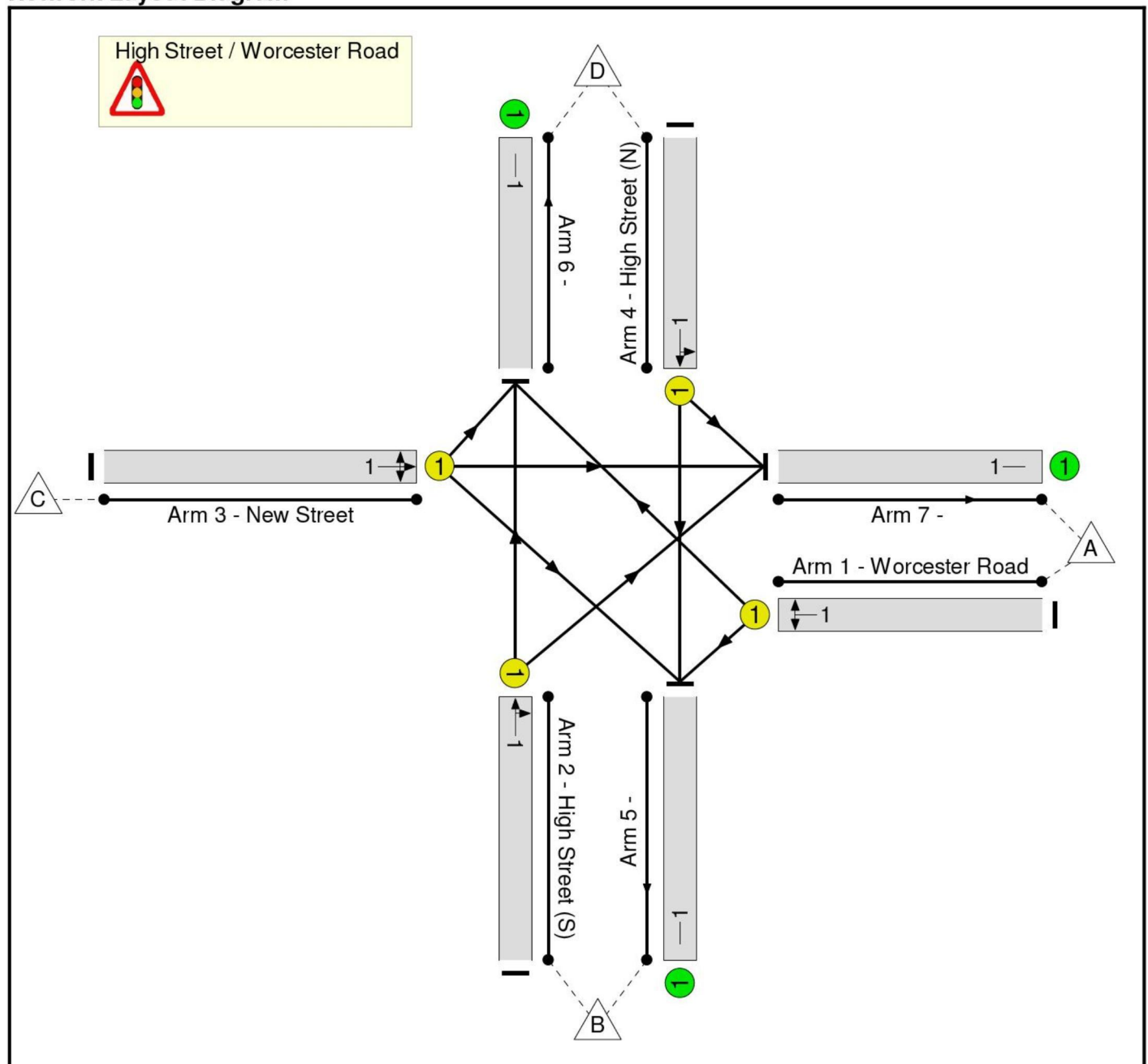


Full Input Data And Results
Full Input Data And Results

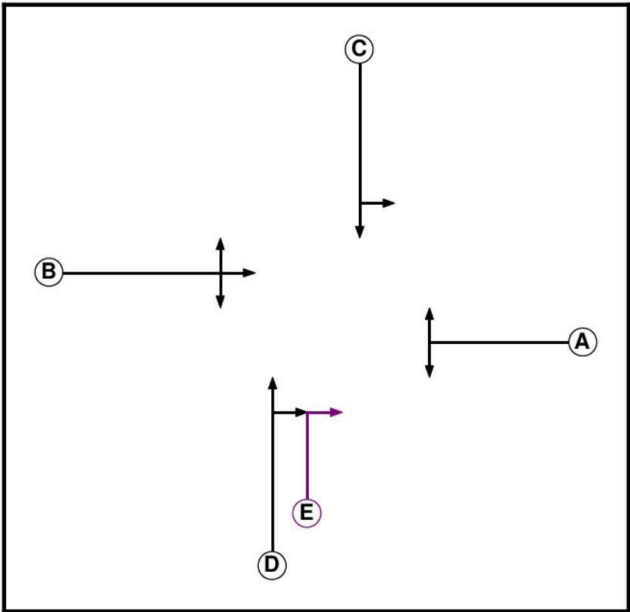
User and Project Details

Project:	SSL Ledbury
Title:	A449 Hereford Road / B4216 New Street
Location:	
File name:	5 - A449 Hereford Rd_B4216 New Street.lsg3x
Author:	304087
Company:	Royal Haskoning
Address:	5th Floor, Newater House, 11 Newhall Street, Birmingham, B3 3NY
Notes:	

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	Ind. Arrow	D	4	4

Phase Intergreens Matrix

		Starting Phase					
Terminating Phase		A	B	C	D	E	
	A		5	5	6	6	
	B	7		9	9	6	
	C	7	5		-	5	
	D	8	6	-		-	
	E	7	6	8	-		

Prohibited Stage Change

		To Stage				
From Stage		1	2	3	4	
	1		5	8	6	
	2	8		8	6	
	3	6	6		5	
	4	9	7			

Lane Input Data

Junction: High Street / Worcester Road												
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 (Worcester Road)	U	A	2	3	60.0	Geom	-	3.25	0.00	N	Arm 5 Left	17.00
											Arm 6 Right	20.00
2/1 (High Street (S))	U	D E	2	3	60.0	Geom	-	3.25	0.00	Y	Arm 6 Ahead	Inf
											Arm 7 Right	20.00
3/1 (New Street)	U	B	2	3	60.0	Geom	-	3.25	0.00	N	Arm 5 Right	19.00
											Arm 6 Left	15.00
											Arm 7 Ahead	Inf
4/1 (High Street (N))	U	C	2	3	60.0	User	1800	-	-	-	-	-

Give-Way Lane Input Data

Junction: High Street / Worcester Road
There are no Opposed Lanes in this Junction

Full Input Data And Results

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2011 Weekday Base'	16:30	17:30	01:00	
2: '2011 Saturday Base'	11:30	12:30	01:00	
3: '2013 Weekday Base'	16:30	17:30	01:00	
4: '2013 Saturday Base'	11:30	12:30	01:00	
5: '2023 Weekday Base'	16:30	17:30	01:00	
6: '2023 Saturday Base'	11:30	12:30	01:00	
7: '2013 Weekday Base + Development'	16:30	17:30	01:00	
8: '2013 Saturday Base + Development'	11:30	12:30	01:00	
9: '2023 Weekday Base + Development'	16:30	17:30	01:00	
10: '2023 Saturday Base + Development'	11:30	12:30	01:00	

Traffic Flows, Desired

Scenario 1: '2011 Weekday Base' (FG1: '2011 Weekday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	121	0	177	298
	B	52	0	0	172	224
	C	141	31	0	101	273
	D	144	185	0	0	329
	Tot.	337	337	0	450	1124

Scenario 2: '2013 Weekday Base' (FG3: '2013 Weekday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	124	0	182	306
	B	53	0	0	177	230
	C	146	32	0	104	282
	D	149	191	0	0	340
	Tot.	348	347	0	463	1158

Full Input Data And Results

Scenario 3: '2023 Weekday Base' (FG5: '2023 Weekday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	137	0	200	337
	B	59	0	0	194	253
	C	160	35	0	115	310
	D	163	210	0	0	373
	Tot.	382	382	0	509	1273

Scenario 4: '2013 Weekday Base + Development' (FG7: '2013 Weekday Base + Development', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	146	0	215	361
	B	75	0	0	167	242
	C	146	32	0	95	273
	D	183	176	0	0	359
	Tot.	404	354	0	477	1235

Scenario 5: '2023 Weekday Base + Development' (FG9: '2023 Weekday Base + Development', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	158	0	233	391
	B	80	0	0	184	264
	C	160	35	0	105	300
	D	198	195	0	0	393
	Tot.	438	388	0	522	1348

Scenario 6: '2011 Saturday Base' (FG2: '2011 Saturday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	123	0	202	325
	B	55	0	0	159	214
	C	136	27	0	123	286
	D	129	163	0	0	292
	Tot.	320	313	0	484	1117

Full Input Data And Results

Scenario 7: '2013 Saturday Base' (FG4: '2013 Saturday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	127	0	208	335
	B	57	0	0	165	222
	C	141	28	0	127	296
	D	133	169	0	0	302
	Tot.	331	324	0	500	1155

Scenario 8: '2023 Saturday Base' (FG6: '2023 Saturday Base', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	140	0	230	370
	B	63	0	0	182	245
	C	155	31	0	140	326
	D	147	186	0	0	333
	Tot.	365	357	0	552	1274

Scenario 9: '2013 Saturday Base + Development' (FG8: '2013 Saturday Base + Development', Plan 1: 'Network Control Plan 1')

Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	152	0	247	399
	B	81	0	0	152	233
	C	141	28	0	116	285
	D	171	147	0	0	318
	Tot.	393	327	0	515	1235

Scenario 10: '2023 Saturday Base + Development' (FG10: '2023 Saturday Base + Development', Plan 1: 'Network Control Plan 1')

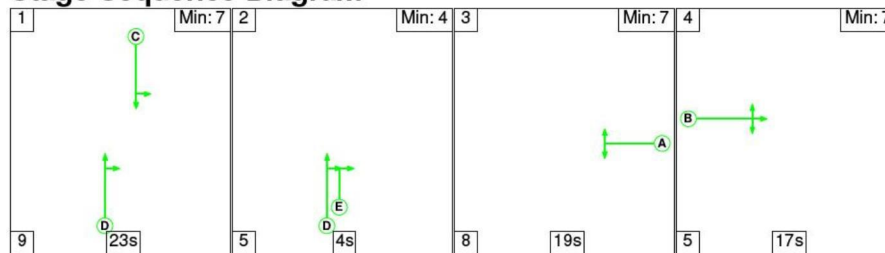
Desired Flow :

	Destination					
		A	B	C	D	Tot.
Origin	A	0	165	0	269	434
	B	87	0	0	169	256
	C	155	31	0	129	315
	D	185	165	0	0	350
	Tot.	427	361	0	567	1355

Full Input Data And Results

Scenario 1: '2011 Weekday Base' (FG1: '2011 Weekday Base', Plan 1: 'Network Control Plan 1')

