



Weston Homes plc

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# **REDEVELOPMENT OF ANGLIA SQUARE, NORWICH**

Ref: WH 7/3: Appendices for the Proof of Evidence of Martin Paddle BSc CEng CWEM MICE FCIHT MCIWEM in regard Transport, Highway and Accessibility Matters: PINS ref: APP/G2625/V/19/3225505; LPA ref: 18/00330/F



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**TYPE OF DOCUMENT (VERSION)      PUBLIC**

**PROJECT NO. 62241024**

**OUR REF. NO. ANGLIA SQUARE, NORWICH: M J PADDLE, APPENDICES FOR THE PROOF OF EVIDENCE**

**DATE: 03 DECEMBER 2019**



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## **REDEVELOPMENT OF ANGLIA SQUARE, NORWICH**

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# QUALITY CONTROL

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| Issue/revision | First issue  | Revision 1 | Revision 2 | Revision 3 |
|----------------|--|------------|------------|------------|
| Remarks        | Final  |            |            |            |
| Date           | 03 Dec 2019  |            |            |            |
| Prepared by    | Tim Parker   |            |            |            |
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| Authorised by  | Martin Paddle  |            |            |            |
| Signature      |  |            |            |            |
| Project number | 62241024   |            |            |            |
| Report number  | Final  |            |            |            |
| File reference | Version R01b   |            |            |            |



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**MJP1**

## 2031 Planning Proxy Re-use Case Compared with Proposed Development - AADT flows

| Road Name                             |                              | Planning Proxy Re-use Case                     | Proposed Development                           | Increase in AADT Traffic with Planning Proxy Re-use Case |
|---------------------------------------|------------------------------|--|--|--|
|                                       | Location                     | Total 24hr Annual Average Daily Traffic (AADT) | Total 24hr Annual Average Daily Traffic (AADT) | Increase in AADT Traffic with Planning Proxy Re-use Case |
| Pitt Street. Northbound               | 52°38'09.6"N 1°17'33.6"E     | 12552  | 12857  | -305   |
| Pitt Street. Southbound               | 52°38'09.6"N 1°17'33.6"E     | 9735   | 9230   | 505  |
| Edward Street (South). Eastbound      | 52°38'13.9"N 1°17'41.9"E     | 4597   | 4034   | 563  |
| Edward Street (South). Westbound      | 52°38'13.9"N 1°17'41.9"E     | 1007   | 975  | 32   |
| Magdalen Street. Northbound           | 52°38'06.7"N 1°17'47.6"E     | 2214   | 2206   | 7  |
| Magdalen Street. Southbound           | 52°38'06.7"N 1°17'47.6"E     | 1580   | 1580   | 0  |
| Edward Street / Esdelle St Southbound | 52°38'17.9"N 1°17'39.9"E     | 15454  | 14785  | 669  |
| New Botolph Street                    | 52°38'12.84"N 1°17'37.1688"E | 13538  | 12540  | 998  |
| Magpie Road. Eastbound                | 52°38'20.4"N 1°17'33.6"E     | 13439  | 12730  | 709  |
| St Augustines Street. Northbound      | 52°38'15.3"N 1°17'33.6"E     | 17258  | 16657  | 602  |
| St Crispins Road. Eastbound           | 52°38'08.2"N 1°17'50.1"E     | 11751  | 11493  | 259  |
| St Crispins Road. Westbound           | 52°38'08.2"N 1°17'50.1"E     | 9848   | 9975   | -127   |
| Duke Street. Northbound               | 52°38'03.6"N 1°17'31.0"E     | 11235  | 11235  | 0  |
| St Crispin Road (West). Eastbound     | 52°38'07.2"N 1°17'23.0"E     | 14829  | 14893  | -63  |
| St Crispin Road (West). Westbound     | 52°38'07.2"N 1°17'23.0"E     | 20355  | 20498  | -142   |
| Aylsham Road. Northbound              | 52°38'22.9"N 1°17'24.2"E     | 10523  | 10065  | 458  |
| Aylsham Road. Southbound              | 52°38'22.9"N 1°17'24.2"E     | 8495   | 7941   | 553  |
| Bull Close Lane. Northbound           | 52°38'18.4"N 1°17'53.0"E     | 3695   | 3698   | -3   |
| Bull Close Lane. Southbound           | 52°38'18.4"N 1°17'53.0"E     | 5108   | 5108   | 0  |
| Whitefrairs. Northbound               | 52°38'08.1"N 1°17'59.7"E     | 3975   | 3975   | 0  |
| Whitefrairs. Southbound               | 52°38'08.1"N 1°17'59.7"E     | 3832   | 3832   | 0  |
|                                       | <b>Total</b>                 | <b>195020</b>                                  | <b>190307</b>                                  | <b>4713</b>  |

