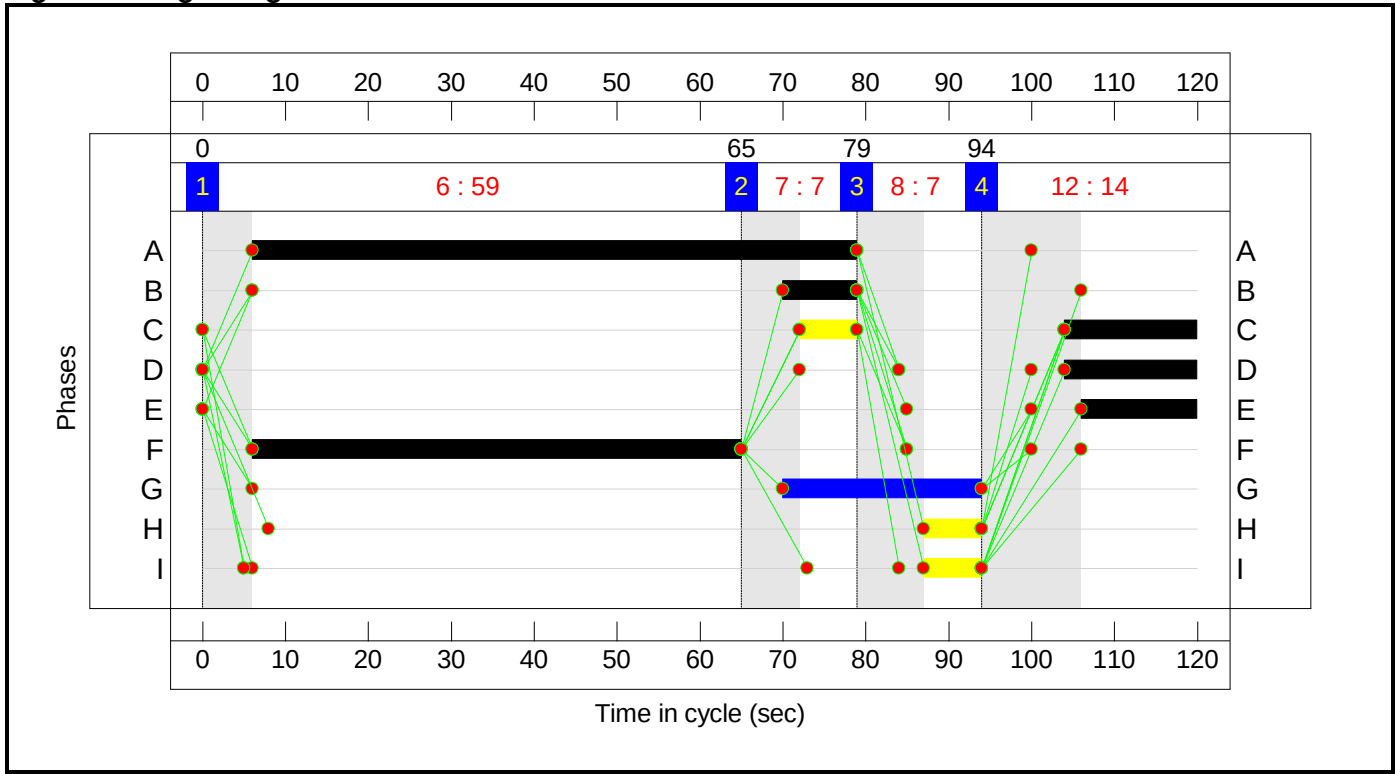
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	59	7	7	14
Change Point	0	65	79	94

Signal Timings Diagram

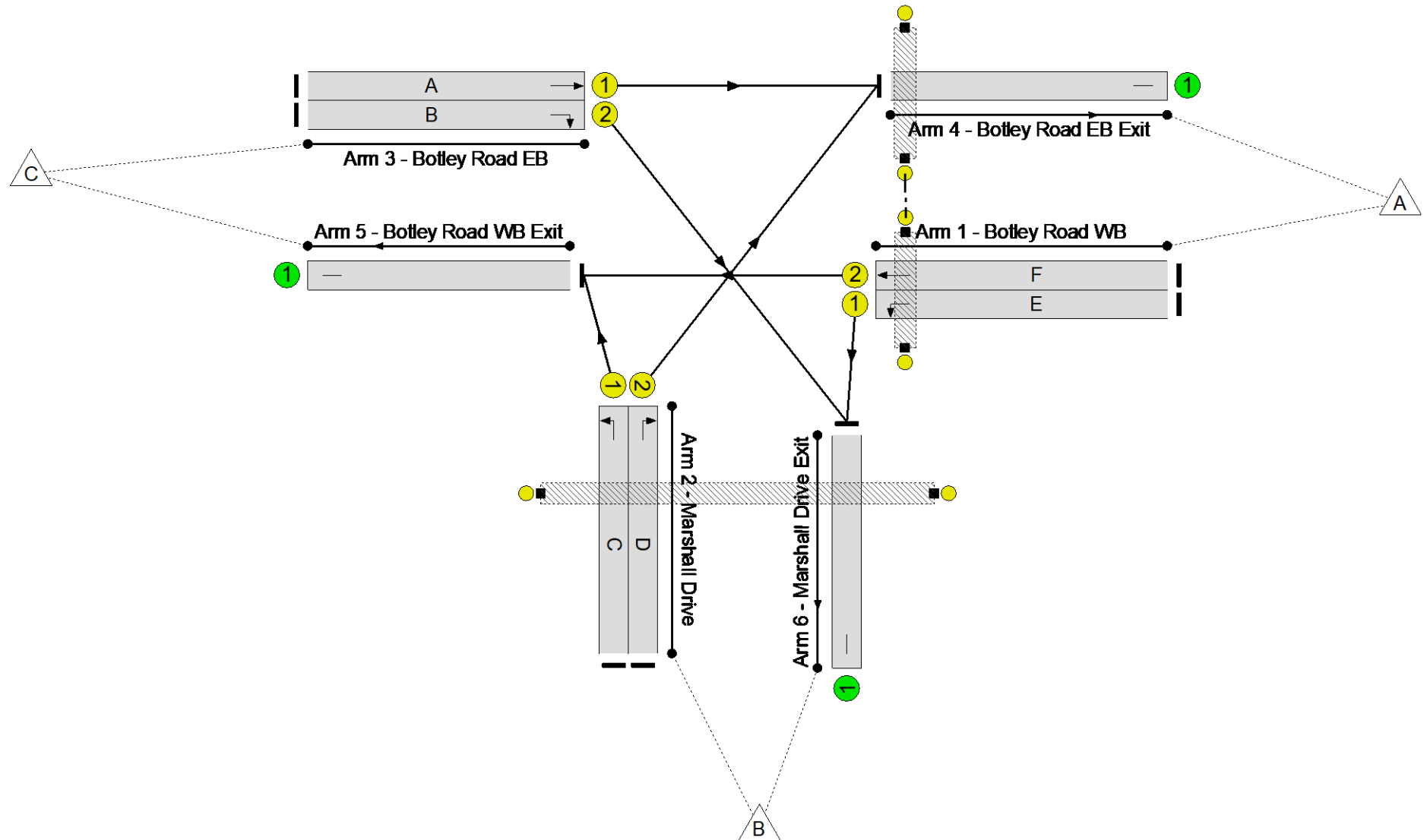


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results

Botley Road / Marshall Drive
 PRC: 29.5 %
 Total Traffic Delay: 15.0 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	69.5%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	69.5%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	14	-	128	1473	184	69.5%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	59	-	712	2080	1040	68.5%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	23	-	54	1519	316	17.1%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	16	-	60	1839	261	23.0%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	73	-	696	1965	1212	57.4%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	9	-	83	1830	152	54.4%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	756	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	766	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	211	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	24	-	0	-	0	0.0%

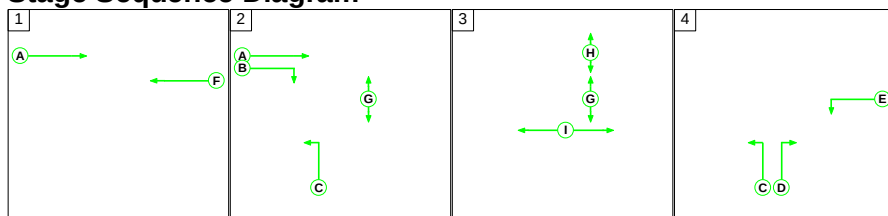
Full Input Data And Results

[illegible]

Full Input Data And Results

Scenario 2: '2021 Baseline PM' (FG2: '2021 Baseline PM', Plan 1: 'Network Control Plan 1')