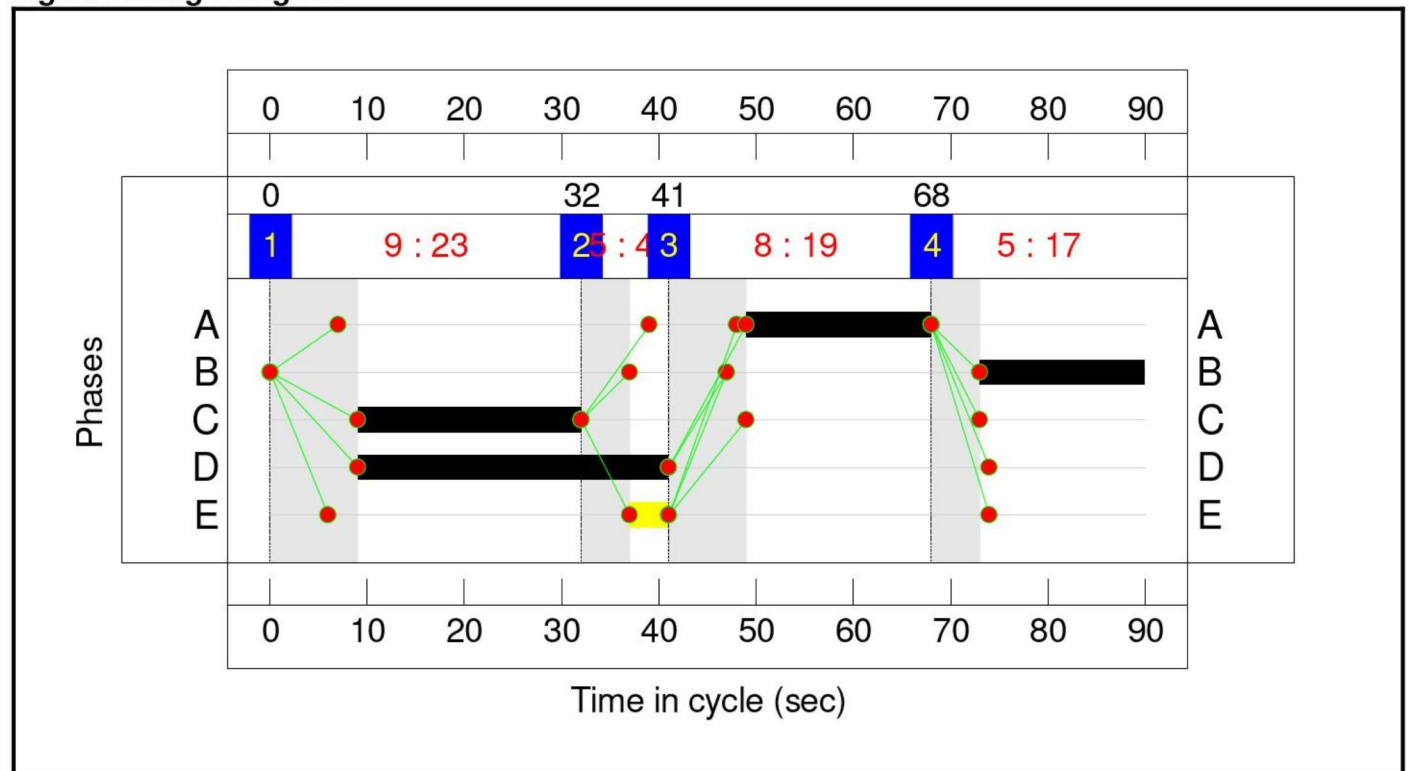
Stage Sequence Diagram



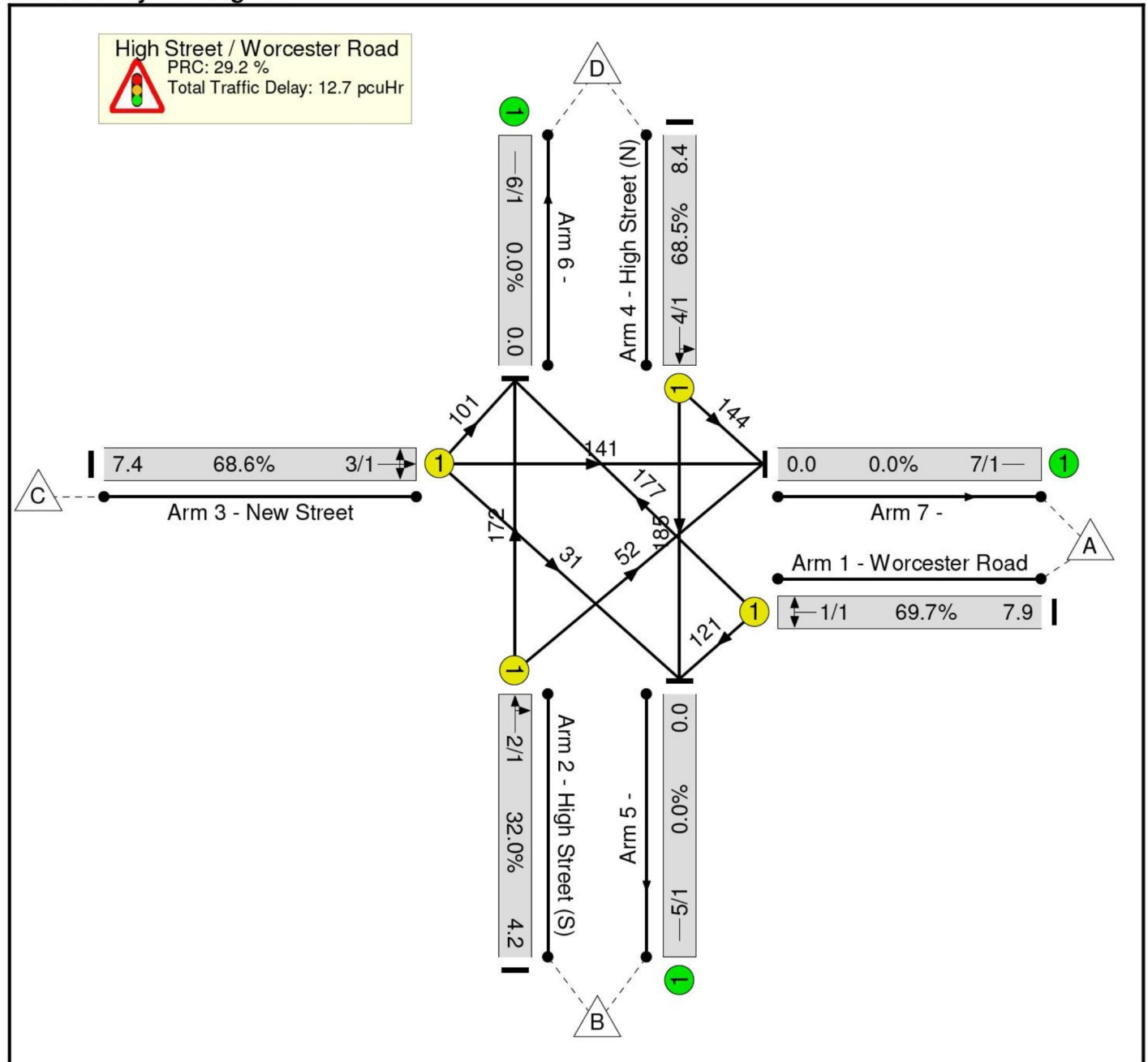
Stage Timings

Stage	1	2	3	4
Duration	23	4	19	17
Change Point	0	32	41	68

Signal Timings Diagram



Network Layout Diagram

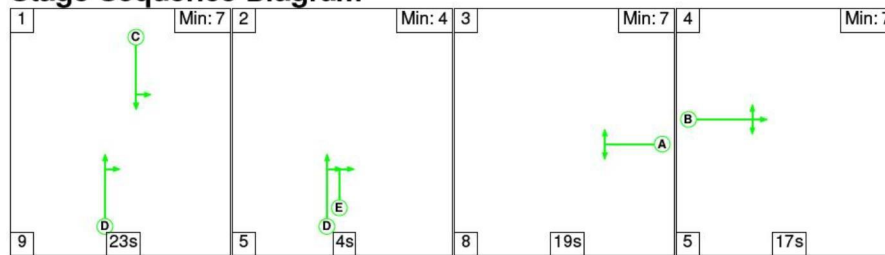


Network Results

Full Input Data And Results

Scenario 2: '2013 Weekday Base' (FG3: '2013 Weekday Base', Plan 1: 'Network Control Plan 1')