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**MJP2**



## 2031 Base

| Road Name                             | Location                       | Total 24hr AADT |                 | Total 18 Hr AAWT |                 | Daily Average Speed (mph) |
|---------------------------------------|--------------------------------|-----------------|-----------------|------------------|-----------------|---------------------------|
|                                       |                                | 24 hr AADT      | 24 hr AADT %HGV | 18hr AAWT        | 18 hr AAWT %HGV |                           |
| Pitt Street. Northbound               | 52°38'09.6"N 1°17'33.6"E       | 11526           | 4.30%           | 11462            | 4.67%           | 18.2                      |
| Pitt Street. Southbound               | 52°38'09.6"N 1°17'33.6"E       | 8624            | 3.87%           | 8522             | 4.05%           | 18.2                      |
| Edward Street (South). Eastbound      | 52°38'13.9"N 1°17'41.9"E       | 2254            | 22.18%          | 2269             | 24.13%          | 20.5                      |
| Edward Street (South). Westbound      | 52°38'13.9"N 1°17'41.9"E       | 1007            | 33.53%          | 1050             | 35.09%          | 20.5                      |
| Magdalen Street. Northbound           | 52°38'06.7"N 1°17'47.6"E       | 2214            | 13.59%          | 2249             | 14.70%          | 18.8                      |
| Magdalen Street. Southbound           | 52°38'06.7"N 1°17'47.6"E       | 1580            | 19.73%          | 1622             | 20.34%          | 18.6                      |
| Edward Street / Esdelle St Southbound | 52°38'17.9"N 1°17'39.9"E       | 12800           | 8.44%           | 12992            | 9.27%           | 22.6                      |
| New Botolph Street                    | 52° 38' 12.84" N 1° 17' 37.16" | 11615           | 4.08%           | 11833            | 4.36%           | -                         |
| Magpie Road. Eastbound                | 52°38'20.4"N 1°17'33.6"E       | 11334           | 7.15%           | 11237            | 7.81%           | 24.5                      |
| St Augustines Street. Northbound      | 52°38'15.3"N 1°17'33.6"E       | 15309           | 6.36%           | 15289            | 7.22%           | 17.5                      |
| St Crispins Road. Eastbound           | 52°38'08.2"N 1°17'50.1"E       | 11237           | 6.69%           | 11573            | 7.47%           | 31.8                      |
| St Crispins Road. Westbound           | 52°38'08.2"N 1°17'50.1"E       | 9848            | 7.85%           | 9608             | 8.15%           | 34.2                      |
| Duke Street. Northbound               | 52°38'03.6"N 1°17'31.0"E       | 11235           | 4.61%           | 10921            | 5.03%           | 19.2                      |
| St Crispin Road (West). Eastbound     | 52°38'07.2"N 1°17'23.0"E       | 14026           | 7.16%           | 14307            | 8.11%           | 27.8                      |
| St Crispin Road (West). Westbound     | 52°38'07.2"N 1°17'23.0"E       | 19630           | 6.88%           | 19828            | 7.17%           | 26.1                      |
| Aylsham Road. Northbound              | 52°38'22.9"N 1°17'24.2"E       | 9443            | 7.04%           | 9501             | 7.46%           | 27.8                      |
| Aylsham Road. Southbound              | 52°38'22.9"N 1°17'24.2"E       | 7531            | 6.58%           | 7619             | 7.04%           | 27.0                      |
| Bull Close Lane. Northbound           | 52°38'18.4"N 1°17'53.0"E       | 3247            | 5.17%           | 3358             | 5.62%           | 20.7                      |
| Bull Close Lane. Southbound           | 52°38'18.4"N 1°17'53.0"E       | 5108            | 5.19%           | 5078             | 5.71%           | 23.1                      |
| Whitefrairs. Northbound               | 52°38'08.1"N 1°17'59.7"E       | 3975            | 5.25%           | 4262             | 5.38%           | 19.8                      |
| Whitefrairs. Southbound               | 52°38'08.1"N 1°17'59.7"E       | 3832            | 5.52%           | 3947             | 5.98%           | 21.7                      |

