

High Street Shuttle Signals – Modelling Results

Land at Sodbury Road, Wickwar

Bloor Homes



QA RECORD:

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1 HIGHWAY OPERATIONAL ASSESSMENT

- 1.1 Baseline traffic survey and future assessment years
- 1.1.1 The 2023 baseline traffic flows were obtained at the High Street/Station Road/The Downs signalised T-junction in the form of manual classified turning count surveys undertaken on the 20th April 2023. The results of this survey are contained in Appendix A.
- 1.1.2 The following future year assessments have been identified and remain in line with those previously agreed with SGC:
 - Baseline Scenario (2023);
 - Future Year Scenario (2027) with no development;
 - Future Year Scenario (2027) with Committed Development (CD); and
 - Future Year Scenario (2027) with Committed Development (CD) and Proposed Development (PD).
- 1.1.3 Traffic flow diagrams for the above scenarios are contained at Appendix B.

1.2 Junction Traffic Flows

Growth Factors

- 1.2.1 The 2023 traffic flows at High Street/Station Road/The Downs signalised T-junction have been growthed to represent the 2027 future year scenario turning movements at the assessed junction. This represents the anticipated year of occupation.
- 1.2.2 The growth factors were derived from TEMPro V8.0 and the input parameters can be seen at Appendix C. The growth factors are set out in Table 1.1 below.

Table 1.1: TEMPro Growth Factors

	A.M Peak	P.M Peak
2023-2027	1.043	1.042

1.2.3 The growthed traffic flows to the future year of 2027 are shown in Appendix B.

Committed Development

- 1.2.4 The future year assessments also consider any committed developments within the local area. In this instance only one site has been included and that is the Horwood Lane development site (PK16/4006/O), situated to the south of the proposed development. This site is currently partly built out but remains under construction.
- 1.2.5 The traffic flows in the future year at the assessment junction has therefore included for this as a 'committed development' and its anticipated future traffic generation extracted from the previously agreed Transport Assessment. As this development is partly built out, some of these trips are likely to have been double counted in the baseline traffic survey and resulting flows. This is considered to offer a more robust assessment by potentially over-estimating the volume of traffic entering and exiting the High Street/Station Road/The Downs signalised T-junction.



- 1.2.6 These traffic flows do not include the previous committed development south of Poplar Lane (application PK16/4006/O), as this development has been built out and occupied since the last assessment. These flows have been included in the baseline 2023 traffic counts.
- 1.2.7 The committed development flows are shown diagrammatically in Appendix B.

Proposed Development

1.2.8 The Proposed development traffic flows have been extracted from those previously agreed in the NRP Transport Assessment. These traffic flows can be seen in Appendix B.

1.3 Junction Capacity Analysis

1.3.1 The performance of the High Street/Station Road/The Downs signalised T-junction has been assessed using JCTs LinSig modelling software. The manual turning counts and queue counts, which were undertaken at the signals on 20th April 2023, have been used to provide updated traffic flows for the model.

Methodology

- 1.3.2 In order to provide an accurate model that represents queuing correctly, the saturation flow has been manually calculated in the AM and PM peak hours for the southbound traffic signals approach on Station Road.
- 1.3.3 Saturation flows have been measured as the number of passenger car units (PCUs) travelling in a dense flow of traffic from a queued position. Due to the nature of southbound traffic queueing on both Station Road and The Downs, the saturation flow has been taken while both queues clear. This has been achieved by counting the PCUs clearing Station Road during a green period and accounting for vehicles entering from The Downs arm when moving in a constant flow. This saturation flow has then been applied to the model on the Station Road arm to represent the level of queuing on both the Station Road and The Downs. These queues have then been validated against the observed survey queue counts.
- 1.3.4 Taking site specific saturation flows is considered the most accurate method to represent queuing within the junction, particularly in comparison to using the estimated saturation flows calculated using lane geometry. This is supported with the modelling guidance which states that that:
 - 'Queue predictions are very sensitive to inaccurate saturation flows, the possibly small differences between estimated and true saturation flows can lead to potentially much more significant differences between modelled and surveyed queues'.
- 1.3.5 Therefore, by inputting site specific saturation flows, combined with the signal timing and operating data provided by South Gloucestershire Council, the junction is considered accurately modelled and validated to base conditions.
- 1.3.6 The calculated saturation flows can be seen in Appendix D.
- 1.4 Linsig Modelling Results
- 1.4.1 The results of the Linsig modelling discussed above are summarised in Table 1.2 overleaf.



Table 1.2: High Street/Station Road/The Downs – Results of LINSIG Modelling

A	A.M I	Peak (07:45-08	3:45)	P.M	Peak (16:30-17	7:30)
Assessment Year	Queue ¹	Delay ²	Sat ³	Queue ¹	Delay ²	Sat ³
2023 Base Traffic						
High Street	10.6	31.3	65.9	10.5	44.9	76.4
Station Road	8.5	31.0	64.5	12.4	28	74.7
The Downs	0.3	5.7	40.9	0.6	7.3	52.6
PRC		36.5			17.8	
2027 Future Year wit	h no developm	ent				
High Street	11.3	32.2	68.6	10.9	43.9	76.5
Station Road	9.1	32.1	67.2	13.8	31.7	79.6
The Downs	0.4	6	43.0	0.6	7.8	55.2
PRC		31.1			13.1	
2027 Future Year + C	D					
High Street	11.4	31.4	68.7	11.7	48.7	81.1
Station Road	9.6	34.2	70.3	14.1	30.8	79.4
The Downs	0.4	6.1	44.1	0.7	8.2	57.3
PRC		28.1			11	
2027 Future Year + C	D + PD					
High Street	13.3	34.3	75.3	14.2	58.7	88.3
Station Road	10.8	37	75.4	17.2	37.9	86.9
The Downs	0.5	6.7	48.9	1	10.6	66.7
PRC (%) ⁴		19.4			1.9	

Notes:

- 1. The maximum mean queue predicted by the model for any 15-minute time period.
- ${\bf 2. \ The \ maximum \ mean \ delay \ per \ vehicle \ predicted \ by \ the \ model \ for \ any \ 15-minute \ time \ period.}$
- 3. The maximum degree of saturation (%) predicted by the model for any 15-minute time period.
- 4. The PRC (Practical Reserve Capacity) of the junction.



- 1.4.2 As discussed in the methodology, queuing for both Station Road at the traffic signal stop line and southbound on The Downs arm has been represented within the Station Road arm within the model. This provides an accurate representation of the queuing and practical reserve capacity in all assessment year scenarios.
- 1.4.3 The above results demonstrate that the junction currently operates within capacity in the AM and PM peak hours. The minimum PRC for the 2027 future year + CD + PD forecast scenario is 1.9% in the PM peak hour period, whilst the maximum delay is 58.7 seconds in the PM peak on the High Street arm.
- 1.4.4 It is likely that some trips within the junction have been double counted as a result of the Horwood Lane development (PK16/4006/O) being partially built out. These trips have been counted as committed development trips, and as baseline 2023 traffic flows offering a more robust assessment on the future impact to the junction. It is reasonable to suggest that the actual impact on the High Street/Station Road/The Downs signalised T-junction junction is less than the modelled results indicate as a result of this.
- 1.4.5 It can therefore be concluded that the High Street/Station Road/The Downs signalised T-junction can accommodate the existing traffic flow levels and those flows factored to 2027 with the addition of the proposed and committed development traffic.
- 1.4.6 Traffic flow diagrams for the 2023 baseline traffic and 2027 future scenario year at the junction in Passenger Car Units (PCUs) can be seen in Appendix B.
- 1.4.7 The modelling results can be seen in Appendix E.
- 1.5 Summary
- 1.5.1 The update to the Linsig junction modelling undertaken demonstrates that the junction can accommodate both the committed development and proposed development with the junction remaining within capacity, with acceptable levels of queuing and delay, demonstrated within both the AM and PM peak hours.