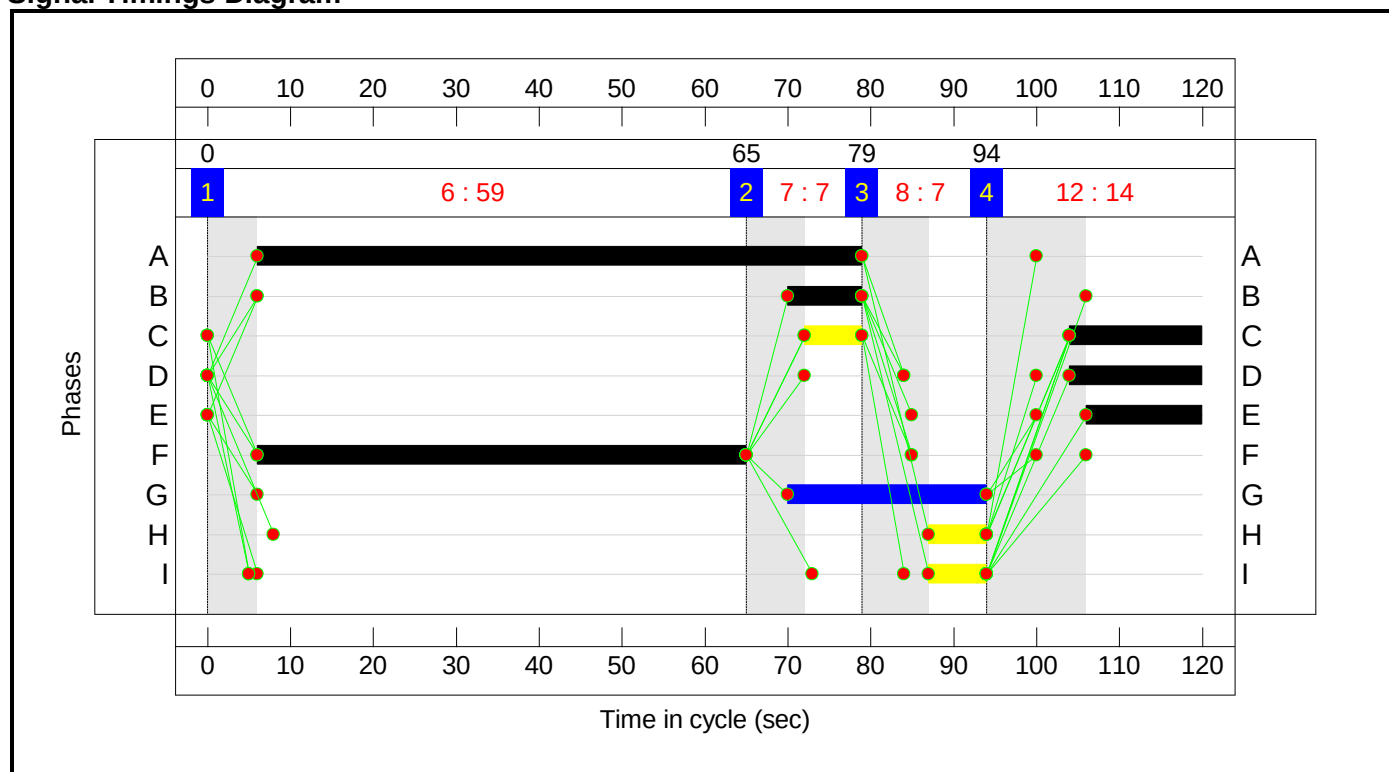
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	59	7	7	14
Change Point	0	65	79	94

Signal Timings Diagram

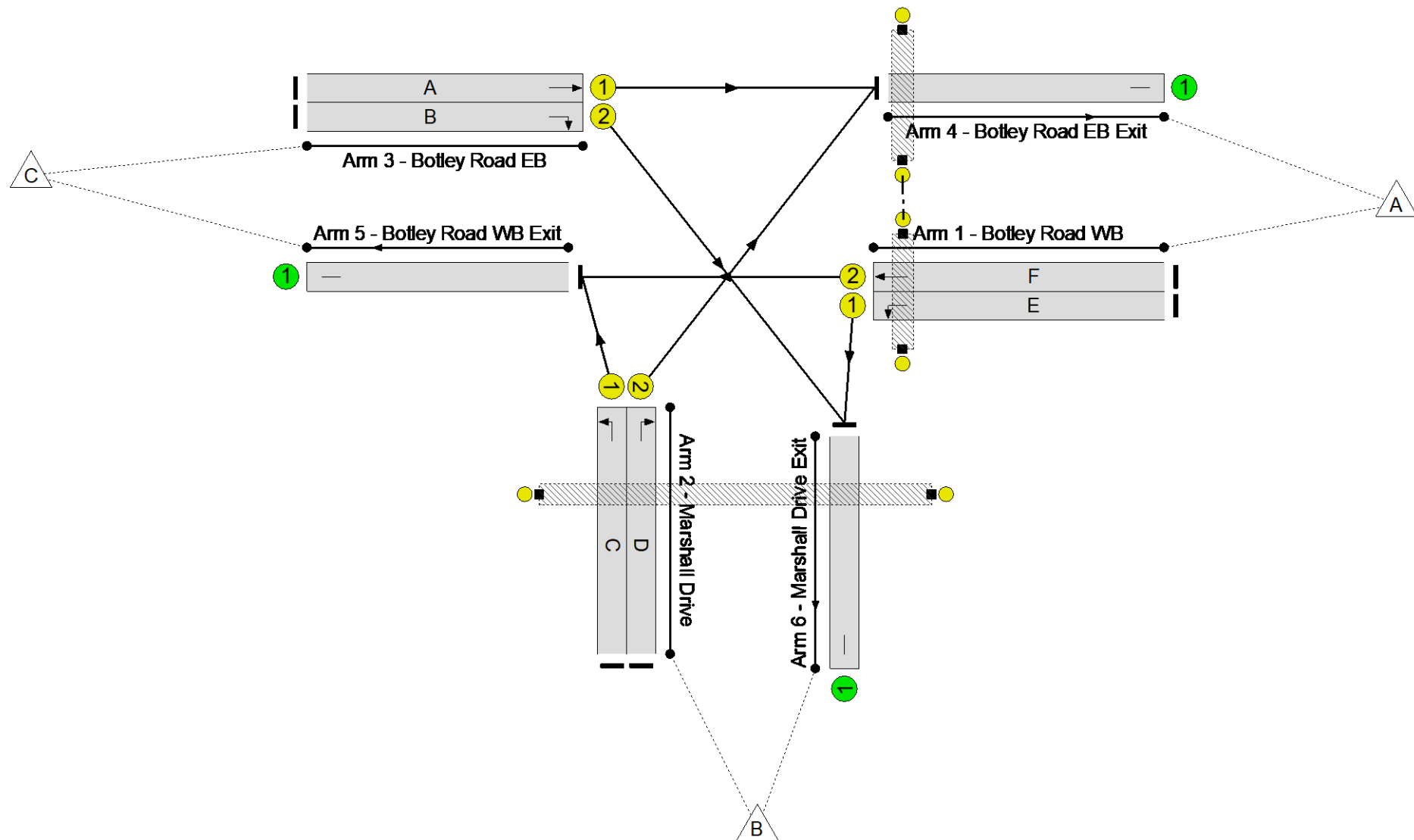


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results


Botley Road / Marshall Drive
 PRC: 29.5 %
 Total Traffic Delay: 14.4 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	69.5%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	69.5%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	14	-	126	1473	184	68.4%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	59	-	723	2080	1040	69.5%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	23	-	83	1519	316	26.2%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	16	-	100	1839	261	38.4%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	73	-	470	1965	1212	38.8%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	9	-	77	1830	152	50.5%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	570	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	806	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	203	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	24	-	0	-	0	0.0%

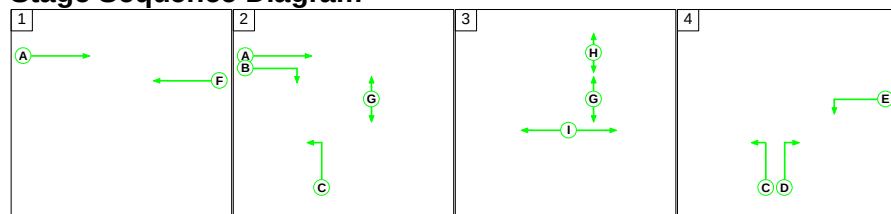
Full Input Data And Results

[illegible]

Full Input Data And Results

Scenario 3: '2021 Baseline AM + Dev' (FG3: '2021 Baseline AM + Dev', Plan 1: 'Network Control Plan 1')

