

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Appendix TR-003-00006 - Report 9 of 12

Traffic and transport

Transport Assessment Part 3 Addendum

MA06: Hulseheath to Manchester Airport

MA07: Davenport Green to Ardwick

MA08: Manchester Piccadilly Station

(including MA04 and MA05)



High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Appendix TR-003-00006 – Report 9 of 12 Traffic and transport

Transport Assessment Part 3 Addendum

MA06: Hulseheath to Manchester Airport

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(including MA04 and MA05)



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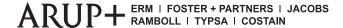
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Junction performance

MA06

- 16.5.290 The results are presented from south to north through the MA06 area, firstly for junctions on the strategic road network, followed by junctions on other roads. The 2039 and 2051 future baseline results are included for comparison. The models developed to assess the existing and future baseline have been used, except where otherwise stated. Where there are changes to infrastructure compared to the main TA, these are highlighted.
- 16.5.291 The results are presented in the same order as presented in the main TA. Junctions that were not modelled in the main TA are provided at the end of the junction performance section after the A538 Altrincham Road/Mobberley Road junction (Table 18-300.1). Where no updates to junction operation are provided, junction operation is as described in Section 18.5 of the main TA.
- 16.5.292 The junction performance tables presented in this report use the following abbreviations:

 PCU = Passenger Car Unit; VoC = Volume over Capacity; DoS = Degree of Saturation; RFC =
 Ratio of Flow to Capacity; and Q = Queue.

M56 junction 6

- 16.5.293 Paragraph 18.5.115 of the main TA describes the modifications to the M56 junction 6/A538 Wilmslow Road/Runger Lane/A538 Hale Road network. The original scheme included the permanent changes to the existing road network required at M56 junction 6 to accommodate Manchester Airport High Speed station. Since the main ES, through engagement with National Highways, the reconfiguration of M56 junction 6 has been undertaken to improve traffic flows associated with the Manchester Airport High Speed station. The modifications include the introduction of a grade separated gyratory. The AP2 revised scheme will result in the following changes to the highway network around Manchester Airport High Speed station:
 - a new grade separated gyratory will be constructed south-west of the existing M56 junction 6 east and west at-grade roundabouts;
 - the new gyratory will accommodate all entry and exit traffic to and from the M56;
 - the alignment of the M56 main line will be diverted south eastwards between the River Bollin and the existing M56 junction 6 at-grade roundabouts;
 - the existing M56 junction 6 western at-grade roundabout will become a four-arm signalcontrolled crossroads junction connecting the A538 Hale Road to the north, A538
 Wilmslow Road, a Manchester Airport High Speed station access road and the M56 grade separated gyratory; and
 - the existing M56 junction 6 eastern at-grade roundabout will become a four arm signal-controlled crossroads junction connecting the A538 Wilmslow Road to the north and south, Runger Lane and the M56 junction 6 grade separated gyratory.

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- 16.5.294 Figure 18.92 of the main TA shows the proposed layout of M56 junction 6 for the original scheme. This is replaced by Figure 18-92 below. Figure 18-92.1, Figure 18-92.2, Figure 18-92.3, Figure 18-92.4 show the junction layouts introduced as part of the AP2 revised scheme for the western junction, eastern junction, main gyratory and Station Link Road/A538 Hale Road Link Road junction respectively.
- 16.5.295 The operation of the junctions has been assessed for the 2039 and 2051 AM and PM peak hours with the AP2 revised scheme using Linsig software. Table 18.264 in the main TA summarises the performance of the main approaches, while the results for the western and eastern sides of the junction are included in Table 18-265 and 18-266. Table 18-264 replaces Table 18.264 in the main TA, while Table 18-265 and Table 18-266 replace Table 18-265 and 18-266 in the main TA. The results for the main gyratory are included in Table 18-267. The results for the Station Link Road/A538 Hale Road Link Road are included in Table 18-268.

Car Parks

Station Access Road
West

Station Access Road
East

Station Access Cross
Link Road
Link Road

M56 junction 6 A358
Hale Road Link Road

Runger Lane
realignment

M56 junction 6 A358
Wilrislow Road Link
Road

Realigned Sunbank
Lane

Realigned Sunbank
Lane

Realigned Sunbank
Lane

Realigned M56

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Figure 18-92: Junction layout diagram (M56 junction 6 permanent layout)

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Table 18-264: M56 junction 6 key approaches 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Junction/approach | | Flow, PCU/hr | Max DoS | Total Q, PCU | Flow, PCU/hr | Max DoS | Total Q, PCU |
|------------------------|---|---|---------|--------------------------------|-----------------------------------|---------|--------------|
| 08:00-09:00 | | 2039 with the (permanent la | | scheme | 2051 with the A (permanent lay | | heme |
| West | A538 Hale Road Station Link Road | 102 | 38% | 3 | 92 | 50% | 3 |
| | Underpass | 288 | 44% | 6 | 306 | 49% | 7 |
| | M56 junction 6 A538 Hale Road Link Road | 418 | 28% | 2 | 478 | 31% | 2 |
| | A538 Hale Road | 1,345 | 59% | 22 | 1,514 | 62% | 23 |
| East | Runger Lane | 394 | 76% | 10 | 451 | 92% | 12 |
| | A538 Wilmslow Road | 1,400 | 82% | 15 | 1,703 | 77% | 17 |
| | M56 junction 6 A538 Wilmslow Road Link Road | 2,126 | 79% | 29 | 2,134 | 83% | 30 |
| | Underpass | 683 | 70% | 13 | 758 | 73% | 14 |
| Main gyratory | M56 junction 6 southbound diverge | 1,735 | 58% | 11 | 1,825 | 65% | 12 |
| | M56 junction 6 A538 Wilmslow Road Link Road | 1,151 | 37% | 8 | 1,472 | 51% | 10 |
| | M56 junction 6 northbound diverge | 1,439 | 88% | 23 | 1,437 | 87% | 22 |
| | M56 junction 6 Station Link Road | 981 | 64% | 9 | 1,111 | 73% | 11 |
| Station Link Road/A538 | M56 junction 6 Station Link Road (north) | 359 | 24% | 6 | 392 | 26% | 7 |
| Hale Road Link Road | M56 junction 6 Station Link Road (south) | 916 | 36% | 9 | 998 | 39% | 10 |
| | M56 junction 6 A538 Hale Road Link Road | 654 | 88% | 10 | 740 | 100% | 11 |
| 17:00-18:00 | | 2039 with the AP2 revised scheme (permanent layout) | | 2051 with the A (permanent lay | | heme | |
| West | A538 Hale Road Station Link Road | 209 | 39% | 4 | 208 | 47% | 5 |
| | Underpass | 300 | 34% | 2 | 321 | 39% | 2 |
| | M56 junction 6 A538 Hale Road Link Road | 535 | 44% | 5 | 710 | 56% | 8 |
| | A538 Hale Road | 505 | 40% | 12 | 558 | 41% | 12 |
| East | Runger Lane | 1,093 | 71% | 26 | 1,380 | 83% | 36 |
| | A538 Wilmslow Road | 1,568 | 81% | 23 | 1,659 | 82% | 26 |

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| Junction/approach | | Flow, PCU/hr | Max DoS | Total Q, PCU | Flow, PCU/hr | Max DoS | Total Q, PCU |
|------------------------|---|--------------|---------|--------------|--------------|---------|--------------|
| | M56 junction 6 A538 Wilmslow Road Link Road | 1,209 | 78% | 19 | 1,353 | 85% | 24 |
| | Underpass | 316 | 60% | 6 | 342 | 62% | 6 |
| Main gyratory | M56 junction 6 southbound diverge | 1,104 | 52% | 6 | 1,320 | 64% | 8 |
| | M56 junction 6 A538 Wilmslow Road Link Road | 1,837 | 63% | 12 | 2,167 | 82% | 18 |
| | M56 junction 6 northbound diverge | 971 | 70% | 10 | 1,091 | 78% | 13 |
| | M56 junction 6 Station Link Road | 1,006 | 47% | 7 | 1,118 | 50% | 8 |
| Station Link Road/A538 | M56 junction 6 Station Link Road (north) | 745 | 40% | 10 | 820 | 44% | 11 |
| Hale Road Link Road | M56 junction 6 Station Link Road (south) | 655 | 24% | 3 | 941 | 34% | 4 |
| | M56 junction 6 A538 Hale Road Link Road | 283 | 51% | 5 | 494 | 90% | 10 |

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| 16.5.296 | At the western junction, the assessment shows that the junction operates well within capacity in 2039 with the AP2 revised scheme. |
| 16.5.297 | At the eastern junction, the assessment shows that the junction operates within capacity in 2039 with the AP2 revised scheme. |
| 16.5.298 | At the main gyratory, in the AM peak hour, the assessment shows that the junction operates close to capacity in 2039 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates well within capacity in 2039 with the AP2 revised scheme. |
| 16.5.299 | At the Station Link Road/A538 Hale Road Link Road junction, in the AM peak hour, the assessment shows that the junction operates close to capacity in 2039 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates well within capacity in 2039 with the AP2 revised scheme. |
| 16.5.300 | At the western junction, the assessment shows that the junction operates well within capacity in 2051 with the AP2 revised scheme. |
| 16.5.301 | At the eastern junction, the assessment shows that the junction operates close to capacity in 2051 with the AP2 revised scheme. |
| 16.5.302 | At the main gyratory, in the AM peak hour, the assessment shows that the junction operates close to capacity in 2051 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates within capacity in 2051 with the AP2 revised scheme. |
| 16.5.303 | At the Station Link Road/A538 Hale Road Link Road junction, in the AM peak hour, the assessment shows that the junction operates over capacity in 2051 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates close to capacity in 2051 with the AP2 revised scheme. |

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Figure 18-92.1: Junction layout diagram (M56 junction 6 (west))

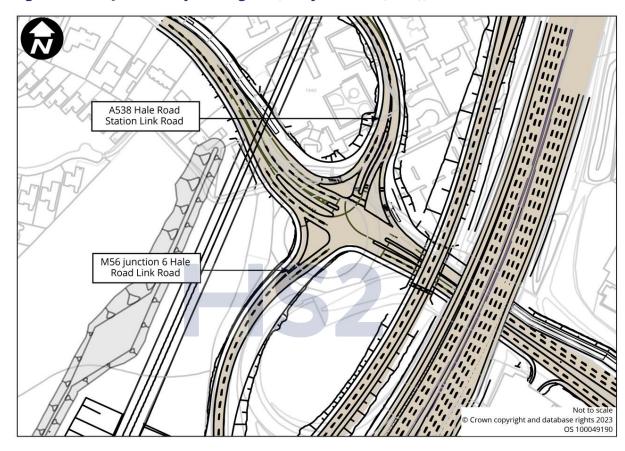


Table 18-265: M56 junction 6 (west) 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|---|---|-------------------|--------|-----------------|-------------------|--------|
| 08:00-09:00 | | the AP2 reperment | | | the AP2 reperment | |
| A538 Hale Road Station Link Road (left and right) | 102 | 38% | 3 | 92 | 50% | 3 |
| Underpass (nearside) (ahead) | 78 | 23% | 2 | 110 | 34% | 3 |
| Underpass (centre and offside) (ahead and right) | 210 | 44% | 4 | 196 | 49% | 5 |
| M56 junction 6 Hale Road Link Road (left) | 418 | 28% | 2 | 478 | 31% | 2 |
| A538 Hale Road (nearside) (left) | 91 | 9% | 1 | 89 | 8% | 1 |
| A538 Hale Road (centre 1 and centre 2) (ahead) | 603 | 46% | 6 | 685 | 48% | 6 |
| A538 Hale Road (offside) (right) | 651 | 59% | 15 | 740 | 62% | 16 |
| 17:00-18:00 | 2039 with the AP2 revised scheme (permanent layout) 2051 with the AP2 revised scheme (permanent lay | | | | | |
| A538 Hale Road Station Link Road (left and right) | 209 | 39% | 4 | 208 | 47% | 5 |
| Underpass (nearside) (ahead) | 50 | 8% | 0 | 60 | 11% | 1 |
| Underpass (centre and offside) (ahead and right) | 250 | 34% | 1 | 261 | 39% | 2 |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|-----|--------|-----------------|-----|--------|
| M56 junction 6 Hale Road Link Road (left) | 535 | 44% | 5 | 710 | 56% | 8 |
| A538 Hale Road (nearside) (left) | 38 | 6% | 1 | 40 | 5% | 1 |
| A538 Hale Road (centre 1 and centre 2) (ahead) | 188 | 24% | 4 | 199 | 23% | 4 |
| A538 Hale Road (offside) (right) | 279 | 40% | 7 | 319 | 41% | 8 |

Figure 18-92.2: Junction layout diagram (M56 junction 6 (east))

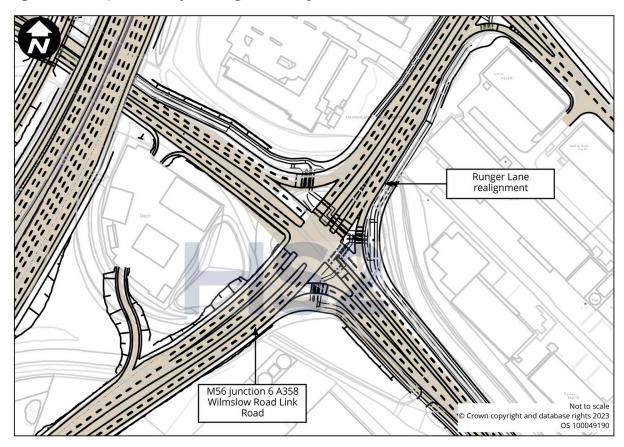


Table 18-266: M56 junction 6 (east) 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|--|-----|--------|-----------------|-----|--------|
| 08:00-09:00 | 2039 with the AP2 revised scheme (permanent layout) 2051 with the AP2 revised scheme (permanent layout) | | | | | |
| Runger Lane (nearside and centre 1) (left and ahead) | 268 | 76% | 5 | 310 | 92% | 6 |
| Runger Lane (centre 2) (ahead) | 88 | 55% | 4 | 94 | 59% | 4 |
| Runger Lane (centre 3 and offside) (right) | 38 | 26% | 1 | 47 | 32% | 2 |
| A538 Wilmslow Road (nearside and centre 1) (left) | 950 | 49% | 5 | 1,241 | 64% | 7 |
| A538 Wilmslow Road (centre 2 and centre 3) (ahead) | 250 | 34% | 5 | 259 | 35% | 5 |
| A538 Wilmslow Road (centre 4 and offside) (right) | 200 | 82% | 5 | 203 | 77% | 5 |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|---|-----------------|-------------------|--------|-----------------|---------------------|--------|
| M56 junction 6 A538 Wilmslow Road Link Road (nearside and centre 1) (ahead) | 955 | 70% | 13 | 909 | 68% | 12 |
| M56 junction 6 A538 Wilmslow Road Link Road (centre 2 and offside) (right) | 1,171 | 79% | 16 | 1,225 | 83% | 18 |
| Underpass (nearside and centre 1) (left) | 287 | 62% | 6 | 365 | 73% | 7 |
| Underpass (centre 2 and offside) (ahead) | 396 | 70% | 8 | 393 | 66% | 7 |
| 17:00–18:00 | | the AP2 reperment | | | the AP2 repermanent | |
| Runger Lane (nearside and centre 1) (left and ahead) | 679 | 71% | 13 | 812 | 83% | 18 |
| Runger Lane (centre 2) (ahead) | 357 | 67% | 12 | 506 | 82% | 18 |
| Runger Lane (centre 3 and offside) (right) | 57 | 12% | 1 | 62 | 11% | 1 |
| A538 Wilmslow Road (nearside and centre 1) (left) | 1,128 | 63% | 11 | 1,193 | 70% | 13 |
| A538 Wilmslow Road (centre 2 and centre 3) (ahead) | 243 | 38% | 6 | 259 | 40% | 6 |
| A538 Wilmslow Road (centre 4 and offside) (right) | 197 | 81% | 7 | 207 | 82% | 7 |
| M56 junction 6 Wilmslow Road Link Road (nearside and centre 1) (ahead) | 306 | 28% | 4 | 444 | 46% | 7 |
| M56 junction 6 Wilmslow Road Link Road (centre 2 and offside) (right) | 903 | 78% | 15 | 909 | 85% | 17 |
| Underpass (nearside and centre 1) (left) | 43 | 5% | 1 | 60 | 8% | 1 |
| Underpass (centre 2 and offside) (ahead) | 273 | 60% | 5 | 282 | 62% | 5 |

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Figure 18-92.3: Junction layout diagram (M56 junction 6 (main gyratory))