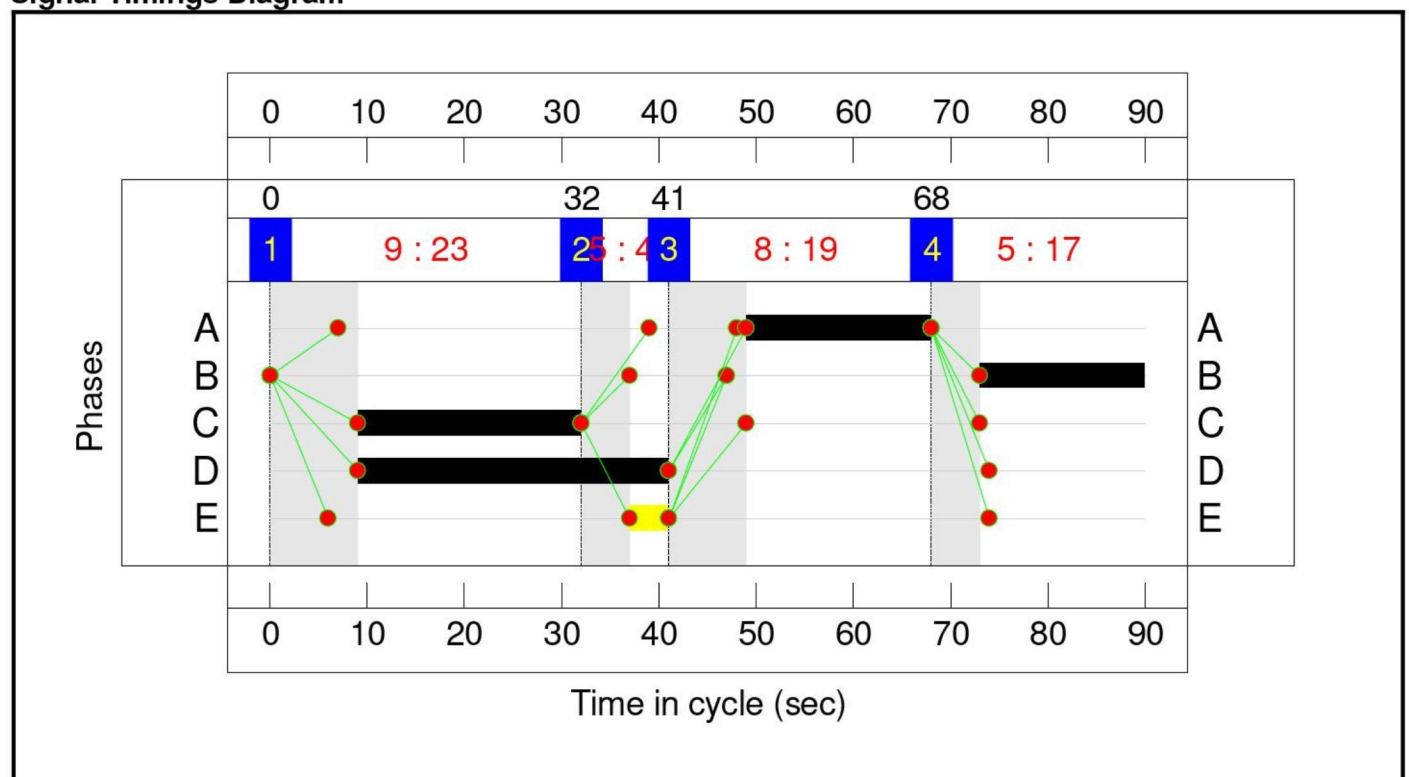
Stage Sequence Diagram



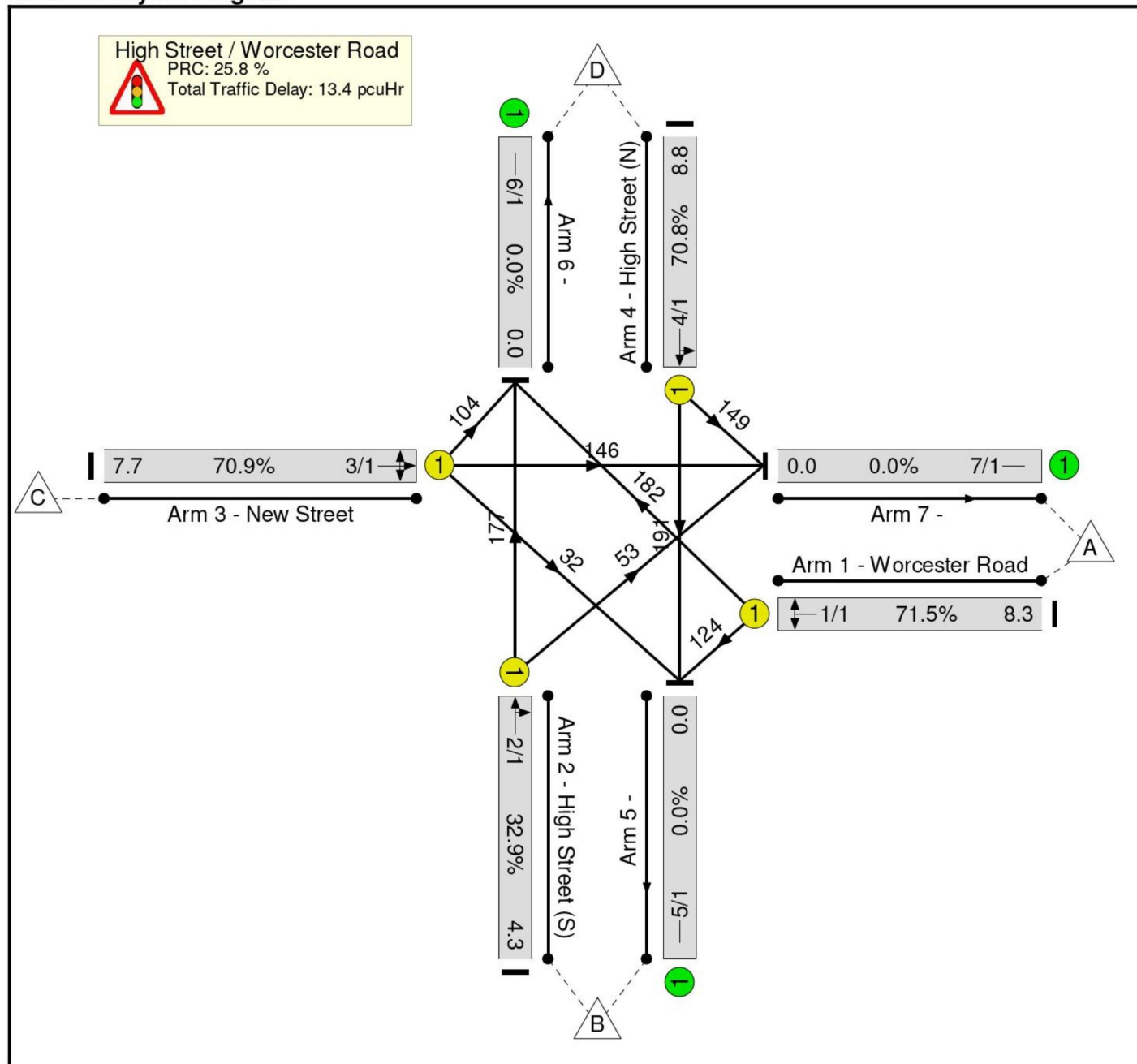
Stage Timings

Stage	1	2	3	4
Duration	23	4	19	17
Change Point	0	32	41	68

Signal Timings Diagram



Network Layout Diagram

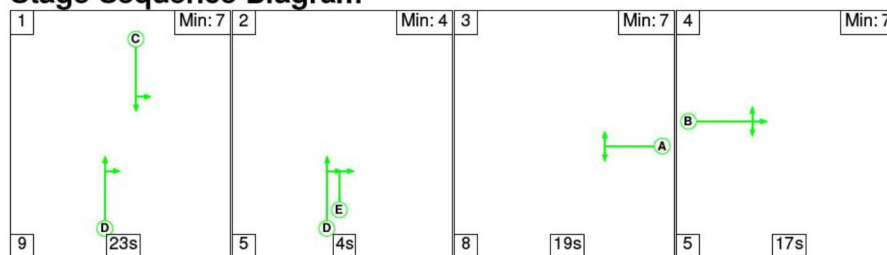


Network Results

Full Input Data And Results

Scenario 3: '2023 Weekday Base' (FG5: '2023 Weekday Base', Plan 1: 'Network Control Plan 1')

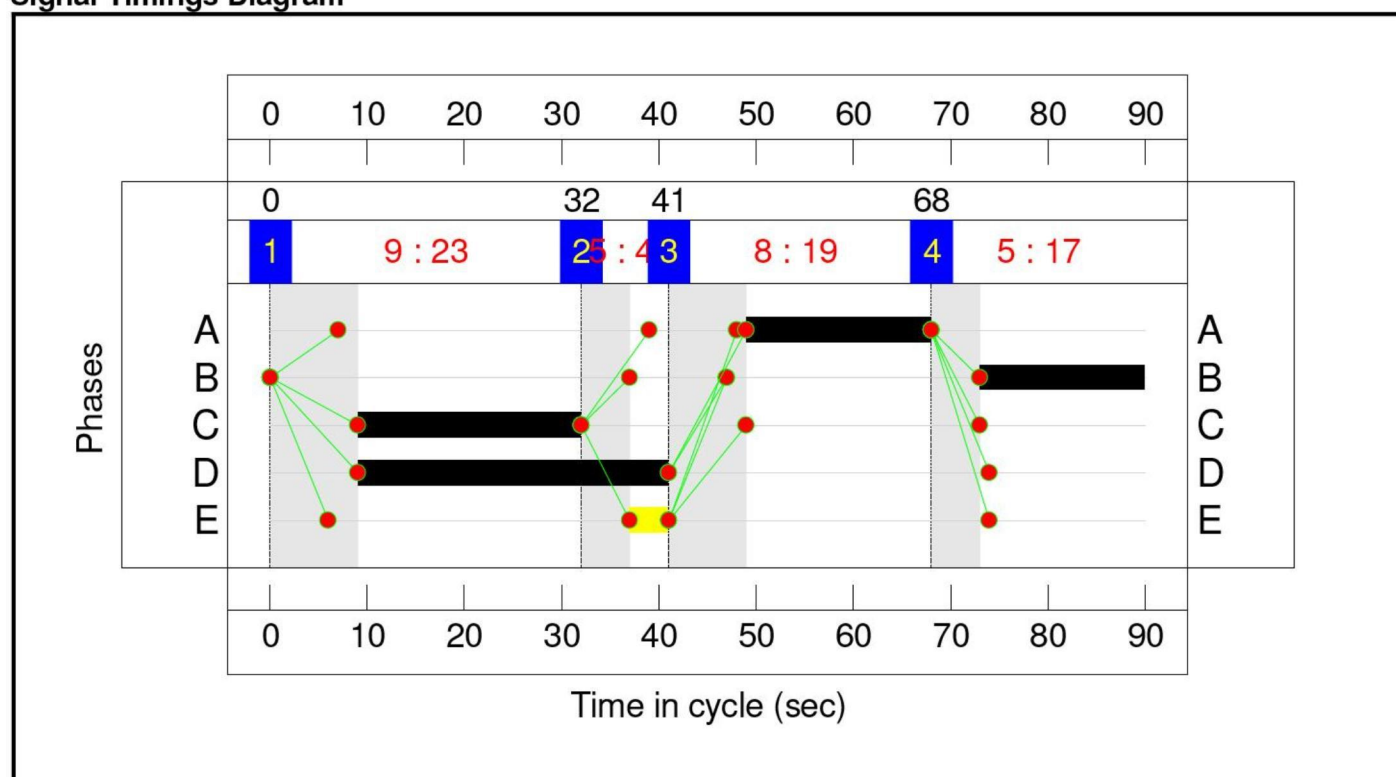
Stage Sequence Diagram



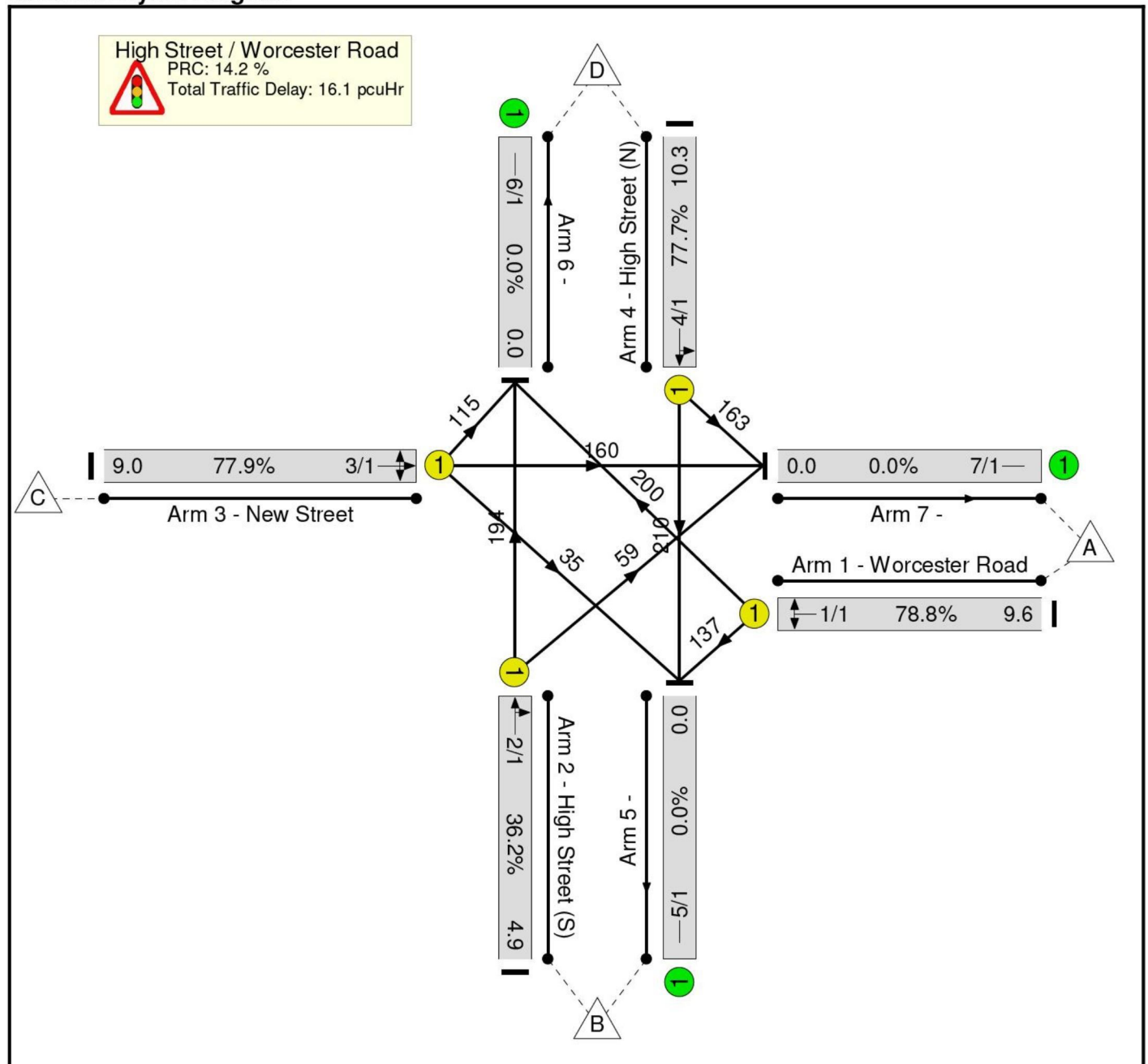
Stage Timings

Stage	1	2	3	4
Duration	23	4	19	17
Change Point	0	32	41	68

Signal Timings Diagram



Network Layout Diagram



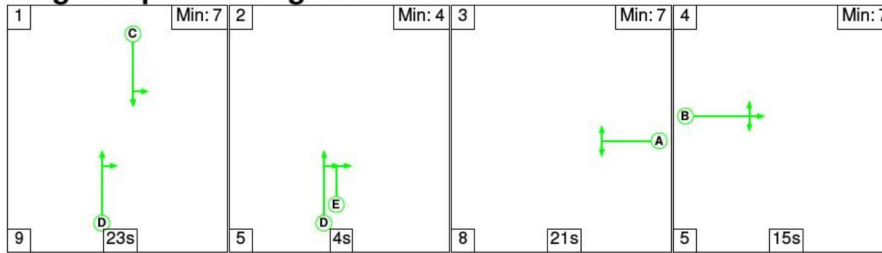
Network Results

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: A449 Hereford Road / B4216 New Street	-	-	N/A	-	-		-	-	-	-	-	-	78.8%
High Street / Worcester Road	-	-	N/A	-	-		-	-	-	-	-	-	78.8%
1/1	Worcester Road Left Right	U	N/A	N/A	A		1	19	-	337	1925	428	78.8%
2/1	High Street (S) Ahead Right	U	N/A	N/A	D	E	1	32	4	253	1907	699	36.2%
3/1	New Street Right Left Ahead	U	N/A	N/A	B		1	17	-	310	1989	398	77.9%
4/1	High Street (N) Ahead Left	U	N/A	N/A	C		1	23	-	373	1800	480	77.7%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: A449 Hereford Road / B4216 New Street	-	-	0	0	0	10.7	5.5	0.0	16.1	-	-	-	-
High Street / Worcester Road	-	-	0	0	0	10.7	5.5	0.0	16.1	-	-	-	-
1/1	337	337	-	-	-	3.1	1.8	-	4.9	52.1	7.9	1.8	9.6
2/1	253	253	-	-	-	1.5	0.3	-	1.7	24.8	4.6	0.3	4.9
3/1	310	310	-	-	-	2.9	1.7	-	4.6	53.9	7.3	1.7	9.0
4/1	373	373	-	-	-	3.2	1.7	-	4.9	46.8	8.6	1.7	10.3
C1 PRC for Signalled Lanes (%): 14.2 Total Delay for Signalled Lanes (pcuHr): 16.11 Cycle Time (s): 90 PRC Over All Lanes (%): 14.2 Total Delay Over All Lanes(pcuHr): 16.11													