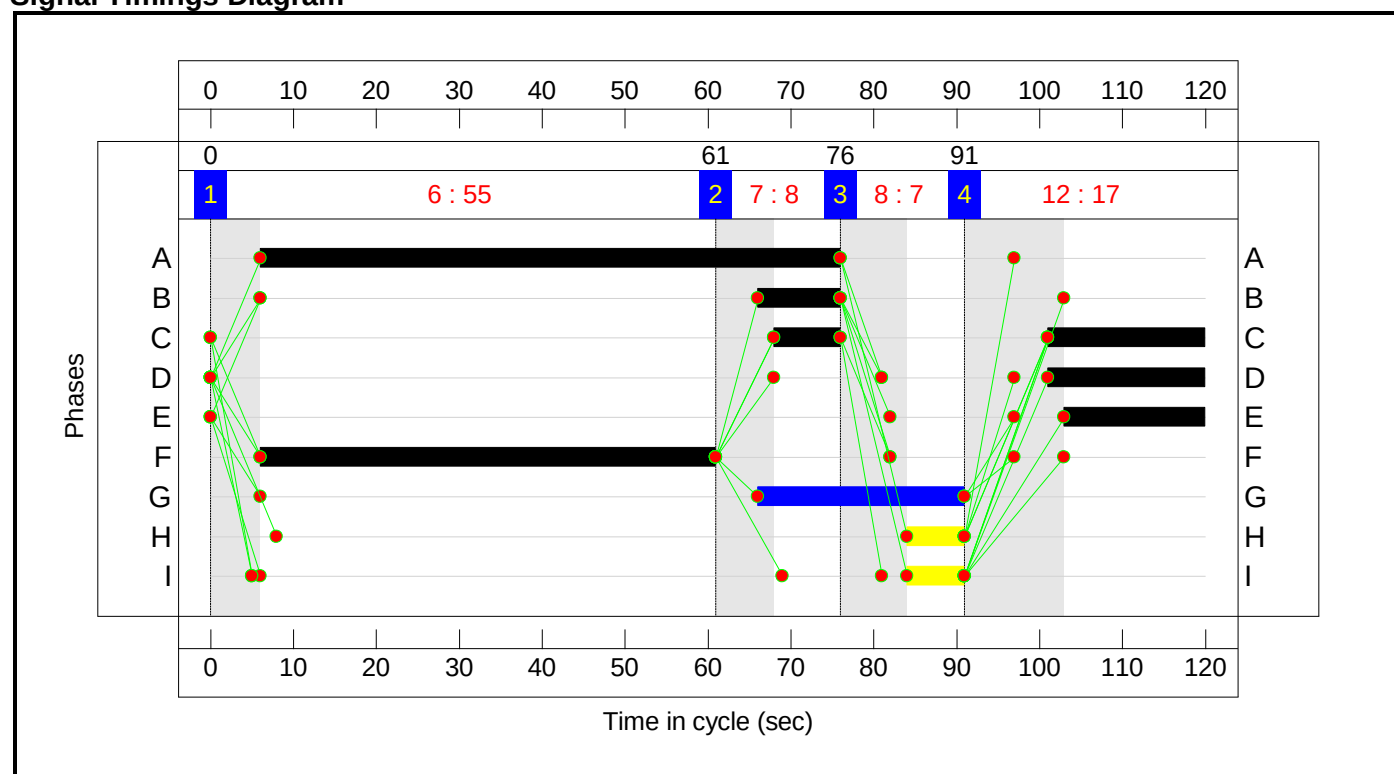
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	55	8	7	17
Change Point	0	61	76	91

Signal Timings Diagram

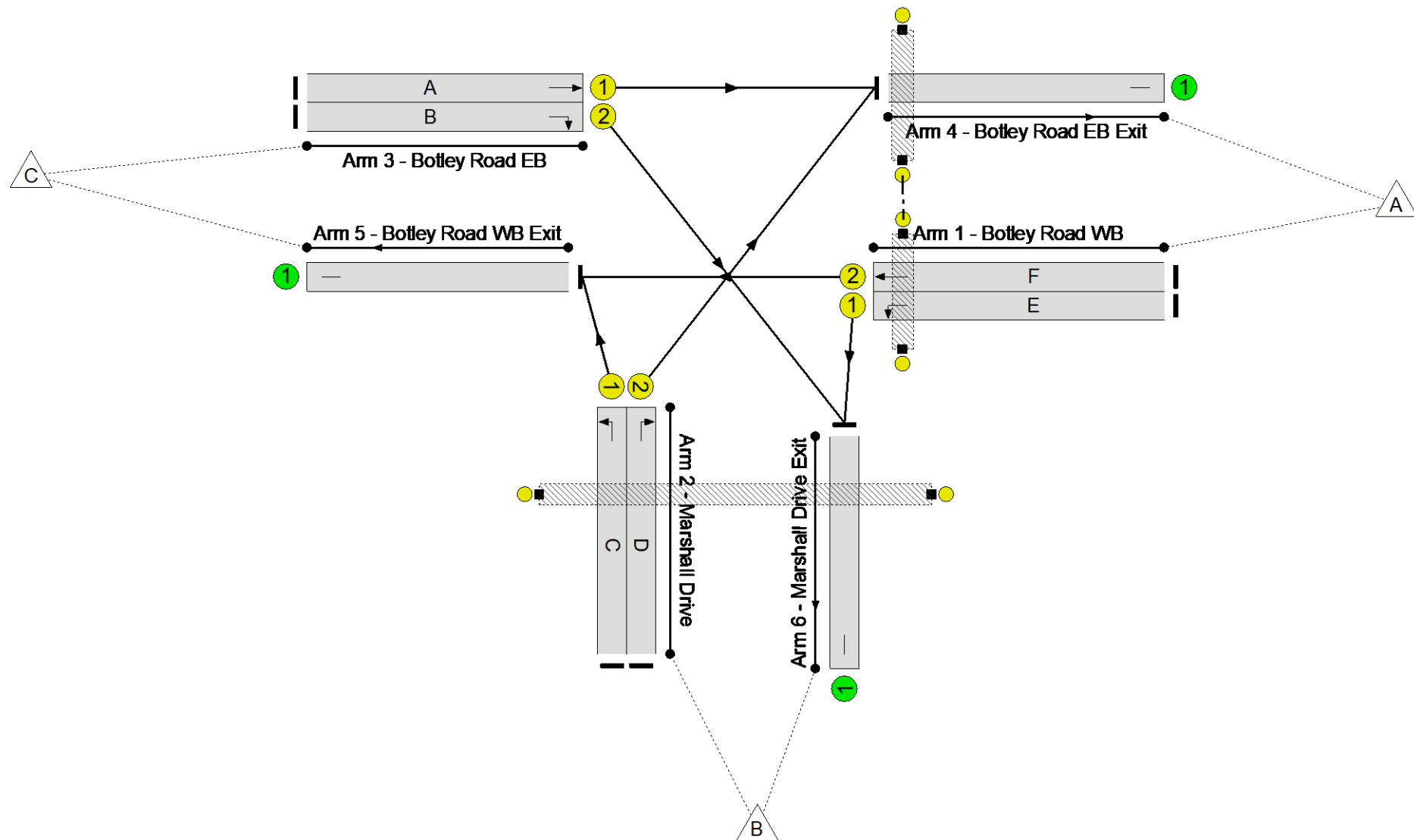


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results

Botley Road / Marshall Drive
 PRC: 22.7 %
 Total Traffic Delay: 18.6 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	73.4%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	73.4%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	17	-	156	1473	221	70.6%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	55	-	712	2080	971	73.4%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	27	-	105	1519	367	28.6%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	19	-	107	1839	307	34.9%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	70	-	696	1965	1163	59.9%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	10	-	113	1830	168	67.4%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	803	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	817	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	269	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	25	-	0	-	0	0.0%

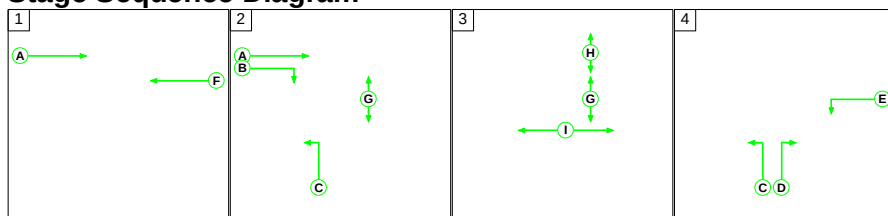
Full Input Data And Results

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Full Input Data And Results

Scenario 4: '2021 Baseline PM + Dev' (FG4: '2021 Baseline PM + Dev', Plan 1: 'Network Control Plan 1')