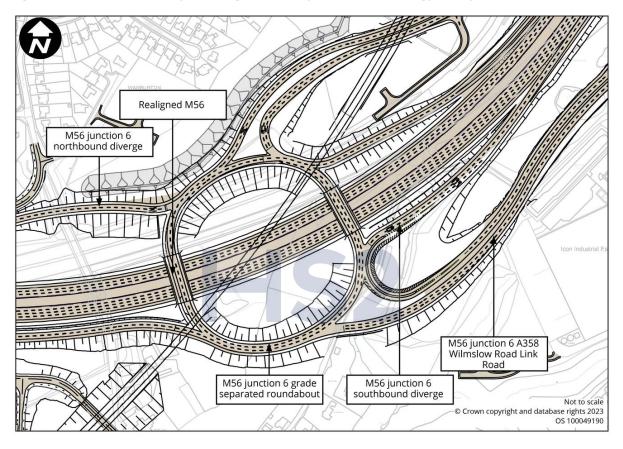


Table 18-267: M56 junction 6 (main gyratory) 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | |
|--|--|-----|--------|-----------------|-----|--------|--|
| 08:00-09:00 | 2039 with the AP2 revised scheme (permanent layout) 2051 with the AP2 revised scheme (permanent layout) | | | | | | |
| M56 junction 6 southbound diverge (nearside) (left) | 1,086 | 57% | 1 | 1,106 | 58% | 1 | |
| M56 junction 6 southbound diverge (centre) (ahead) | 334 | 58% | 6 | 397 | 65% | 7 | |
| M56 junction 6 southbound diverge (offside) (ahead) | 315 | 55% | 5 | 322 | 53% | 5 | |
| M56 junction 6 A538 Wilmslow Road Link Road (nearside and centre) (left and ahead) | 762 | 37% | 4 | 1,041 | 51% | 6 | |
| M56 junction 6 A538 Wilmslow Road Link Road (offside) (ahead) | 389 | 31% | 3 | 431 | 35% | 4 | |
| M56 junction 6 northbound diverge (nearside) (left and ahead) | 399 | 37% | 4 | 409 | 37% | 4 | |
| M56 junction 6 northbound diverge (offside) (ahead) | 1,040 | 88% | 19 | 1,028 | 87% | 18 | |
| M56 junction 6 Station Link Road (nearside and centre) (left) | 780 | 64% | 7 | 889 | 73% | 8 | |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|-------------------|--------|-----------------|---------------------|--------|
| M56 junction 6 Station Link Road (offside) (ahead) | 201 | 31% | 3 | 222 | 34% | 3 |
| 17:00–18:00 | | the AP2 reperment | | | the AP2 repermanent | |
| M56 junction 6 southbound diverge (nearside) (left) | 567 | 30% | 0 | 629 | 33% | 0 |
| M56 junction 6 southbound diverge (centre) (ahead) | 355 | 52% | 4 | 502 | 64% | 6 |
| M56 junction 6 southbound diverge (offside) (ahead) | 182 | 27% | 2 | 189 | 24% | 2 |
| M56 junction 6 A538 Wilmslow Road Link Road (nearside and centre) (left and ahead) | 1,284 | 63% | 7 | 1,529 | 82% | 11 |
| M56 junction 6 A538 Wilmslow Road Link Road (offside) (ahead) | 553 | 52% | 5 | 638 | 66% | 7 |
| M56 junction 6 northbound diverge (nearside) (left and ahead) | 329 | 38% | 3 | 367 | 43% | 3 |
| M56 junction 6 northbound diverge (offside) (ahead) | 642 | 70% | 7 | 724 | 78% | 9 |
| M56 junction 6 Station Link Road (nearside and centre) (left) | 626 | 42% | 3 | 719 | 48% | 4 |
| M56 junction 6 Station Link Road (offside) (ahead) | 380 | 47% | 4 | 399 | 50% | 4 |

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Figure 18-92.4: Junction layout diagram (M56 junction 6 Station Link Road/M56 junction 6 A538 Hale Road Link Road)

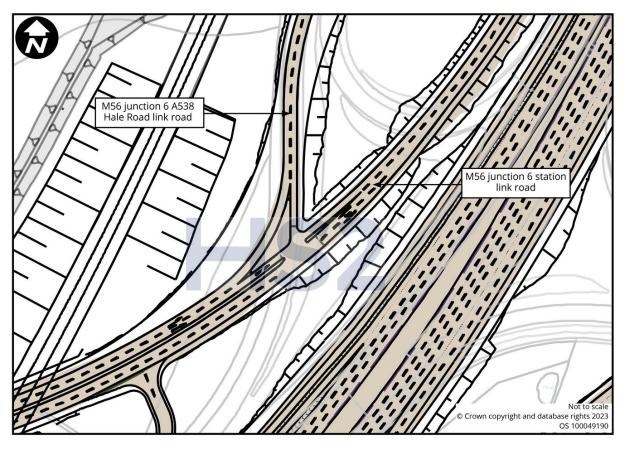


Table 18-268: M56 junction 6 (M56 junction 6 Station Link Road/M56 junction 6 A538 Hale Road Link Road) 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|---------------------------|--------|-----------------|---------------------|--------|
| 08:00-09:00 | | n the AP2 reperment | | | the AP2 repermanent | |
| M56 junction 6 Station Link Road (north) | 359 | 24% | 6 | 392 | 26% | 7 |
| M56 junction 6 Station Link Road (south) | 916 | 36% | 9 | 998 | 39% | 10 |
| M56 junction 6 A538 Hale Road Link Road | 654 | 88% | 10 | 740 | 100% | 11 |
| 17:00-18:00 | | n the AP2 re permanent | | | the AP2 repermanent | |
| M56 junction 6 Station Link Road (north) | 745 | 40% | 10 | 820 | 44% | 11 |
| M56 junction 6 Station Link Road (south) | 655 | 24% | 3 | 941 | 34% | 4 |
| M56 junction 6 A538 Hale Road Link Road | 283 | 51% | 5 | 494 | 90% | 10 |

A538 Hale Road Station Link Road/Station Access Road West

16.5.304 This will be a new junction as part of the AP2 revised scheme, modified from the original TA. It will be a three-arm signal-controlled T-junction and will form a western access junction to Manchester Airport High Speed station. Figure 18-94 shows the junction layout introduced as part of the AP2 revised scheme and replaces Figure 18-94 in the main TA. Table 18-267.1

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summarises the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

Figure 18-94: Junction layout diagram (A538 Hale Road Station Link Road/Station Access Road West)

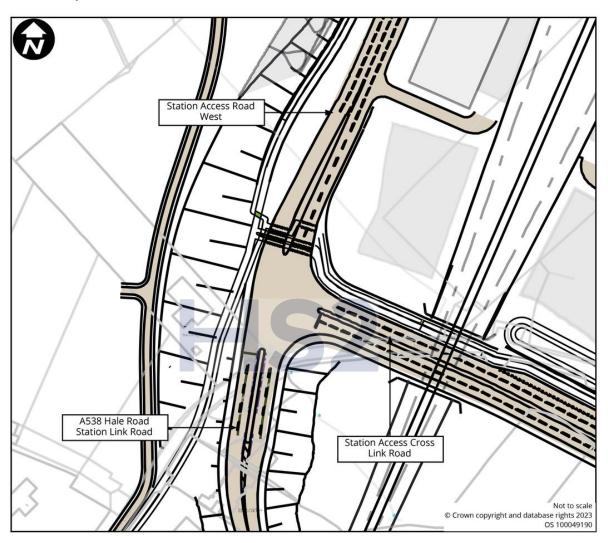


Table 18-267.1: A538 Hale Road Station Link Road/Station Access Road West 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|---------------|----------|-----------------|---------------|----------|
| 08:00-09:00 | 2039 with th | he AP2 revise | d scheme | 2051 with t | he AP2 revise | d scheme |
| Station Access Road West (nearside) (left and ahead) | 77 | 21% | 1 | 86 | 22% | 1 |
| Station Access Road West (offside) (ahead) | 51 | 12% | 1 | 45 | 10% | 1 |
| Station Access Cross Link Road (nearside) (left) | 48 | 4% | 0 | 42 | 4% | 0 |
| Station Access Cross Link Road (offside) (right) | 129 | 39% | 3 | 127 | 43% | 3 |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|---|-----------------|---------------|----------|-----------------|---------------|----------|
| A538 Hale Road Station Link Road (nearside and offside) (ahead and right) | 206 | 15% | 1 | 220 | 15% | 1 |
| 17:00-18:00 | 2039 with tl | ne AP2 revise | d scheme | 2051 with t | he AP2 revise | d scheme |
| Station Access Road West (nearside) (left and ahead) | 109 | 25% | 2 | 113 | 26% | 2 |
| Station Access Road West (offside) (ahead) | 142 | 29% | 2 | 144 | 29% | 2 |
| Station Access Cross Link Road (nearside) (left) | 37 | 4% | 0 | 41 | 4% | 0 |
| Station Access Cross Link Road (offside) (right) | 107 | 41% | 2 | 112 | 43% | 2 |
| A538 Hale Road Station Link Road (nearside and offside) (ahead and right) | 116 | 10% | 1 | 124 | 10% | 1 |

16.5.305 The assessment shows that the junction operates well within capacity in 2039 and 2051 with the AP2 revised scheme.

Station Access Cross Link Road/Station Access Road East

This will be a new junction as part of the AP2 revised scheme, modified from the main TA. It will be a three-arm signal-controlled T-junction and will form an eastern access junction to Manchester Airport High Speed station. Figure 18-95 shows the junction layout introduced as part of the AP2 revised scheme and replaces 18-95 in the main TA. Table 18-268.1 summarises the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

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Figure 18-95: Junction layout diagram (Station Access Cross Link Road/Station Access Road East)

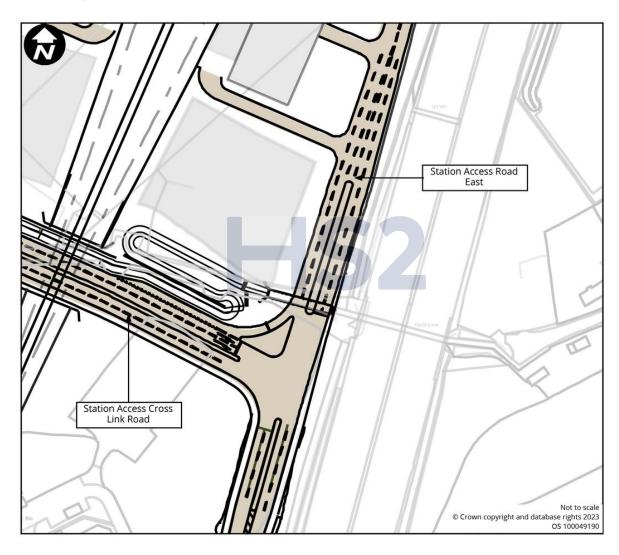


Table 18-268.1: Station Access Cross Link Road/Station Access Road East 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|------------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 with scheme | the AP2 rev | ised | 2051 with scheme | the AP2 rev | ised |
| Station Access Road East (north) (nearside and offside) (ahead and right) | 304 | 48% | 3 | 332 | 46% | 3 |
| Station Access Road East (south) (nearside and offside) (left and right) | 630 | 41% | 4 | 650 | 43% | 4 |
| Station Access Cross Link Road (nearside and centre 1) (left and right) | 111 | 24% | 1 | 126 | 26% | 1 |
| Station Access Cross Link Road (offside) (right) | 14 | 5% | 0 | 16 | 6% | 0 |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | |
|---|------------------|-------------|--------|----------------------------------|-----|--------|--|
| 17:00-18:00 | 2039 with scheme | the AP2 rev | ised | 2051 with the AP2 revised scheme | | | |
| Station Access Road East (north) (nearside and offside) (ahead and right) | 685 | 44% | 5 | 750 | 48% | 5 | |
| Station Access Road East (south) (nearside and offside) (left and right) | 331 | 53% | 3 | 348 | 55% | 3 | |
| Station Access Cross Link Road (nearside and centre 1) (left and right) | 119 | 25% | 1 | 132 | 28% | 1 | |
| Station Access Cross Link Road (offside) (right) | 16 | 6% | 0 | 19 | 7% | 0 | |

16.5.307 The assessment shows that the junction operates well within capacity in 2039 and 2051 with the AP2 revised scheme.

Runger Lane/Avro Way

16.5.308 This is an existing junction modified as part of the AP2 revised scheme. The Runger Lane/Avro Way priority controlled (give way) T-junction will become a four arm signal-controlled crossroads providing access to a surface car park on its northern arm. Figure 18-95.1 shows the junction layout introduced as part of the AP2 revised scheme. Table 18-269.1 summarises the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

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Figure 18-95.1: Junction layout diagram (Runger Lane/Avro Way)

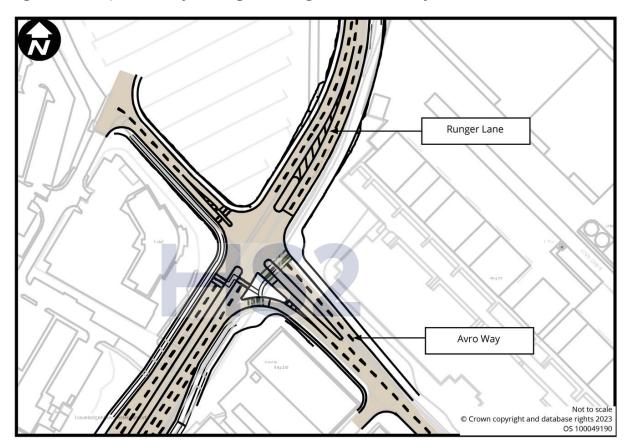


Table 18-269.1: Runger Lane/Avro Way 2039 and 2051 with the AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | | |
|---|------------------|---|--------|----------------------------------|-----|--------|--|--|
| 08:00-09:00 | 2039 with scheme | 2039 with the AP2 revised scheme 2051 with the AP2 revised scheme | | | | | | |
| Runger Lane (north) (nearside) (left and ahead) | 223 | 82% | 9 | 254 | 83% | 11 | | |
| Runger Lane (north) (offside) (ahead and right) | 130 | 44% | 4 | 144 | 43% | 5 | | |
| Avro Way (east) (nearside) (left) | 143 | 11% | 2 | 174 | 14% | 3 | | |
| Avro Way (east) (offside) (ahead and right) | 104 | 51% | 4 | 106 | 52% | 4 | | |
| Runger Lane (south) (nearside) (left and ahead) | 696 | 77% | 14 | 713 | 82% | 16 | | |
| Runger Lane (south) (offside) (ahead and right) | 746 | 80% | 13 | 764 | 85% | 16 | | |
| Avro Way (west) (left, ahead and right) | 12 | 20% | 1 | 13 | 22% | 1 | | |
| 17:00-18:00 | 2039 with scheme | the AP2 rev | ised | 2051 with the AP2 revised scheme | | | | |
| Runger Lane (north) (nearside) (left and ahead) | 423 | 65% | 13 | 516 | 77% | 17 | | |

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| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|---|-----------------|-----|--------|-----------------|-----|--------|
| Runger Lane (north) (offside) (ahead and right) | 330 | 47% | 9 | 487 | 67% | 15 |
| Avro Way (east) (nearside) (left) | 416 | 47% | 10 | 457 | 53% | 12 |
| Avro Way (east) (offside) (ahead and right) | 73 | 36% | 3 | 69 | 34% | 2 |
| Runger Lane (south) (nearside) (left and ahead) | 218 | 42% | 7 | 330 | 65% | 11 |
| Runger Lane (south) (offside) (ahead and right) | 328 | 62% | 11 | 381 | 74% | 13 |
| Avro Way (west) (left, ahead and right) | 17 | 26% | 1 | 19 | 31% | 1 |

- 16.5.309 In the AM peak hour, the assessment shows that the junction operates within capacity in 2039 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates well within capacity in 2039 with the AP2 revised scheme.
- 16.5.310 In the AM peak hour, the assessment shows that the junction operates close to capacity in 2051 with the AP2 revised scheme. In the PM peak hour, the assessment shows that the junction operates within capacity in 2051 with the AP2 revised scheme.

Enterprise Way/Outwood Lane West/World Way

16.5.311 Table 18-270 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-270 below replaces Table 18-270 in the main TA.

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MA06, MA07 and MA08

Table 18-270: Enterprise Way/Outwood Lane West/World Way junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | |
|---|-----------------|------------|--------|------------------|--------------|--------|-----------------|------------|--------|----------------------------------|--------------|--------|--|
| 08:00-09:00 | 2039 future | e baseline | | 2039 with scheme | | | | e baseline | | 2051 with the AP2 revised scheme | | | |
| Enterprise Way | 513 | 49% | 0 | 511 | 48% | 0 | 586 | 53% | 1 | 584 | 58% | 1 | |
| Outwood Lane West* | - | - | - | - | - | - | - | - | - | - | - | - | |
| World Way | 1,350 | 71% | 1 | 1,641 | 87% | 2 | 1,667 | 90% | 2 | 1,742 | 95% | 4 | |
| A555 Airport Spur eastbound off-slip | 1,524 | 117% | 9 | 1,480 | 117% | 9 | 1,257 | 122% | 9 | 1,544 | 117% | 9 | |
| 17:00-18:00 | 2039 future | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with scheme | the AP2 revi | sed | |
| Enterprise Way | 540 | 105% | 8 | 554 | 105% | 8 | 484 | 108% | 8 | 517 | 111% | 8 | |
| Outwood Lane West* | - | - | - | - | - | - | - | - | - | - | - | - | |
| World Way | 1,519 | 86% | 2 | 1,596 | 91% | 3 | 1,796 | 94% | 3 | 1,748 | 93% | 3 | |
| A555 Airport Spur eastbound off-slip | 1,859 | 101% | 6 | 1,888 | 102% | 6 | 1,773 | 106% | 8 | 1,882 | 109% | 7 | |

^{*}Minor approach arm not represented within the strategic traffic model.

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16.5.312 The conclusions drawn paragraphs 18.5.137 to 18.5.138 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will not increase the maximum VoC between the 2039 future baseline and the AP2 revised scheme in the AM or PM peak hours. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 71% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the World Way approach. Queue length will increase from one PCU in the future baseline to two PCU with the AP2 revised scheme. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 86% in the 2039 future baseline to 91% with the AP2 revised scheme in 2039 on the World Way approach. Queue length will increase from two PCU in the future baseline to three PCU with the AP2 revised scheme. The assessment shows that in the AM and PM peak hours, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 90% in the 2051 future baseline to 95% with the AP2 revised scheme in 2051 on the World Way approach in the AM peak hour, with a corresponding change in queue length from two PCU in the future baseline to four PCU. In the PM peak hour, the maximum VoC will increase from 108% in the 2051 future baseline to 111% with the AP2 revised scheme in 2051 on the Enterprise Way approach, with no change in corresponding queue length. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

A56 Dunham Road/A556/A556 Chester Road/A56 Lymm Road (Bowdon Roundabout)

16.5.313 Table 18-271 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-271 below replaces Table 18-271 in the main TA.