Full Input Data And Results

Scenario 4: '2013 Weekday Base + Development' (FG7: '2013 Weekday Base + Development', Plan 1: 'Network Control Plan 1')

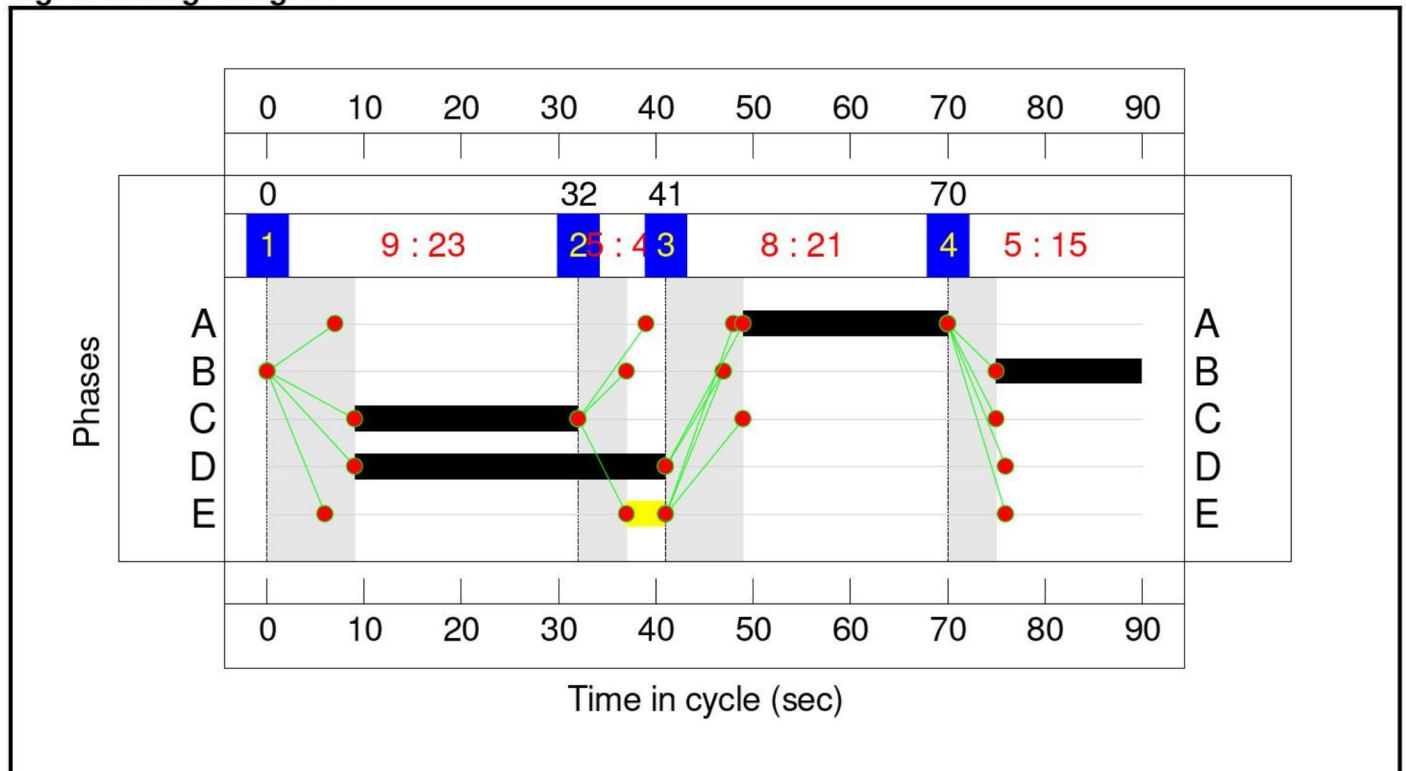
Stage Sequence Diagram



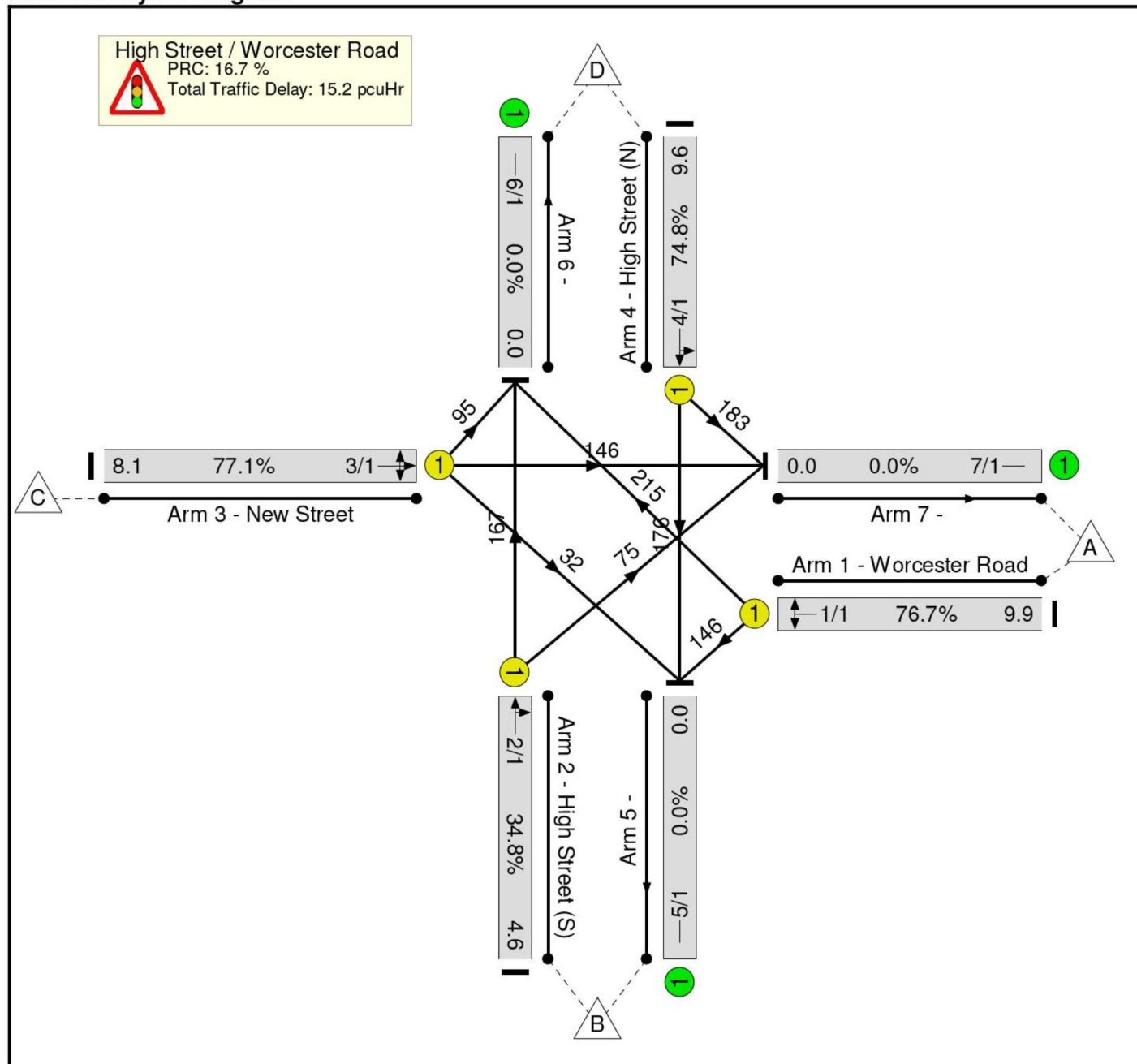
Stage Timings

Stage	1	2	3	4
Duration	23	4	21	15
Change Point	0	32	41	70

Signal Timings Diagram



Network Layout Diagram

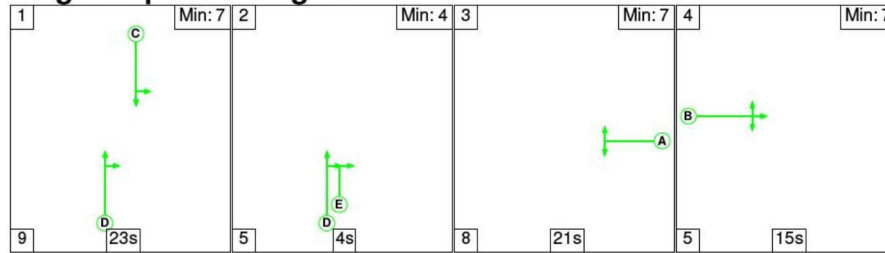


Network Results

Full Input Data And Results

Scenario 5: '2023 Weekday Base + Development' (FG9: '2023 Weekday Base + Development', Plan 1: 'Network Control Plan 1')

