

A259/B2187 Roundabout

- 7.12 The A259 New Road/B2187 Horsham Road roundabout junction has been assessed using the ARCADY programme within the Junctions 9 software. The results are set out in **Tables 7.10 to 7.14** for the observed, base and base plus development scenarios. A copy of the ARCADY output files is contained in **Appendix E**.

Arm	2017 Observed Scenario			
	Weekday AM Peak		Weekday PM Peak	
	Max RFC	Max Queue (vehs)	Max RFC	Max Queue (vehs)
A259 East	0.68 0.50	2.1 1.0	0.81 0.59	4.0 1.4
B2187 Worthing Road	0.58	1.4	0.56	1.3
B2187 Horsham Road	0.61	1.6	0.54	1.2
A259 Worthing Road	0.76	3.1	0.70	2.3
Norway Lane	0.14	0.2	0.45	0.8

Table 7.10: ARCADY Results – A259/B2187 Roundabout – 2017 Observed Scenario Sensitivity test - with WSCC suggested geometric parameters

Arm	2019 Base Scenario			
	Weekday AM Peak		Weekday PM Peak	
	Max RFC	Max Queue (vehs)	Max RFC	Max Queue (vehs)
A259 East	0.70 0.52	2.4 1.1	0.87 0.63	6.3 1.7
B2187 Worthing Road	0.61	1.5	0.60	1.5
B2187 Horsham Road	0.64	1.8	0.58	1.4
A259 Worthing Road	0.73	2.7	0.72	2.5
Norway Lane	0.15	0.2	0.49	0.9

Table 7.11: ARCADY Results – A259/B2187 Roundabout – 2019 Base Scenario Sensitivity test - with WSCC suggested geometric parameters

Arm	2022 Base Scenario			
	Weekday AM Peak		Weekday PM Peak	
	Max RFC	Max Queue (vehs)	Max RFC	Max Queue (vehs)
A259 East	0.74 0.55	2.8 1.2	0.92 0.67	9.9 2.0
B2187 Worthing Road	0.65	1.8	0.65	1.8
B2187 Horsham Road	0.69	2.2	0.62	1.6
A259 Worthing Road	0.77	3.4	0.76	3.1
Norway Lane	0.16	0.2	0.55	1.2

Table 7.12: ARCADY Results – A259/B2187 Roundabout – 2022 Base Scenario Sensitivity test - with WSCC suggested geometric parameters

Arm	2019 Base + Development Scenario			
	Weekday AM Peak		Weekday PM Peak	
	Max RFC	Max Queue (vehs)	Max RFC	Max Queue (vehs)
A259 East	0.73 0.54	2.7 1.2	0.88 0.64	6.7 1.8
B2187 Worthing Road	0.62	1.6	0.60	1.5
B2187 Horsham Road	0.65	1.9	0.58	1.4
A259 Worthing Road	0.74	2.9	0.73	2.6
Norway Lane	0.15	0.2	0.50	1.0

Table 7.13: ARCADY Results – A259/B2187 Roundabout – 2019 Base Plus Development Scenario Sensitivity test - with WSCC suggested geometric parameters

Arm	2022 Base + Development Scenario			
	Weekday AM Peak		Weekday PM Peak	
	Max RFC	Max Queue (vehs)	Max RFC	Max Queue (vehs)
A259 East	0.77 0.57	3.3 1.3	0.94 0.68	11.5 2.1
B2187 Worthing Road	0.67	1.9	0.66	1.9
B2187 Horsham Road	0.70	2.3	0.63	1.7
A259 Worthing Road	0.79	3.6	0.76	3.2
Norway Lane	0.17	0.2	0.56	1.2

Table 7.14: ARCADY Results – A259/B2187 Roundabout – 2022 Base Plus Development Scenario Sensitivity test - with WSCC suggested geometric parameters