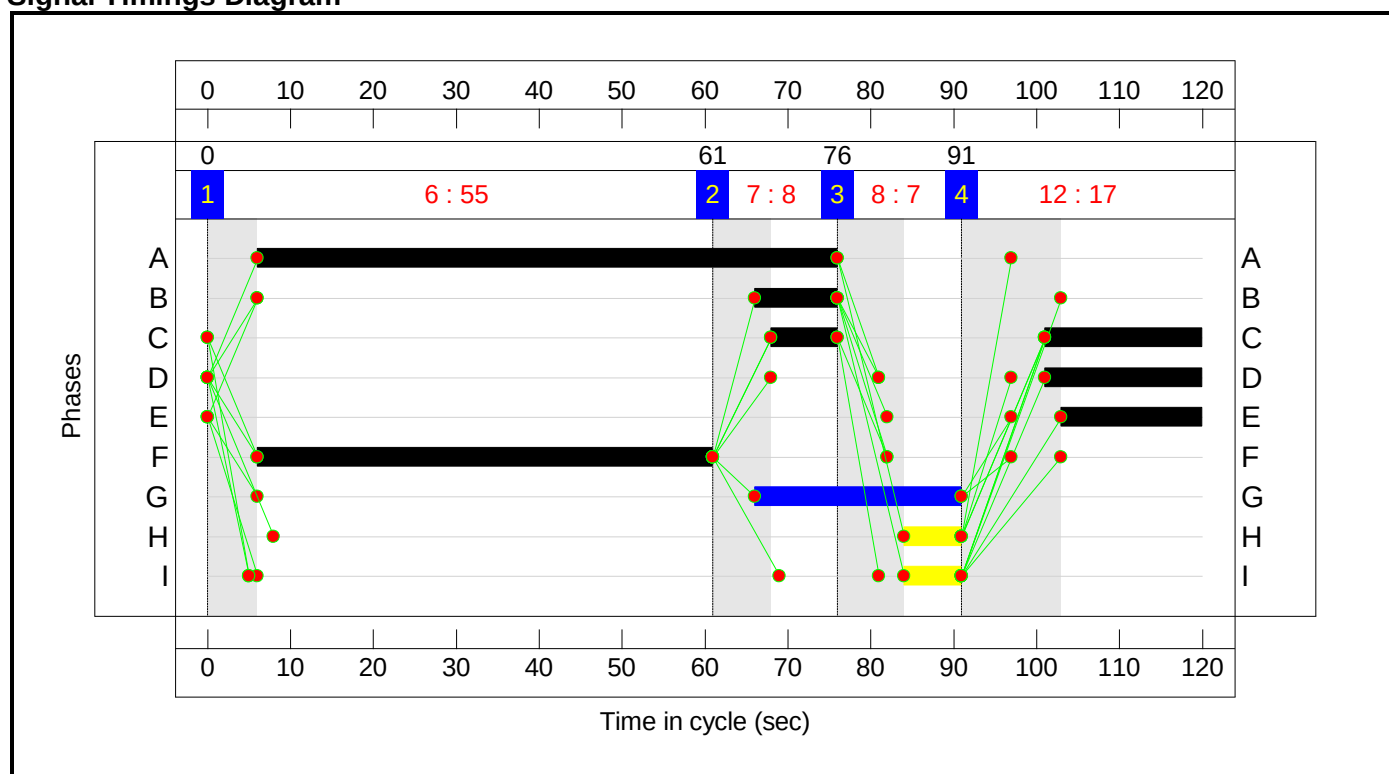
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	55	8	7	17
Change Point	0	61	76	91

Signal Timings Diagram

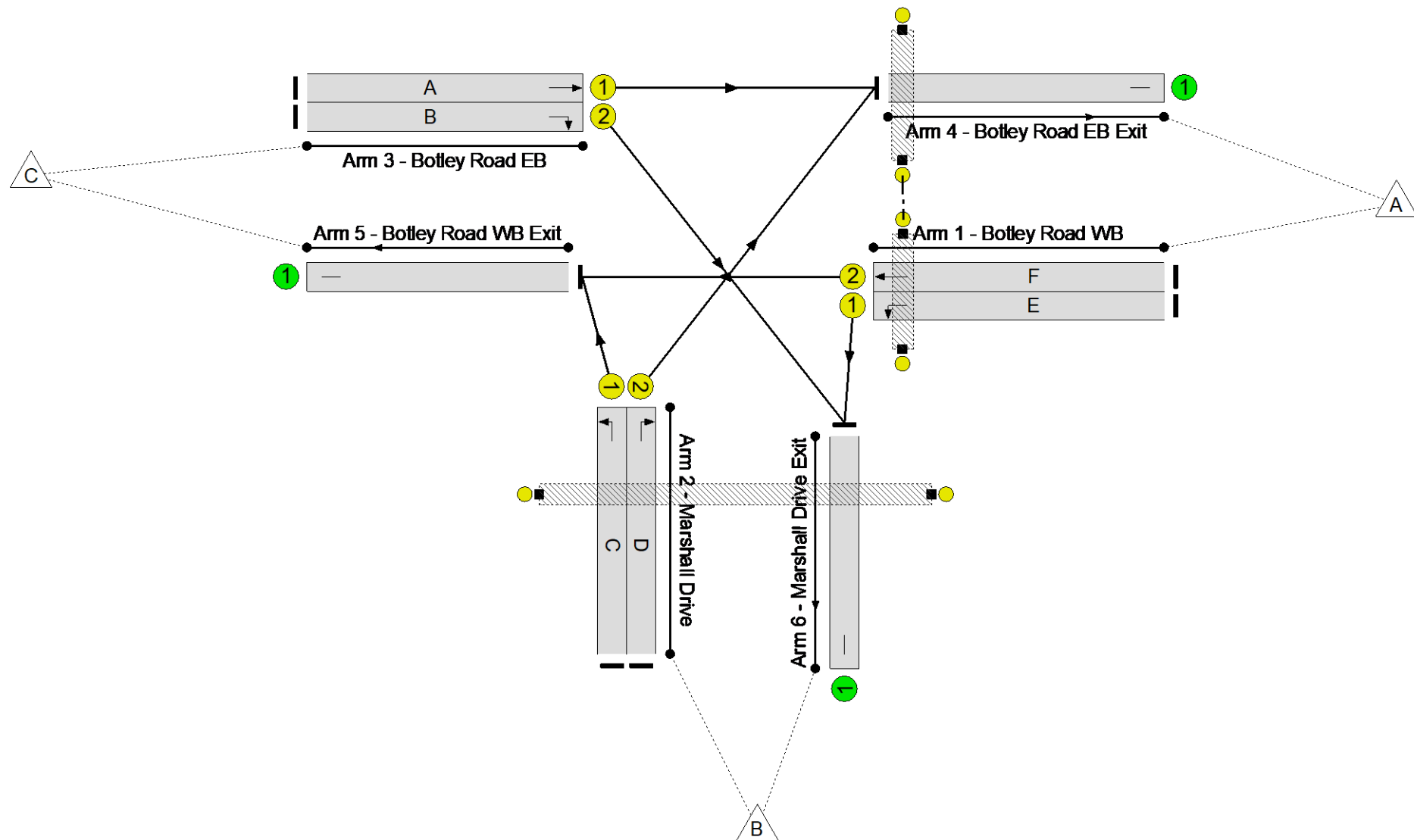


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results


Botley Road / Marshall Drive
 PRC: 19.8 %
 Total Traffic Delay: 18.3 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	75.1%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	75.1%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	17	-	166	1473	221	75.1%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	55	-	723	2080	971	74.5%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	27	-	112	1519	367	30.5%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	19	-	127	1839	307	41.4%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	70	-	470	1965	1163	40.4%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	10	-	121	1830	168	72.1%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	597	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	835	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	287	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	25	-	0	-	0	0.0%

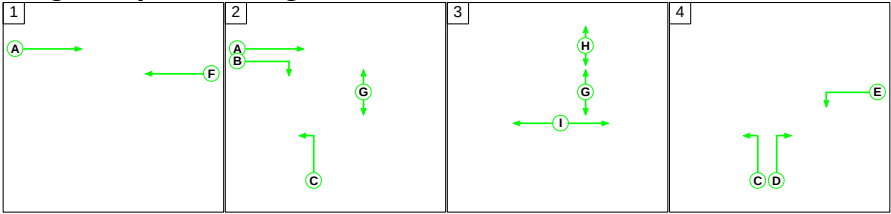
Full Input Data And Results

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Full Input Data And Results

Scenario 5: '2027 Baseline AM' (FG5: '2027 Baseline AM', Plan 1: 'Network Control Plan 1')