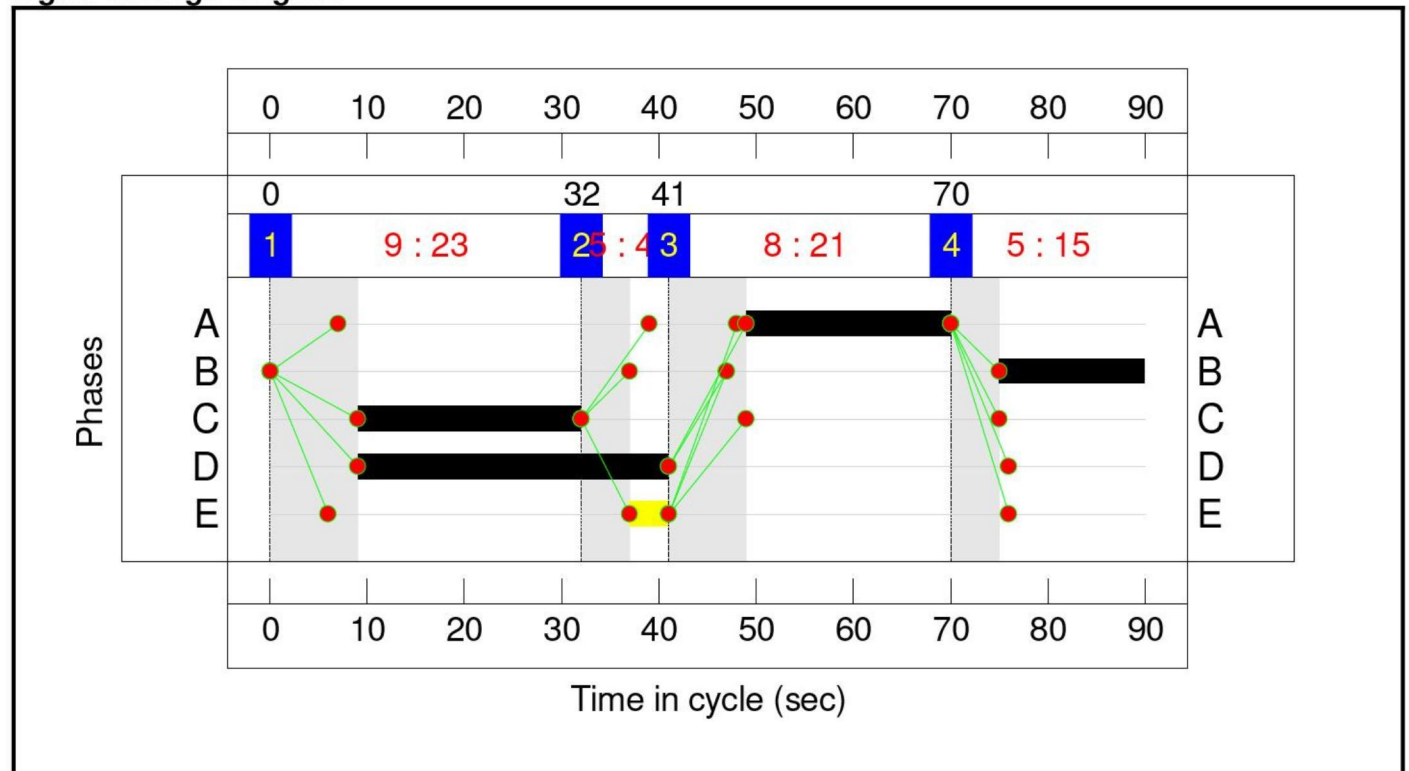
Stage Sequence Diagram

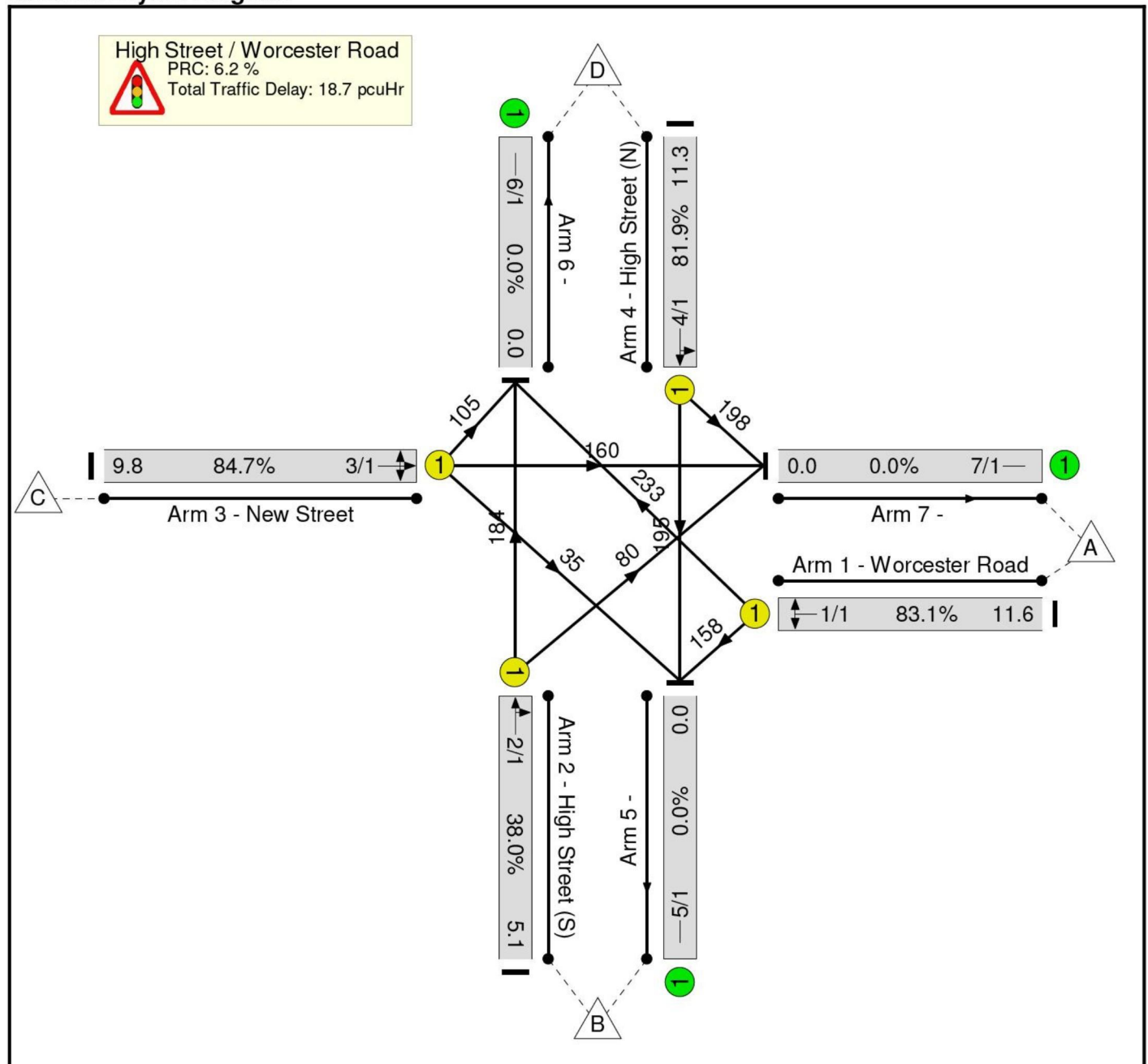


Stage Timings

Stage	1	2	3	4
Duration	23	4	21	15
Change Point	0	32	41	70

Signal Timings Diagram



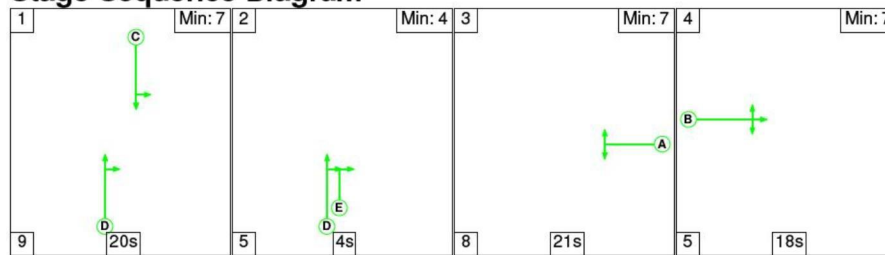


Network Results

Full Input Data And Results

Scenario 6: '2011 Saturday Base' (FG2: '2011 Saturday Base', Plan 1: 'Network Control Plan 1')