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Table 18-271: A56 Dunham Road/A556/A556 Chester Road/A56 Lymm Road (Bowdon Roundabout) junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|-------------|--------|---------------------|-------------|--------|-----------------|-------------|--------|----------------------------------|-----------|--------|
| 08:00-09:00 | 2039 futu | ire baselin | е | 2039 with scheme | n the AP2 r | evised | 2051 futu | ire baselin | e | 2051 with the AP2 revised scheme | | |
| A56 Durham Road (nearside) (left and ahead) | 867 | 58% | 10 | 862 | 61% | 12 | 1,004 | 66% | 13 | 984 | 69% | 15 |
| A56 Durham Road (offside) (ahead and right) | 882 | 58% | 10 | 876 | 61% | 12 | 1,026 | 67% | 13 | 998 | 69% | 15 |
| A556 (internal northbound) (nearside) | 808 | 79% | 3 | 808 | 77% | 2 | 831 | 71% | 1 | 820 | 74% | 2 |
| A556 (internal northbound) (offside) | 16 | 2% | 0 | 16 | 2% | 0 | 8 | 1% | 0 | 13 | 1% | 0 |
| A556 Chester Road (nearside and centre) (left and ahead) | 554 | 49% | 7 | 560 | 53% | 7 | 524 | 58% | 7 | 533 | 52% | 7 |
| A556 Chester Road (offside) (ahead) | 7 | 1% | 0 | 11 | 2% | 0 | 3 | 1% | 0 | 8 | 2% | 0 |
| A56 Lymm Road (left and ahead) | 595 | 67% | 4 | 599 | 58% | 3 | 545 | 61% | 3 | 541 | 55% | 3 |
| A556 (internal southbound) (nearside) | 717 | 96% | 27 | 705 | 97% | 28 | 844 | 105% | 53 | 823 | 98% | 32 |
| A556 (internal southbound) (offside) | 717 | 96% | 27 | 706 | 97% | 28 | 844 | 105% | 53 | 822 | 98% | 32 |
| M56 westbound off-slip (nearside) (ahead) | 37 | 4% | 1 | 37 | 4% | 1 | 36 | 4% | 1 | 34 | 4% | 1 |
| M56 westbound off-slip (offside) (ahead) | 824 | 95% | 29 | 824 | 93% | 27 | 839 | 103% | 46 | 833 | 107% | 59 |
| Yarwoodheath Lane (left, ahead and right) | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | 0 |
| 17:00-18:00 | 2039 futu | ire baselin | e | 2039 with scheme | n AP2 revis | ed | 2051 futu | ire baselin | e | 2051 with scheme | the AP2 r | evised |
| A56 Durham Road (nearside) (left and ahead) | 923 | 59% | 9 | 945 | 60% | 9 | 942 | 60% | 9 | 998 | 63% | 11 |
| A56 Durham Road (offside) (ahead and right) | 940 | 59% | 9 | 960 | 60% | 10 | 960 | 60% | 10 | 1,013 | 63% | 11 |

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| Approach | Flow, PCU/hr | DoS | Q, PCU |
|--|-----------------|------|--------|-----------------|------|--------|-----------------|------|--------|-----------------|------|--------|
| A556 (internal northbound) (nearside) | 1,047 | 99% | 37 | 1,031 | 81% | 4 | 1,088 | 106% | 61 | 1,068 | 76% | 3 |
| A556 (internal northbound) (offside) | 10 | 1% | 0 | 10 | 1% | 0 | 10 | 1% | 0 | 10 | 1% | 0 |
| A556 Chester Road (nearside and centre) (left and ahead) | 716 | 82% | 12 | 795 | 100% | 24 | 689 | 79% | 11 | 759 | 100% | 24 |
| A556 Chester Road (offside) (ahead) | 15 | 3% | 0 | 15 | 4% | 0 | 13 | 3% | 0 | 14 | 4% | 0 |
| A56 Lymm Road (left and ahead) | 410 | 57% | 3 | 408 | 55% | 3 | 436 | 60% | 4 | 428 | 57% | 3 |
| A556 (internal southbound) (nearside) | 734 | 109% | 58 | 746 | 111% | 64 | 752 | 115% | 76 | 796 | 115% | 81 |
| A556 (internal southbound) (offside) | 733 | 109% | 58 | 747 | 111% | 65 | 754 | 115% | 77 | 795 | 115% | 81 |
| M56 westbound off-slip (nearside) (ahead) | 76 | 8% | 1 | 72 | 8% | 1 | 75 | 8% | 1 | 74 | 8% | 1 |
| M56 westbound off-slip (offside) (ahead) | 1,057 | 112% | 94 | 1,041 | 110% | 86 | 1,098 | 114% | 106 | 1,078 | 117% | 114 |
| Yarwoodheath Lane (left, ahead and right) | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | 0 | 0 | 0% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.314 The conclusions drawn in paragraphs 18.5.140 to 18.5.141 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the DoS from 95% in the 2039 future baseline to 93% with the AP2 revised scheme in 2039 on the M56 westbound off-slip (offside) (ahead) approach in the AM peak hour, with a corresponding change in queue length from 29 PCU in the future baseline to 27 PCU. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the DoS from 82% in the 2039 future baseline to 100% with the AP2 revised scheme in 2039 on the A556 Chester Road (nearside and centre) (left and ahead) approach, with a corresponding change in queue length from 12 PCU in the future baseline to 24 PCU. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum DoS from 105% in the 2051 future baseline to 98% with the AP2 revised scheme in 2051 on both the A556 (internal southbound) (nearside) approach and on the A556 (internal southbound) (offside) approach in the AM peak hour, with a corresponding change in queue length from 53 PCU in the future baseline to 32 PCU. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will decrease the DoS from 106% in the 2051 future baseline to 76% with the AP2 revised scheme in 2051 on the A556 (internal northbound) (nearside) approach, with a corresponding change in queue length from 61 PCU in the future baseline to three PCU. The assessment shows that in the AM and PM peak hours, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction."

Thorley Lane/Enterprise Way

16.5.315 Table 18-272 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-272 below replace Table 18-272 in the main TA.

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Table 18-272: Enterprise Way/Thorley Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------|----------------------|------------|--------|----------------------------------|-----|--------|----------------------|-----|--------|----------------------------------|------|--------|
| 08:00-09:00 | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 future baseline | | | 2051 with the AP2 revised scheme | | |
| Enterprise Way (north) | 495 | 23% | 3 | 499 | 24% | 3 | 575 | 27% | 3 | 581 | 27% | 3 |
| Enterprise Way (south) | 1,085 | 45% | 10 | 1,086 | 45% | 10 | 1,114 | 46% | 10 | 1,052 | 43% | 9 |
| Thorley Lane | 770 | 92% | 16 | 817 | 97% | 16 | 791 | 94% | 16 | 836 | 100% | 17 |
| 17:00-18:00 | 2039 future | e baseline | | 2039 with the AP2 revised scheme | | | 2051 future baseline | | | 2051 with the AP2 revised scheme | | |
| Enterprise Way (north) | 931 | 62% | 12 | 940 | 63% | 12 | 1,045 | 66% | 13 | 1,050 | 68% | 13 |
| Enterprise Way (south) | 640 | 50% | 10 | 660 | 51% | 11 | 500 | 39% | 8 | 541 | 42% | 9 |
| Thorley Lane | 779 | 33% | 10 | 818 | 35% | 10 | 774 | 33% | 9 | 854 | 36% | 10 |

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16.5.316 The conclusions drawn in paragraphs 18.5.143 and 18.5.145 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 92% in the 2039 future baseline to 97% with the AP2 revised scheme in 2039 on the Thorley Lane approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 94% in the 2051 future baseline to 100% with the AP2 revised scheme in 2051 on the Thorley Lane approach in the AM peak hour, with a corresponding change in queue length from 16 PCU in the future baseline to 17 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

Bailey Lane/Enterprise Way

16.5.317 Table 18-273 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-273 below replace Table 18-273 in the main TA.

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Table 18-273: Enterprise Way/Bailey Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------|----------------------|------------|--------|----------------------------------|------|--------|----------------------|------|--------|----------------------------------|------|--------|
| 08:00-09:00 | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 future baseline | | | 2051 with the AP2 revised scheme | | |
| Bailey Lane | 216 | 122% | 4 | 181 | 118% | 4 | 218 | 137% | 4 | 186 | 129% | 4 |
| Enterprise Way (south) | 1,489 | 40% | 0 | 1,568 | 42% | 0 | 1,543 | 41% | 0 | 1,536 | 41% | 0 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with the AP2 revised scheme | | | 2051 future baseline | | | 2051 with the AP2 revised scheme | | |
| Bailey Lane | 111 | 34% | 0 | 93 | 32% | 0 | 128 | 36% | 0 | 106 | 33% | 0 |
| Enterprise Way (south) | 1,183 | 32% | 0 | 1,251 | 34% | 0 | 1,088 | 30% | 0 | 1,179 | 32% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.318 The conclusions drawn in paragraphs 18.5.144 and 18.5.146 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 122% in the 2039 future baseline to 118% with the AP2 revised scheme in 2039 on the Bailey Lane approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 137% in the 2051 future baseline to 129% with the AP2 revised scheme in 2051 on the Bailey Lane approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

B5086 Knutsford Road/B5085 Brook Lane/Russet Way/B5085 Knutsford Road

16.5.319 Table 18-274 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-274 below replaces Table 18-274 in the main TA.

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Table 18-274: B5086 Knutsford Road/B5085 Brook Lane/Russet Way/B5085 Knutsford Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------------|----------------------|-------------|-----------|------------------|-------------|--------|-----------------------|-------------|-----------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu layout) | re baseline | (existing | 2039 with scheme | the AP2 rev | /ised | 2051 futui layout) | re baseline | (existing | 2051 with scheme | the AP2 rev | vised |
| B5086 Knutsford Road (north) | 174 | 18% | 0 | 171 | 18% | 0 | 168 | 18% | 0 | 232 | 25% | 0 |
| B5085 Brook Lane | 882 | 86% | 0 | 860 | 84% | 0 | 1,030 | 100% | 2 | 1,000 | 97% | 1 |
| Russet Way* | - | - | - | - | - | - | - | - | - | - | - | - |
| B5085 Knutsford Road (west) | 272 | 44% | 0 | 302 | 47% | 0 | 459 | 90% | 3 | 410 | 74% | 1 |
| 17:00-18:00 | 2039 futu layout) | re baseline | (existing | 2039 with scheme | the AP2 rev | /ised | 2051 futui layout) | re baseline | (existing | 2051 with scheme | the AP2 rev | vised |
| B5086 Knutsford Road (north) | 51 | 6% | 0 | 36 | 4% | 0 | 57 | 7% | 0 | 73 | 9% | 0 |
| B5085 Brook Lane | 113 | 11% | 0 | 128 | 12% | 0 | 180 | 17% | 0 | 301 | 29% | 0 |
| Russet Way* | - | - | - | - | - | - | - | - | - | - | - | - |
| B5085 Knutsford Road (west) | 446 | 42% | 0 | 451 | 43% | 0 | 485 | 47% | 0 | 511 | 52% | 0 |

^{*}Minor approach arm not represented within the strategic traffic model.

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16.5.320 The conclusions drawn in paragraphs 18.5.148 to 18.5.149 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 86% in the 2039 future baseline to 84% with the AP2 revised scheme in 2039 on the B5085 Brook Lane approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and within capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the VoC from 90% in the 2051 future baseline to 74% with the AP2 revised scheme in 2051 on the B5085 Knutsford Road (west) approach in the AM peak hour, with a corresponding change in queue length from three PCU in the future baseline to one PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

B5086 Alderley Road/B5086 Knutsford Road/Alderley Road/Alderley Lodge/Bedells Lane (B5086 Fulshaw Cross Roundabout)

16.5.321 Table 18-275 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-275 below replaces Table 18-275 in the main TA.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-275: B5086 Alderley Road/B5086 Knutsford Road/Alderley Road/Alderley Lodge/Bedells Lane (B5086 Fulshaw Cross Roundabout) junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------------|------------------------|---------------|----------|------------------|--------------|--------|-----------------------|---------------|----------|------------------|--------------|--------|
| 08:00-09:00 | 2039 future layout) | e baseline (e | existing | 2039 with scheme | the AP2 revi | sed | 2051 futur layout) | e baseline (e | existing | 2051 with scheme | the AP2 revi | sed |
| B5086 Alderley Road | 732 | 98% | 8 | 726 | 97% | 7 | 751 | 92% | 5 | 756 | 99% | 9 |
| Alderley Road | 167 | 109% | 5 | 176 | 109% | 5 | 137 | 114% | 5 | 129 | 111% | 5 |
| B5086 Knutsford Road | 765 | 71% | 1 | 743 | 70% | 1 | 988 | 94% | 4 | 903 | 87% | 2 |
| Bedells Lane | 661 | 91% | 4 | 674 | 96% | 5 | 456 | 98% | 6 | 538 | 100% | 8 |
| 17:00-18:00 | 2039 future layout) | e baseline (e | existing | 2039 with scheme | the AP2 revi | sed | 2051 futur layout) | e baseline (e | existing | 2051 with scheme | the AP2 revi | sed |
| B5086 Alderley Road | 774 | 72% | 1 | 824 | 79% | 1 | 860 | 83% | 2 | 871 | 87% | 2 |
| Alderley Road | 648 | 93% | 3 | 575 | 100% | 9 | 544 | 104% | 9 | 461 | 104% | 9 |
| B5086 Knutsford Road | 119 | 17% | 0 | 119 | 16% | 0 | 167 | 21% | 0 | 270 | 32% | 0 |
| Bedells Lane | 652 | 60% | 1 | 701 | 62% | 1 | 707 | 63% | 1 | 745 | 66% | 1 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.322 The conclusions drawn in paragraphs 18.5.151 to 18.5.152 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will not increase the maximum VoC between the 2039 future baseline and the AP2 revised scheme in the AM peak hour. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 91% in the 2039 future baseline to 96% with the AP2 revised scheme in 2039 on the Bedells Lane approach. Queue length will increase from four PCU in the future baseline to five PCU with the AP2 revised scheme. In the PM peak hour, the maximum VoC will increase from 93% in the 2039 future baseline to 100% with the AP2 revised scheme in 2039 on the Alderley Road approach, with a corresponding change in queue length from three PCU in the future baseline to nine PCU. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 92% in the 2051 future baseline to 99% with the AP2 revised scheme in 2051 on the B5086 Alderley Road approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to nine PCU. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 83% in the 2051 future baseline to 87% with the AP2 revised scheme in 2051 on the B5086 Alderley Road approach. There will be no change in queue lengths. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

A538 Water Lane/A538 Alderley Road/B5086 Alderley Road

16.5.323 Table 18-276 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-276 below replaces Table 18-276 in the main TA.

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Table 18-276: A538 Water Lane/A538 Alderley Road/B5086 Alderley Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|---------------------|-----------------|------------|--------|------------------|--------------|--------|-----------------|------------|--------|------------------|--------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with scheme | the AP2 revi | sed |
| A538 Alderley Road | 1,233 | 78% | 17 | 1,233 | 76% | 17 | 1,233 | 77% | 17 | 1,233 | 76% | 17 |
| B5086 Alderley Road | 778 | 59% | 15 | 762 | 58% | 15 | 994 | 75% | 19 | 896 | 68% | 17 |
| A538 Water Lane | 370 | 51% | 9 | 366 | 50% | 9 | 374 | 51% | 9 | 369 | 51% | 9 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with scheme | the AP2 revi | sed |
| A538 Alderley Road | 1,131 | 83% | 18 | 1,200 | 87% | 19 | 1,217 | 89% | 19 | 1,243 | 91% | 20 |
| B5086 Alderley Road | 633 | 51% | 13 | 614 | 49% | 13 | 635 | 51% | 13 | 625 | 50% | 13 |
| A538 Water Lane | 482 | 51% | 11 | 476 | 50% | 11 | 490 | 52% | 11 | 481 | 51% | 11 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.324 The conclusions draw in paragraphs 18.5.154 and 18.5.155 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will increase from 83% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the A538 Alderley Road approach, with a corresponding change in queue length from 18 PCU in the future baseline to 19 PCU. The assessment shows that in the AM peak hour the junction operates within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in the future baseline and close to capacity with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour."

The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will increase from 89% in the 2051 future baseline to 91% with the AP2 revised scheme in 2051 on the A538 Alderley Road approach, with a corresponding change in queue length from 19 PCU in the future baseline to 20 PCU. The assessment shows that in the AM peak hour the junction operates within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour."

A34 MacLean Way/A34 Birrell Way/A538 Bollin Valley Link (A34 Bollin Valley Roundabout)

16.5.325 Table 18-277 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-277 below replaces Table 18-277 in the main TA.

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Table 18-277: A34 MacLean Way/A34 Birrell Way/A538 Bollin Valley Link (A34 Bollin Valley Roundabout) junction 2039 and 2051 future baseline AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-------------------------|-----------------|------------|--------|------------------|--------------|--------|-----------------|------------|--------|-----------------|--------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | • | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | • | 2051 with t | the AP2 revi | sed |
| A34 MacLean Way | 2,109 | 102% | 7 | 2,113 | 102% | 7 | 2,074 | 102% | 7 | 2,071 | 102% | 7 |
| A34 Birrell Way | 1,130 | 92% | 3 | 1,173 | 95% | 5 | 1,274 | 100% | 10 | 1,316 | 101% | 10 |
| A538 Bollin Valley Link | 1,391 | 65% | 1 | 1,336 | 63% | 0 | 1,403 | 66% | 1 | 1,352 | 66% | 1 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with t | the AP2 revi | sed |
| A34 MacLean Way | 1,975 | 92% | 1 | 1,994 | 95% | 2 | 2,052 | 98% | 4 | 2,066 | 99% | 4 |
| A34 Birrell Way | 918 | 77% | 1 | 913 | 80% | 2 | 981 | 88% | 3 | 992 | 91% | 4 |
| A538 Bollin Valley Link | 1,523 | 75% | 1 | 1,554 | 77% | 1 | 1,521 | 78% | 1 | 1,505 | 77% | 1 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.326 The conclusions draw in paragraphs 18.5.157 and 18.5.158 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 92% in the 2039 future baseline to 95% with the AP2 revised scheme in 2039 on the A34 Birrell Way approach in the AM peak hour, with a corresponding change in queue length from three PCU in the future baseline to five PCU. In the PM peak hour, the maximum VoC will increase from 92% in the 2039 future baseline to 95% with the AP2 revised scheme in 2051 on the A34 MacLean Way approach, with a corresponding change in queue length from one PCU in the future baseline to two PCU. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction which is, in any case, predicted to operate over its capacity in the future baseline."