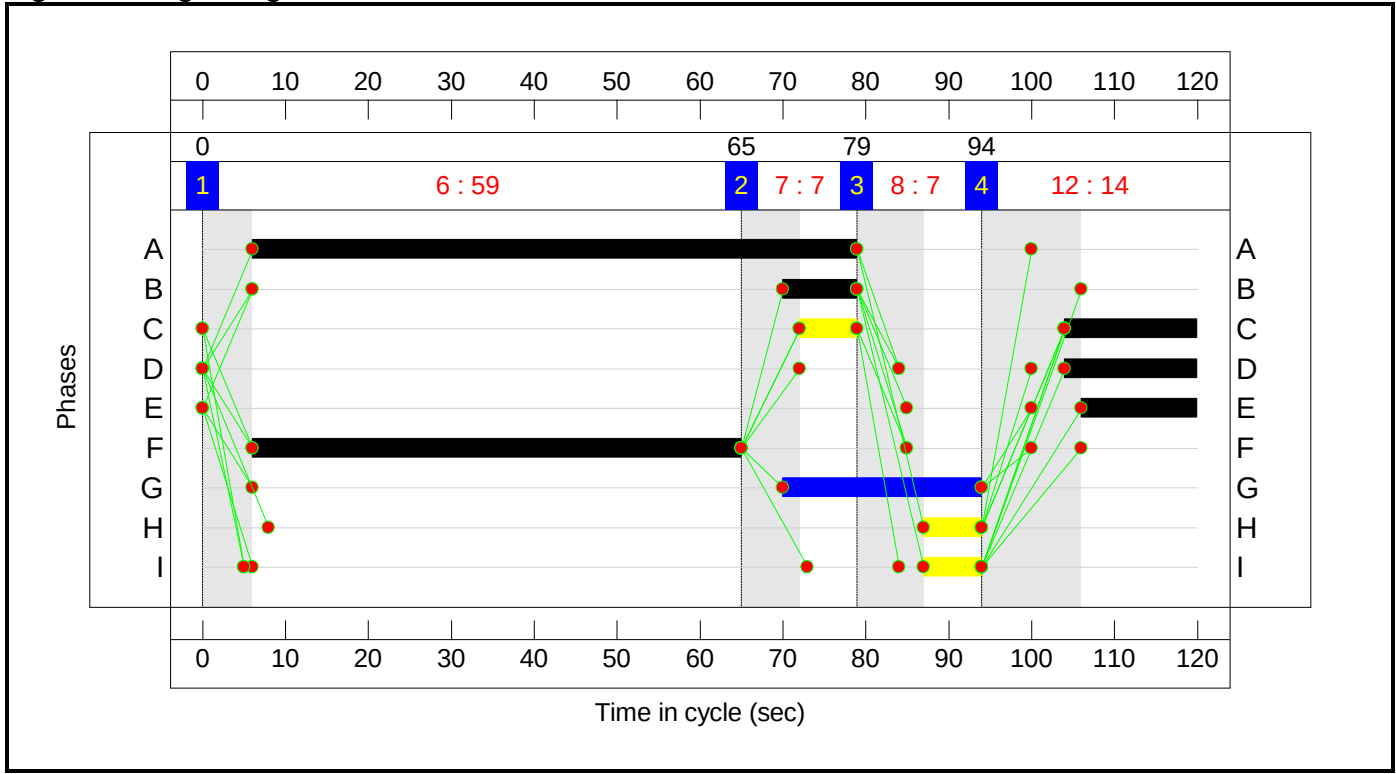
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	59	7	7	14
Change Point	0	65	79	94

Signal Timings Diagram

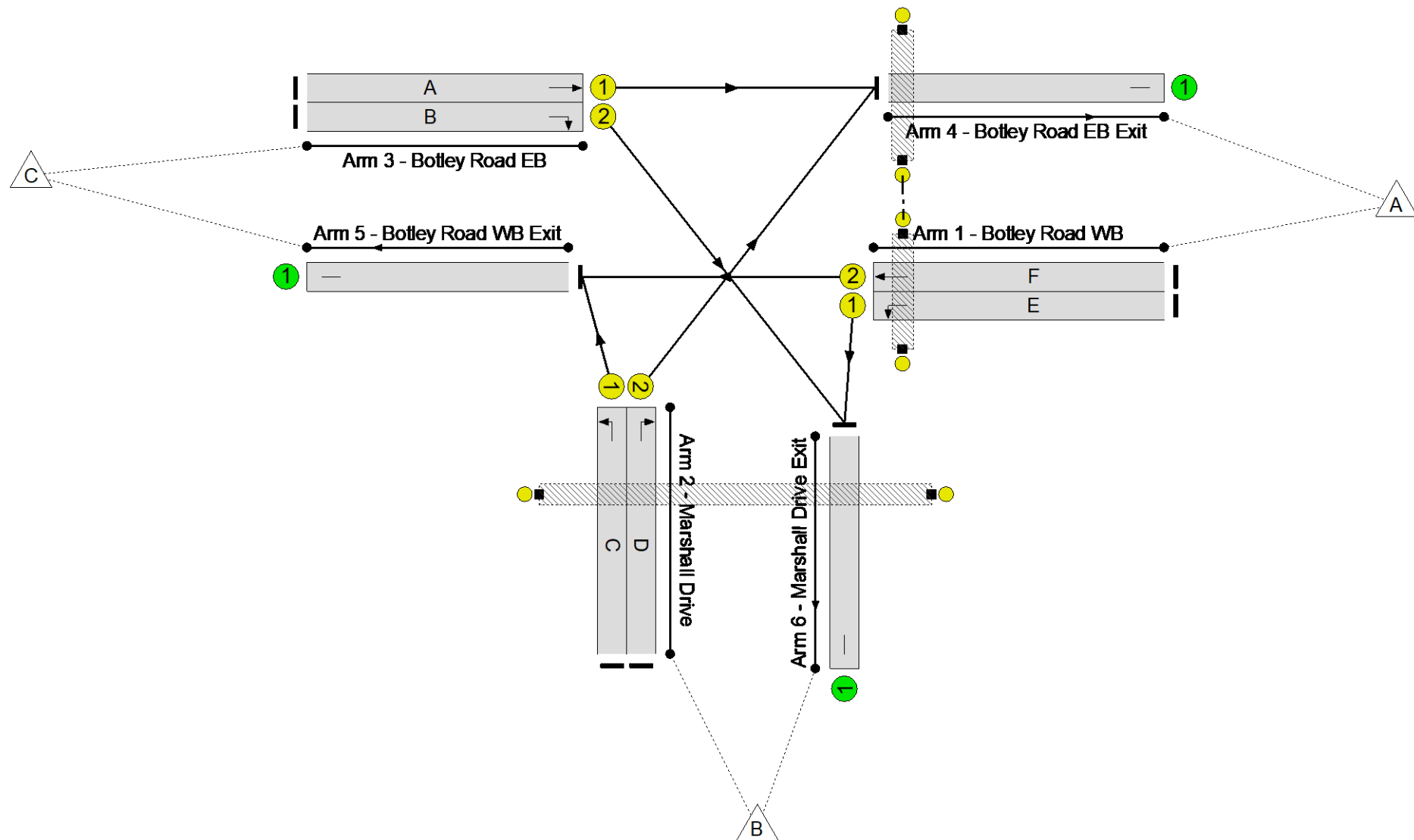


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results

Botley Road / Marshall Drive
 PRC: 17.3 %
 Total Traffic Delay: 17.8 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	76.7%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	76.7%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	14	-	138	1473	184	74.9%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	59	-	798	2080	1040	76.7%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	23	-	58	1519	316	18.3%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	16	-	65	1839	261	24.9%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	73	-	767	1965	1212	63.3%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	9	-	90	1830	152	59.0%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	832	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	856	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	228	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	24	-	0	-	0	0.0%

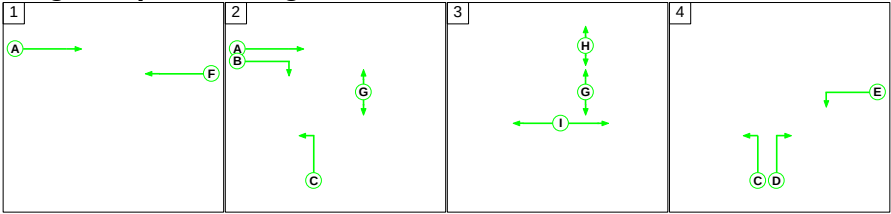
Full Input Data And Results

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Full Input Data And Results

Scenario 6: '2027 Baseline PM' (FG6: '2027 Baseline PM', Plan 1: 'Network Control Plan 1')