APPENDIX A: 2023 TRAFFIC COUNTS



SS1079 Wickwar Thursday 20 April 2023 0700-1000 & 1600-1900 Site 1

				А	rm A - Arm	A							A	rm A - Arm	В							А	rm A - Arm	С				
	Car	LGV	OGV1	OGV2		MC	PC	Ped To	al	Car	LGV	OGV1	OGV2	PSV	MC	PC	Ped	Total	Car	LGV	OGV1	OGV2	PSV	MC	PC	Ped	Total	Arm Total
0700-0715	0	0	0	0	0	0	0	0 (2	0	0	0	0	0	0	0	2	24	6	1	0	1	0	0	0	32	34
0715-0730	0	0	0	0	0	0	0	0 (2	1	0	0	2	0	1	1	7	29	11	0	0	0	0	0	0	40	47
0730-0745	0	0	0	0	0	0	0	0 (4	1	0	0	0	1	0	0	6	25	12	1	0	0	0	0	0	38	44
0745-0800	0	0	0	0	0	0	0	0 (6	0	0	0	0	0	0	0	6	35	8	2	0	0	0	0	0	45	51
Hourly	_										_					_	_		112				_	_	_	_		
Total	0	0	0	0	0	0	0	0 0		14	2	0	0	2	1	1	1	21	113	37	4	0	1	0	0	0	155	176
0800-0815	0	0	0	0	0	0	0	0 (5	2	1	0	0	0	0	0	8	32	7	0	0	0	1	0	0	40	48
0815-0830	0	0	0	0	0	0	0	0 (11	1	0	0	0	0	0	0	12	33	10	0	0	1	0	0	0	44	56
0830-0845	0	0	0	0	0	0	0	0 (7	2	0	0	0	0	0	0	9	37	8	0	1	1	0	0	0	47	56
0845-0900	0	0	0	0	0	0	0	0 (2	3	0	0	0	0	0	0	5	41	9	1	1	0	1	0	0	53	58
Hourly																												
Total	0	0	0	0	0	0	0	0 0		25	8	1	0	0	0	0	0	34	143	34	1	2	2	2	0	0	184	218
0900-0915	0	0	0	0	0	0	0	0 (5	0	0	0	0	0	1	0	6	25	7	2	1	0	0	0	0	35	41
0915-0930	0	0	0	0	0	0	0	0 (3	1	1	0	0	0	0	0	5	28	10	1	0	0	0	0	0	39	44
0930-0945	0	0	0	0	0	0	0	0 0		5	1	1	0	0	0	0	0	7	36	10	2	0	0	0	0	0	48	55
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1615-1630	0	0	0	0	0	0	0	0 0		5	0	0	0	0	3	0	0	8	47	8	0	0	0	1	0	0	56	64
1630-1645	0	0	0	0	0	0	0	0 0	—∥ I—	7	0	0	0	0	0	0	0	7	41	10	0	1	0	1	0	0	53	60
1645-1700	0	0	0	0	0	0	0	0 0		8	1	0	0	0	0	1	0	10	52	6	2	0	0	0	0	0	60	70
	U	0	1 0	0	0	0	1 0	0 0		0		U	0	0	0	1	U	10	32	0		U	U	0	U	U	00	,
Hourly	0	0	0	0	0	0	0	0 0		27	1	0	0	0	3	1	0	32	186	37	2	1	0	2	0	0	228	260
Total 1700-1715	0	0	0	0	0	0	0	0 0	-	6	2	1	0	0	1	0	0	10	51	12	0	1	0	2	0	0	66	76
1715-1730	0	0	0	0	0	0	0	0 0		9	1	0	0	0	0	0	0	10	44	8	0	0	0	1	0	0	53	63
1730-1745	0	0		0	0	0	+	+	—∥ I—	-		0	0	0	0	0		8	53	7	0	2	1		0		63	
1745-1800	0	0	0	0	0	0	0	0 0		7	0	0	0	0	0	0	0	7	57	3	0	0	1	0	0	0	61	71 68
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1815-1830	0	0	0	0	0	0	0	0 0		8	0	0	0	0	1	0	0	9	41	8	0	0	0	0	0	0	49	58 40
1830-1845		0	0		0	0	0	0 0	—∥ ⊩	5	1	0	0	0	0	0	0	6	33	0	0	1	0	0	-		34	
1845-1900	0	0	0	0	0	0	0	0 (3	1	0	0	0	0	0	0	4	28	3	0	1	0	1	0	0	33	37
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0700-0715	6	0	0	0	0	0	3	0 9		0	0	0	0	0	0	0	0	0	16	5	0	0	0	0	1	0	22	31
0715-0730	5	1	0	0	0	0	0	0 6		0	0	0	0	0	0	0	0	0	24	7	1	0	0	1	0	0	33	39
0730-0745	5	1	0	0	0	0	1	0 7		0	0	0	0	0	0	0	0	0	19	2	0	0	0	0	0	0	21	28
0745-0800	11	2	0	0	0	0	1	0 1		0	0	0	0	0	0	0	0	0	33	7	1	0	0	0	0	0	41	55
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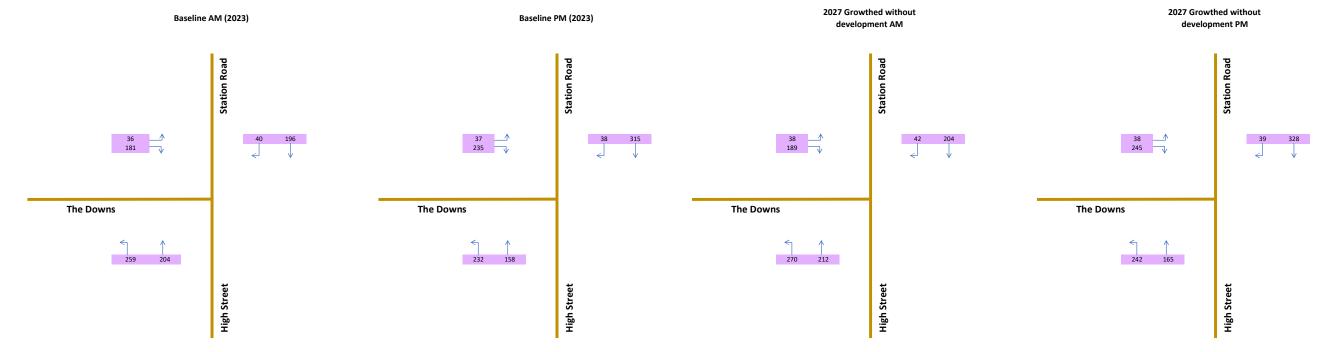
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0815-0830 12 1 1 1 0 0 0 1 0 0 15 0 0 0 0 0 0 0 0 0	57 72 53 40 180 216 43 52 31
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1615-1630 9 0 0 0 0 1 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	54 64
1630-1645 3 1 1 0 0 0 1 0 6 0 0 0 0 0 0 0 0 0 0 0 0	53 59
1645-1700 3 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 3 0	50 53
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1700-1715 3 2 0 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 0	28 33
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1730-1745	47 48 44
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1830-1845 5 0 0 0 0 0 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0	24 30
1845-1900 6 0 1 0 0 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0	30 37
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0715-0730 50 14 1 0 0 1 0 0 66 27 5 0 0 0 0 1 33 0 0 0 0 0 0 0 0 0 0 0 0 0	0 99 87
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0915-0930 30 2 1 0 0 0 1 0 34 18 3 0 0 0 0 0 0 21 0 0 0 0 0 0 0	0 55
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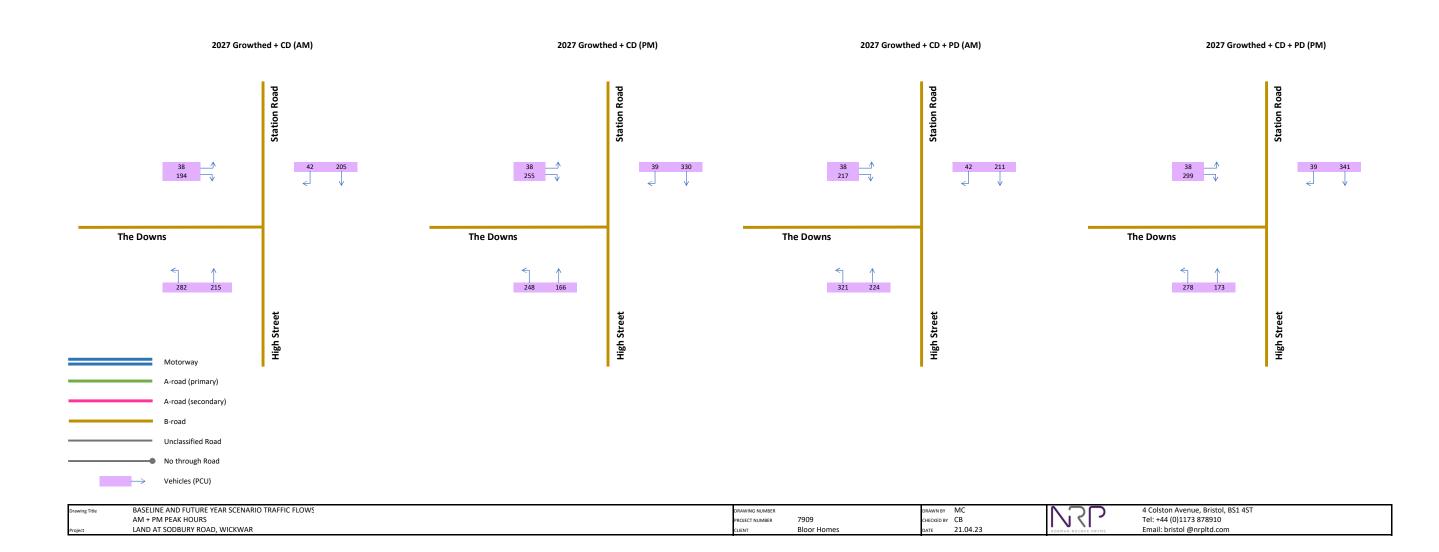
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1630-1645 48 1645-1700 48	13	1 1	0 2	0	1 3	3	2 2	68	30 35	5	1 1	0	1 0	0	1 1	7	45 43	0	0	0	0	0	0	0	0	0	113 106
Hourly Total	32	3	3	2	5	3	5	225	121	11	2	0	2	2	3	10	151	0	0	0	0	0	0	0	0	0	376
1700-1715 49 1715-1730 43	5	0	0	0	1	1	2	57 52	33 38	0	0	0	1 0	0	1	0	40 39	0	0	0	0	0	0	0	0	0	97 91
1730-1745 40 1745-1800 40	5	0	0	0	0	2	0	50 47	28 33	6 4	0	0	0	0 1	1 1	7	43 39	0	0	0	0	0	0	0	0	0	93 86
Hourly 172 Total 1800-1815 32	21	0	1	0	3	5	3	206 39	132	12	2	0	1	2	0	8	161 41	0	0	0	0	0	0	0	0	0	367 80
1815-1830 33 1830-1845 37	1 2	0	1 0	0	0	0 2	0	35 42	32	3	0	0	0	0	0	4	39 26	0	0	0	0	0	0	0	0	0	74 68
1845-1900 32 Hourly 134	8	0 1	3	0 0	0 1	0 2	5	38 154	26 111	1 11	0	0	0	0 1	0	0 10	133	0	0	0	0 0	0 0	0	0 0	0	0	65 287
Total															-								_				
3 Hour Totals 478 (pm)	61	4	7	3	9	10	13	585	364	34	4	0	3	5	7	28	445	0	0	0	0	0	0	0	0	0	1030
Day Total 988	150	19	8	5	12	14	19	1215	721	80	10	2	5	7	7	33	865	0	0	0	0	0	0	0	0	0	2080