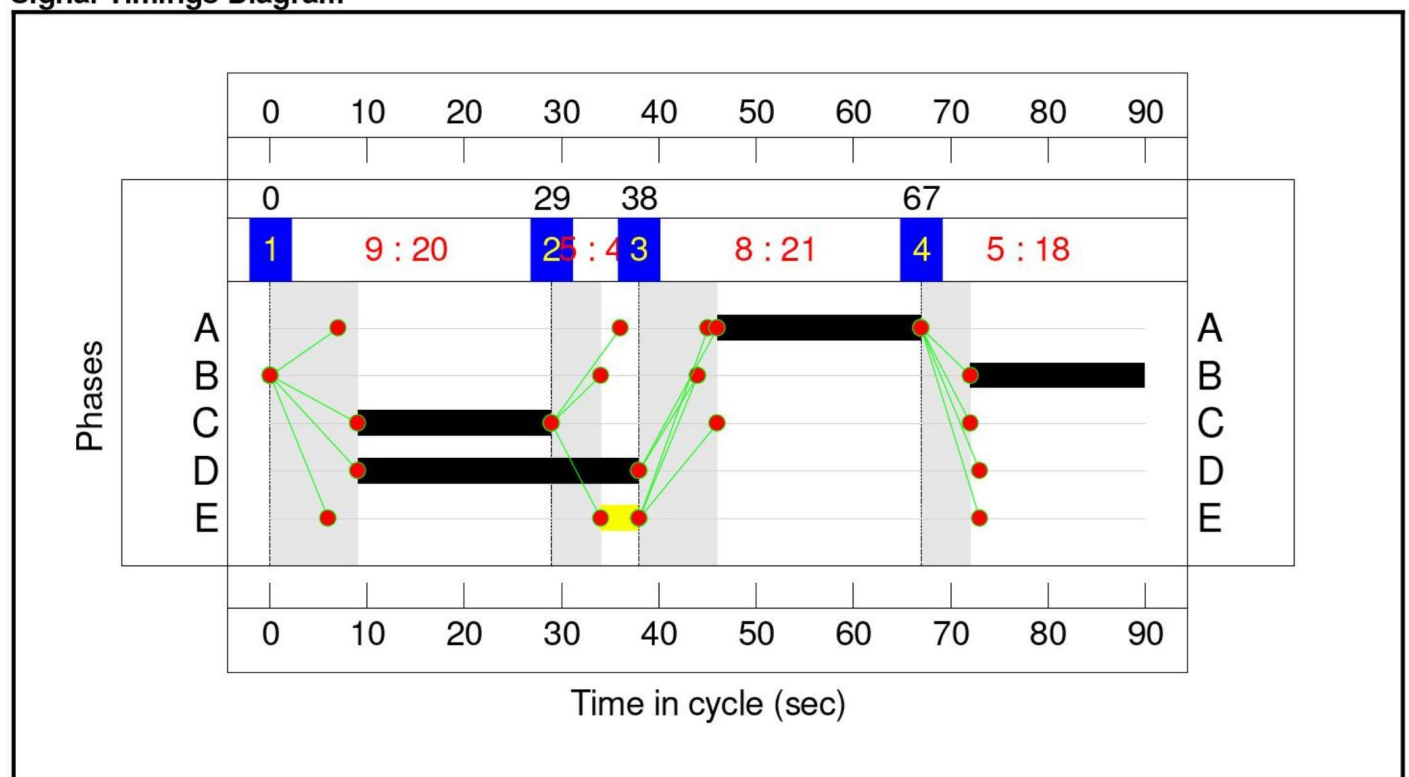
Stage Sequence Diagram

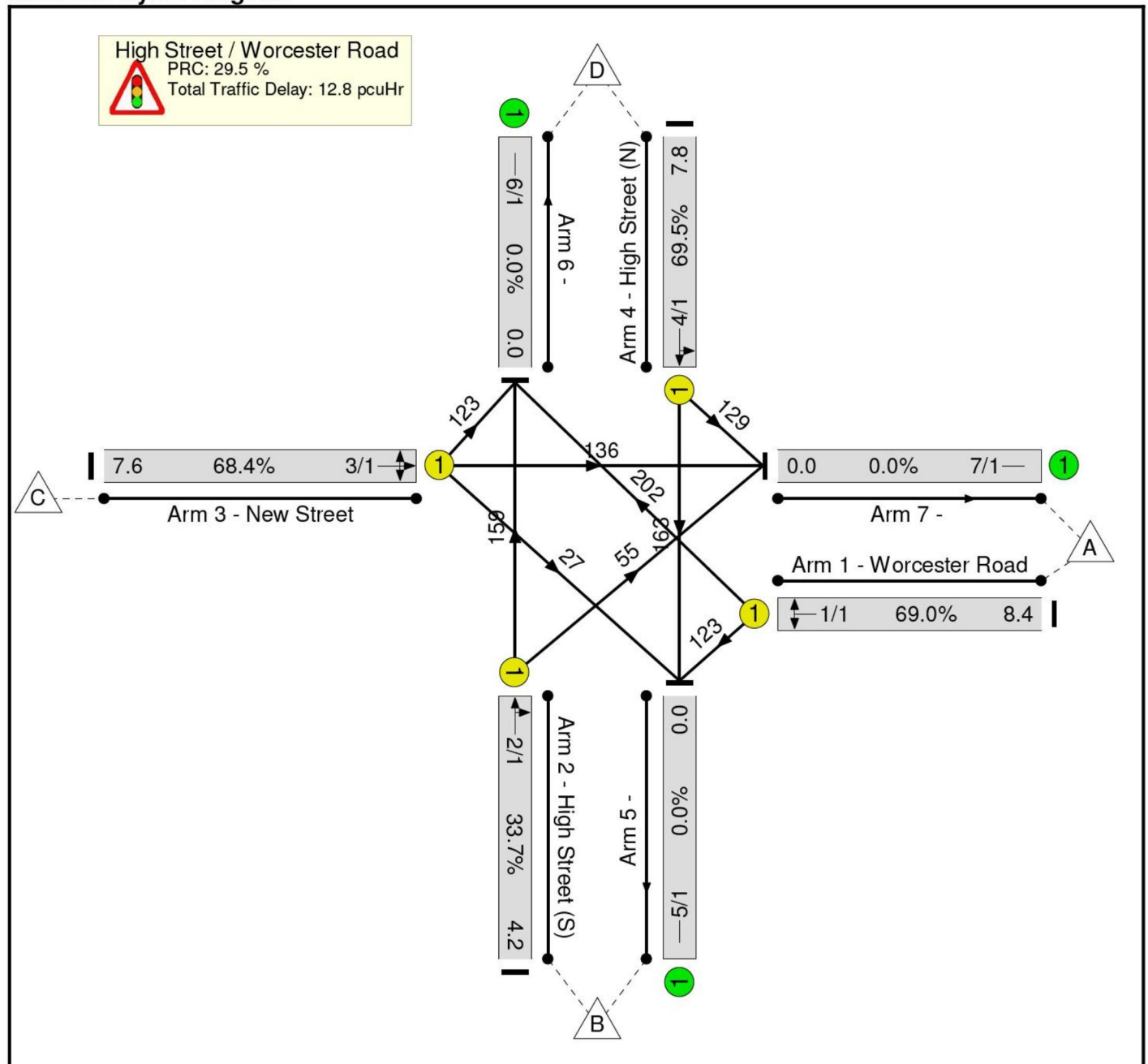


Stage Timings

Stage	1	2	3	4
Duration	20	4	21	18
Change Point	0	29	38	67

Signal Timings Diagram



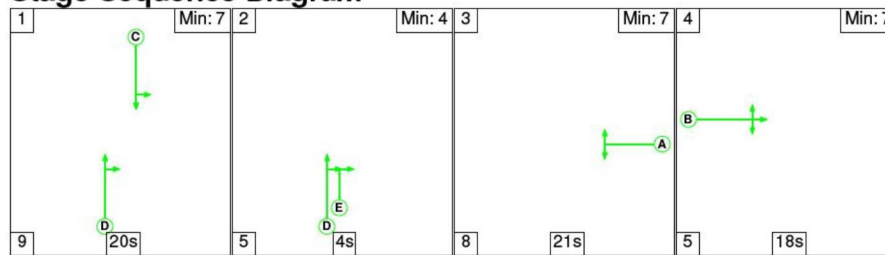


Network Results

Full Input Data And Results

Scenario 7: '2013 Saturday Base' (FG4: '2013 Saturday Base', Plan 1: 'Network Control Plan 1')

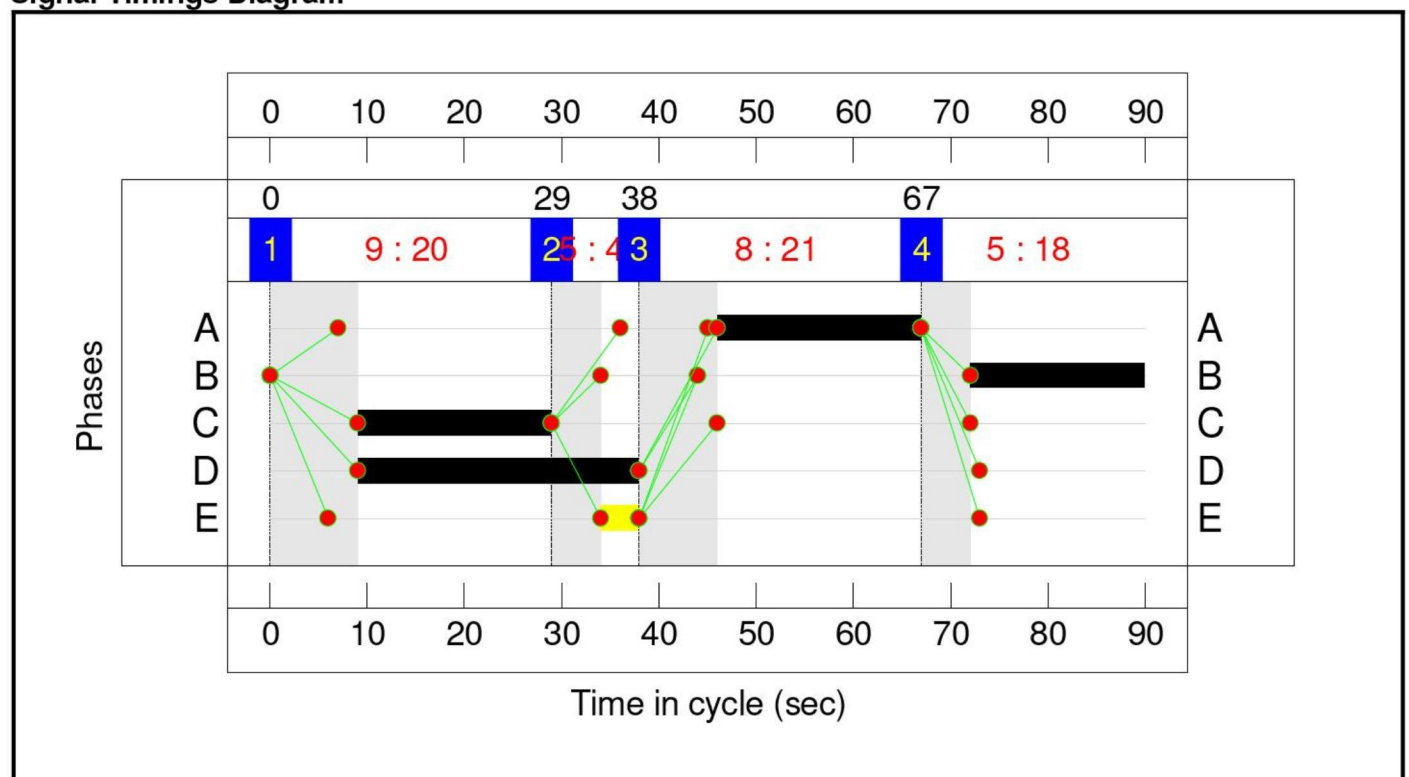
Stage Sequence Diagram



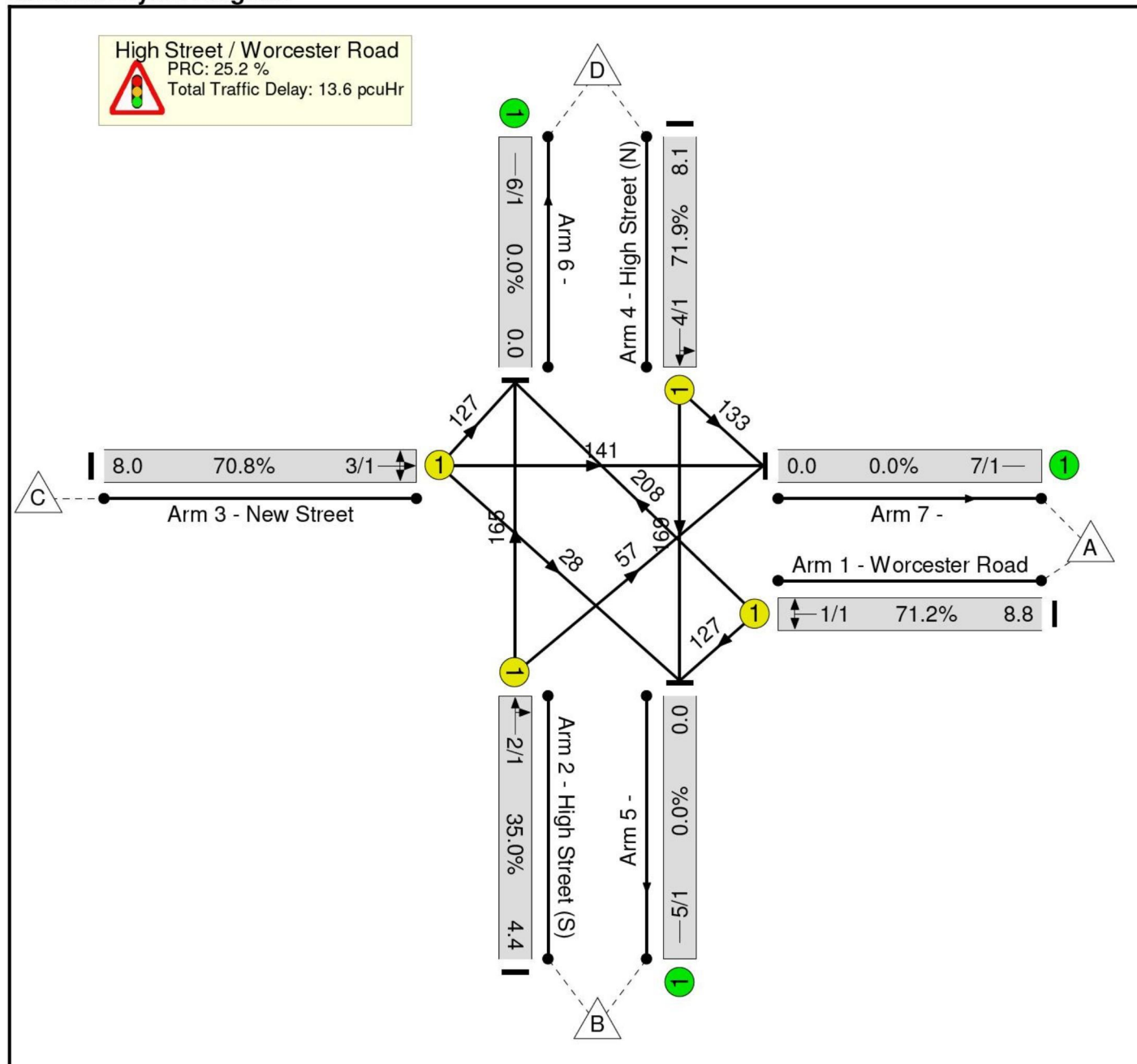
Stage Timings

Stage	1	2	3	4
Duration	20	4	21	18
Change Point	0	29	38	67

Signal Timings Diagram



Network Layout Diagram

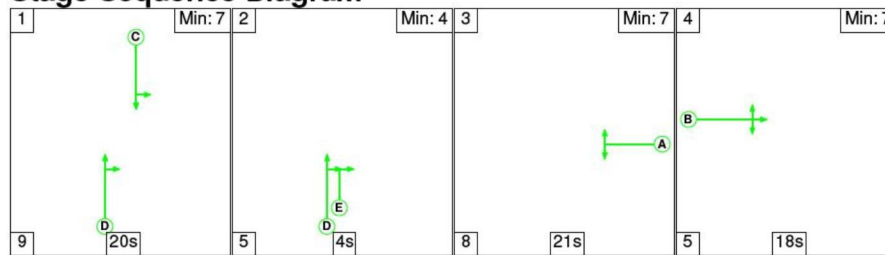


Network Results

Full Input Data And Results

Scenario 8: '2023 Saturday Base' (FG6: '2023 Saturday Base', Plan 1: 'Network Control Plan 1')