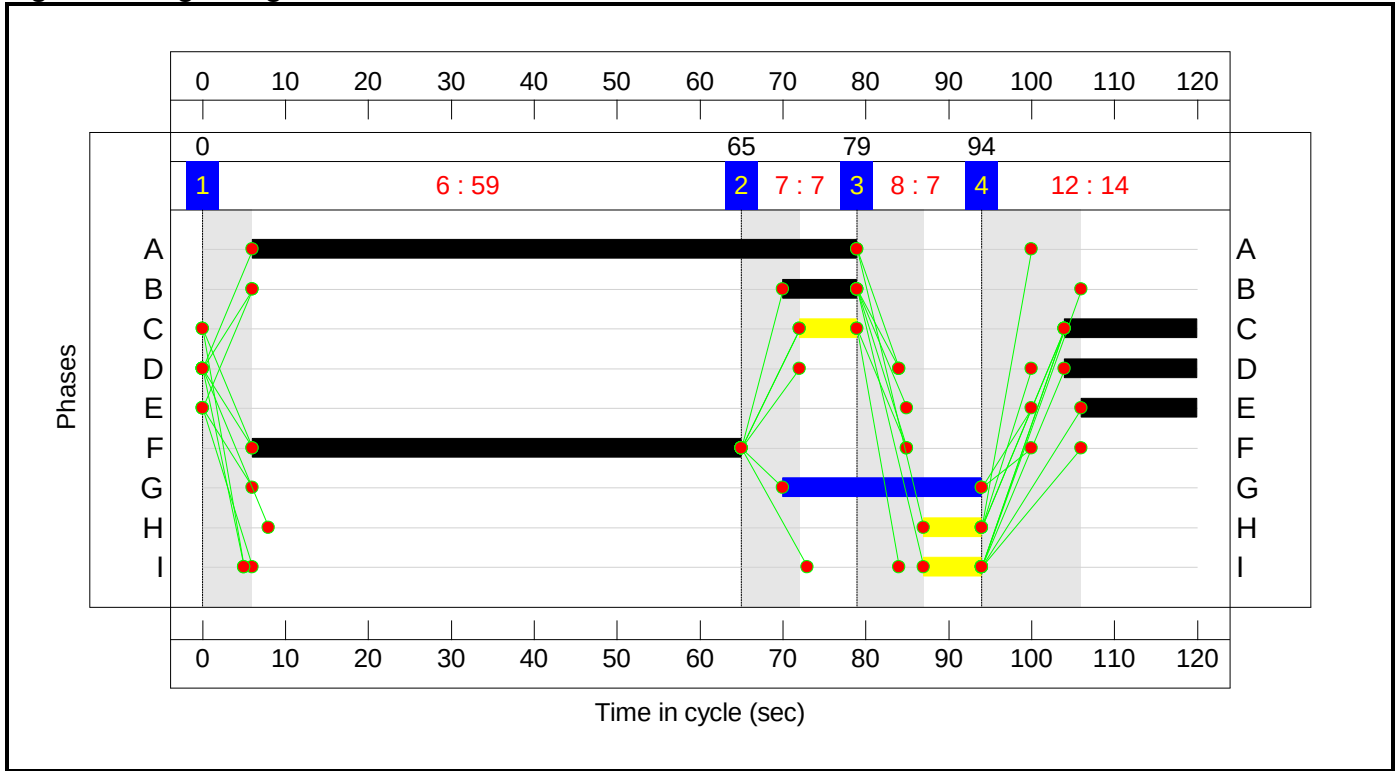
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	59	7	7	14
Change Point	0	65	79	94

Signal Timings Diagram

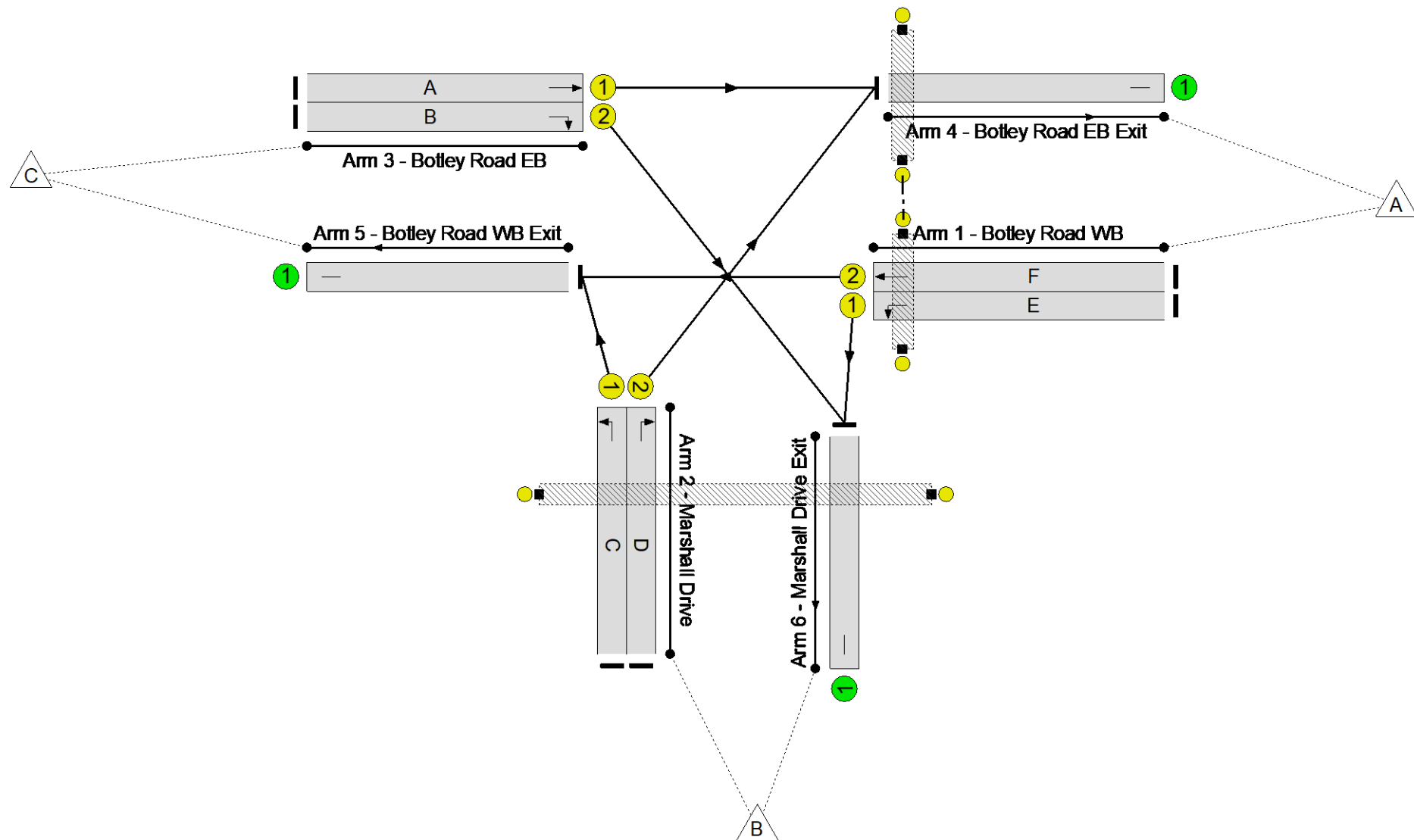


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results


Botley Road / Marshall Drive
 PRC: 18.0 %
 Total Traffic Delay: 16.8 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	76.3%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	76.3%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	14	-	137	1473	184	74.4%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	59	-	793	2080	1040	76.3%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	23	-	90	1519	316	28.4%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	16	-	108	1839	261	41.5%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	73	-	525	1965	1212	43.3%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	9	-	84	1830	152	55.1%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	633	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	883	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	221	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	24	-	0	-	0	0.0%

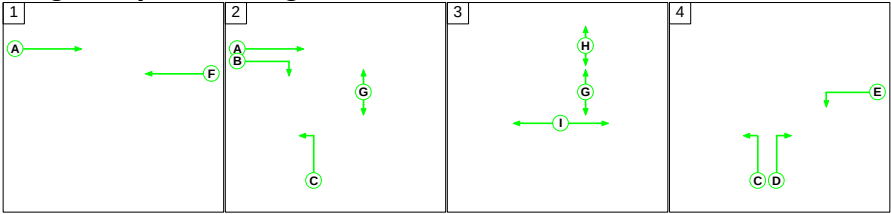
Full Input Data And Results

[illegible]

Full Input Data And Results

Scenario 7: '2027 Baseline AM + Dev' (FG7: '2027 Baseline AM + Dev', Plan 1: 'Network Control Plan 1')