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0700-0715 26	6	1	OGV2	PSV 1	MC	0	0	34	22	5	0	OGV2	Origin - Arm PSV 0	MC 0		Ped 0	Total 31	Car 59	15	1	OGV2	PSV 0	MC	1	_	76	Arm Total
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly 127	6 12 13 8	1 0 1	0 0 0 0	PSV 1 2 0	0 0 1	0 1 0	0 1 0	34 47 44	22 29 24	5 8 3	0 1 0	0 0 0 0	Prigin - Arm PSV 0 0 0	0 1 0	4 0 1	Ped 0 0 0 0	Total 31 39 28	Car 59 77 68	15 19 15	1 1 3	0 0 0 0	9SV 0 0 0	0 1 0	1 0 1	0 1 0	76 99 87	Arm Total 141 185 159
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 127 0800-0815 37	6 12 13 8 39	1 0 1 2 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 1 2 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MC 0 0 1 0 1 1 1 1	0 1 0 0 1	0 1 0 0 1	34 47 44 51 176	22 29 24 44 119	5 8 3 9 25	0 1 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 0 0 0 0 0 0 0 1	0 1 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0	4 0 1 1 6	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153	Car 59 77 68 103 307	15 19 15 16 65	1 1 3 2 7	0GV2 0 0 0 0 0 0	PSV 0 0 0 0 2 2 2 0 0	MC 0 1 0 0 0 1 1 1 1 1	1 0 1 0 2	0 1 0 0	76 99 87 123 385	Arm Total 141 185 159 229 714
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 127 0800-0815 37 0815-0830 44	6 12 13 8 39	1 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 1 2 0 0 0 3	MC 0 0 1 1 0 1	0 1 0 0	0 1 0 0	34 47 44 51 176	22 29 24 44 119	5 8 3 9	0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MC 0 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 0 1 1	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55	Car 59 77 68 103 307	15 19 15 16 65	1 1 3 2 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 0 2 2 2	0 1 0 0 1	1 0 1 0 2	0 1 0 0	76 99 87 123 385	Arm Total 141 185 159 229 714
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0830-0845 44 0845-0900 43	6 12 13 8 39 9	1 0 1 2 4	0GV2 0 0 0 0 0 0	PSV 1 2 0 0 0 3 3 0 1 1	MC 0 0 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1	0 1 0 0 1	34 47 44 51 176 48 56	22 29 24 44 119 44 63	5 8 3 9 25 5	0 1 0 1 2	0GV2 0 0 0 0 0 0	PSV 0 0 0 0 0 0 0 0 0 1 1 1 1	0 1 0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	4 0 1 1 6 0	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153 51 72	Car 59 77 68 103 307 106 115	15 19 15 16 65 8 9	1 1 3 2 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	PSV 0 0 0 2 2 2 0 0 0	MC 0 1 0 0 0 0 1 1 1 1 1 1 1	1 0 1 0 2	0 1 0 0 1	76 99 87 123 385 117 130	Arm Total 141 185 159 229 714 216 258
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0830-0845 44	6 12 13 8 39 9 11 10 12	1 0 1 2 4 1 0 0	0GV2 0 0 0 0 0 0	PSV 1 2 0 0 0 3 0 1 1 1 1 1	MC 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1	0 1 0 0 1 1	34 47 44 51 176 48 56 56	22 29 24 44 119 44 63 48	5 8 3 9 25 5 5	0 1 0 1 2 1 2 0	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	MC	4 0 1 1 6 0 0 0	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153 51 72 53	Car 59 77 68 103 307 106 115 56	15 19 15 16 65 8 9	1 1 3 2 7 2 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 2 2 2 2 0 0 0 2 2	MC 0 1 1 0 0 1 1 1 1 1 0 0	1 0 1 0 2 2	0 1 0 0 1 1 5	76 99 87 123 385 117 130 81	Arm Total 141 185 159 229 714 216 258 190
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0845-0900 43 Hourly Total 168 0900-0915 30	6 12 13 8 39 9 11 10 12 42	1 0 1 2 4 1 0 0 0 1 2	0GV2 0 0 0 0 0 0 1 1 2	PSV	MC 0 0 1 0 1 0 1 2 0	0 1 0 0 0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 0 0	34 47 44 51 176 48 56 56 56 58 218	22 29 24 44 119 44 63 48 31 186	5 8 3 9 25 5 5 4 6 20	0 1 0 1 2 1 2 0 3 6	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prigin - Arm PSV 0 0 0 0 0 0 1 1 1 0 2	0 1 0 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0	4 0 1 1 6 0 0 0 1 0 1	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153 51 72 53 40 216	Car 59 77 68 103 307 106 115 56 89 366	15 19 15 16 65 8 9 15 5 37	1 1 3 2 7 2 3 3 1 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 2 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 1 1 1 1 3	1 0 1 0 2 0 0 0 0 0	0 0 0 1 0 1 5 2	76 99 87 123 385 117 130 81 100 428	Arm Total 141 185 159 229 714 216 258 190 198 862
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0845-0900 43 Hourly Total 168	6 12 13 8 39 9 11 10 12	1 0 1 2 4 1 0 0 0 1	0GV2 0 0 0 0 0 0 1 1 2	PSV 1 2 0 0 0 3 3 0 1 1 1 0 0 2	MC 0 0 1 0 1 0 1 2	0 1 0 0 1 0 0 0 0 0	0 1 0 0 1 1 0 0 0 0 0 0	34 47 44 51 176 48 56 56 58 218	22 29 24 44 119 44 63 48 31 186	5 8 3 9 25 5 5 4 6	0 1 0 1 2 1 2 0 3	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 1 1 0 1 1 0 1	4 0 1 1 6 0 0 0 1	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153 51 72 53 40 216	Car 59 77 68 103 307 106 115 56 89 366	15 19 15 16 65 8 9 15 5	1 1 3 2 7 2 3 3 1 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSV 0 0 0 2 2 2 0 0 2 2 0 2 2	MC 0 1 0 0 1 1 1 1 1 1 3	1 0 1 0 2 0 0 0 0 0	0 1 0 0 1 5 2	76 99 87 123 385 117 130 81 100	Arm Total 141 185 159 229 714 216 258 190 198