## 2031 Base with Proposed Development

| Road Name                             | Location                           | Total 24hr AADT |                 | Total 18 Hr AAWT |                 | Daily Average Speed (mph) |
|---------------------------------------|------------------------------------|-----------------|-----------------|------------------|-----------------|---------------------------|
|                                       |                                    | 24 hr AADT      | 24 hr AADT %HGV | 18hr AAWT        | 18 hr AAWT %HGV |                           |
| Pitt Street. Northbound               | 52°38'09.6"N 1°17'33.6"E           | 12857           | 4.30%           | 12786            | 4.67%           | 18.2                      |
| Pitt Street. Southbound               | 52°38'09.6"N 1°17'33.6"E           | 9230            | 3.87%           | 9122             | 4.05%           | 18.2                      |
| Edward Street (South). Eastbound      | 52°38'13.9"N 1°17'41.9"E           | 4034            | 22.18%          | 4060             | 24.13%          | 20.5                      |
| Edward Street (South). Westbound      | 52°38'13.9"N 1°17'41.9"E           | 975             | 33.53%          | 1017             | 35.09%          | 20.5                      |
| Magdelen Street. Northbound           | 52°38'06.7"N 1°17'47.6"E           | 2206            | 13.59%          | 2241             | 14.70%          | 18.8                      |
| Magdelen Street. Southbound           | 52°38'06.7"N 1°17'47.6"E           | 1580            | 19.73%          | 1622             | 20.34%          | 18.6                      |
| Edward Street / Esdelle St Southbound | 52°38'17.9"N 1°17'39.9"E           | 14785           | 8.44%           | 15006            | 9.27%           | 22.6                      |
| New Botolph Street                    | 52° 38' 12.84" N 1° 17' 37.1688" E | 12540           | 4.08%           | 12776            | 4.36%           | -                         |
| Magpie Road. Eastbound                | 52°38'20.4"N 1°17'33.6"E           | 12730           | 7.15%           | 12621            | 7.81%           | 24.5                      |
| St Augustines Street. Northbound      | 52°38'15.3"N 1°17'33.6"E           | 16657           | 6.36%           | 16635            | 7.22%           | 17.5                      |
| St Crispins Road. Eastbound           | 52°38'08.2"N 1°17'50.1"E           | 11493           | 6.69%           | 11836            | 7.47%           | 31.8                      |
| St Crispins Road. Westbound           | 52°38'08.2"N 1°17'50.1"E           | 9975            | 7.85%           | 9732             | 8.15%           | 34.2                      |
| Duke Street. Northbound               | 52°38'03.6"N 1°17'31.0"E           | 11235           | 4.61%           | 10921            | 5.03%           | 19.2                      |
| St Crispin Road (West). Eastbound     | 52°38'07.2"N 1°17'23.0"E           | 14893           | 7.16%           | 15191            | 8.11%           | 27.8                      |
| St Crispin Road (West). Westbound     | 52°38'07.2"N 1°17'23.0"E           | 20498           | 6.88%           | 20704            | 7.17%           | 26.1                      |
| Aylsham Road. Northbound              | 52°38'22.9"N 1°17'24.2"E           | 10065           | 7.04%           | 10127            | 7.46%           | 27.8                      |
| Aylsham Road. Southbound              | 52°38'22.9"N 1°17'24.2"E           | 7941            | 6.58%           | 8035             | 7.04%           | 27.0                      |
| Bull Close Lane. Northbound           | 52°38'18.4"N 1°17'53.0"E           | 3698            | 5.17%           | 3824             | 5.62%           | 20.7                      |
| Bull Close Lane. Southbound           | 52°38'18.4"N 1°17'53.0"E           | 5108            | 5.19%           | 5078             | 5.71%           | 23.1                      |
| Whitefrairs. Northbound               | 52°38'08.1"N 1°17'59.7"E           | 3975            | 5.25%           | 4262             | 5.38%           | 19.8                      |
| Whitefrairs. Southbound               | 52°38'08.1"N 1°17'59.7"E           | 3832            | 5.52%           | 3947             | 5.98%           | 21.7                      |