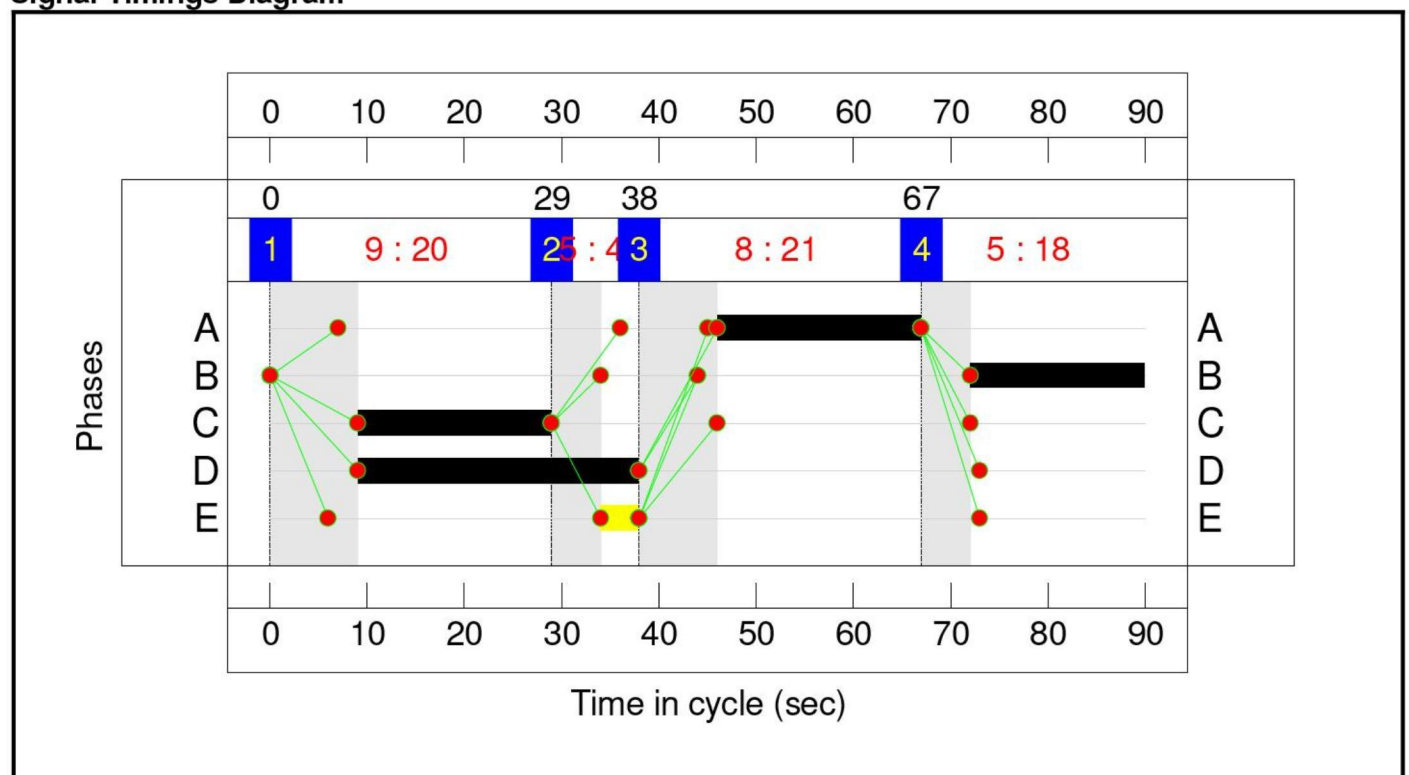
Stage Sequence Diagram



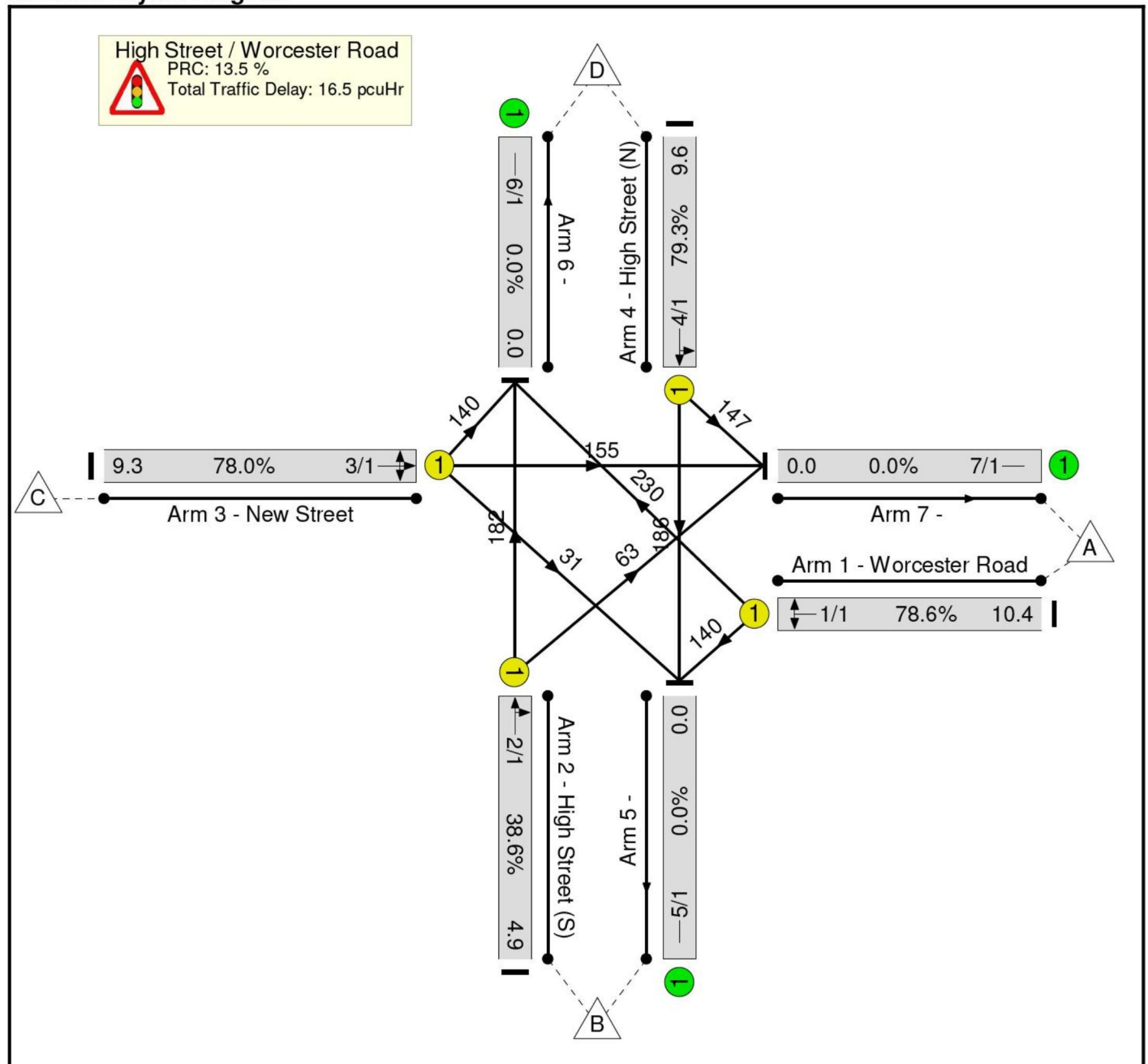
Stage Timings

Stage	1	2	3	4
Duration	20	4	21	18
Change Point	0	29	38	67

Signal Timings Diagram



Network Layout Diagram

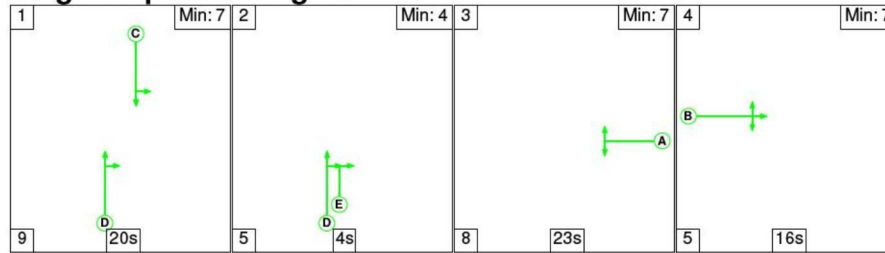


Network Results

Full Input Data And Results

Scenario 9: '2013 Saturday Base + Development' (FG8: '2013 Saturday Base + Development', Plan 1: 'Network Control Plan 1')