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0830-0845 44 0845-0900 43 Hourly Total 0900-0915 30 0915-0930 31 0930-0945 41 0945-1000 34	6 12 13 8 39 9 11 10 12 42	1 0 1 2 4 1 0 0 1 2	0GV2 0 0 0 0 0 0 1 1 2	PSV	MC 0 0 1 0 1 1 0 0 1 2 0 0	0 1 0 0 0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 0 0 0	34 47 44 51 176 48 56 56 58 218 41 44 55 40	22 29 24 44 119 44 63 48 31 186 43 23 26 28	5 8 3 9 25 5 5 4 6 20 5	0 1 0 1 2 1 2 0 3 6	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prigin - Arm PSV 0 0 0 0 0 0 1 1 1 0 2 0	0 1 0 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	4 0 1 1 6 0 0 0 1 0 1	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 2	Total 31 39 28 55 153 51 72 53 40 216 52 31 34 30	Car 59 77 68 103 307 106 115 56 89 366 54	15 19 15 16 65 8 9 15 5 37	1 1 3 2 7 2 3 3 1 9	0GV2 0 0 0 0 0 1 0 2 3 0 0	PSV 0 0 0 2 2 0 0 2 2 0 0 0 0 0 0 0 0 0 0	MC 0 1 0 0 1 1 1 1 1 3 0 0 0 0 0 0 0 0 0	1 0 1 0 2 0 0 0 0 0 0	0 0 0 1 0 1 5 2 8	76 99 87 123 385 117 130 81 100 428 68 55	Arm Total 141 185 159 229 714 216 258 190 198 862 161 130 151 122
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0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0830-0845 44 0845-0900 43 Hourly Total 0900-0915 30 0915-0930 31 0930-0945 41 0945-1000 34 Hourly 136	6 12 13 8 8 39 9 11 10 12 42 7 11 11 4 33	1 0 1 2 4 1 0 0 0 1 1 2 2 2 2 3 0 0	0GV2 0 0 0 0 0 0 1 1 1 0 0 0 0	PSV	MC 0 0 1 1 0 0 1 1 2 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 0 0	34 47 44 51 176 48 56 56 58 218 41 44 55 40	22 29 24 44 119 44 63 48 31 186 43 23 26 28	5 8 3 9 25 5 5 4 6 20 5 6 7	0 1 0 1 2 1 2 0 3 6	OGV2	PSV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MC	4 0 1 1 6 0 0 1 0 1 0 0 0 0	Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 31 39 28 55 153 51 72 53 40 216 52 31 34 30	Car 59 77 68 103 307 106 115 56 89 366 54 48 51 41	15 19 15 16 65 8 9 15 5 37 11 5 9	1 1 3 2 7 2 3 3 3 1 9 1 1 1 1 1 2	0 O O O O O O O O O O O O O O O O O O O	PSV 0 0 0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	MC 0 1 1 1 1 1 1 1 1 1	1 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 1 5 2 8 2 0 0	76 99 87 123 385 117 130 81 100 428 68 55 62 52	Arm Total 141 185 159 229 714 216 258 190 198 862 161 130 151 122
0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0830-0845 44 0845-0900 43 Hourly Total 0900-0915 30 0915-0930 31 0930-0945 41 0945-1000 34 Hourly Total 3 Hour Totals 431 (am)	6 12 13 8 8 39 9 11 10 12 42 7 11 11 4 33	1 0 1 2 4 1 0 0 0 1 1 2 2 2 2 3 0 7 13	0GV2 0 0 0 0 0 0 1 1 1 3	PSV	MC 0 0 1 0 1 1 0 0 1 2 0 0 0 0 3	0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 2	0 1 0 0 0 0 0 0 0 0 0 0 0 0 1	34 47 44 51 176 48 56 56 58 218 41 44 55 40 180	22 29 24 44 119 44 63 48 31 186 43 23 26 28 120	5 8 3 9 25 5 5 4 6 20 5 6 7 2 20	0 1 0 1 2 1 2 0 3 6 2 0 1 0 3	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prigin - Arm PSV 0 0 0 0 0 0 1 1 1 0 0 2 2 0 0 2 4	MC	4 0 1 1 6 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	Ped 0 0 0 0 0 0 0 0 0 0 2 0 2 2	Total 31 39 28 55 153 51 72 53 40 216 52 31 34 30 147	Car 59 77 68 103 307 106 115 56 89 366 54 48 51 41 194	15 19 15 16 65 8 9 15 5 37 11 5 9 8	1 1 3 2 7 2 3 3 1 9 1 1 1 1 2 5	OGV2 0 0 0 0 0 1 0 2 3 0 0 0 0 3	PSV 0 0 0 0 2 2 0 0 0 0 0 0 0 0 4	MC 0 1 1 1 1 5 1	1 0 1 0 2 0 0 0 0 0 0 0 1 1 1 0 2	0 1 0 0 1 1 5 2 8 2 0 0 0 2	76 99 87 123 385 117 130 81 100 428 68 55 62 52 237	Arm Total 141 185 159 229 714 216 258 190 198 862 161 130 151 122 564 2140
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0700-0715 26 0715-0730 31 0730-0745 29 0745-0800 41 Hourly Total 0800-0815 37 0815-0830 44 0845-0900 43 Hourly Total 0900-0915 30 0915-0930 31 0930-0945 41 0945-1000 34 Hourly Total 3 Hourly Total 136 3 Hour Totals (am)	6 12 13 8 8 39 9 11 10 12 42 7 11 11 4 33	1 0 1 2 4 1 0 0 0 1 1 2 2 2 2 3 0 7 13	0GV2 0 0 0 0 0 0 1 1 1 3	PSV	MC 0 0 1 0 1 1 0 0 1 2 0 0 0 0 3	0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 2	0 1 0 0 0 0 0 0 0 0 0 0 0 0 1	34 47 44 51 176 48 56 56 58 218 41 44 55 40 180	22 29 24 44 119 44 63 48 31 186 43 23 26 28 120	5 8 3 9 25 5 5 4 6 20 5 6 7 2 20	0 1 0 1 2 1 2 0 3 6 2 0 1 0 3	0GV2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prigin - Arm PSV 0 0 0 0 0 0 1 1 1 0 0 2 2 0 0 2 4	MC	4 0 1 1 6 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	Ped 0 0 0 0 0 0 0 0 0 0 2 0 2 2	Total 31 39 28 55 153 51 72 53 40 216 52 31 34 30 147	Car 59 77 68 103 307 106 115 56 89 366 54 48 51 41 194	15 19 15 16 65 8 9 15 5 37 11 5 9 8	1 1 3 2 7 2 3 3 1 9 1 1 1 1 2 5	OGV2 0 0 0 0 0 1 0 2 3 0 0 0 0 3	PSV 0 0 0 0 2 2 0 0 0 0 0 0 0 0 4	MC 0 1 1 1 1 5 1	1 0 1 0 2 0 0 0 0 0 0 0 1 1 1 0 2	0 1 0 0 1 1 5 2 8 2 0 0 0 2	76 99 87 123 385 117 130 81 100 428 68 55 62 52 237	Arm Total 141 185 159 229 714 216 258 190 198 862 161 130 151 122 564 2140