## 2036 Base

| Road Name                             | Location                           | Total 24hr AADT |                 | Total 18 Hr AAWT |                 | Daily Average Speed (mph) |
|---------------------------------------|------------------------------------|-----------------|-----------------|------------------|-----------------|---------------------------|
|                                       |                                    | 24 hr AADT      | 24 hr AADT %HGV | 18hr AAWT        | 18 hr AAWT %HGV |                           |
| Pitt Street. Northbound               | 52°38'09.6"N 1°17'33.6"E           | 11952           | 4.30%           | 11886            | 4.67%           | 18.2                      |
| Pitt Street. Southbound               | 52°38'09.6"N 1°17'33.6"E           | 8682            | 3.87%           | 8580             | 4.05%           | 18.2                      |
| Edward Street (South). Eastbound      | 52°38'13.9"N 1°17'41.9"E           | 2362            | 22.18%          | 2377             | 24.13%          | 20.5                      |
| Edward Street (South). Westbound      | 52°38'13.9"N 1°17'41.9"E           | 1007            | 33.53%          | 1050             | 35.09%          | 20.5                      |
| Magdalen Street. Northbound           | 52°38'06.7"N 1°17'47.6"E           | 2086            | 13.59%          | 2120             | 14.70%          | 18.8                      |
| Magdalen Street. Southbound           | 52°38'06.7"N 1°17'47.6"E           | 1580            | 19.73%          | 1622             | 20.34%          | 18.6                      |
| Edward Street / Esdelle St Southbound | 52°38'17.9"N 1°17'39.9"E           | 12885           | 8.44%           | 13078            | 9.27%           | 22.6                      |
| New Botolph Street                    | 52° 38' 12.84" N 1° 17' 37.1688" E | 11721           | 4.08%           | 11942            | 4.36%           | -                         |
| Maggie Road. Eastbound                | 52°38'20.4"N 1°17'33.6"E           | 11517           | 7.15%           | 11418            | 7.81%           | 24.5                      |
| St Augustines Street. Northbound      | 52°38'15.3"N 1°17'33.6"E           | 15632           | 6.36%           | 15612            | 7.22%           | 17.5                      |
| St Crispins Road. Eastbound           | 52°38'08.2"N 1°17'50.1"E           | 11387           | 6.69%           | 11727            | 7.47%           | 31.8                      |
| St Crispins Road. Westbound           | 52°38'08.2"N 1°17'50.1"E           | 9981            | 7.85%           | 9738             | 8.15%           | 34.2                      |
| Duke Street. Northbound               | 52°38'03.6"N 1°17'31.0"E           | 12127           | 4.61%           | 11788            | 5.03%           | 19.2                      |
| St Crispin Road (West). Eastbound     | 52°38'07.2"N 1°17'23.0"E           | 14233           | 7.16%           | 14519            | 8.11%           | 27.8                      |
| St Crispin Road (West). Westbound     | 52°38'07.2"N 1°17'23.0"E           | 19862           | 6.88%           | 20061            | 7.17%           | 26.1                      |
| Aylsham Road. Northbound              | 52°38'22.9"N 1°17'24.2"E           | 9443            | 7.04%           | 9501             | 7.46%           | 27.8                      |
| Aylsham Road. Southbound              | 52°38'22.9"N 1°17'24.2"E           | 7737            | 6.58%           | 7827             | 7.04%           | 27.0                      |
| Bull Close Lane. Northbound           | 52°38'18.4"N 1°17'53.0"E           | 3259            | 5.17%           | 3370             | 5.62%           | 20.7                      |
| Bull Close Lane. Southbound           | 52°38'18.4"N 1°17'53.0"E           | 5086            | 5.19%           | 5056             | 5.71%           | 23.1                      |
| Whitefrairs. Northbound               | 52°38'08.1"N 1°17'59.7"E           | 4114            | 5.25%           | 4411             | 5.38%           | 19.8                      |
| Whitefrairs. Southbound               | 52°38'08.1"N 1°17'59.7"E           | 3481            | 5.52%           | 3585             | 5.98%           | 21.7                      |