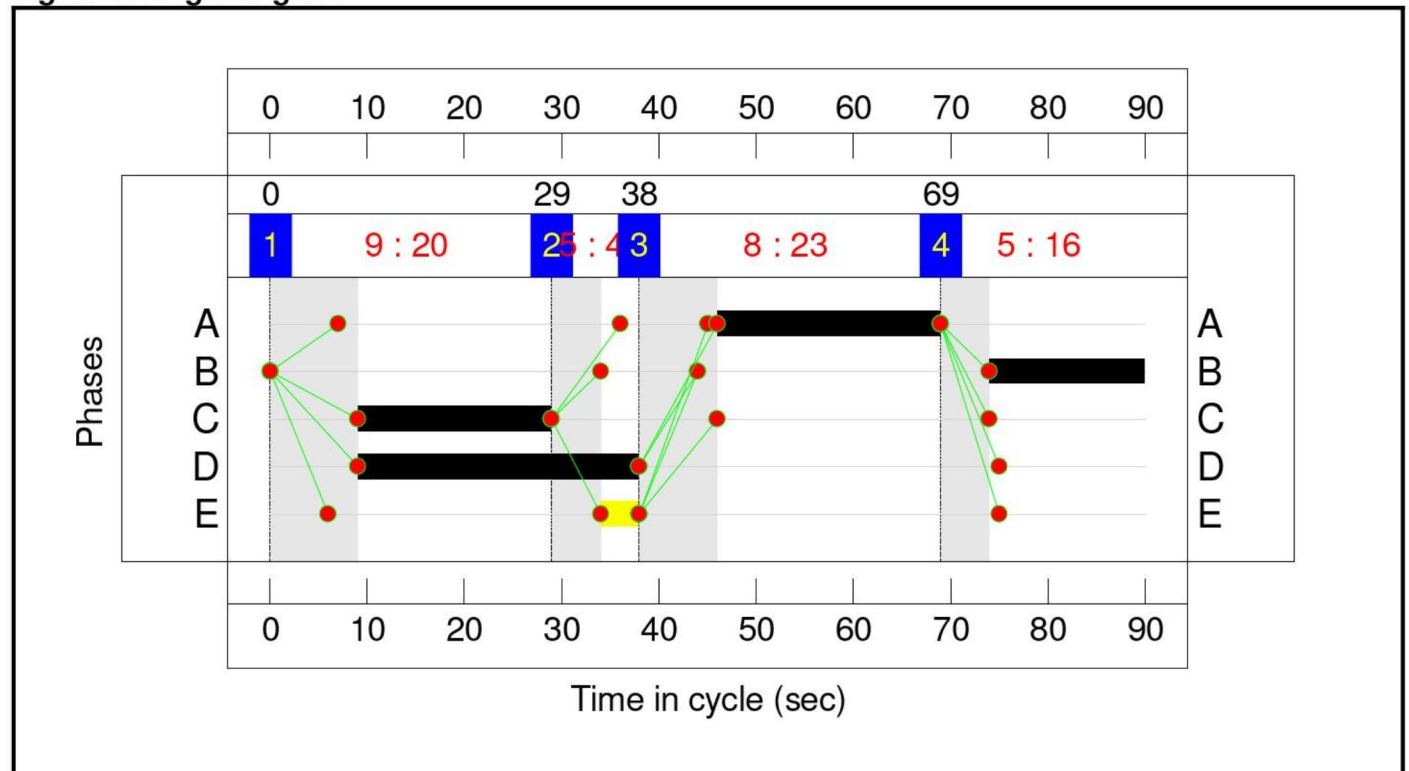
Stage Sequence Diagram



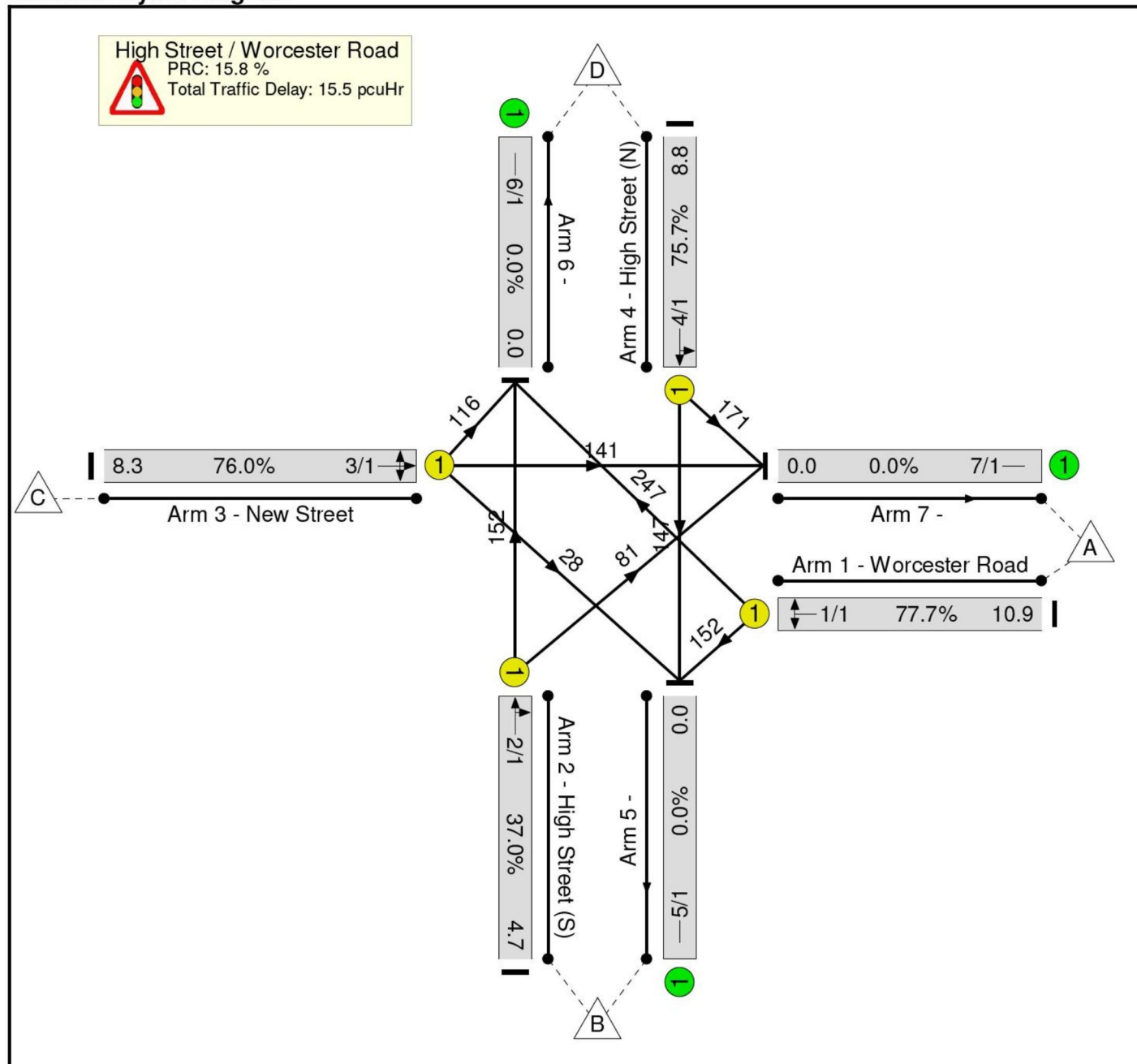
Stage Timings

Stage	1	2	3	4
Duration	20	4	23	16
Change Point	0	29	38	69

Signal Timings Diagram



Network Layout Diagram

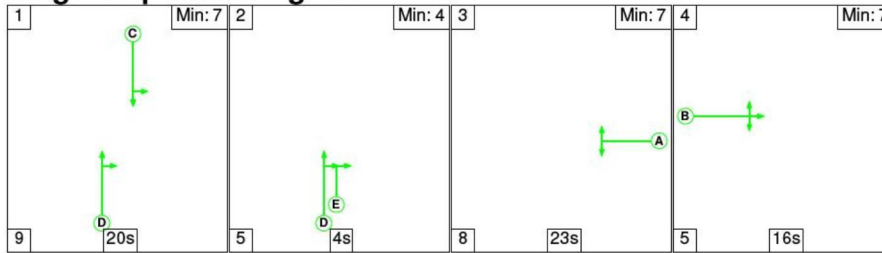


Network Results

Full Input Data And Results

Scenario 10: '2023 Saturday Base + Development' (FG10: '2023 Saturday Base + Development', Plan 1: 'Network Control Plan 1')

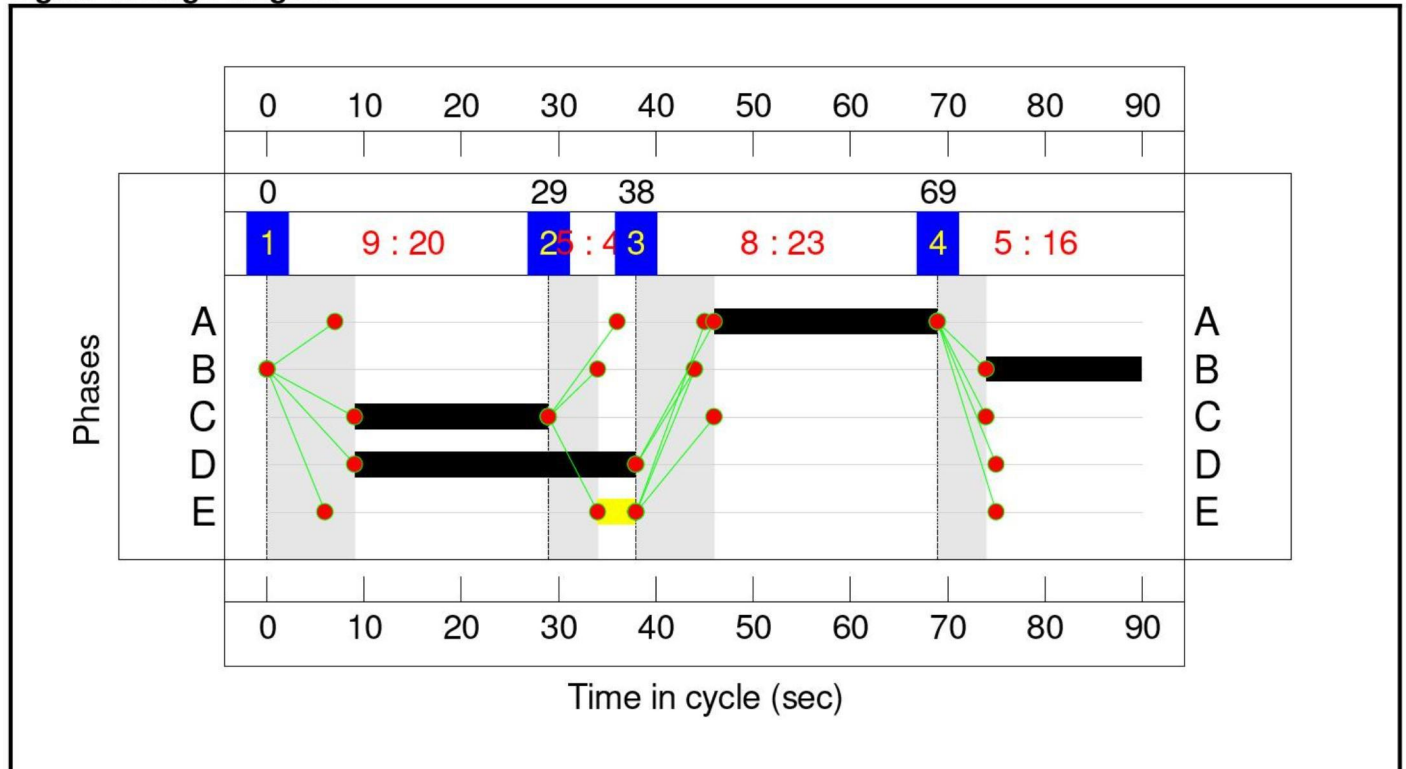
Stage Sequence Diagram



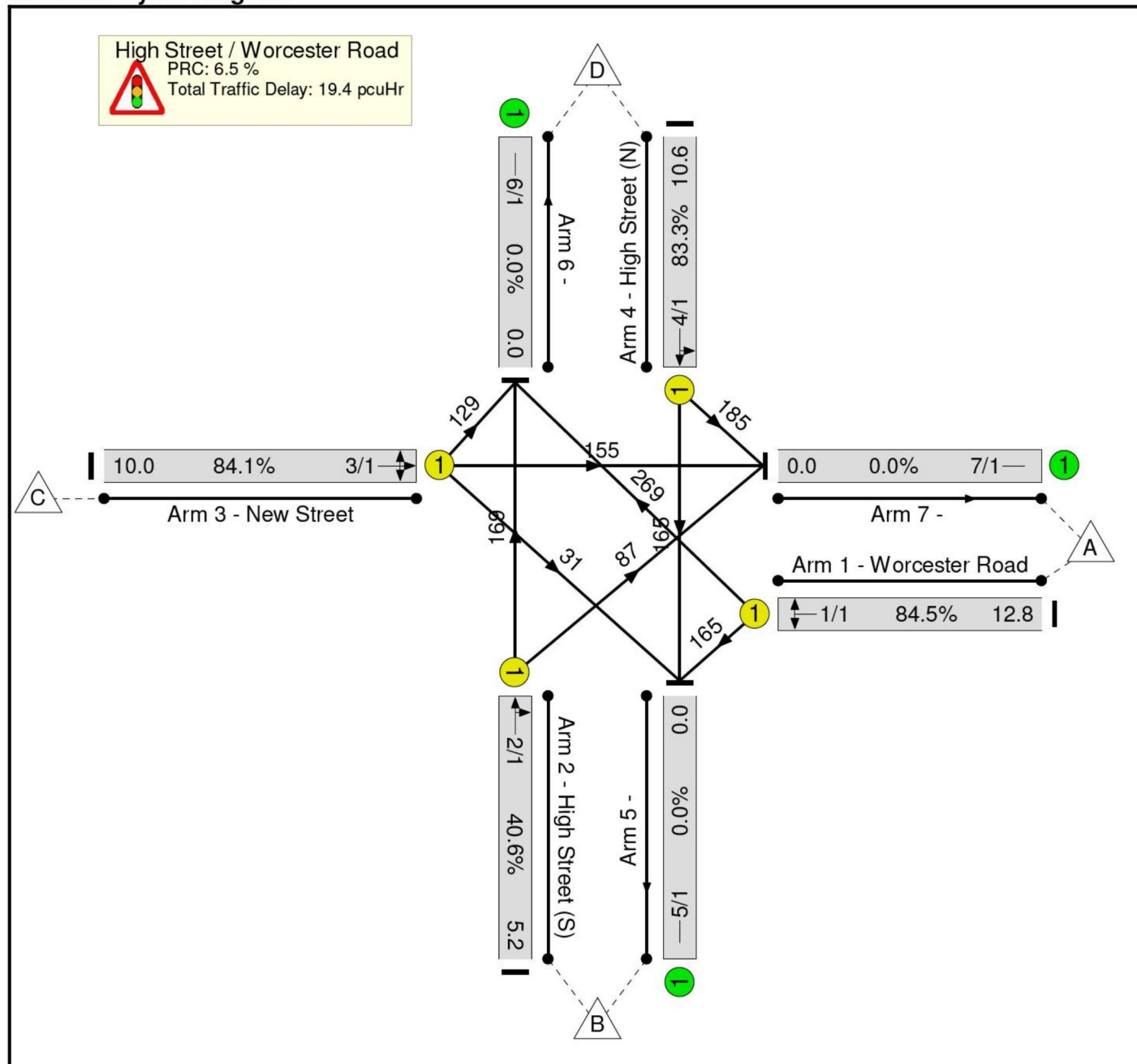
Stage Timings

Stage	1	2	3	4
Duration	20	4	23	16
Change Point	0	29	38	69

Signal Timings Diagram



Network Layout Diagram



Network Results