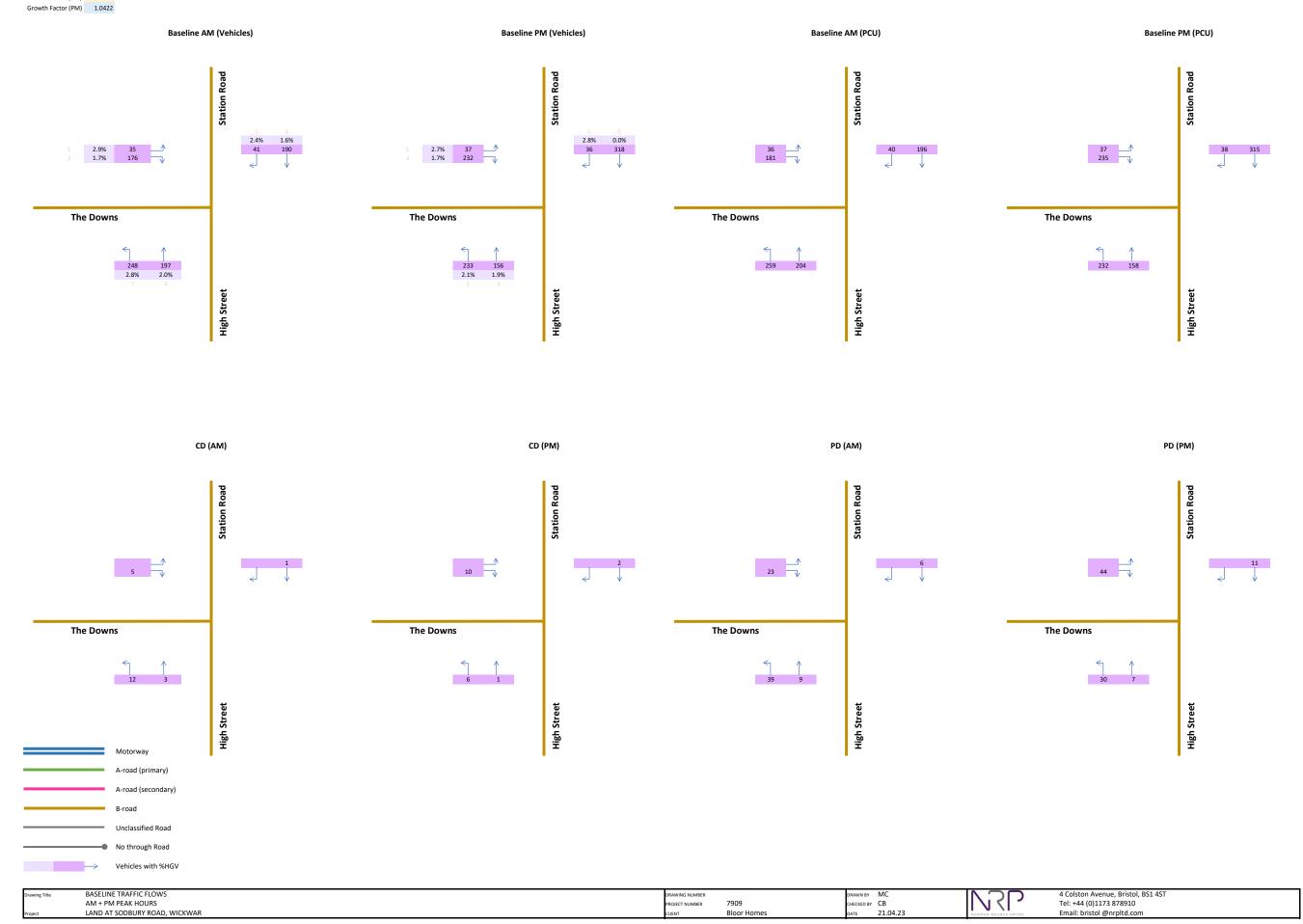
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Total 1800-1815 63 1815-1830 49 1830-1845 38 1845-1900 31 Hourly Total 181	33 8 1 4	1 0 0 0 0 1	3 0 0 1 1 2	0 0 0 0 0	0 1 0 1 2	0 0 0 0 0	0 0 0 0	278 67 58 40 37 202	28 30 26 33 117	3 4 3 1	0 0 0 0 1	0 0 0 0	0 1 0 0 0	2 0 0 0	0 1 0 0	0 4 1 2	183 34 39 30 37 140	63 65 59 58 245	8 4 5 2 19	1 0 0 0	1 1 1 0 1	0 0 0 0 0	5 2 0 0 0 0	0 0 2 0	5 4 2 4 15	80 74 68 65 287	181 171 138 139
3 Hour Totals 629 (pm)	87	4	6	2	11	1	0	740	471	59	4	0	2	9	4	17	566	842	95	8	7	6	14	17	41	1030	2336
Day Total 1060	201	17	9	7	14	4	2	1314	896	124	15	0	6	11	11	19	1082	1709	230	29	10	10	19	21	52	2080	4476
Car	LGV	OGV1	OGV2	tination - A	rm A MC	PC	Ped	Total	Car	LGV	OGV1	OGV2	stination - A	MC MC	PC	Ped	Total	Car	LGV	OGV1	OGV2	ination - Ar PSV	m C MC	PC	Ped	Total	Arm Total
0700-0715 48	11	1	0	0	0	4	0	64	19	4	0	0	0	0	0	0	23	40	11	1	0	1	0	1	0	54	141
0715-0730 55	15	1	0	0	1	0	0	72	29	6	0	0	2	0	1	2	40	53	18	1	0	0	1	0	0	73	185
0730-0745 48	11	3	0	0	0	2	0	64	29	6	0	0	0	1	0	0	36	69	14	1	0	0	0	0	0	59 86	159
0745-0800 63 Hourly	14	1	0	1	0	1	0	80	57	4	1	0	1	0	0	0	63	68	15	3	0	0	0	0	0	86	229
Total 214	51	6	0	1	1	7	0	280	134	20	1	0	3	1	1	2	162	205	58	6	0	1	1	1	0	272	714
0800-0815 49	6	2	0	0	1	0	0	58	65	5	1	0	0	0	0	0	71	73	11	1	0	1	1	0	0	87	216
0815-0830 79	6	4	1	0	1	0	0	91	59	5	0	0	0	1	0	1	66	84	14	1	0	2	0	0	0	101	258
0830-0845 47 0845-0900 55	11 5	0 4	0	0	0	0	2	62 66	22 40	7 5	3	0 2	0	0	0	3	36 48	79 68	11 13	0	1 1	0	0	0	0	92 84	190 198
Hourly																					İ			_			
Total 230	28	10	1	1	2	1	4	277	186	22	4	2	1	2	0	4	221	304	49	3	2	4	2	0	0	364	862
0900-0915 44	8	2	0	0	0	0	2	56	22	4	0	0	0	0	1	0	27	61	11	3	1	2	0	0	0	78	161
0915-0930 31 0930-0945 32	5 6	0	0	0	0	1	0	39 39	21 26	<u>4</u> 5	2	0	0	0	0	0	26 33	50 60	13 16	3	0	0	0	0	0	65 79	130 151
0930-0943 32	5	1	0	0	1	0	0	32	24	4	1	0	0	0	1	1	31	54	5	0	0	0	0	0	0	59	122
Hourly Total	24	4	0	0	1	2	3	166	93	17	4	0	0	0	2	1	117	225	45	7	1	2	0	0	1	281	564
3 Hour Totals 576 (am)	103	20	1	2	4	10	7	723	413	59	9	2	4	3	3	7	500	734	152	16	3	7	3	1	1	917	2140
1600-1615 46 1615-1630 47	7	0	0	1	2	0	1	56 58	33	2	0	0	0	4	0	0	35	95	21	0	0	0	0	0	0	116	207
1615-1630 47 1630-1645 51	14	2	0	0	1	0 4	0 2	58 74	35 37	5	0	0	1	0	1	7	43 52	94 86	13 18	0	1	0	3	0	0	110 106	211
1645-1700 51	7	1	2	0	3	0	2	66	43	4	1	0	0	0	2	3	53	93	10	2	0	0	3	0	2	110	229
Hourly Total 195	34	4	3	3	6	4	5	254	148	12	2	0	2	5	4	10	183	368	62	2	1	0	7	0	2	442	879
1700-1715 52	6	0	0	0	1	1	2	62	39	4	2	0	1	2	1	1	50	75	15	0	1	0	3	0	0	94	206
1715-1730 50 1730-1745 40	6 8	0	0	0	1	1	0	60 51	47 36	<u>1</u> 6	0	0	0	0	1	7	49 51	86 92	14 14	0	0 2	0	0	0	0	103 110	212 212
1745-1800 42	5	1	0	0	0	2	0	50	40	4	0	0	0	1	1	0	46	89	4	0	0	1	0	1	7	102	198
Hourly Total	25	1	1	1	3	5	3	223	162	15	3	0	1	3	4	8	196	342	47	1	3	2	4	2	8	409	828
1800-1815 36	4	1	1	1	2	0	0	45	41	4	0	0	0	1	0	5	51	77	6	1	0	0	1	0	0	85	181
1815-1830 39	2	0	1	0	0	1	3	46	40	3	0	0	0	1	0	4	48	65	11	0	0	0	0	0	1	77	171
1830-1845 42 1845-1900 38	1	0	0	0	0	0	2	48 45	27 29	2	0	0	0	0	0	0	32 31	54 55	3 4	0	1 1	0	0	0	2	58 63	138 139
Hourly																											
Total 155	9	2	3	1	2	3	9	184	137	13	0	0	0	2	0	10	162	251	24	1	2	0	2	0	3	283	629