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue length in the AM peak hour. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 88% in the 2051 future baseline to 91% with the AP2 revised scheme in 2051 on the A34 Birrell Way approach. Queue length will increase from three in the future baseline to four with the AP2 revised scheme. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour. "

Ashley Road diversion/Mobberley Road realignment

- 16.5.327 This junction is to be a new three-arm priority controlled (give way) T-junction with no controlled pedestrian facilities as a result of the AP2 revised scheme. Figure 18-96.1 shows the junction layout introduced as part of the AP2 revised scheme.
- 16.5.328 Table 18-278 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-278 below replaces Table 18-278 in the main TA.

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Figure 18-96.1: Junction layout diagram (Ashley Road diversion/Mobberley Road realignment)

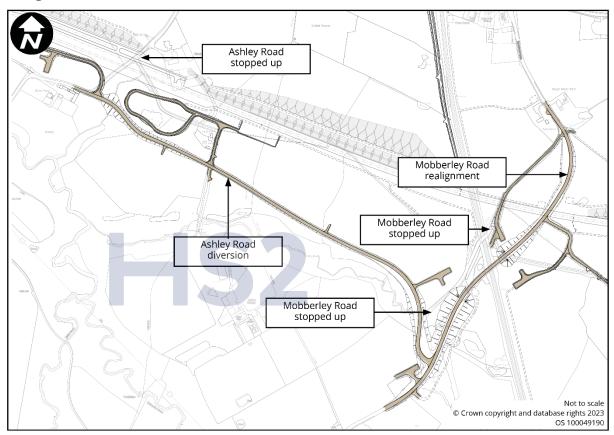


Table 18-278: Ashley Road diversion/Mobberley Road realignment junction 2039 and 2051 AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU |
|--|-----------------|---------------|----------|-----------------|---------------|----------|
| 08:00-09:00 | 2039 with th | ne AP2 revise | d scheme | 2051 with th | ne AP2 revise | d scheme |
| Mobberley Road (north) (ahead and right) | 578 | 0.37 | 1 | 627 | 0.43 | 1 |
| Mobberley Road (south) (ahead) | 536 | - | - | 582 | - | - |
| Mobberley Road (south) (left) | 14 | - | - | 15 | - | - |
| Ashley Road (left) | 350 | 0.70 | 2 | 380 | 0.79 | 4 |
| Ashley Road (right) | 42 | 0.24 | 0 | 45 | 0.32 | 1 |
| 17:00-18:00 | 2039 with th | ne AP2 revise | d scheme | 2051 with th | ne AP2 revise | d scheme |
| Mobberley Road (north) (ahead and right) | 522 | 0.41 | 1 | 566 | 0.47 | 1 |
| Mobberley Road (south) (ahead) | 400 | - | - | 434 | - | - |
| Mobberley Road (south) (left) | 20 | - | - | 22 | - | - |
| Ashley Road (left) | 218 | 0.4 | 1 | 236 | 0.44 | 1 |
| Ashley Road (right) | 30 | 0.13 | 0 | 32 | 0.15 | 0 |

16.5.329 The conclusions drawn in paragraphs 18.5.161 to 18.5.162 of the main TA are replaced by:

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"The assessment shows that this junction operates well within capacity in 2039 with the AP2 revised scheme.

The assessment shows that in the AM peak hour the junction operates within capacity in 2051 with the AP2 revised scheme. In the PM peak hour, the assessment shows that this junction operates well within capacity in 2051 with the AP2 revised scheme."

A538 Wilmslow Road/Mill Lane

16.5.330 Table 18-279 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-279 below replaces Table 18-279 in the main TA.

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Table 18-279: A538 Wilmslow Road/Mill Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU |
|---|-----------------|------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | rised |
| A538 Wilmslow Road (north) (ahead and right) | 893 | 0.17 | 0 | 821 | 0.31 | 1 | 868 | 0.22 | 0 | 930 | 0.38 | 1 |
| A538 Wilmslow Road (south) (ahead and left) | 1,244 | - | - | 1415 | - | - | 1,415 | - | - | 1,586 | - | - |
| Mill Lane (left) | 101 | 0.99 | 6 | 158 | 1.70 | 37 | 107 | 1.18 | 12 | 165 | 2.10 | 52 |
| Mill Lane (right) | 195 | 0.99 | 9 | 243 | 1.66 | 57 | 191 | 1.17 | 20 | 238 | 2.10 | 75 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | ised |
| A538 Wilmslow Road (north) (ahead and right) | 1,018 | 0.29 | 0 | 822 | 0.50 | 1 | 1,010 | 0.36 | 1 | 815 | 0.60 | 2 |
| A538 Wilmslow Road (south) (ahead and left) | 1,433 | - | - | 1,678 | - | - | 1,530 | - | - | 1,776 | - | - |
| Mill Lane (left) | 89 | 0.99 | 5 | 164 | 1.53 | 33 | 82 | 1.20 | 10 | 159 | 1.95 | 44 |
| Mill Lane (right) | 119 | 0.95 | 6 | 154 | 1.52 | 31 | 138 | 1.19 | 16 | 172 | 1.93 | 48 |

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16.5.331 The conclusions drawn in paragraphs 18.5.164 to 18.5.165 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the maximum RFC from 0.99 in the 2039 future baseline to 1.70 with the AP2 revised scheme in 2039 on the Mill Lane (left) approach in the AM peak hour, with a corresponding change in queue length from six PCU in the future baseline to 37 PCU. In the PM peak hour, the RFC will increase from 0.95 in the 2039 future baseline to 1.52 with the AP2 revised scheme in 2039 on the Mill Lane (right) approach, with a corresponding change in queue length from six PCU in the future baseline to 31 PCU. The assessment shows that in the AM and PM peak hours, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.

The change in traffic due to operation of the AP2 revised scheme will increase the RFC from 1.17 in the 2051 future baseline to 2.10 with the AP2 revised scheme in 2051 on the Mill Lane (right) approach in the AM peak hour, with a corresponding change in queue length from 20 PCU in the future baseline to 75 PCU. In the PM peak hour, the maximum RFC will increase from 1.20 in the 2051 future baseline to 1.95 with the AP2 revised scheme in 2051 on the Mill Lane (left) approach, with a corresponding change in queue length from 10 PCU in the future baseline to 44 PCU. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction."

Castle Mill Lane/Brickhill Lane diversion

16.5.332 Table 18-280 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-280 below replaced Table 18-280 in the main TA. Figure 18-97 in the main TA displays the junction layout of the junction. This figure is unchanged.

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Table 18-280: Castle Mill Lane/Brickhill Lane diversion junction 2039 and 2051 AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU |
|--|-----------------|------------------------------|--------|-----------------|------------------------------|--------|
| 08:00-09:00 | | the AP2 revi roposed layo | | | the AP2 revi roposed layo | |
| Castle Mill Lane (north) (ahead and right) | 572 | 0.02 | 0 | 574 | 0.02 | 0 |
| Castle Mill Lane (south) (left and ahead) | 547 | - | - | 614 | - | - |
| Brickhill Lane Diversion (left) | 5 | 0.01 | 0 | 5 | 0.01 | 0 |
| Brickhill Lane Diversion (right) | 4 | 0.01 | 0 | 4 | 0.02 | 0 |
| 17:00-18:00 | | the AP2 revi roposed layo | | | the AP2 revi roposed layo | |
| Castle Mill Lane (north) (ahead and right) | 446 | 0.02 | 0 | 458 | 0.02 | 0 |
| Castle Mill Lane (south) (left and ahead) | 753 | - | - | 883 | - | - |
| Brickhill Lane Diversion (left) | 15 | 0.03 | 0 | 16 | 0.04 | 0 |
| Brickhill Lane Diversion (right) | 1 | 0.00 | 0 | 1 | 0.01 | 0 |

16.5.333 The conclusions drawn in paragraph 18.5.167 of the main TA are replaced by:

"The assessment shows that this junction operates well within capacity in 2039 and 2051 with the AP2 revised scheme."

Castle Mill Lane/Back Lane

16.5.334 Table 18-281 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-281 below replaces Table 18-281 in the main TA.

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Table 18-281: Castle Mill Lane/Back Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU |
|---|-----------------|-------------|--------|-----------------|-----------|---------|-----------------|-------------|--------|------------------|-------------|---------|
| 08:00-09:00 | 2039 futu | ıre baselir | ne | 2039 with | h the AP2 | revised | 2051 futu | ıre baselir | ie | 2051 with scheme | h the AP2 i | revised |
| Realigned Farm Access (left, ahead and right)* | - | - | - | 10 | 0.02 | 0 | - | - | - | 10 | 0.02 | 0 |
| Castle Mill Lane (east) (left, ahead and right) | 176 | - | - | 89 | 0.01 | 0 | 242 | - | - | 59 | 0.01 | 0 |
| Back Lane (left, ahead and right) | 14 | 0.03 | 0 | 14 | 0.03 | 0 | 15 | 0.03 | 0 | 15 | 0.03 | 0 |
| Castle Mill Lane (west) (left, ahead and right | 249 | 0.01 | 0 | 112 | 0.01 | 0 | 251 | 0.01 | 0 | 132 | 0.01 | 0 |
| 17:00-18:00 | 2039 futu | ıre baselir | ne | 2039 with | h the AP2 | revised | 2051 futu | ıre baselir | ie | 2051 with scheme | h the AP2 i | revised |
| Realigned Farm Access (left, ahead and right)* | - | - | - | 10 | 0.02 | 0 | - | - | - | 10 | 0.02 | 0 |
| Castle Mill Lane (east) (left, ahead and right) | 162 | - | - | 61 | 0.01 | 0 | 292 | - | - | 69 | 0.01 | 0 |
| Back Lane (left, ahead and right) | 5 | 0.01 | 0 | 5 | 0.01 | 0 | 6 | 0.01 | 0 | 6 | 0.01 | 0 |
| Castle Mill Lane (west) (left, ahead and right | 176 | 0.00 | 0 | 196 | 0.00 | 0 | 188 | 0.00 | 0 | 276 | 0.00 | 0 |

^{*}Realignment of existing farm access and therefore not reported in the future baseline results.

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MA06, MA07 and MA08
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16.5.335 The conclusions drawn is paragraphs 18.5.169 to 18.5.170 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation in 2039 of the AP2 revised scheme will not result in substantial changes in RFC and queue lengths in the AM and PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The traffic flow will have a negligible impact on the operation of the junction in the AM and PM peak hours.

The assessment shows that for this junction, the change in traffic due to operation in 2051 of the AP2 revised scheme will not result in substantial changes in RFC and queue lengths in the AM and PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The traffic flow will have a negligible impact on the operation of the junction in the AM and PM peak hours."

Ashley Road/Back Lane/Mobberley Road/Cow Lane

16.5.336 Table 18-282 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-282 below replaces Table 18-282 in the main TA.

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Table 18-282: Ashley Road/Back Lane/Mobberley Road/Cow Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU | Flow, PCU/hr | RFC | Q, PCU |
|--|-----------------|-------------|--------|------------------|------------|--------|-----------------|-------------|--------|------------------|------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| Cow Lane (ahead, left and right) | 429 | 0.24 | 0 | 503 | 0.00 | 0 | 452 | 0.25 | 0 | 545 | 0.00 | 0 |
| Back Lane (left and ahead) | 70 | 0.13 | 0 | 89 | 0.18 | 0 | 66 | 0.12 | 0 | 97 | 0.20 | 0 |
| Back Lane (right and ahead) | 16 | 0.03 | 0 | 2 | 0.01 | 0 | 14 | 0.03 | 0 | 3 | 0.02 | 0 |
| Mobberley Road (ahead, left and right) | 446 | 0.21 | 0 | 885 | 0.61 | 2 | 459 | 0.23 | 0 | 961 | 0.67 | 3 |
| Ashley Road (ahead, left and right) | 340 | 0.88 | 6 | 0 | 0.00 | 0 | 349 | 0.94 | 9 | 0 | 0.00 | 0 |
| 17:00-18:00 | 2039 futu | re baseline | • | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| Cow Lane (ahead, left and right) | 327 | 0.21 | 0 | 390 | 0.00 | 0 | 340 | 0.26 | 0 | 424 | 0.00 | 0 |
| Back Lane (left and ahead) | 156 | 0.26 | 0 | 138 | 0.27 | 0 | 195 | 0.33 | 1 | 150 | 0.30 | 0 |
| Back Lane (right and ahead) | 88 | 0.14 | 0 | 9 | 0.04 | 0 | 117 | 0.19 | 0 | 10 | 0.04 | 0 |
| Mobberley Road (ahead, left and right) | 415 | 0.10 | 0 | 618 | 0.22 | 0 | 493 | 0.11 | 0 | 670 | 0.24 | 0 |
| Ashley Road (ahead, left and right) | 221 | 0.51 | 1 | 1 | 0.00 | 0 | 295 | 0.73 | 3 | 1 | 0.00 | 0 |

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16.5.337 The conclusions drawn in paragraphs 18.5.172 to 18.5.173 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum RFC from 0.88 in the 2039 future baseline to 0.00 with the AP2 revised scheme in 2039 on the Ashley Road (ahead, left and right) approach in the AM peak hour, with a corresponding change in queue length from six PCU in the future baseline to no queue. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in RFC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and well within capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum RFC from 0.94 in the 2051 future baseline to 0.00 with the AP2 revised scheme in 2051 on the Ashley Road (ahead, left and right) approach in the AM peak hour, with a corresponding change in queue length from nine PCU in the future baseline to no queue. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in RFC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and well within capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

Chicago Avenue/Malaga Avenue

16.5.338 Table 18-283 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-283 below replaces Table 18-283 in the main TA.

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Table 18-283: Chicago Avenue/Malaga Avenue junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------------|-----------------|------------|--------|------------------|--------------|--------|-----------------|------------|--------|------------------|--------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with scheme | the AP2 revi | sed |
| Car Park Access Road | 268 | 27% | 0 | 271 | 28% | 0 | 297 | 30% | 0 | 300 | 31% | 0 |
| Malaga Avenue | 751 | 112% | 7 | 743 | 111% | 7 | 784 | 122% | 8 | 762 | 119% | 8 |
| Chicago Avenue | 171 | 23% | 0 | 220 | 29% | 0 | 167 | 23% | 0 | 161 | 23% | 0 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 futur | e baseline | | 2051 with scheme | the AP2 revi | sed |
| Car Park Access Road | 277 | 33% | 0 | 279 | 39% | 0 | 298 | 37% | 0 | 300 | 40% | 0 |
| Malaga Avenue | 643 | 93% | 2 | 860 | 98% | 2 | 677 | 101% | 6 | 718 | 107% | 7 |
| Chicago Avenue | 331 | 36% | 0 | 438 | 47% | 0 | 372 | 40% | 0 | 409 | 44% | 0 |

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16.5.339 The conclusions drawn in paragraphs 18.5.175 to 18.5.176 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will increase from 93% in the 2039 future baseline to 98% with the AP2 revised scheme in 2039 on the Malaga Avenue approach, with no change in corresponding queue length. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 122% in the 2051 future baseline to 119% with the AP2 revised scheme in 2051 on the Malaga Avenue approach in the AM peak hour, with no change in corresponding queue length. In the PM peak hour, the maximum VoC will increase from 101% in the 2051 future baseline to 107% with the AP2 revised scheme in 2051 on the Malaga Avenue approach, with a corresponding change in queue length from six PCU in the future baseline to seven PCU. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline."

World Way/Chicago Avenue/Palma Avenue

16.5.340 Table 18-284 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-284 below replaces Table 18-284 in the main TA.

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Table 18-284: World Way/Chicago Avenue/Palma Avenue junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--------------------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futui | re baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | vised |
| World Way | 52 | 3% | 0 | 55 | 3% | 0 | 34 | 2% | 0 | 44 | 3% | 0 |
| Chicago Avenue | 725 | 80% | 0 | 748 | 83% | 0 | 729 | 80% | 0 | 705 | 75% | 0 |
| Palma Avenue (northwest) | 1,313 | 79% | 1 | 1,692 | 101% | 7 | 1,656 | 99% | 5 | 1,704 | 102% | 7 |
| 17:00-18:00 | 2039 futui | re baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | vised |
| World Way | 383 | 20% | 0 | 408 | 24% | 0 | 336 | 19% | 0 | 327 | 19% | 0 |
| Chicago Avenue | 835 | 92% | 1 | 896 | 103% | 5 | 878 | 96% | 1 | 884 | 96% | 1 |
| Palma Avenue (northwest) | 1,324 | 79% | 1 | 1,759 | 93% | 1 | 1,510 | 101% | 8 | 1,681 | 104% | 8 |

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16.5.341 The conclusions drawn in paragraphs 18.5.178 to 18.5.179 of the main are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 79% in the 2039 future baseline to 101% with the AP2 revised scheme in 2039 on the Palma Avenue (north-west) approach in the AM peak hour, with a corresponding change in queue length from one PCU in the future baseline to seven PCU. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 92% in the 2039 future baseline to 103% with the AP2 revised scheme in 2039 on the Chicago Avenue approach, with a corresponding change in queue length from one PCU in the future baseline to five PCU. The assessment shows that in the AM peak hour the junction operates within capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.

The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 99% in the 2051 future baseline to 102% with the AP2 revised scheme in 2051 on the Palma Avenue (north-west) approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to seven PCU. In the PM peak hour, the maximum VoC will increase from 101% in the 2051 future baseline to 104% with the AP2 revised scheme in 2051 on the Palma Avenue (north-west) approach, with no change in corresponding queue length. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

Tithebarn Road/High Elm Road/Chapel Road

16.5.342 Table 18-285 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-285 below replaces Table 18-285 in the main TA.