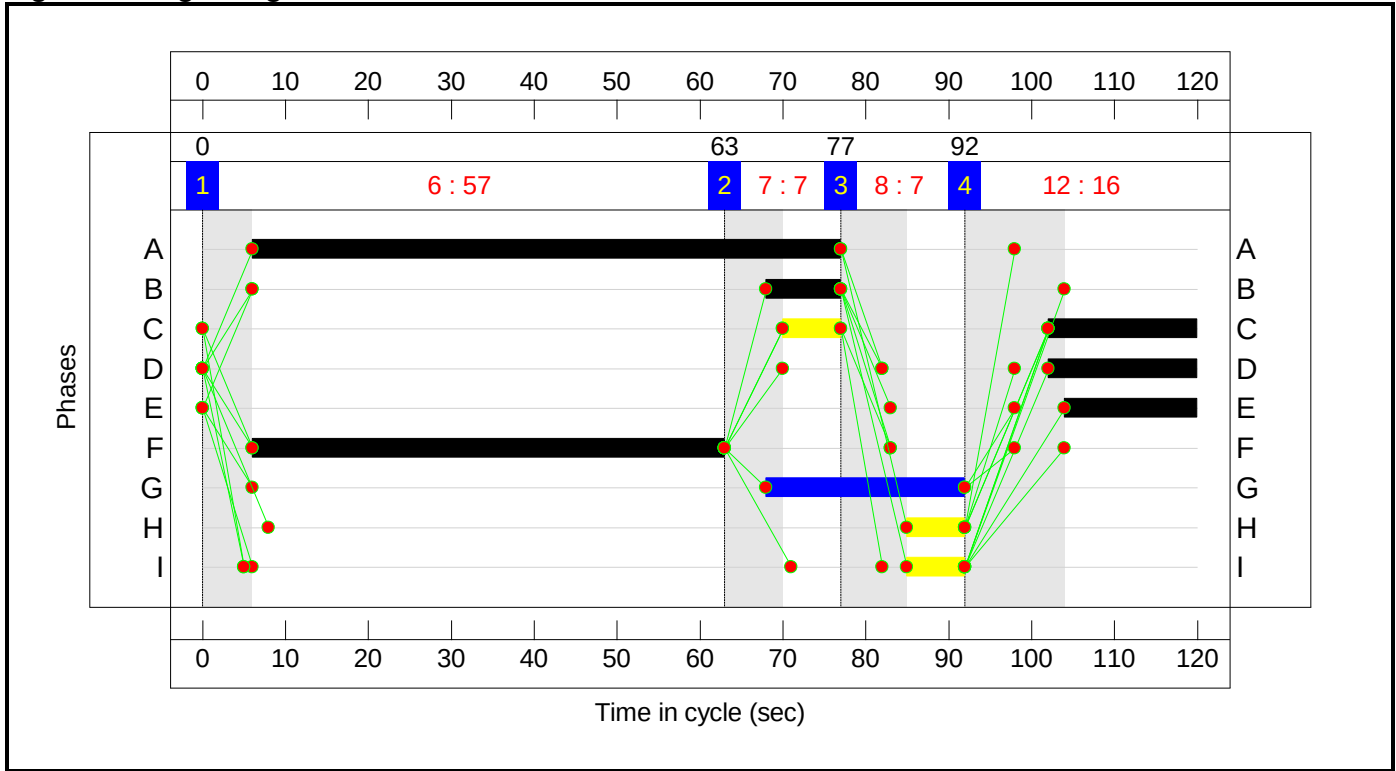
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	57	7	7	16
Change Point	0	63	77	92

Signal Timings Diagram

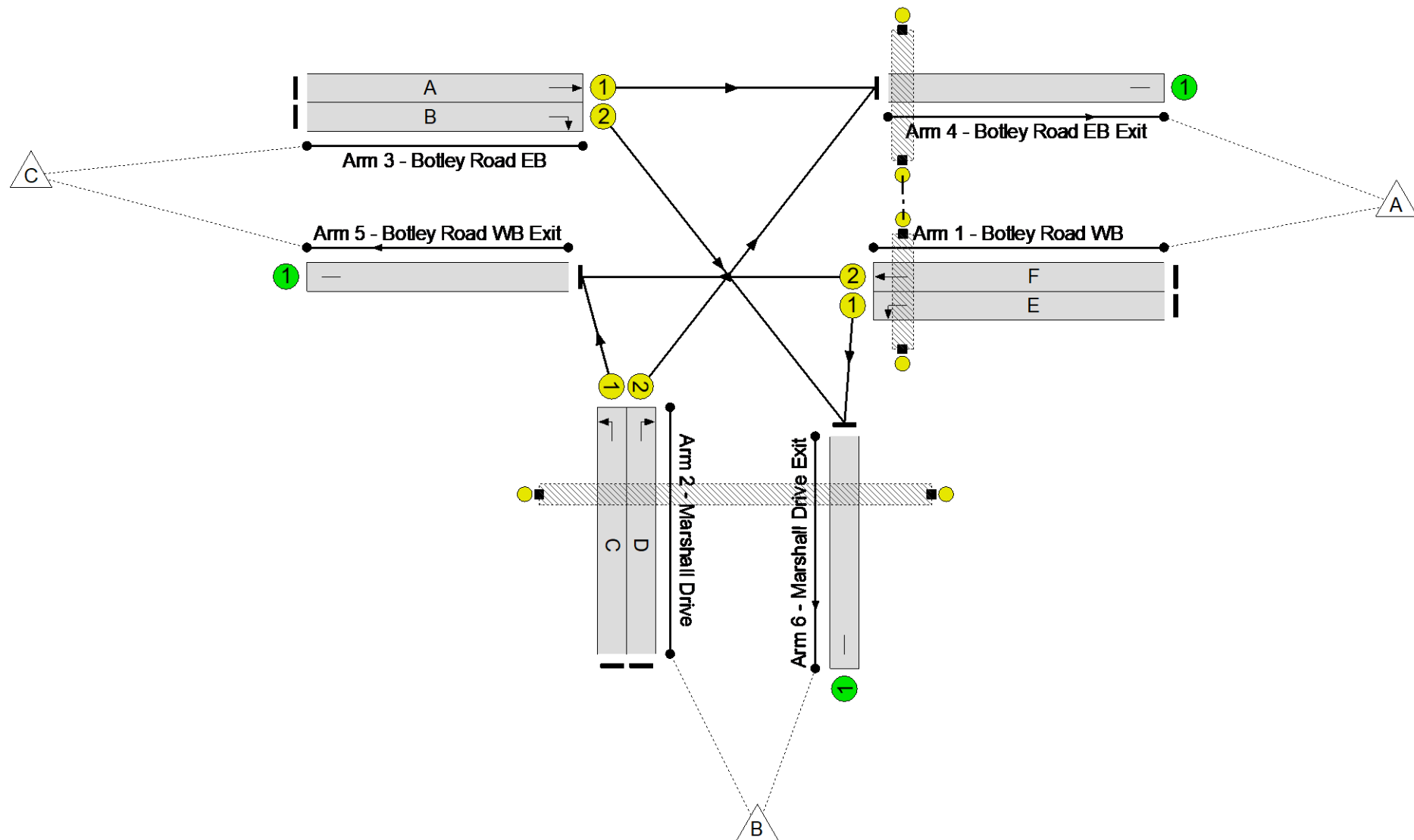


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results

Botley Road / Marshall Drive
 PRC: 9.7 %
 Total Traffic Delay: 23.0 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	82.1%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	82.1%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	16	-	166	1473	209	79.5%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	57	-	825	2080	1005	82.1%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	25	-	110	1519	342	32.2%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	18	-	112	1839	291	38.5%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	71	-	780	1965	1179	66.2%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	9	-	120	1830	152	78.7%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	892	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	935	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	286	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	24	-	0	-	0	0.0%

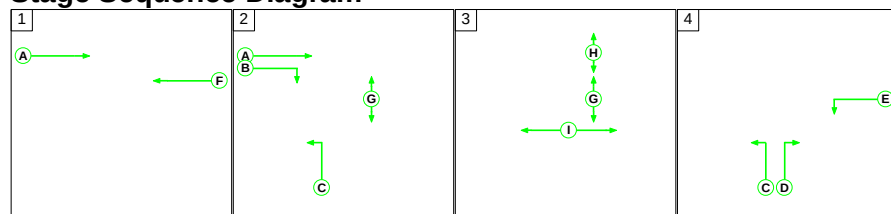
Full Input Data And Results

[illegible]

Full Input Data And Results

Scenario 8: '2027 Baseline PM + Dev' (FG8: '2027 Baseline PM + Dev', Plan 1: 'Network Control Plan 1')