3 Hour Totals (pm)	534	68	7	7	5	11	12	17	661	447	40	5	0	3	10	8	28	541	961	133	4	6	2	13	2	13	1134	2336
Day Total	1110	171	27	8	7	15	22	24	1384	860	99	14	2	7	13	11	35	1041	1695	285	20	9	9	16	3	14	2051	4476

APPENDIX B: TRAFFIC FLOW DIAGRAMS



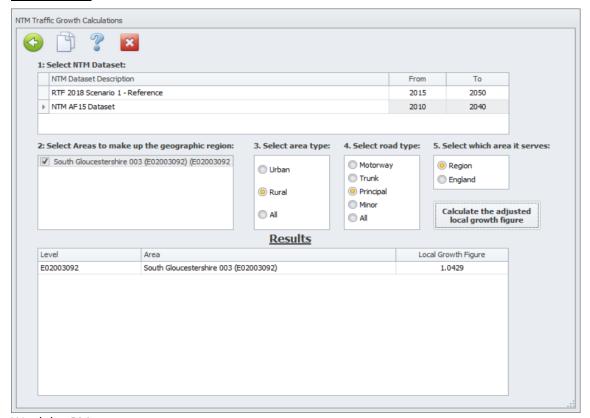




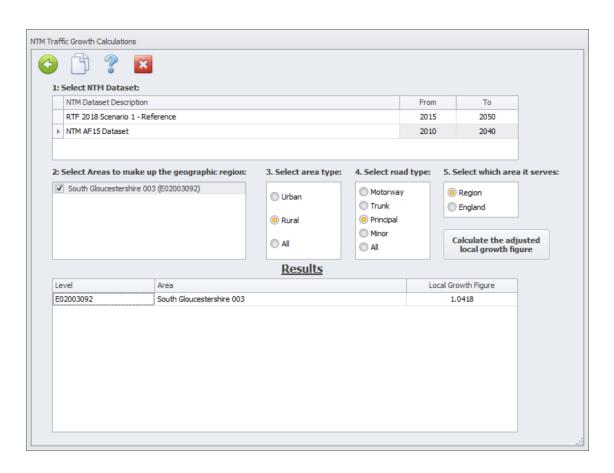
APPENDIX C: GROWTH FACTORS

NTM Traffic Growth Calcs

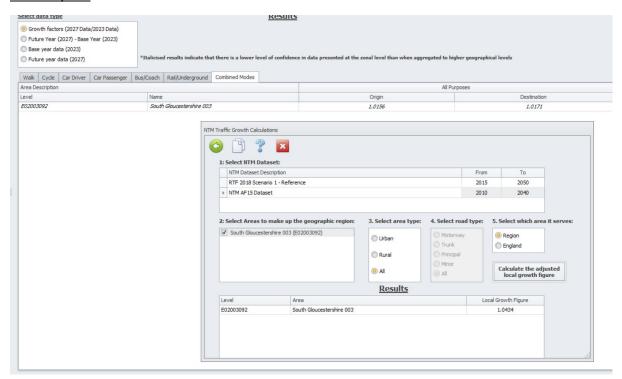
Weekday AM



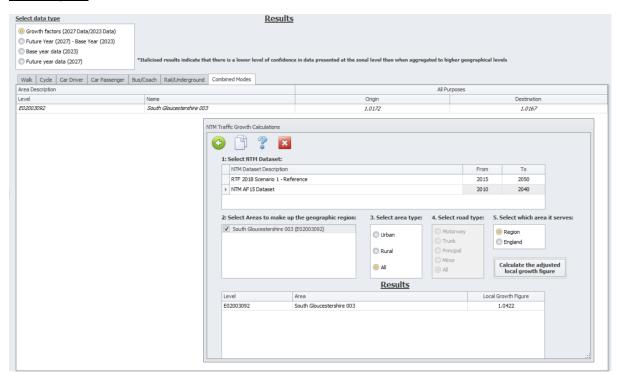
Weekday PM



Weekday AM



Weekday PM



APPENDIX D: SATURATION FLOWS

		0.2	0.4	1	1	1.5	2	2.3		
Time Period	Time (s)	P Cycles	M Cycles	Cars/Van	LGV	MGV	Bus	HGV	PCU	Sat Flow
42:33-42:47	14			4		2			7	1800
43:41-44:19	38			12	1				13	1232
45:38-45:49	11			4	1				5	1636
47:00-47:30	30			11	1				12	1440
48:20-48:31	11		3	4					5.2	1702
50-12-50:48	36	1	1	11		1			13.1	1310
52-05-52:44	39			13	2				15	1385
53-46-54:25	40			16	1				17	1530
55:30-56:18	48			13	1	1			15.5	1163
57-26-58:01	35			10	2			1	14.3	1471
58:48-59:32	44			14	1			1	17.3	1415
00:35-00:51	16			6	1				7	1575
01:53 - 02:12	19			6	3				9	1705
03:16 - 03:29	13			5					5	1385
04:36 - 04:43	7			3					3	1543
05:38 - 05:58	20			6	2				8	1440
07:15 - 07:27	12		1	4	1				5.4	1620
08:42 - 09:13	31			7	2			1	11.3	1312
10:07 - 10:56	50			14	4			1	20.3	1462
11:55 - 12:09	14		1	4	1				5.4	1389
12:56 - 13:11	15			6					6	1440
14:24 -14:44	20		1	8					8.4	1512
15:37 - 16:06	29			10	2				12	1490
17:02 - 17:06	4			2					2	1800
17:52 - 18:11	19			8	1				9	1705
19:15- 19:46	31			9	3				12	1394
21:05 - 21:44	39		1	14	1				15.4	1422
22:44 - 23:00	16			7	1				8	1800
24:00 - 24:03	3			1					1	1200
24:48 - 24:53	5			1	1				2	1440
26:08 - 26:18	10			5					5	1800
27:37 - 28:16	39			14	3				17	1569
29:19 - 29:49	30			10	3				13	1560
30:58 - 31:25	27			6	1	1	1		10.5	1400
32:14-32:28	14			4	1				5	1286
33-08-33:39	31			12	1				13	1510
34:33-34:57	23			6	1	2		1	12.3	1925
36-14-36:45	31			12	1				13	1510
37-48-38:20	32			10	3				13	1463
39:22-39:39	17			7	1				8	1694
40:49-41:07	18			8					8	1600
41-53-42:20	27			8	2				10	1333
43-18-46	28			7	2			1	11.3	1453

		0.2	0.4	1	1	1.5	2	2.3		
Time Period	Time (s)	P Cycles	M Cycles	Cars/Van	LGV	MGV	Bus	HGV	PCU	Sat Flow
45:47 - 46:00	13			2	1				3	831
47:00 - 47:22	22			7	1			1	10.3	1685
48:06 - 48:25	19			10					10	1895
49:40 - 49:58	18			6	2				8	1600
50:56 - 51:11	15			5	2				7	1680
52:23 - 52:50	17			6	1			1	9.3	1969
53:59 - 54:24	25			8	1	1			10.5	1512
55:45 - 56:10	25			9	2				11	1584
57:27 - 57:46	19			6	3				9	1705
59:06 - 59:20	14			4	1				5	1286
00:00 - 00:13	13			3	1				4	1108
01:30 - 01:38	8			4					4	1800
02:27 - 02:41	14			5	1				6	1543
03:27 - 03:57	30			11	2				13	1560
05:23 - 05:42	19			5	2				7	1326
06:47 - 07:19	32			12	2				14	1575
08:30 - 08:49	19			4	1				5	947
10:00 - 10:24	24			8	2				10	1500
11:37 - 12:00	23			8	2				10	1565
12:57 - 13:28	31		1	10	1		1		13.4	1556
14:14 - 14:17	3					1			1.5	1800
15:42 - 16:06	24			5	2				7	1050
17:17 - 17:56	39			11	2	2			16	1477
19:05 -19:44	39			11	2		1		15	1385
20:53 - 21:12	19			6	1		1		9	1705
22:27 - 22:41	14			4	3				7	1800
23:57 - 24:33	36			12	2				14	1400
25:46 - 25:56	10			3	1				4	1440
27:19 - 27:58	39			15	2				17	1569
29:08 - 29:47	39			10	3	1			14.5	1338
31:08 - 31:47	39			9	2				11	1015
32:56 - 33:26	30			11	2				13	1560
34:23 - 34:37	14			5	1				6	1543
35:30 - 36:06	36			10	3		1		15	1500
37:01 - 37:09	8			4					4	1800
38:07 - 38:12	5			2					2	1440
39:01 - 39:22	21			8	1				9	1543
40:20 - 40:34	14			6	1				7	1800
41:27 - 41:36	9			4					4	1600
41:50 - 41:55	5			2					2	1440
42:38 - 42:50	12			3				1	5.3	1590
43:44 - 43:57	13			3	1				4	1108
44:53 - 45:22	29			10	2				12	1490