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Table 18-285: Tithebarn Road/High Elm Road/Chapel Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|---------------------------|-----------------|------------|--------|-----------------|---------------|----------|-----------------|----------|--------|-----------------|---------------|-----------|
| 08:00-09:00 | 2039 futui | re baselin | е | 2039 with th | ne AP2 revise | d scheme | 2051 future | baseline | | 2051 with t | he AP2 revise | ed scheme |
| Tithebarn Road (north) | 171 | 9% | 0 | 212 | 11% | 0 | 214 | 11% | 0 | 214 | 11% | 0 |
| High Elm Road | 1 | 0% | 0 | 19 | 8% | 0 | 16 | 7% | 0 | 23 | 10% | 0 |
| Chapel Lane (south) | 723 | 103% | 3 | 715 | 90% | 1 | 869 | 80% | 0 | 858 | 79% | 0 |
| Chapel Lane (west) | 108 | 48% | 0 | 107 | 36% | 0 | 60 | 19% | 0 | 85 | 26% | 0 |
| 17:00-18:00 | 2039 futui | re baselin | е | 2039 with th | ne AP2 revise | d scheme | 2051 future | baseline | | 2051 with t | he AP2 revise | ed scheme |
| Tithebarn Road (north) | 239 | 12% | 0 | 241 | 12% | 0 | 265 | 13% | 0 | 266 | 13% | 0 |
| High Elm Road | 32 | 7% | 0 | 22 | 5% | 0 | 26 | 7% | 0 | 150 | 38% | 0 |
| Chapel Lane (south) | 253 | 13% | 0 | 260 | 13% | 0 | 274 | 14% | 0 | 300 | 16% | 0 |
| Chapel Lane (west) | 152 | 42% | 0 | 143 | 40% | 0 | 237 | 63% | 1 | 187 | 53% | 0 |

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16.5.343 The conclusions drawn in paragraphs 18.5.181 to 18.5.182 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 103% in the 2039 future baseline to 90% with the AP2 revised scheme in 2039 on the Chapel Lane (south) approach in the AM peak hour, with a corresponding change in queue length from three PCU in the future baseline to one PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hours. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline.

The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction."

A538 Hale Road/Elmridge Drive

16.5.344 Table 18-286 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-286 below replaces Table 18-286 in the main TA.

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Table 18-286: A538 Hale Road/Elmridge Drive junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-----------------------|-----------------|----------------------|--------|----------------------------------|----------------------------------|------------|-----------------|------------|----------------------------------|----------------------------------|-----|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with the AP2 revised scheme | | 2051 futur | e baseline | | 2051 with the AP2 revised scheme | | sed | |
| A538 Hale Road (east) | 861 | 43% | 0 | 796 | 40% | 0 | 1,105 | 55% | 0 | 973 | 49% | 0 |
| Elmridge Drive | 610 | 94% | 6 | 484 | 72% | 2 | 288 | 46% | 3 | 290 | 49% | 3 |
| A538 Hale Road (west) | 367 | 18% | 0 | 373 | 19% | 0 | 334 | 17% | 0 | 435 | 22% | 0 |
| 17:00-18:00 | 2039 futur | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | e baseline | | 2051 with the AP2 revised scheme | | |
| A538 Hale Road (east) | 621 | 31% | 0 | 317 | 16% | 0 | 612 | 31% | 0 | 347 | 17% | 0 |
| Elmridge Drive | 17 | 3% | 0 | 5 | 1% | 0 | 83 | 15% | 1 | 30 | 5% | 0 |
| A538 Hale Road (west) | 531 | 27% | 0 | 603 | 30% | 0 | 640 | 32% | 0 | 768 | 40% | 0 |

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16.5.345 The conclusions drawn in paragraphs 18.5.184 to 18.5.185 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 94% in the 2039 future baseline to 72% with the AP2 revised scheme in 2039 on the Elmridge Drive approach in the AM peak hour, with a corresponding change in queue length from six PCU in the future baseline to two PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and well within capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction."

A538 Hale Road/Shay Lane

16.5.346 Table 18-287 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-287 below replaces Table 18-287 in the main TA.

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Table 18-287: A538 Hale Road/Shay Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | |
|------------------------|------------------------------|------|--------|----------------------------------|-------------|--------|-----------------|------------|--------|----------------------------------|--------------|-----------|--|
| 08:00-09:00 | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 futur | e baseline | | 2051 with the AP2 revised scheme | | | |
| A538 Hale Road (north) | 847 | 42% | 0 | 933 | 47% | 0 | 1,088 | 55% | 0 | 1,018 | 51% | 0 | |
| Shay Lane | 241 | 102% | 6 | 153 | 83% | 2 | 191 | 108% | 5 | 163 | 97% | 4 | |
| A538 Hale Road (south) | 829 | 91% | 1 | 797 | 93% | 1 | 421 | 101% | 2 | 511 | 97% | 1 | |
| 17:00-18:00 | 0-18:00 2039 future baseline | | | | h the AP2 r | evised | 2051 futur | e baseline | | 2051 with th | ne AP2 revis | ed scheme | |
| A538 Hale Road (north) | 673 | 34% | 0 | 576 | 30% | 0 | 657 | 33% | 0 | 591 | 31% | C | |
| Shay Lane | 249 | 88% | 2 | 263 | 98% | 4 | 260 | 96% | 4 | 293 | 91% | 2 | |
| A538 Hale Road (south) | 742 | 62% | 0 | 823 | 81% | 0 | 871 | 87% | 0 | 828 | 96% | 1 | |

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16.5.347 The conclusions drawn in paragraphs in 18.5.187 and 18.5.188 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 102% in the 2039 future baseline to 83% with the AP2 revised scheme in 2039 on the Shay Lane approach in the AM peak hour, with a corresponding change in queue length from six PCU in the future baseline to two PCU. In the PM peak hour, the maximum VoC will increase from 88% in the 2039 future baseline to 98% with the AP2 revised scheme in 2039 on the Shay Lane approach, with a corresponding change in queue length from two PCU in the future baseline to four PCU. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour, and an adverse impact on the operation of the junction in the PM peak hour which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme in 2051 will decrease the maximum VoC from 108% in the 2051 future baseline to 97% with the AP2 revised scheme in 2051 on the Shay Lane approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to four PCU. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 87% in the future baseline to 96% with the AP2 revised scheme in 2051 on the A538 Hale Road (south) approach. Queue length will increase from no queue in the future baseline to one with the AP2 revised scheme. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour. "

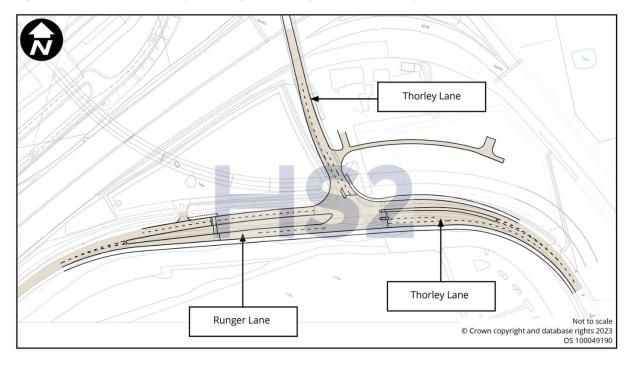
Runger Lane/Thorley Lane

- 16.5.348 Table 18-288 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-288 below replaces Table 18-288 in the main TA.
- 16.5.349 The main TA reported that the Runger Lane/Thorley Lane junction would be modified to a three-arm signal controlled junction as part of the 'Rainbow Works' highway improvement package associated with the expansion of Manchester Airport. This change was accounted for in the future baseline assessment for the original scheme. However, a requirement has been identified to include the modifications to the Thorley Lane and Runger Lane junction within the AP2 revised scheme. Figure 18-97.1 shows the junction layout introduced as part of the AP2 revised scheme.

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Figure 18-97.1: Junction layout diagram (Runger Lane/Thorley Lane)



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Table 18-288: Runger Lane/Thorley Lane junction 2039 and 2051 future baseline and AP2 revised scheme (proposed layout) junction capacity assessment

| Approach | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | Flow, PCU/hr | DoS | Q, PCU | |
|---------------------------------------|-----------------|-------------|--------|--|-----------------------|--------|----------------------|-------------|--------|--|--|--------|--|
| 08:00-09:00 | 2039 futu | re baseline | 9 | | the AP2 reproposed la | | 2051 future baseline | | | | 2051 with the AP2 revised scheme (proposed layout) | | |
| Thorley Lane (east) (ahead) | 305 | 29% | 4 | 260 | 28% | 4 | 352 | 34% | 4 | 240 | 27% | 4 | |
| Thorley Lane (east) (ahead and right) | 459 | 43% | 4 | 263 | 77% | 8 | 516 | 59% | 5 | 282 | 82% | 9 | |
| Runger Lane (left and ahead) | 785 | 86% | 16 | 513 | 91% | 14 | 883 | 99% | 29 | 514 | 96% | 19 | |
| Runger Lane (ahead) | 619 | 74% | 12 | 558 | 91% | 15 | 736 | 87% | 17 | 569 | 97% | 22 | |
| Thorley Lane (west) (left) | 211 | 33% | 2 | 549 | 96% | 27 | 243 | 41% | 3 | 588 | 100% | 40 | |
| Thorley Lane (west) (right) | 88 | 44% | 2 | 570 | 96% | 27 | 82 | 41% | 2 | 605 | 100% | 40 | |
| 17:00-18:00 | 2039 futu | re baseline | 2 | 2039 with the AP2 revised scheme (proposed layout) | | | 2051 futu | re baseline | | 2051 with the AP2 revised scheme (proposed layout) | | | |
| Thorley Lane (east) (ahead) | 447 | 44% | 6 | 504 | 45% | 5 | 501 | 48% | 7 | 560 | 50% | 6 | |
| Thorley Lane (east) (ahead and right) | 633 | 56% | 7 | 537 | 68% | 8 | 697 | 61% | 8 | 637 | 66% | 7 | |
| Runger Lane (left and ahead) | 508 | 49% | 4 | 206 | 61% | 4 | 574 | 59% | 7 | 284 | 53% | 5 | |
| Runger Lane (ahead) | 266 | 33% | 4 | 233 | 63% | 5 | 375 | 45% | 6 | 313 | 55% | 5 | |
| Thorley Lane (west) (left) | 22 | 3% | 0 | 350 | 68% | 6 | 34 | 4% | 0 | 684 | 66% | 6 | |
| Thorley Lane (west) (right) | 122 | 54% | 3 | 351 | 68% | 6 | 117 | 58% | 3 | 344 | 66% | 6 | |

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16.5.350 The conclusions drawn in paragraphs 18.5.190 to 18.5.191 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the DoS from 33% in the 2039 future baseline to 96% with the AP2 revised scheme in 2039 on the Thorley Lane (west) (left) approach in the AM peak hour, with a corresponding change in queue length from two PCU in the future baseline to 27 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in DoS and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will increase the DoS from 41% in the 2051 future baseline to 100% with the AP2 revised scheme in 2051 on both the Thorley Lane (west) (left) approach and on the Thorley Lane (west) (right) approach in the AM peak hour, with a corresponding change in queue length from three PCU in the future baseline to 40 PCU and from two PCU in the future baseline to 40 PCU respectively. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in DoS and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

A5144 Delahays Road/A538 Hale Road/B5162 Park Road

16.5.351 Table 18-289 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-289 below replaces Table 18-289 in the main TA.

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Table 18-289: A5144 Delahays Road/A538 Hale Road/B5162 Park Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | |
|------------------------|------------------------------|-----|--------|----------------------------------|-----|--------|-----------------|------------|----------------------------------|----------------------------------|-----|--------|--|
| 08:00-09:00 | 0-09:00 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 futur | e baseline | | 2051 with the AP2 revised scheme | | | |
| A5144 Delahays Road | 936 | 99% | 20 | 1,177 | 87% | 17 | 984 | 107% | 20 | 1,265 | 95% | 18 | |
| A538 Hale Road (south) | 703 | 58% | 12 | 646 | 75% | 11 | 697 | 61% | 12 | 718 | 86% | 12 | |
| B5162 Park Road | 436 | 37% | 8 | 556 | 41% | 6 | 531 | 46% | 9 | 610 | 46% | 7 | |
| A538 Hale Road (north) | 449 | 58% | 10 | 369 | 76% | 7 | 551 | 70% | 12 | 397 | 82% | 8 | |
| 17:00-18:00 | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 futur | e baseline | 2051 with the AP2 revised scheme | | | | |
| A5144 Delahays Road | 681 | 61% | 11 | 711 | 54% | 10 | 787 | 73% | 12 | 776 | 64% | 11 | |
| A538 Hale Road (south) | 664 | 67% | 10 | 638 | 76% | 10 | 682 | 69% | 10 | 624 | 74% | 10 | |
| B5162 Park Road | 494 | 36% | 6 | 553 | 38% | 6 | 596 | 45% | 7 | 661 | 46% | 8 | |
| A538 Hale Road (north) | 360 | 84% | 7 | 411 | 84% | 8 | 369 | 87% | 7 | 442 | 91% | 9 | |

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16.5.352 The conclusions drawn in paragraphs 18.5.193 to 18.5.194 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 99% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the A5144 Delahays Road approach in the AM peak hour, with a corresponding change in queue length from 20 PCU in the future baseline to 17 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 107% in the 2051 future baseline to 95% with the AP2 revised scheme in 2051 on the A5144 Delahays Road approach in the AM peak hour, with a corresponding change in queue length from 20 PCU in the future baseline to 18 PCU. In the PM peak hour, the maximum VoC will increase from 87% in the 2051 future baseline to 91% with the AP2 revised scheme in 2051 on the A538 Hale Road (north) approach, with a corresponding change in queue length from seven PCU in the future baseline to nine PCU. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour which is, in any case, predicted to operate over its capacity in the future baseline."

A538 Hale Road/Westminster Road

16.5.353 Table 18-290 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-290 below replaces Table 18-290 in the main TA.

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Table 18-290: A538 Hale Road/Westminster Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-----------------------|----------------------|---------------------------------------|----------------------------------|-----------------|-----|------------|-----------------|------------|----------------------------------|----------------------------------|-----|--------|
| 08:00-09:00 | 2039 future baseline | | 2039 with the AP2 revised scheme | | | 2051 futur | e baseline | | 2051 with the AP2 revised scheme | | | |
| Westminster Road | 355 | 92% | 2 | 281 | 87% | 2 | 366 | 99% | 5 | 298 | 84% | 1 |
| A538 Hale Road (east) | 797 | 71% | 0 | 811 | 72% | 0 | 851 | 82% | 0 | 921 | 82% | 0 |
| A538 Hale Road (west) | 502 | 28% | 0 | 447 | 24% | 0 | 610 | 33% | 0 | 534 | 29% | 0 |
| 17:00-18:00 | 2039 futur | 2039 future baseline 2039 with scheme | | | | sed | 2051 futur | e baseline | | 2051 with the AP2 revised scheme | | |
| Westminster Road | 400 | 94% | 2 | 370 | 93% | 2 | 410 | 96% | 2 | 359 | 95% | 3 |
| A538 Hale Road (east) | 391 | 40% | 0 | 410 | 42% | 0 | 468 | 45% | 0 | 483 | 56% | 0 |
| A538 Hale Road (west) | 464 | 26% | 0 | 499 | 27% | 0 | 417 | 23% | 0 | 508 | 27% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.354 The conclusions drawn in paragraphs 18.5.184 to 18.5.185 of the main TA replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 92% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the Westminster Road approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM and PM peak hours the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 99% in the 2051 future baseline to 84% with the AP2 revised scheme in 2051 on the Westminster Road approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to one PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM and PM peak hours the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

A5154 Delahays Road/Grove Lane

16.5.355 Table 18-291 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-291 below replaces Table 18-291 in the main TA.

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Table 18-291: A5154 Delahays Road/Grove Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | |
|-----------------------------|----------------------|-----|--------|----------------------------------|------------|--------|-----------------|-------------|--------|----------------------------------|------------|--------|--|
| 08:00-09:00 | 2039 future baseline | | | 2039 with the AP2 revised scheme | | | 2051 futu | re baseline | | 2051 with the AP2 revised scheme | | | |
| A5154 Delahays Road (north) | 646 | 42% | 6 | 769 | 50% | 7 | 690 | 46% | 7 | 759 | 50% | 7 | |
| Grove Lane (east) | 325 | 50% | 5 | 422 | 63% | 7 | 353 | 58% | 6 | 464 | 73% | 7 | |
| A5154 Delahays Road (south) | 742 | 66% | 10 | 738 | 70% | 10 | 808 | 75% | 11 | 775 | 75% | 10 | |
| Grove Lane (west) | 385 | 56% | 6 | 369 | 61% | 6 | 429 | 65% | 7 | 422 | 73% | 7 | |
| 17:00-18:00 | 2039 future baseline | | | 2039 with scheme | the AP2 re | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised | |
| A5154 Delahays Road (north) | 706 | 43% | 7 | 680 | 42% | 6 | 712 | 45% | 7 | 626 | 39% | 6 | |
| Grove Lane (east) | 379 | 67% | 6 | 418 | 74% | 7 | 425 | 76% | 7 | 421 | 75% | 7 | |
| A5154 Delahays Road (south) | 577 | 50% | 8 | 567 | 49% | 8 | 650 | 58% | 9 | 633 | 54% | 8 | |
| Grove Lane (west) | 595 | 94% | 9 | 554 | 92% | 9 | 572 | 96% | 9 | 576 | 97% | 9 | |

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16.5.356 The conclusions drawn in paragraph 18.5.199 and 18.5.200 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will decrease from 94% in the 2039 future baseline to 92% with the AP2 revised scheme in 2039 on the Grove Lane (west) approach with no change in corresponding queue length. The assessment shows that in the AM peak hour the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and a beneficial impact on the operation of the junction in the PM peak hour.