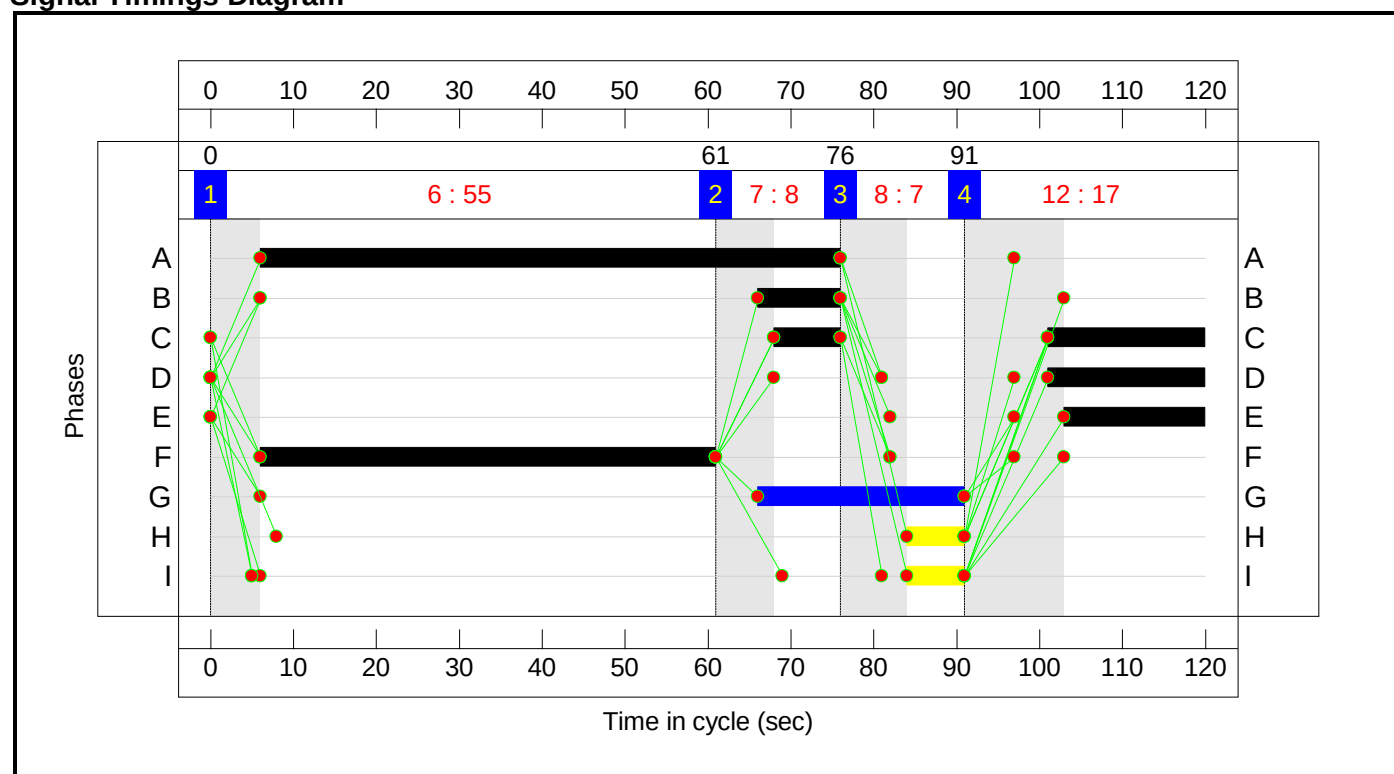
Stage Sequence Diagram



Stage Timings

Stage	1	2	3	4
Duration	55	8	7	17
Change Point	0	61	76	91

Signal Timings Diagram

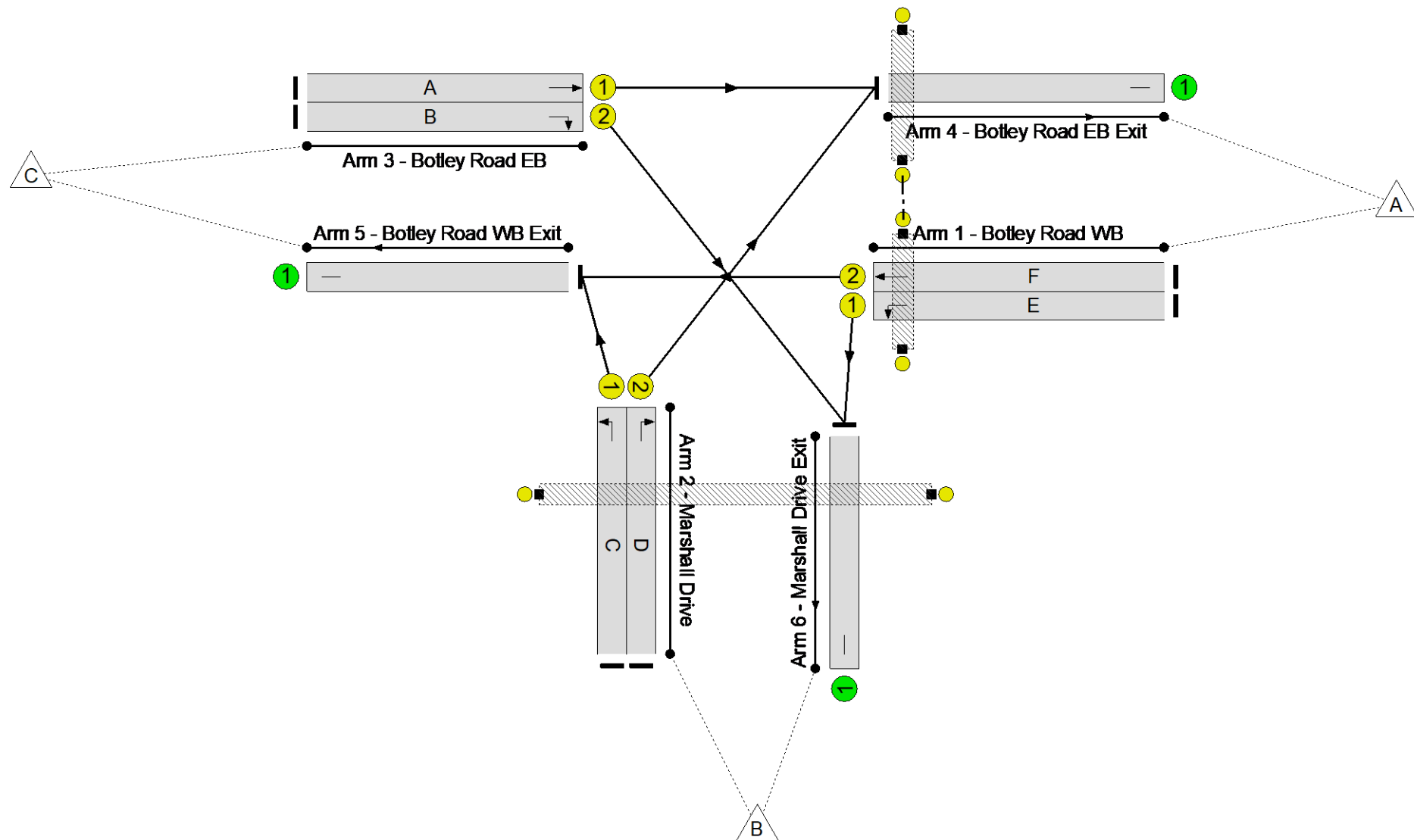


Full Input Data And Results

Network Layout Diagram

Full Input Data And Results

Botley Road / Marshall Drive
 PRC: 8.7 %
 Total Traffic Delay: 21.8 pcuHr
 Ave. Route Delay Per Ped: 0.0 s/Ped



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Marshall Drive / Botley Road	-	-	N/A	-	-		-	-	-	-	-	-	82.8%
Botley Road / Marshall Drive	-	-	N/A	-	-		-	-	-	-	-	-	82.8%
1/1	Botley Road WB Left	U	N/A	N/A	E		1	17	-	177	1473	221	80.1%
1/2	Botley Road WB Ahead	U	N/A	N/A	F		1	55	-	804	2080	971	82.8%
2/1	Marshall Drive Left	U	N/A	N/A	C		2	27	-	119	1519	367	32.4%
2/2	Marshall Drive Right	U	N/A	N/A	D		1	19	-	135	1839	307	44.0%
3/1	Botley Road EB Ahead	U	N/A	N/A	A		1	70	-	541	1965	1163	46.5%
3/2	Botley Road EB Right	U	N/A	N/A	B		1	10	-	128	1830	168	76.3%
4/1	Botley Road EB Exit	U	N/A	N/A	-		-	-	-	676	Inf	Inf	0.0%
5/1	Botley Road WB Exit	U	N/A	N/A	-		-	-	-	923	Inf	Inf	0.0%
6/1	Marshall Drive Exit	U	N/A	N/A	-		-	-	-	305	Inf	Inf	0.0%
Ped Link: P1	Marshall Drive	-	N/A	-	I		1	7	-	0	-	0	0.0%
Ped Link: P2	Botley Road	-	N/A	-	H		1	7	-	0	-	0	0.0%
Ped Link: P3	Botley Road	-	N/A	-	G		1	25	-	0	-	0	0.0%

Full Input Data And Results

[illegible]