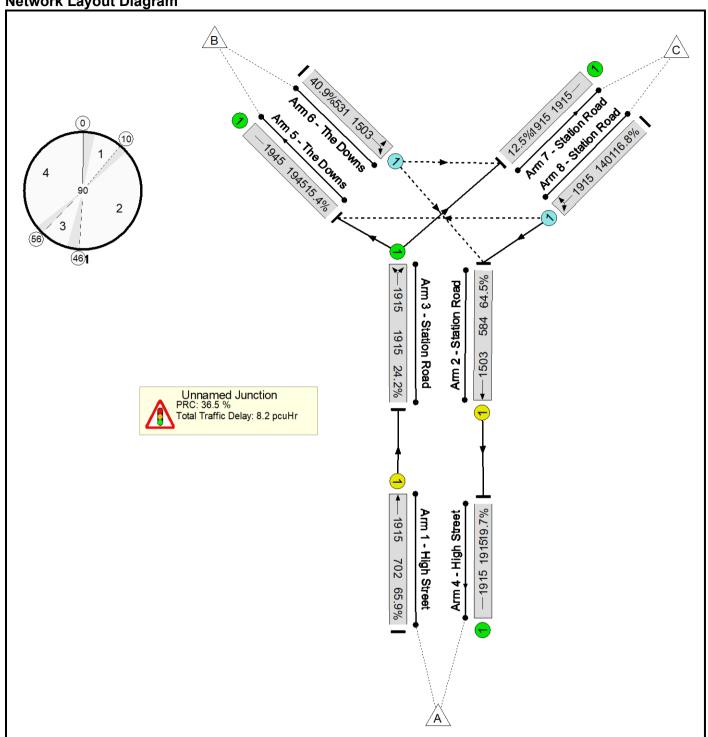
APPENDIX E: MODELLING RESULTS

Basic Results Summary Basic Results Summary

User and Project Details

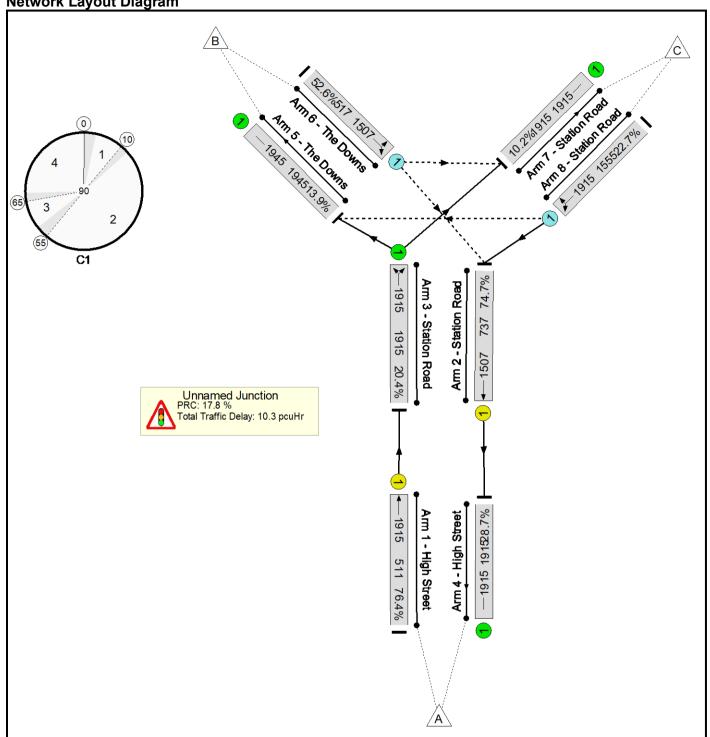
osci alia i roject be	
Project:	Wickwar
Title:	High Street (B4060)
Location:	
Additional detail:	
File name:	High Street Shuttle Signals - Wickwar V2 (unvalidated).lsg3x
Author:	
Company:	
Address:	

Scenario 1: 'AM Flows' (FG1: 'Baseline AM Flows', Plan 1: 'Network Control Plan 1') Network Layout Diagram



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: High Street (B4060)	-	-	-		-	-	-	-	-	-	65.9%	257	0	0	8.2	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	65.9%	257	0	0	8.2	-	-
1/1	High Street Ahead	U	В		1	32	-	463	1915	702	65.9%	-	-	-	4.0	31.3	10.6
2/1	Station Road Ahead	U	А		1	34	-	377	1503	584	64.5%	-	-	-	3.3	31.0	8.5
3/1	Station Road Ahead Right	U	-		-	-	-	463	1915	1915	24.2%	-	-	-	0.2	1.2	0.2
4/1	High Street	U	-		-	-	-	377	1915	1915	19.7%	-	-	-	0.1	1.2	0.1
5/1	The Downs	U	-		-	-	-	299	1945	1945	15.4%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	217	1503	531	40.9%	217	0	0	0.3	5.7	0.3
7/1	Station Road	U	-		-	-	-	240	1915	1915	12.5%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	236	1915	1401	16.8%	40	0	0	0.1	1.5	0.1
	-		C1		C for Signalle PRC Over All					Signalled Lan			Cycle Time (s)	: 90	<u>-</u>	<u>-</u>	

Network Layout Diagram



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: High Street (B4060)	-	-	-		-	-	-	-	-	-	76.4%	310	0	0	10.3	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	76.4%	310	0	0	10.3	-	-
1/1	High Street Ahead	U	В		1	23	-	390	1915	511	76.4%	-	-	-	4.9	44.9	10.5
2/1	Station Road Ahead	U	А		1	43	-	550	1507	737	74.7%	-	-	-	4.3	28.0	12.4
3/1	Station Road Ahead Right	U	-		-	-	-	390	1915	1915	20.4%	-	-	-	0.1	1.2	0.1
4/1	High Street	U	-		-	-	-	550	1915	1915	28.7%	-	-	-	0.2	1.3	0.2
5/1	The Downs	U	-		-	-	-	270	1945	1945	13.9%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	272	1507	517	52.6%	272	0	0	0.6	7.3	0.6
7/1	Station Road	U	-		-	-	-	195	1915	1915	10.2%	-	-	-	0.1	1.0	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	353	1915	1555	22.7%	38	0	0	0.1	1.5	0.1
	-		C1		C for Signalle PRC Over All					Signalled Lan			Cycle Time (s)	: 90	<u>-</u>	-	

Basic Results Summary Scenario 3: '2027 + CD + PD (AM)' (FG3: '2027 + CD + PD (AM)', Plan 1: 'Network Control Plan 1') **Network Layout Diagram** HI Safahir Road (10) 2 <u>(45)</u> **≯**—1915 75.4% Arm 3 - Station Road Arm 2 - Station Road 568 1915 ---1503 28.5% Unnamed Junction PRC: 19.4 % Total Traffic Delay: 10.7 pcuHr

1915

723 75.3%

Arm 1 - High Street

-1915 19152.3%

Arm 4 - High Street

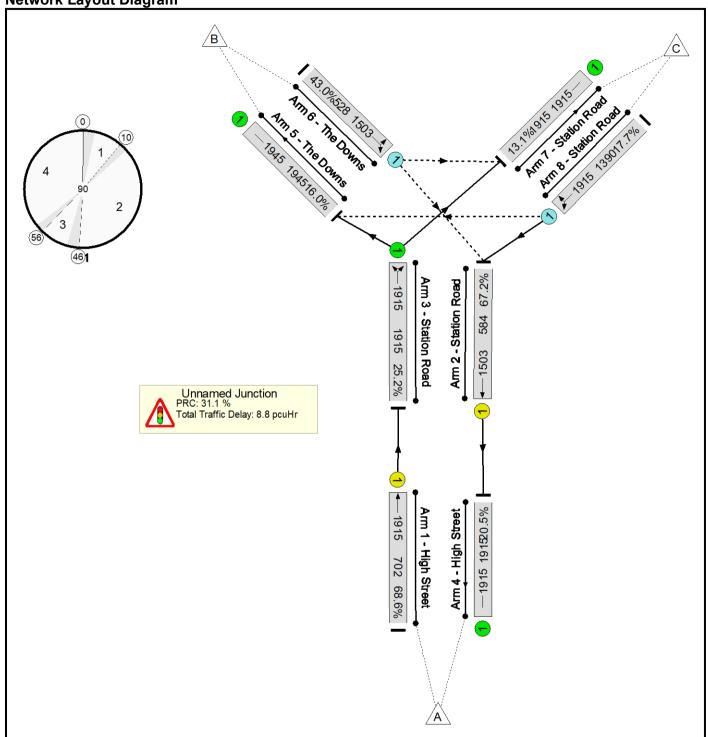
Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: High Street (B4060)	-	-	-		-	-	-	-	-	-	75.4%	297	0	0	10.7	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	75.4%	297	0	0	10.7	-	-
1/1	High Street Ahead	U	В		1	33	-	545	1915	723	75.3%	-	-	-	5.2	34.3	13.3
2/1	Station Road Ahead	U	А		1	33	-	428	1503	568	75.4%	-	-	-	4.4	37.0	10.8
3/1	Station Road Ahead Right	U	-		-	-	-	545	1915	1915	28.5%	-	-	-	0.2	1.3	0.2
4/1	High Street	U	-		-	-	-	428	1915	1915	22.3%	-	-	-	0.1	1.2	0.1
5/1	The Downs	U	-		-	-	-	363	1945	1945	18.7%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	255	1503	521	48.9%	255	0	0	0.5	6.7	0.5
7/1	Station Road	U	-		-	-	-	262	1915	1915	13.7%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	253	1915	1370	18.5%	42	0	0	0.1	1.6	0.1
			C1		C for Signalle PRC Over All					Signalled Lan			Cycle Time (s)	: 90		-	

Scenario 4: '2027 + CD + PD (PM)' (FG4: '2027 + CD + PD (PM)', Plan 1: 'Network Control Plan 1') **Network Layout Diagram** LILL Safeth Road 65 3 C1 **≥**1915 %6.98 Arm 3 - Station Road Arm 2 - Station Road 737 1915 ---1507 23.6% Unnamed Junction
PRC: 1.9 %
Total Traffic Delay: 15.8 pcuHr 1915 -191519153.4%Arm 1 - High Street Arm 4 - High Street 511 88.3%

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: High Street (B4060)	-	-	-		-	-	-	-	-	-	88.3%	376	0	0	15.8	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	88.3%	376	0	0	15.8	-	-
1/1	High Street Ahead	U	В		1	23	-	451	1915	511	88.3%	-	-	-	7.4	58.7	14.2
2/1	Station Road Ahead	U	А		1	43	-	640	1507	737	86.9%	-	-	-	6.7	37.9	17.2
3/1	Station Road Ahead Right	U	-		-	-	-	451	1915	1915	23.6%	-	-	-	0.2	1.2	0.2
4/1	High Street	U	-		-	-	-	640	1915	1915	33.4%	-	-	-	0.3	1.4	0.3
5/1	The Downs	U	-		-	-	-	317	1945	1945	16.3%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	337	1507	505	66.7%	337	0	0	1.0	10.6	1.0
7/1	Station Road	U	-		-	-	-	211	1915	1915	11.0%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	380	1915	1541	24.7%	39	0	0	0.2	1.5	0.2
			C1		C for Signalle PRC Over All					Signalled Lan			Cycle Time (s)): 90			