The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue length in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction."

A56 Dunham Road/B5160 Park Road/B5160 Charcoal Road

16.5.357 Table 18-292 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-292 below replaces Table 18-292 in the main TA.

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Table 18-292: A56 Dunham Road/B5160 Park Road/B5160 Charcoal Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-------------------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | rised | 2051 futur | e baseline | | 2051 with scheme | the AP2 rev | rised |
| A56 Dunham Road (north) | 1,006 | 65% | 19 | 1,033 | 67% | 19 | 1,022 | 66% | 19 | 990 | 64% | 19 |
| B5160 Park Road | 729 | 48% | 10 | 782 | 52% | 10 | 822 | 58% | 11 | 877 | 63% | 12 |
| A56 Dunham Road (south) | 1,151 | 76% | 20 | 1,118 | 74% | 19 | 1,258 | 83% | 21 | 1,262 | 84% | 22 |
| B5160 Charcoal Road | 779 | 109% | 14 | 767 | 110% | 14 | 786 | 112% | 14 | 764 | 112% | 14 |
| 17:00-18:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | rised | 2051 futur | e baseline | | 2051 with scheme | the AP2 rev | rised |
| A56 Dunham Road (north) | 983 | 52% | 15 | 986 | 52% | 15 | 955 | 50% | 15 | 966 | 51% | 15 |
| B5160 Park Road | 757 | 66% | 12 | 826 | 72% | 13 | 832 | 75% | 13 | 900 | 80% | 14 |
| A56 Dunham Road (south) | 1,377 | 75% | 21 | 1,374 | 74% | 21 | 1,494 | 81% | 23 | 1,454 | 79% | 22 |
| B5160 Charcoal Road | 504 | 104% | 11 | 502 | 104% | 11 | 511 | 107% | 11 | 505 | 107% | 10 |

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16.5.358 The conclusions drawn in paragraphs 18.5.202 to 18.5.203 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 and 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

A538 Hale Road/Ashfield Road/Victoria Road

16.5.359 Table 18-293 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-293 below replaces Table 18-293 in the main TA.

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Table 18-293: A538 Hale Road/Ashfield Road/Victoria Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--------------------------|-----------------|------------|--------|-----------------|--------------|-----------|-----------------|------------|--------|-----------------|--------------|-----------|
| 08:00-09:00 | 2039 future | e baseline | | 2039 with t | he AP2 revis | ed scheme | 2051 future | e baseline | | 2051 with t | he AP2 revis | ed scheme |
| Ashfield Road | 168 | 91% | 3 | 164 | 89% | 3 | 161 | 90% | 3 | 165 | 90% | 3 |
| A538 Hale Road (east) | 711 | 36% | 0 | 742 | 37% | 0 | 735 | 37% | 0 | 723 | 36% | 0 |
| Victoria Road | 71 | 22% | 0 | 63 | 20% | 0 | 98 | 31% | 0 | 100 | 32% | 0 |
| A538 Hale Road (west) | 494 | 31% | 0 | 471 | 28% | 0 | 556 | 32% | 0 | 496 | 30% | 0 |
| 17:00-18:00 | 2039 future | e baseline | | 2039 with t | he AP2 revis | ed scheme | 2051 future | e baseline | | 2051 with t | he AP2 revis | ed scheme |
| Ashfield Road | 183 | 101% | 5 | 185 | 101% | 5 | 172 | 102% | 5 | 180 | 102% | 5 |
| A538 Hale Road (east) | 428 | 21% | 0 | 430 | 21% | 0 | 450 | 23% | 0 | 423 | 21% | 0 |
| Victoria Road | 49 | 11% | 0 | 36 | 8% | 0 | 92 | 22% | 0 | 90 | 20% | 0 |
| A538 Hale Road (west) | 746 | 67% | 0 | 744 | 62% | 0 | 780 | 81% | 0 | 777 | 68% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.360 The conclusions drawn in paragraphs 18.5.205 and 18.5.206 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 91% in the 2039 future baseline to 89% with the AP2 revised scheme in 2039 on the Ashfield Road approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline.

The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

A5144 Thorley Lane/Clay Lane/Wood Lane

16.5.361 Table 18-294 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-294 below replaces Table 18-294 in the main TA.

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Table 18-294: A5144 Thorley Lane/Clay Lane/Wood Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | rised | 2051 futui | re baseline | | 2051 with scheme | the AP2 rev | ised |
| A5144 Thorley Lane (north) | 870 | 102% | 5 | 851 | 104% | 5 | 865 | 103% | 5 | 869 | 105% | 5 |
| Clay Lane | 821 | 106% | 6 | 755 | 107% | 7 | 797 | 108% | 6 | 764 | 108% | 7 |
| A5144 Thorley Lane (south) | 561 | 86% | 2 | 623 | 91% | 2 | 647 | 97% | 4 | 681 | 100% | 6 |
| Wood Lane | 388 | 73% | 1 | 430 | 83% | 2 | 387 | 80% | 2 | 419 | 88% | 2 |
| 17:00-18:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | rised | 2051 futui | re baseline | | 2051 with scheme | the AP2 rev | ised |
| A5144 Thorley Lane (north) | 920 | 101% | 4 | 947 | 102% | 3 | 954 | 103% | 4 | 983 | 103% | 3 |
| Clay Lane | 732 | 99% | 5 | 764 | 101% | 5 | 733 | 101% | 6 | 779 | 101% | 5 |
| A5144 Thorley Lane (south) | 704 | 100% | 6 | 699 | 100% | 6 | 706 | 101% | 6 | 684 | 101% | 6 |
| Wood Lane | 269 | 57% | 1 | 266 | 57% | 1 | 249 | 54% | 1 | 258 | 57% | 1 |

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16.5.362 The conclusions drawn in paragraphs 18.5.208 and 18.5.209 in the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will not substantially increase the maximum VoC between the 2039 future baseline and the AP2 revised scheme in the AM peak hour. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 86% in the 2039 future baseline to 91% with the AP2 revised scheme in 2039 on the A5144 Thorley Lane (south) approach. There will be no change in queue lengths. In the PM peak hour, the maximum VoC will increase from 99% in 2039 future baseline to 101% with the AP2 revised scheme in 2039 on the Clay Lane approach with no corresponding change in queue lengths. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme will not increase the maximum VoC between the 2051 future baseline and the AP2 revised scheme in the AM and PM peak hours. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 103% in the 2051 future baseline to 105% with the AP2 revised scheme in 2051 on the A5144 Thorley Lane (north) approach. There will be no change in queue length. The assessment shows that in the AM and PM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour which is, in any case, predicted to operate over its capacity in the future baseline."

A56 Old Market Place/Kingsway

16.5.363 Table 18-295 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-295 below replaces Table 18-295 in the main TA.

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Table 18-295: A56 Old Market Place/Kingsway junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------------|-----------------|----------------------|--------|------------------|-------------|--------|-----------------|------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futui | e baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futui | e baseline | | 2051 with scheme | the AP2 rev | rised |
| A56 Old Market Place (north) | 822 | 41% | 0 | 866 | 43% | 0 | 950 | 48% | 0 | 885 | 44% | 0 |
| Kingsway | 262 | 62% | 2 | 258 | 65% | 2 | 235 | 65% | 2 | 277 | 70% | 2 |
| A56 Old Market Place (west) | 527 | 26% | 0 | 519 | 26% | 0 | 434 | 22% | 0 | 485 | 24% | 0 |
| 17:00-18:00 | 2039 futui | 2039 future baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futui | e baseline | | 2051 with scheme | the AP2 rev | rised |
| A56 Old Market Place (north) | 551 | 28% | 0 | 522 | 26% | 0 | 544 | 27% | 0 | 541 | 27% | 0 |
| Kingsway | 627 | 88% | 4 | 646 | 88% | 4 | 677 | 95% | 7 | 677 | 95% | 7 |
| A56 Old Market Place (west) | 748 | 37% | 0 | 753 | 38% | 0 | 767 | 38% | 0 | 775 | 39% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.364 The conclusions drawn in paragraphs 18.5.211 to 18.5.212 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 and 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction."

Oldfield Road/Gorsey Lane

16.5.365 Table 18-296 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-296 below replaces Table 18-296 in the main TA.

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Table 18-296: Oldfield Road/Gorsey Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------------|-----------------|------------|--------|------------------|---------------|--------|-----------------|------------|--------|-----------------------|---------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revi | sed | 2051 future | e baseline | | 2051 with t scheme | he AP2 revis | sed |
| Oldfield Road (east) | 401 | 44% | 0 | 391 | 43% | 0 | 421 | 45% | 0 | 417 | 45% | 0 |
| Gorsey Lane | 738 | 81% | 0 | 722 | 79% | 0 | 851 | 96% | 2 | 842 | 94% | 1 |
| Oldfield Road (west) | 315 | 48% | 0 | 320 | 49% | 0 | 300 | 52% | 0 | 308 | 52% | 0 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 revis | sed | 2051 future | e baseline | | 2051 with t scheme | the AP2 revis | sed |
| Oldfield Road (east) | 606 | 64% | 0 | 625 | 66% | 0 | 623 | 67% | 0 | 640 | 69% | 0 |
| Gorsey Lane | 474 | 54% | 0 | 471 | 54% | 0 | 499 | 58% | 0 | 513 | 59% | 0 |
| Oldfield Road (west) | 241 | 31% | 0 | 242 | 31% | 0 | 271 | 35% | 0 | 266 | 35% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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16.5.366 The conclusions drawn in paragraphs 18.5.214 to 18.5.215 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates within capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction.

The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 96% in the 2051 future baseline to 94% with the AP2 revised scheme in 2051 on the Gorsey Lane approach in the AM peak hour, with a corresponding change in queue length from two PCU in the future baseline to one PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hours. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

A560 Shaftesbury Avenue/A560 Stockport Road/Moss Lane/Wood Lane

16.5.367 Table 18-297 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-297 below replaces Table 18-297 in the main TA.

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Table 18-297: A560 Shaftesbury Avenue/A560 Stockport Road/Moss Lane/Wood Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--|-----------------|-------------|--------|-----------------|-----------|---------|-----------------|-------------|--------|-----------------|-----------|---------|
| 08:00-09:00 | 2039 futu | ıre baseliı | ne | 2039 wit | h the AP2 | revised | 2051 futu | ıre baseliı | ne | 2051 with | h the AP2 | revised |
| Moss Lane | 432 | 81% | 5 | 455 | 93% | 5 | 441 | 94% | 5 | 465 | 98% | 6 |
| B5165 Stockport Road | 220 | 53% | 3 | 220 | 53% | 3 | 248 | 60% | 3 | 237 | 58% | 3 |
| A560 Stockport Road (east) | 648 | 84% | 8 | 656 | 85% | 8 | 732 | 97% | 9 | 718 | 95% | 9 |
| Wood Lane | 397 | 83% | 5 | 361 | 71% | 4 | 423 | 97% | 5 | 381 | 78% | 5 |
| A560 Stockport Road (west) | 745 | 100% | 9 | 759 | 102% | 9 | 749 | 101% | 9 | 759 | 102% | 9 |
| A560 Shaftesbury Avenue (internal westbound) | 868 | 22% | 0 | 877 | 22% | 0 | 980 | 24% | 0 | 956 | 24% | 0 |
| A560 Stockport Road (internal westbound) | 868 | 48% | 9 | 877 | 48% | 9 | 980 | 54% | 10 | 956 | 52% | 10 |
| A560 Stockport Road (internal eastbound) | 658 | 17% | 0 | 663 | 17% | 0 | 664 | 17% | 0 | 689 | 18% | 0 |
| A560 Shaftesbury Avenue (internal eastbound) | 499 | 25% | 4 | 532 | 27% | 4 | 541 | 27% | 4 | 605 | 31% | 5 |
| 17:00-18:00 | 2039 futu | ıre baseliı | ne | 2039 wit | h the AP2 | revised | 2051 futu | ıre baseliı | ne | 2051 with | h the AP2 | revised |
| Moss Lane | 423 | 95% | 5 | 423 | 95% | 5 | 426 | 99% | 5 | 427 | 99% | 5 |
| B5165 Stockport Road | 203 | 55% | 2 | 208 | 57% | 2 | 232 | 63% | 3 | 246 | 67% | 3 |
| A560 Stockport Road (east) | 576 | 70% | 7 | 581 | 71% | 7 | 574 | 70% | 7 | 616 | 76% | 8 |
| Wood Lane | 340 | 64% | 4 | 344 | 65% | 4 | 361 | 69% | 4 | 349 | 65% | 4 |
| A560 Stockport Road (west) | 902 | 107% | 10 | 905 | 107% | 10 | 915 | 108% | 10 | 918 | 108% | 10 |
| A560 Shaftesbury Avenue (internal westbound) | 779 | 19% | 0 | 789 | 20% | 0 | 806 | 20% | 0 | 862 | 22% | 0 |
| A560 Stockport Road (internal westbound) | 779 | 40% | 8 | 789 | 40% | 8 | 806 | 41% | 8 | 862 | 44% | 8 |
| A560 Stockport Road (internal eastbound) | 951 | 26% | 0 | 948 | 25% | 0 | 985 | 26% | 0 | 1,007 | 27% | 0 |
| A560 Shaftesbury Avenue (internal eastbound) | 454 | 22% | 3 | 472 | 23% | 3 | 501 | 25% | 4 | 539 | 26% | 4 |

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16.5.368 The conclusions drawn in paragraphs 18.5.217 to 18.5.218 of the main are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 81% in the 2039 future baseline to 93% with the AP2 revised scheme in 2039 on the Moss Lane approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline.

The change in traffic due to operation of the AP2 revised scheme will not substantially increase the maximum VoC between the 2051 future baseline and the AP2 revised scheme in the AM peak hour. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 94% in the 2051 future baseline to 98% with the AP2 revised scheme in 2051 on the Moss Lane approach. Queue length will increase from five in the future baseline to six with the AP2 revised scheme. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline."

A56 Manchester Road/B5164 Barrington Road

16.5.369 Table 18-298 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-298 below replaces Table 18-298 in the main TA.

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Table 18-298: A56 Manchester Road/B5164 Barrington Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-----------------------------|-----------------|------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futui | re baseline | • | 2051 with scheme | the AP2 rev | vised |
| A56 Manchester Road (north) | 1,176 | 48% | 22 | 1,199 | 49% | 23 | 1,182 | 49% | 22 | 1,184 | 49% | 22 |
| B5164 Barrington Road | 544 | 77% | 11 | 551 | 78% | 11 | 585 | 83% | 11 | 599 | 85% | 12 |
| A56 Manchester Road (south) | 698 | 56% | 13 | 702 | 55% | 13 | 715 | 68% | 14 | 718 | 64% | 14 |
| Altrincham Fire Station* | - | - | - | - | - | - | - | - | - | - | - | - |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futui | re baseline | | 2051 with scheme | the AP2 rev | vised |
| A56 Manchester Road (north) | 524 | 22% | 10 | 529 | 23% | 10 | 586 | 25% | 11 | 562 | 24% | 11 |
| B5164 Barrington Road | 569 | 75% | 10 | 579 | 77% | 11 | 679 | 90% | 12 | 684 | 90% | 13 |
| A56 Manchester Road (south) | 785 | 50% | 15 | 791 | 51% | 15 | 806 | 52% | 16 | 807 | 52% | 16 |
| Altrincham Fire Station* | - | - | - | - | - | - | - | - | - | - | - | - |

^{*}Minor approach arm not represented within the strategic traffic model.

16.5.370 The conclusions drawn in paragraphs 18.5.220 to 18.5.221 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction.

The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 83% in the 2051 future baseline to 85% with the AP2 revised scheme in 2051 on the B5164 Barrington Road approach in the AM peak hour, with a corresponding change in queue length from 11 PCU in the future baseline to 12 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates within capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour."

A560 Shaftesbury Avenue/Aimson Road East

16.5.371 Table 18-299 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-299 below replaces Table 18-299 in the main TA.

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Table 18-299: A560 Shaftesbury Avenue/Aimson Road East junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|---------------------------------|-----------------|----------------------|--------|------------------|------------|--------|-----------------|-------------|--------|------------------|------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 re | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| A560 Shaftesbury Avenue (north) | 1,241 | 80% | 9 | 1,279 | 83% | 9 | 1,278 | 83% | 9 | 1,328 | 86% | 9 |
| Aimson Road East | 17 | 6% | 1 | 18 | 6% | 1 | 37 | 12% | 1 | 95 | 31% | 3 |
| A560 Shaftesbury Avenue (south) | 1,361 | 85% | 9 | 1,393 | 87% | 10 | 1,391 | 87% | 10 | 1,473 | 92% | 10 |
| 17:00-18:00 | 2039 futu | 2039 future baseline | | 2039 with scheme | the AP2 re | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| A560 Shaftesbury Avenue (north) | 1,108 | 77% | 7 | 1,194 | 83% | 8 | 1,129 | 79% | 8 | 1,221 | 85% | 8 |
| Aimson Road East | 18 | 5% | 0 | 26 | 7% | 1 | 33 | 9% | 1 | 84 | 23% | 2 |
| A560 Shaftesbury Avenue (south) | 1,141 | 75% | 8 | 1,228 | 81% | 8 | 1,214 | 80% | 8 | 1,284 | 85% | 9 |

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16.5.372 The conclusions drawn in paragraphs 18.5.223 to 18.5.224 of the main TA are replaced by:

"The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 85% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the A560 Shaftesbury Avenue (south) approach in the AM peak hour, with a corresponding change in queue length from nine PCU in the future baseline to 10 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the PM peak hour.

The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 87% in the 2051 future baseline to 92% with the AP2 revised scheme in 2051 on the A560 Shaftesbury Avenue (south) approach in the AM peak hour, with no change in corresponding queue length. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 79% in the 2051 future baseline to 85% with the AP2 revised scheme in 2051 on the A560 Shaftesbury Avenue (north) approach. There will be no change in queue lengths. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in the future baseline and close to capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction."