Scenario 5: '2027 without development (AM) ' (FG5: '2027 without development (AM)', Plan 1: 'Network Control Plan 1')

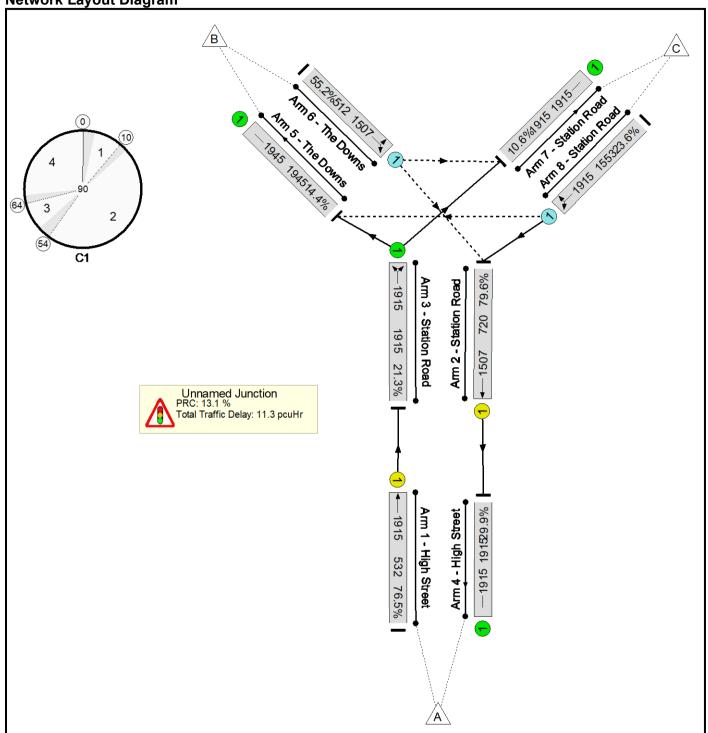
Network Layout Diagram



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: High Street (B4060)	-	-	-		-	-	-	-	-	-	68.6%	269	0	0	8.8	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	68.6%	269	0	0	8.8	-	-
1/1	High Street Ahead	U	В		1	32	-	482	1915	702	68.6%	-	-	-	4.3	32.2	11.3
2/1	Station Road Ahead	U	Α		1	34	-	393	1503	584	67.2%	-	-	-	3.5	32.1	9.1
3/1	Station Road Ahead Right	U	-		-	-	-	482	1915	1915	25.2%	-	-	-	0.2	1.3	0.2
4/1	High Street	U	-		-	-	-	393	1915	1915	20.5%	-	-	-	0.1	1.2	0.1
5/1	The Downs	U	-		-	-	-	312	1945	1945	16.0%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	227	1503	528	43.0%	227	0	0	0.4	6.0	0.4
7/1	Station Road	U	-		-	-	-	250	1915	1915	13.1%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	246	1915	1390	17.7%	42	0	0	0.1	1.6	0.1
		•	C1		C for Signalle PRC Over All					Signalled Lan ay Over All Lar			Cycle Time (s)): 90		•	

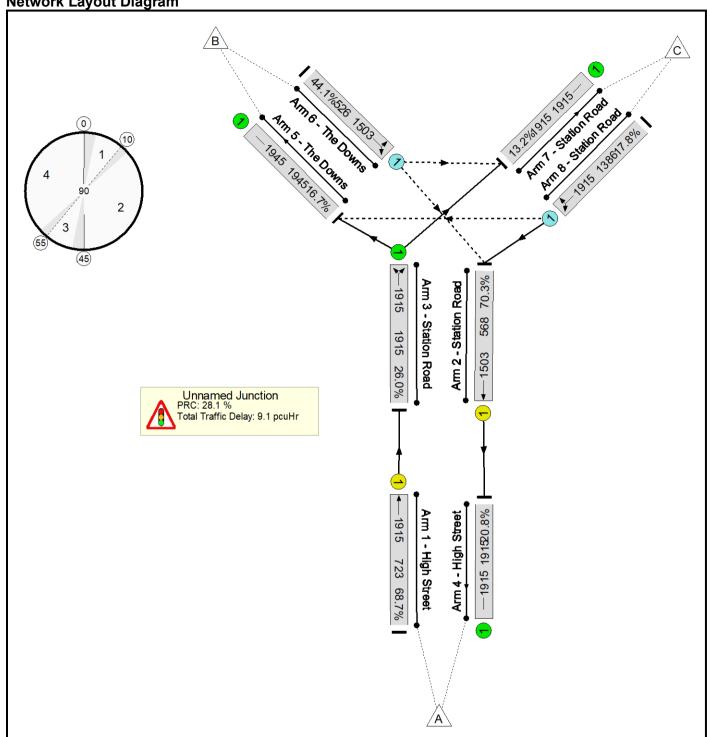
Scenario 6: '2027 without development (PM)' (FG6: '2027 without development (PM)', Plan 1: 'Network Control Plan 1')

Network Layout Diagram



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: High Street (B4060)	-	-	-		-	-	-	-	-	-	79.6%	322	0	0	11.3	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	79.6%	322	0	0	11.3	-	-
1/1	High Street Ahead	U	В		1	24	-	407	1915	532	76.5%	-	-	-	5.0	43.9	10.9
2/1	Station Road Ahead	U	А		1	42	-	573	1507	720	79.6%	-	-	-	5.1	31.7	13.8
3/1	Station Road Ahead Right	U	-		-	-	-	407	1915	1915	21.3%	-	-	-	0.1	1.2	0.1
4/1	High Street	U	-		-	-	-	573	1915	1915	29.9%	-	-	-	0.2	1.3	0.2
5/1	The Downs	U	-		-	-	-	281	1945	1945	14.4%	-	-	-	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	283	1507	512	55.2%	283	0	0	0.6	7.8	0.6
7/1	Station Road	U	-		-	-	-	203	1915	1915	10.6%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	367	1915	1553	23.6%	39	0	0	0.2	1.5	0.2
		_	C1		ofor Signalle PRC Over Al					Signalled Lan ay Over All Lar			Cycle Time (s)	: 90		-	

Network Layout Diagram



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: High Street (B4060)	-	-	-		-	-	-	-	-	-	70.3%	274	0	0	9.1	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	70.3%	274	0	0	9.1	-	-
1/1	High Street Ahead	U	В		1	33	-	497	1915	723	68.7%	-	-	-	4.3	31.4	11.4
2/1	Station Road Ahead	U	Α		1	33	-	399	1503	568	70.3%	1	-	•	3.8	34.2	9.6
3/1	Station Road Ahead Right	U	-		-	-	-	497	1915	1915	26.0%	1	-		0.2	1.3	0.2
4/1	High Street	U	-		-	-	-	399	1915	1915	20.8%	-	-	-	0.1	1.2	0.1
5/1	The Downs	U	-		-	-	-	324	1945	1945	16.7%	1	-	1	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	232	1503	526	44.1%	232	0	0	0.4	6.1	0.4
7/1	Station Road	U	-		-	-	-	253	1915	1915	13.2%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	247	1915	1386	17.8%	42	0	0	0.1	1.6	0.1
			C1		C for Signalle PRC Over All					Signalled Lan y Over All Lar			Cycle Time (s)	: 90			

Scenario 8: '2027 + CD (PM)' (FG8: '2027 + CD (PM)', Plan 1: 'Network Control Plan 1') **Network Layout Diagram** Arri A. S. Stater Rose 65 3 C1 **≥**1915 79.4% Arm 3 - Station Road Arm 2 - Station Road 737 1915 ---1507 21.6% Unnamed Junction PRC: 11.0 % Total Traffic Delay: 11.9 pcuHr 1915 -1915 19150.5% Arm 1 - High Street Arm 4 - High Street 511 81.1%

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: High Street (B4060)	-	-	-		-	-	-	-	-	-	81.1%	332	0	0	11.9	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	81.1%	332	0	0	11.9	-	-
1/1	High Street Ahead	U	В		1	23	-	414	1915	511	81.1%	-	-	-	5.6	48.7	11.7
2/1	Station Road Ahead	U	Α		1	43	-	585	1507	737	79.4%	-	-	-	5.0	30.8	14.1
3/1	Station Road Ahead Right	U	-		-	-	-	414	1915	1915	21.6%	-	-		0.1	1.2	0.1
4/1	High Street	U	-		-	-	-	585	1915	1915	30.5%	-	-	-	0.2	1.4	0.2
5/1	The Downs	U	-		-	-	-	287	1945	1945	14.8%	-	-	1	0.1	1.1	0.1
6/1	The Downs Right Left	0	-		-	-	-	293	1507	511	57.3%	293	0	0	0.7	8.2	0.7
7/1	Station Road	U	-		-	-	-	204	1915	1915	10.7%	-	-	-	0.1	1.1	0.1
8/1	Station Road Ahead Right	0	-		-	-	-	369	1915	1550	23.8%	39	0	0	0.2	1.5	0.2
			C1		C for Signalle PRC Over All					Signalled Lan y Over All Lar			Cycle Time (s)	: 90			