A56 Manchester Road/B5165 Park Road/Woodcote Road

16.5.373 Table 18-300 in the main TA summarises the results of the changes in performance of the junction as a result of the original scheme. Table 18-300 below replaces Table 18-300 in the main TA.

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Table 18-300: A56 Manchester Road/B5165 Park Road/Woodcote Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-----------------------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | • | 2051 with scheme | the AP2 rev | /ised |
| A56 Manchester Road (north) | 1,957 | 101% | 31 | 1,978 | 102% | 31 | 2,019 | 104% | 31 | 2,027 | 104% | 31 |
| B5165 Park Road | 448 | 99% | 11 | 452 | 100% | 11 | 466 | 103% | 11 | 468 | 104% | 11 |
| A56 Manchester Road (south) | 1,275 | 49% | 17 | 1,293 | 49% | 17 | 1,351 | 52% | 19 | 1,340 | 51% | 18 |
| Woodcote Road* | - | - | - | - | - | - | - | - | - | - | - | - |
| 17:00-18:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | /ised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | /ised |
| A56 Manchester Road (north) | 1,633 | 94% | 29 | 1,632 | 94% | 29 | 1,673 | 96% | 30 | 1,669 | 96% | 30 |
| B5165 Park Road | 493 | 100% | 12 | 495 | 100% | 12 | 504 | 102% | 12 | 506 | 103% | 12 |
| A56 Manchester Road (south) | 1,306 | 50% | 18 | 1,346 | 52% | 18 | 1,472 | 57% | 21 | 1,495 | 58% | 21 |
| Woodcote Road* | - | - | - | - | - | - | - | - | - | - | - | - |

^{*}Minor approach arm not represented within the strategic traffic model.

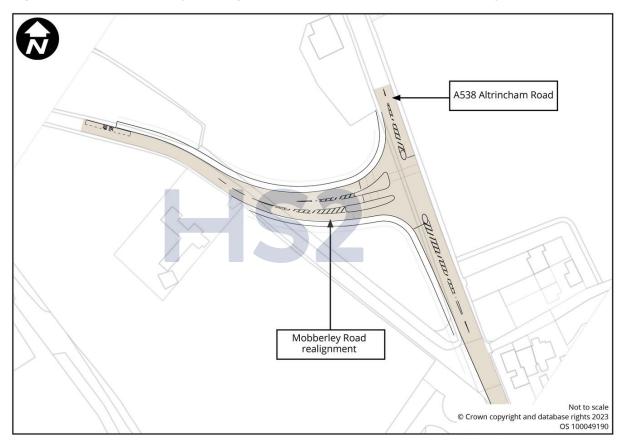
16.5.374 The conclusions drawn in paragraphs 18.5.226 to 18.5.227 of the main TA are replaced by:

"The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 and 2051 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline."

A538 Altrincham Road/Mobberley Road

16.5.375 The AP2 revised scheme will result in the permanent realignment of Mobberley Road to form a new signalised junction with the A538 Altrincham Road. Figure 18.98.1 shows the junction layout introduced as part of the AP2 revised scheme.

Figure 18.98.1: Junction layout diagram (A538 Altrincham Road/Mobberley Road)



16.5.376 Table 18-300.1 and Table 18-300.2 summarise the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051 based on the existing junction layout and with the proposed junction layout respectively.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.1: A538 Altrincham Road/Mobberley Road junction 2039 and 2051 future baseline and AP2 revised scheme (existing layout) junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------------|----------------------|-------------|-----------|-----------------|------------------------|--------|----------------------|-------------|-------------|-----------------|-------------------------|--------|
| 08:00-09:00 | 2039 futu layout) | re baseline | (existing | | the AP2 reexisting lay | | 2051 futu layout) | re baseline | e (existing | | AP2 revise existing lay | |
| A538 Altrincham Road (north) | 884 | 60% | 0 | 982 | 96% | 1 | 867 | 97% | 1 | 894 | 103% | 1 |
| A538 Altrincham Road (south) | 936 | 48% | 0 | 1,077 | 55% | 0 | 1,125 | 57% | 0 | 1,213 | 62% | 0 |
| Mobberley Road | 390 | 100% | 6 | 346 | 100% | 6 | 389 | 112% | 6 | 340 | 109% | 6 |
| 17:00-18:00 | 2039 futu layout) | re baseline | (existing | | the AP2 reexisting lay | | 2051 futu layout) | re baseline | e (existing | | AP2 revise existing lay | |
| A538 Altrincham Road (north) | 1,241 | 91% | 0 | 1,269 | 99% | 1 | 1,298 | 102% | 1 | 1,302 | 103% | 1 |
| A538 Altrincham Road (south) | 815 | 42% | 0 | 813 | 41% | 0 | 778 | 40% | 0 | 833 | 42% | 0 |
| Mobberley Road | 204 | 54% | 0 | 329 | 87% | 2 | 374 | 98% | 5 | 385 | 104% | 6 |

Table 18-300.2: A538 Altrincham Road/Mobberley Road junction 2039 and 2051 future baseline and AP2 revised scheme (proposed layout) junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------------|-----------------------|--------------------------|--------|-----------------|-----------------------|--------|------------------------|--------------------------|--------|-----------------|---------------------------|--------|
| 08:00-09:00 | 2039 futu (propose | re baseline d layout) | • | | the AP2 reproposed la | | 2051 futu (proposed | re baseline l layout) | | | AP2 revise proposed la | |
| A538 Altrincham Road (north) | 884 | 60% | 0 | 1,006 | 97% | 10 | 867 | 97% | 1 | 911 | 105% | 13 |
| A538 Altrincham Road (south) | 936 | 48% | 0 | 1,015 | 94% | 15 | 1,125 | 57% | 0 | 1,073 | 100% | 16 |
| Mobberley Road | 390 | 100% | 6 | 444 | 64% | 10 | 389 | 112% | 6 | 593 | 86% | 14 |
| 17:00-18:00 | | 2039 future baseline | | | the AP2 reproposed la | | 2051 futu (proposed | re baseline l layout) | | | AP2 revise proposed la | |
| A538 Altrincham Road (north) | 1,241 | 91% | 0 | 1,269 | 95% | 7 | 1,298 | 102% | 1 | 1,302 | 102% | 7 |
| A538 Altrincham Road (south) | 815 | 42% | 0 | 802 | 74% | 9 | 778 | 40% | 0 | 817 | 75% | 9 |
| Mobberley Road | 204 | 54% | 0 | 294 | 48% | 5 | 374 | 98% | 5 | 428 | 70% | 8 |

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- 16.5.377 The assessment shows that in 2039, based on the existing layout, in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme.
- 16.5.378 The assessment shows that in 2051, based on the existing layout, in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme.
- 16.5.379 With the proposed layout, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 48% in the 2039 future baseline to 94% with the AP2 revised scheme in 2039 on the A538 Altrincham Road (south) approach in the AM peak hour, with a corresponding change in queue length from no queue in the future baseline to 15 PCU. In the PM peak hour, the maximum VoC will increase from 91% in the 2039 future baseline to 95% with the AP2 revised scheme in 2039 on the A538 Altrincham Road (north) approach, with a corresponding change in queue length from no queue in the future baseline to seven PCU. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction, which is, in any case, predicted to operate over its capacity in the future baseline.
- 16.5.380 The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 57% in the 2051 future baseline to 100% with the AP2 revised scheme in 2051 on the A538 Altrincham Road (south) approach in the AM peak hour, with a corresponding change in queue length from no queue in the future baseline to 16 PCU. In the PM peak hour, the VoC will decrease from 98% in the 2051 future baseline to 70% with the AP2 revised scheme in 2051 on the Mobberley Road approach, with a corresponding change in queue length from five PCU in the future baseline to eight PCU. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the PM peak hour, which is, in any case, predicted to operate over its capacity in the future baseline.
- 16.5.381 The junction mitigation scheme upgrades this junction from a priority junction to a signalised junction, which increases the overall junction capacity and as a result, increases traffic flows through this junction.

A538 Wilmslow Road/Sunbank Lane

16.5.382 Table 18-300.3 summarises the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.3: A538 Wilmslow Road/Sunbank Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--|-----------------|-------------|--------|---------------------|-----------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu | ire baselin | e | 2039 with scheme | the AP2 r | evised | 2051 futu | ire baselin | e | 2051 with scheme | n AP2 revis | ed |
| A538 Wilmslow Road (internal southbound) (nearside) (ahead) | 448 | 36% | 1 | 629 | 51% | 1 | 439 | 36% | 1 | 635 | 51% | 1 |
| A538 Wilmslow Road (internal southbound) (centre) (ahead) | 571 | 43% | 2 | 757 | 57% | 7 | 531 | 40% | 1 | 777 | 59% | 7 |
| A538 Wilmslow Road (internal southbound) (offside) (right) | 631 | 85% | 17 | 683 | 95% | 23 | 663 | 92% | 21 | 745 | 110% | 60 |
| A538 Wilmslow Road (south) (nearside) (left and ahead) | 626 | 83% | 17 | 744 | 96% | 26 | 702 | 90% | 21 | 916 | 111% | 78 |
| A538 Wilmslow Road (south) (offside) (ahead) | 644 | 85% | 18 | 748 | 96% | 27 | 722 | 93% | 23 | 916 | 111% | 76 |
| Sunbank Lane (west) (nearside and centre) (left) | 183 | 14% | 2 | 205 | 18% | 2 | 203 | 16% | 2 | 237 | 22% | 3 |
| Sunbank Lane (west) (offside) (right) | 23 | 12% | 1 | 2 | 1% | 0 | 37 | 20% | 1 | 3 | 2% | 0 |
| A538 Wilmslow Road (internal northbound) (nearside) (ahead) | 704 | 45% | 16 | 792 | 51% | 20 | 789 | 51% | 19 | 974 | 57% | 22 |
| A538 Wilmslow Road (internal northbound) (offside) (ahead and right) | 749 | 45% | 17 | 905 | 54% | 21 | 838 | 50% | 19 | 1095 | 62% | 24 |
| Sunbank Lane (east) (left and right) | 29 | 9% | 0 | 29 | 14% | 1 | 31 | 9% | 0 | 31 | 15% | 1 |

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|--|-----------------|-------------|---------|------------------|-------------|---------|-----------------|-------------|--------|------------------|-------------|--------|
| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
| A538 Wilmslow Road (north) (nearside) (left and ahead) | 478 | 44% | 7 | 669 | 62% | 12 | 467 | 43% | 7 | 678 | 63% | 13 |
| A538 Wilmslow Road (north) (centre and offside) (ahead) | 1193 | 61% | 11 | 1439 | 74% | 15 | 1181 | 64% | 12 | 1520 | 77% | 15 |
| 17:00-18:00 | 2039 futu | ıre baselin | е | 2039 with scheme | n the AP2 r | evised | 2051 futu | ıre baselin | e | 2051 with scheme | n AP2 revis | ed |
| A538 Wilmslow Road (internal southbound) (nearside) (ahead) | 600 | 49% | 1 | 653 | 53% | 1 | 589 | 48% | 1 | 653 | 53% | 1 |
| A538 Wilmslow Road (internal southbound) (centre) (ahead) | 705 | 53% | 5 | 754 | 57% | 6 | 700 | 53% | 5 | 757 | 57% | 7 |
| A538 Wilmslow Road (internal southbound) (offside) (right) | 213 | 63% | 6 | 218 | 61% | 6 | 233 | 58% | 6 | 240 | 60% | 6 |
| A538 Wilmslow Road (south) (nearside) (left and ahead) | 744 | 62% | 13 | 759 | 64% | 14 | 733 | 65% | 14 | 788 | 70% | 16 |
| A538 Wilmslow Road (south) (offside) (ahead) | 763 | 64% | 14 | 761 | 65% | 14 | 747 | 66% | 14 | 790 | 70% | 16 |
| Sunbank Lane (west) (nearside and centre) (left) | 565 | 64% | 7 | 571 | 67% | 8 | 621 | 65% | 8 | 633 | 70% | 9 |
| Sunbank Lane (west) (offside) (right) | 12 | 6% | 0 | 11 | 6% | 0 | 18 | 10% | 1 | 12 | 6% | 0 |
| A538 Wilmslow Road (internal northbound) (nearside) (ahead) | 1005 | 64% | 16 | 984 | 63% | 17 | 1019 | 65% | 17 | 1044 | 67% | 19 |
| A538 Wilmslow Road (internal northbound) (offside) (ahead and right) | 1067 | 64% | 16 | 1107 | 66% | 17 | 1082 | 65% | 17 | 1167 | 70% | 19 |

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| Approach | Flow, PCU/hr | VoC | Q, PCU |
|---|-----------------|-----|--------|-----------------|-----|--------|-----------------|-----|--------|-----------------|-----|--------|
| Sunbank Lane (east) (left and right) | 65 | 28% | 2 | 65 | 29% | 2 | 70 | 29% | 2 | 71 | 31% | 2 |
| A538 Wilmslow Road (north) (nearside) (left and ahead) | 630 | 58% | 11 | 685 | 63% | 13 | 620 | 57% | 11 | 687 | 63% | 13 |
| A538 Wilmslow Road (north) (centre and offside) (ahead) | 913 | 64% | 13 | 967 | 69% | 14 | 924 | 64% | 12 | 991 | 69% | 14 |

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- 16.5.383 The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 83% in the 2039 future baseline to 96% with the AP2 revised scheme in 2039 on the A538 Wilmslow Road (south) (nearside) (left and ahead) approach in the AM peak hour, with a corresponding change in queue length from 17 PCU in the future baseline to 26 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour.
- 16.5.384 The change in traffic due to operation of the AP2 revised scheme will increase the VoC from 90% in the 2051 future baseline to 111% with the AP2 revised scheme in 2051 on the A538 Wilmslow Road (south) (nearside) (left and ahead) approach in the AM peak hour, with a corresponding change in queue length from 21 PCU in the future baseline to 78 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour.

A538 Manchester Road/A538 Alderley Road/Station Road/Swan Street

16.5.385 Table 18-300.4 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

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Table 18-300.4: A538 Manchester Road/A538 Alderley Road/Station Road/Swan Street junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--------------------------|-----------------|----------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 future | baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | rised |
| A538 Manchester Road | 927 | 83% | 15 | 927 | 81% | 15 | 930 | 81% | 15 | 929 | 80% | 15 |
| Station Road | 15 | 2% | 0 | 2 | 0% | 0 | 7 | 1% | 0 | 4 | 1% | 0 |
| Station Road (left slip) | 221 | 101% | 5 | 225 | 105% | 5 | 176 | 102% | 5 | 203 | 104% | 5 |
| A538 Alderley Road | 944 | 77% | 14 | 896 | 73% | 13 | 909 | 74% | 13 | 891 | 72% | 13 |
| Swan Street | 151 | 30% | 3 | 161 | 32% | 4 | 264 | 53% | 6 | 205 | 41% | 5 |
| 17:00-18:00 | 2039 future | baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | rised |
| A538 Manchester Road | 888 | 76% | 14 | 933 | 79% | 15 | 930 | 80% | 15 | 936 | 80% | 15 |
| Station Road | 2 | 0% | 0 | 2 | 0% | 0 | 2 | 0% | 0 | 2 | 0% | 0 |
| Station Road (left slip) | 243 | 82% | 2 | 262 | 96% | 4 | 273 | 102% | 5 | 252 | 102% | 5 |
| A538 Alderley Road | 1,110 | 81% | 15 | 1,087 | 79% | 14 | 1,117 | 82% | 15 | 1,103 | 81% | 14 |
| Swan Street | 2 | 1% | 0 | 7 | 2% | 0 | 21 | 5% | 1 | 63 | 16% | 2 |

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- The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 101% in the 2039 future baseline to 105% with the AP2 revised scheme in 2039 on the Station Road (left slip) approach in the AM peak hour, with no change in corresponding queue length. In the PM peak hour, the maximum VoC will increase from 82% in the 2039 future baseline to 96% with the AP2 revised scheme in 2039 on the Station Road (left slip) approach, with a corresponding change in queue length from two PCU in the future baseline to four PCU. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in the future baseline and close to capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.
- 16.5.387 The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 102% in the 2051 future baseline to 104% with the AP2 revised scheme in 2051 on the Station Road (left slip) approach in the AM peak hour, with no change in corresponding queue length. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM and PM peak hours the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour.

Roaring Gate Lane/Thorley Lane/Shay Lane

16.5.388 Table 18-300.5 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

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Table 18-300.5: Roaring Gate Lane/Thorley Lane/Shay Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------------|-----------------|------------|--------|------------------|-------------|--------|-----------------|------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futur | e baseline | • | 2039 with scheme | the AP2 rev | ised | 2051 futur | e baseline | • | 2051 with scheme | the AP2 rev | ised |
| Roaring Gate Lane | 332 | 30% | 0 | 916 | 56% | 0 | 405 | 39% | 0 | 1,004 | 60% | 0 |
| Thorley Lane | 315 | 16% | 0 | 477 | 24% | 0 | 307 | 15% | 0 | 600 | 30% | 0 |
| Shay Lane | 13 | 2% | 0 | 148 | 107% | 4 | 17 | 3% | 0 | 114 | 108% | 4 |
| 17:00-18:00 | 2039 futur | e baseline | | 2039 with scheme | the AP2 rev | ised | 2051 futur | e baseline | | 2051 with scheme | the AP2 rev | ised |
| Roaring Gate Lane | 275 | 24% | 0 | 635 | 38% | 0 | 297 | 27% | 0 | 675 | 46% | 0 |
| Thorley Lane | 442 | 23% | 0 | 703 | 37% | 0 | 407 | 21% | 0 | 599 | 31% | 0 |
| Shay Lane | 0 | 0% | 0 | 210 | 100% | 5 | 23 | 5% | 0 | 218 | 101% | 5 |

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- 16.5.389 The change in traffic due to operation of the AP2 revised scheme will not substantially increase the maximum VoC between the 2039 future baseline and the AP2 revised scheme in the AM or PM peak hours. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 2% in the 2039 future baseline to 107% with the AP2 revised scheme in 2039 on the Shay Lane approach. Queue length will increase from no queue in the future baseline to 4 PCU with the AP2 revised scheme. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 0% in the 2039 future baseline to 100% with the AP2 revised scheme in 2039 on the Shay Lane approach. Queue length will increase from no queue in the future baseline to 5 PCU with the AP2 revised scheme. The assessment shows that in the AM and PM peak hours, the junction operates well within capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.
- 16.5.390 The change in traffic due to operation of the AP2 revised scheme will not substantially increase the maximum VoC between the 2051 future baseline and the AP2 revised scheme in the AM or PM peak hours. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 3% in the 2051 future baseline to 108% with the AP2 revised scheme in 2051 on the Shay Lane approach. Queue length will increase from no queue in the future baseline to four PCU with the AP2 revised scheme. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 5% in the 2051 future baseline to 101% with the AP2 revised scheme in 2051 on the Shay Lane approach. Queue length will increase from no queue in the future baseline to five PCU with the AP2 revised scheme. The assessment shows that in the AM and PM peak hours, the junction operates well within capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.

Moss Lane/Grove Lane/Bancroft Road/Clarence Road

16.5.391 Table 18-300.6 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

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MA06, MA07 and MA08

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Table 18-300.6: Moss Lane/Grove Lane/Bancroft Road/Clarence Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|----------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futui | re baseline | | 2039 with scheme | the AP2 rev | ised | 2051 futui | e baseline | | 2051 with scheme | the AP2 rev | ised |
| Moss Lane | 422 | 22% | 0 | 380 | 21% | 0 | 488 | 26% | 0 | 437 | 23% | 0 |
| Grove Lane | 380 | 101% | 5 | 398 | 95% | 2 | 356 | 105% | 5 | 351 | 98% | 4 |
| Bancroft Road | 496 | 54% | 0 | 445 | 43% | 0 | 549 | 61% | 0 | 558 | 57% | 0 |
| Clarence Road* | - | - | - | - | - | - | - | - | - | - | - | - |
| 17:00-18:00 | 2039 futui | re baseline | | 2039 with scheme | the AP2 rev | ised | 2051 futui | e baseline | | 2051 with scheme | the AP2 rev | ised |
| Moss Lane | 630 | 34% | 0 | 609 | 33% | 0 | 677 | 37% | 0 | 680 | 37% | 0 |
| Grove Lane | 331 | 80% | 1 | 304 | 74% | 1 | 286 | 74% | 1 | 235 | 65% | 1 |
| Bancroft Road | 427 | 58% | 0 | 405 | 52% | 0 | 421 | 56% | 0 | 450 | 57% | 0 |
| Clarence Road* | - | - | - | - | - | - | - | - | - | - | - | - |

^{*} Minor approach arm not represented within the strategic traffic model.

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- The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 101% in the 2039 future baseline to 95% with the AP2 revised scheme in 2039 on the Grove Lane approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to two PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in the future baseline and well within capacity with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.
- 16.5.393 The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 105% in the 2051 future baseline to 98% with the AP2 revised scheme in 2051 on the Grove Lane approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to four PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

Whitecarr Lane/Roaring Gate Lane

16.5.394 Table 18-300.7 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.7: Whitecarr Lane/Roaring Gate Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|--------------------------|-----------------|-------------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | • | 2039 with scheme | the AP2 rev | vised | 2051 futui | re baseline | • | 2051 with scheme | the AP2 rev | ised |
| Whitecarr Lane (east) | 1,009 | 52% | 0 | 1,360 | 74% | 0 | 999 | 52% | 0 | 1,426 | 78% | 0 |
| Roaring Gate Lane | 320 | 73% | 4 | 448 | 74% | 3 | 318 | 66% | 3 | 566 | 88% | 5 |
| Whitecarr Lane (west) | 562 | 69% | 0 | 339 | 112% | 2 | 561 | 70% | 0 | 334 | 113% | 2 |
| 17:00-18:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futui | re baseline | | 2051 with scheme | the AP2 rev | ised |
| Whitecarr Lane (east) | 993 | 51% | 0 | 1,103 | 59% | 0 | 918 | 47% | 0 | 1,107 | 59% | 0 |
| Roaring Gate Lane | 372 | 96% | 8 | 513 | 99% | 8 | 389 | 94% | 8 | 526 | 97% | 8 |
| Whitecarr Lane (west) | 655 | 81% | 0 | 553 | 106% | 2 | 711 | 90% | 1 | 573 | 106% | 2 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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- The change in traffic due to operation of the AP2 revised scheme will not substantially 16.5.395 increase the maximum VoC between the 2039 future baseline and the AP2 revised scheme in the AM peak hour. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the increase the VoC from 69% in the 2039 future baseline to 112% with the AP2 revised scheme in 2039 on the Whitecarr Lane (west) approach. Queue length will increase from no queue in the future baseline to two PCU with the AP2 revised scheme. In the PM peak hour, the change in traffic due to operation of the AP2 revised scheme will increase the VoC from 81% in the 2039 future baseline to 106% with the AP2 revised scheme in 2039 on the Whitecarr Lane (west) approach. Queue length will increase from no queue in the future baseline to two PCU with the AP2 revised scheme. The assessment shows that in the AM peak hour the junction operates well within capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.
- The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 70% in the 2051 future baseline to 113% with the AP2 revised scheme in 2051 on the Whitecarr lane (west) approach in the AM peak hour, with a corresponding change in queue length from no queue in the future baseline to two PCU. In the PM peak hour, the VoC will increase from 90% in the 2051 future baseline to 106% with the AP2 revised scheme in 2051 on the Whitecarr Lane (west) approach, with a corresponding change in queue length from one PCU in the future baseline to two PCU. The assessment shows that in the AM peak hour the junction operates well within capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.

A56 Dunham Road/Regent Road/Booth Road

16.5.397 Table 18-300.8 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.8: A56 Dunham Road/Regent Road/Booth Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------|-----------------|-------------|--------|------------------|------------|--------|-----------------|-------------|--------|------------------|------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 re | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| Booth Road* | - | - | - | - | - | - | - | - | - | - | - | - |
| A56 Dunham Road (east) | 1,084 | 87% | 10 | 1,085 | 87% | 10 | 1,145 | 91% | 10 | 1,094 | 87% | 10 |
| Regent Road | 127 | 69% | 3 | 129 | 70% | 3 | 145 | 79% | 3 | 138 | 75% | 3 |
| A56 Dunham Road (west) | 523 | 101% | 5 | 478 | 87% | 4 | 298 | 102% | 4 | 362 | 101% | 4 |
| 17:00-18:00 | 2039 futu | re baseline | | 2039 with scheme | the AP2 re | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | vised |
| Booth Road* | - | - | - | - | - | - | - | - | - | - | - | - |
| A56 Dunham Road (east) | 1,050 | 83% | 9 | 1,057 | 84% | 9 | 1,113 | 88% | 10 | 1,120 | 89% | 10 |
| Regent Road | 121 | 65% | 3 | 122 | 65% | 3 | 138 | 74% | 3 | 138 | 74% | 3 |
| A56 Dunham Road (west) | 594 | 73% | 5 | 611 | 74% | 5 | 646 | 84% | 6 | 637 | 84% | 6 |

^{*} Minor approach arm not represented within the strategic traffic model.

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- 16.5.398 The change in traffic due to operation of the AP2 revised scheme will decrease the maximum VoC from 101% in the 2039 future baseline to 87% with the AP2 revised scheme in 2039 on the A56 Dunham Road (west) in the AM peak hour with a corresponding change in queue length from five PCU in the future baseline to four PCU. The assessment shows that for this junction, the change in traffic due to operation in 2039 of the AP2 revised scheme will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates over capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour which is, however, predicted to operate over its capacity in the future baseline.
- 16.5.399 The change in traffic due to operation of the AP2 revised scheme will not substantially decrease the maximum VoC between the 2051 future baseline and the AP2 revised scheme in the AM peak hour. However, in the AM peak hour, the change in traffic due to operation of the AP2 revised scheme will decrease the VoC from 91% in the 2051 future baseline to 87% with the AP2 revised scheme in 2051 on the A56 Dunham Road (east) approach. There will be no change in queue lengths. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a beneficial impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour which is, however, predicted to operate over its capacity in the future baseline.

A538 Altrincham Road/Hawthorn Street

16.5.400 Table 18-300.9 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.9: A538 Altrincham Road/Hawthorn Street junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|-----------------------------|-----------------|-------------|--------|------------------|------------|--------|-----------------|-------------|--------|------------------|------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | • | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | evised |
| A538 Altrincham Road (east) | 684 | 34% | 0 | 735 | 37% | 0 | 937 | 47% | 0 | 848 | 42% | 0 |
| Hawthorn Street | 383 | 102% | 6 | 358 | 101% | 6 | 267 | 102% | 5 | 305 | 101% | 6 |
| A538 Altrincham Road (west) | 1,188 | 106% | 0 | 1,145 | 107% | 0 | 980 | 110% | 0 | 1,046 | 109% | 0 |
| 17:00-18:00 | 2039 futu | re baseline | • | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | | 2051 with scheme | the AP2 re | evised |
| A538 Altrincham Road (east) | 351 | 17% | 0 | 367 | 18% | 0 | 351 | 17% | 0 | 358 | 18% | 0 |
| Hawthorn Street | 545 | 97% | 3 | 544 | 99% | 4 | 517 | 92% | 2 | 564 | 101% | 5 |
| A538 Altrincham Road (west) | 1,130 | 56% | 0 | 1,174 | 59% | 0 | 1,195 | 60% | 0 | 1,224 | 61% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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- 16.5.401 The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will increase from 97% in the 2039 future baseline to 99% with the AP2 revised scheme in 2039 on the Hawthorn Street approach with a corresponding change in queue length from three PCU in the future baseline to four PCU. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour.
- 16.5.402 The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the AM peak hour. In the PM peak hour, the maximum VoC will increase from 92% in the 2051 future baseline to 101% with the AP2 revised scheme in 2051 on the Hawthorn Street approach with a corresponding change in queue length from two PCU in the future baseline to five PCU. The assessment shows that in the AM peak hour the junction operates over capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction in the AM peak hour and an adverse impact on the operation of the junction in the PM peak hour.

B5161 Langham Road/South Downs Road

16.5.403 Table 18-300.10 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.10: B5161 Langham Road/South Downs Road junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|------------------------------|-----------------|-------------|--------|------------------|------------|--------|-----------------|-------------|--------|------------------|------------|--------|
| 08:00-09:00 | 2039 futu | re baseline | 2 | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | 2 | 2051 with scheme | the AP2 re | evised |
| B5161 Langham Road (east) | 45 | 2% | 0 | 36 | 2% | 0 | 141 | 7% | 0 | 69 | 3% | 0 |
| South Downs Road | 405 | 60% | 0 | 511 | 76% | 0 | 444 | 72% | 0 | 616 | 94% | 1 |
| B5161 Langham Road (west) | 362 | 49% | 0 | 381 | 52% | 0 | 405 | 61% | 0 | 410 | 58% | 0 |
| 17:00-18:00 | 2039 futu | re baseline | • | 2039 with scheme | the AP2 re | evised | 2051 futu | re baseline | • | 2051 with scheme | the AP2 re | evised |
| B5161 Langham Road (east) | 141 | 7% | 0 | 141 | 7% | 0 | 154 | 8% | 0 | 194 | 10% | 0 |
| South Downs Road | 216 | 35% | 0 | 345 | 56% | 0 | 257 | 42% | 0 | 380 | 65% | 0 |
| B5161 Langham Road (west) | 219 | 33% | 0 | 239 | 35% | 0 | 219 | 33% | 0 | 256 | 40% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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- 16.5.404 The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates well within capacity in the future baseline and within capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction.
- 16.5.405 The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 72% in the 2051 future baseline to 94% with the AP2 revised scheme in 2051 on the South Downs Road approach in the AM peak hour with a corresponding change in queue length from no queue in the future baseline to one PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates well within capacity in the future baseline and close to capacity with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

B5165 Park Road/Moss Lane

16.5.406 Table 18-300.11 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.11: B5165 Park Road/Moss Lane junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|---------------------------|-----------------|----------|--------|------------------|-------------|--------|-----------------|-------------|--------|------------------|-------------|--------|
| 08:00-09:00 | 2039 future | baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | rised |
| B5165 Park Road (east) | 741 | 40% | 0 | 784 | 43% | 0 | 821 | 45% | 0 | 818 | 45% | 0 |
| Moss Lane | 94 | 13% | 0 | 99 | 14% | 0 | 113 | 16% | 0 | 166 | 23% | 0 |
| B5165 Park Road (west) | 601 | 93% | 1 | 598 | 93% | 1 | 607 | 94% | 1 | 613 | 97% | 2 |
| 17:00-18:00 | 2039 future | baseline | | 2039 with scheme | the AP2 rev | vised | 2051 futu | re baseline | | 2051 with scheme | the AP2 rev | vised |
| B5165 Park Road (east) | 496 | 26% | 0 | 514 | 27% | 0 | 505 | 26% | 0 | 534 | 28% | 0 |
| Moss Lane | 374 | 52% | 4 | 352 | 51% | 3 | 382 | 54% | 4 | 348 | 52% | 4 |
| B5165 Park Road (west) | 597 | 62% | 0 | 641 | 68% | 0 | 672 | 66% | 0 | 710 | 71% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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- 16.5.407 The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2039 will not result in substantial changes in VoC and queue lengths in the AM or PM peak hours. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in the future baseline and with the AP2 revised scheme. The changes in traffic will have a negligible impact on the operation of the junction.
- The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 94% in the 2051 future baseline to 97% with the AP2 revised scheme in 2051 on the B5165 Park Road (west) approach in the AM peak hour, with a corresponding change in queue length from one PCU in the future baseline to two PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in both the future baseline and with the AP2 revised scheme. In the PM peak hour, the junction operates well within capacity in the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the PM peak hour.

Thorley Lane/Palma Avenue

16.5.409 Table 18-300.12 summaries the performance of the junction as a result of the AP2 revised scheme in both 2039 and 2051.

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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Table 18-300.12: Thorley Lane/Palma Avenue junction 2039 and 2051 future baseline and AP2 revised scheme junction capacity assessment

| Approach | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU | Flow, PCU/hr | VoC | Q, PCU |
|---------------------|-----------------|----------|--------|----------------------|-----------|--------|-----------------|----------|--------|------------------------|-------------|--------|
| 08:00-09:00 | 2039 future l | oaseline | | 2039 with the scheme | AP2 revis | ed | 2051 future l | oaseline | | 2051 with th scheme | e AP2 revis | ed |
| Thorley Lane (east) | 238 | 18% | 0 | 245 | 28% | 0 | 262 | 28% | 0 | 268 | 30% | 0 |
| Palma Avenue | 103 | 6% | 0 | 158 | 10% | 0 | 92 | 6% | 0 | 96 | 6% | 0 |
| Hong Kong Avenue | 1,108 | 71% | 1 | 1,109 | 74% | 1 | 1,292 | 85% | 1 | 1,294 | 83% | 1 |
| Sydney Avenue | 100 | 13% | 0 | 105 | 14% | 0 | 108 | 17% | 0 | 113 | 17% | 0 |
| Thorley Lane (west) | 1,296 | 70% | 5 | 1,545 | 103% | 12 | 1,537 | 92% | 9 | 1,420 | 110% | 13 |
| 17:00-18:00 | 2039 future k | oaseline | | 2039 with the scheme | AP2 revis | ed | 2051 future l | oaseline | | 2051 with th scheme | e AP2 revis | ed |
| Thorley Lane (east) | 860 | 45% | 0 | 862 | 58% | 1 | 1,075 | 63% | 1 | 1,035 | 65% | 1 |
| Palma Avenue | 244 | 17% | 0 | 562 | 35% | 0 | 234 | 18% | 0 | 341 | 24% | 0 |
| Hong Kong Avenue | 1,147 | 93% | 3 | 1,143 | 106% | 10 | 1,241 | 110% | 11 | 1,244 | 110% | 11 |
| Sydney Avenue | 107 | 19% | 0 | 110 | 22% | 0 | 111 | 22% | 0 | 114 | 22% | 0 |
| Thorley Lane (west) | 622 | 34% | 1 | 832 | 52% | 0 | 818 | 46% | 1 | 933 | 52% | 0 |

SES2 and AP2 ES Volume 5, Appendix: TR-003-00006 Traffic and transport MA06, MA07 and MA08

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- 16.5.410 The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 70% in the 2039 future baseline to 103% with the AP2 revised scheme in 2039 on the Thorley Lane (west) approach in the AM peak hour, with a corresponding change in queue length from five PCU in the future baseline to 12 PCU. In the PM peak hour, the maximum VoC will increase from 93% in the 2039 future baseline to 106% with the AP2 revised scheme in 2039 on the Hong Kong Avenue approach, with a corresponding change in queue length from three PCU to 10 PCU. The assessment shows that in the AM peak hour the junction operates well within capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction.
- 16.5.411 The change in traffic due to operation of the AP2 revised scheme will increase the maximum VoC from 92% in the 2051 future baseline to 110% with the AP2 revised scheme in 2051 on the Thorley Lane (west) approach in the AM peak hour, with a corresponding change in queue length from nine PCU in the future baseline to 13 PCU. The assessment shows that for this junction, the change in traffic due to operation of the AP2 revised scheme in 2051 will not result in substantial changes in VoC and queue lengths in the PM peak hour. The assessment shows that in the AM peak hour the junction operates close to capacity in the future baseline and over capacity with the AP2 revised scheme. In the PM peak hour, the junction operates over capacity in both the future baseline and with the AP2 revised scheme. The changes in traffic will have an adverse impact on the operation of the junction in the AM peak hour and a negligible impact on the operation of the junction in the PM peak hour.

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