## 2036 Base with Proposed Development

| Road Name                             | Location                           | Total 24hr AADT |                 | Total 18 Hr AAWT |                 | Daily Average Speed (mph) |
|---------------------------------------|------------------------------------|-----------------|-----------------|------------------|-----------------|---------------------------|
|                                       |                                    | 24 hr AADT      | 24 hr AADT %HGV | 18hr AAWT        | 18 hr AAWT %HGV |                           |
| Pitt Street. Northbound               | 52°38'09.6"N 1°17'33.6"E           | 13283           | 4.30%           | 13210            | 4.67%           | 18.2                      |
| Pitt Street. Southbound               | 52°38'09.6"N 1°17'33.6"E           | 9289            | 3.87%           | 9179             | 4.05%           | 18.2                      |
| Edward Street (South). Eastbound      | 52°38'13.9"N 1°17'41.9"E           | 4141            | 22.18%          | 4168             | 24.13%          | 20.5                      |
| Edward Street (South). Westbound      | 52°38'13.9"N 1°17'41.9"E           | 975             | 33.53%          | 1017             | 35.09%          | 20.5                      |
| Magdelen Street. Northbound           | 52°38'06.7"N 1°17'47.6"E           | 2079            | 13.59%          | 2112             | 14.70%          | 18.8                      |
| Magdelen Street. Southbound           | 52°38'06.7"N 1°17'47.6"E           | 1580            | 19.73%          | 1622             | 20.34%          | 18.6                      |
| Edward Street / Esdelle St Southbound | 52°38'17.9"N 1°17'39.9"E           | 14870           | 8.44%           | 15093            | 9.27%           | 22.6                      |
| New Botolph Street                    | 52° 38' 12.84" N 1° 17' 37.1688" E | 12647           | 4.08%           | 12885            | 4.36%           | -                         |
| Maggie Road. Eastbound                | 52°38'20.4"N 1°17'33.6"E           | 12913           | 7.15%           | 12802            | 7.81%           | 24.5                      |
| St Augustines Street. Northbound      | 52°38'15.3"N 1°17'33.6"E           | 16980           | 6.36%           | 16958            | 7.22%           | 17.5                      |
| St Crispins Road. Eastbound           | 52°38'08.2"N 1°17'50.1"E           | 11642           | 6.69%           | 11990            | 7.47%           | 31.8                      |
| St Crispins Road. Westbound           | 52°38'08.2"N 1°17'50.1"E           | 10109           | 7.85%           | 9862             | 8.15%           | 34.2                      |
| Duke Street. Northbound               | 52°38'03.6"N 1°17'31.0"E           | 12127           | 4.61%           | 11788            | 5.03%           | 19.2                      |
| St Crispin Road (West). Eastbound     | 52°38'07.2"N 1°17'23.0"E           | 15100           | 7.16%           | 15403            | 8.11%           | 27.8                      |
| St Crispin Road (West). Westbound     | 52°38'07.2"N 1°17'23.0"E           | 20729           | 6.88%           | 20937            | 7.17%           | 26.1                      |
| Aylsham Road. Northbound              | 52°38'22.9"N 1°17'24.2"E           | 10065           | 7.04%           | 10127            | 7.46%           | 27.8                      |
| Aylsham Road. Southbound              | 52°38'22.9"N 1°17'24.2"E           | 8147            | 6.58%           | 8243             | 7.04%           | 27.0                      |
| Bull Close Lane. Northbound           | 52°38'18.4"N 1°17'53.0"E           | 3710            | 5.17%           | 3836             | 5.62%           | 20.7                      |
| Bull Close Lane. Southbound           | 52°38'18.4"N 1°17'53.0"E           | 5086            | 5.19%           | 5056             | 5.71%           | 23.1                      |
| Whitefrairs. Northbound               | 52°38'08.1"N 1°17'59.7"E           | 4114            | 5.25%           | 4411             | 5.38%           | 19.8                      |
| Whitefrairs. Southbound               | 52°38'08.1"N 1°17'59.7"E           | 3481            | 5.52%           | 3585             | 5.98%           | 21.7                      |

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# MJP3

| Junction 1  |                                 | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|---|---------------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|   |                                 | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| A147 St Crispins Road / A1402 Pitt Street / Duke Street Partially Signalised Roundabout Results | St Crispins Road (Eastbound)    | 71.20%                   | 51.10%                   | 62.60%                  | 67.40%                      | 67.90%                   | 51.90%                   | 65.60%                  | 64.00%                      | 75.20%                   | 51.10%                   | 62.40%                  | 63.40%                      | 73.60%                   | 51.00%                   | 65.40%                  | 66.30%                      |
|   | Pitt Street - Southbound        | 81.70%                   | 94.60%                   | 92.40%                  | 91.90%                      | 90.60%                   | 97.80%                   | 95.80%                  | 88.20%                      | 85.60%                   | 94.90%                   | 102.10%                 | 78.00%                      | 88.90%                   | 89.90%                   | 87.00%                  | 74.30%                      |
|   | St Crispins Road (Westbound)    | 65.60%                   | 55.70%                   | 58.60%                  | 54.10%                      | 69.30%                   | 57.90%                   | 58.70%                  | 52.70%                      | 68.50%                   | 57.00%                   | 58.60%                  | 51.10%                      | 68.10%                   | 56.60%                   | 60.90%                  | 52.10%                      |
|   | Duke Street                     | 88.40%                   | 89.50%                   | 94.10%                  | 104.00%                     | 88.40%                   | 85.70%                   | 94.10%                  | 98.50%                      | 86.20%                   | 90.80%                   | 95.20%                  | 103.20%                     | 86.20%                   | 87.20%                   | 85.00%                  | 98.00%                      |
|   | Pitt Street - Northbound        | 63.80%                   | 78.80%                   | 77.30%                  | 74.40%                      | 44.50%                   | 75.00%                   | 73.60%                  | 72.20%                      | 65.60%                   | 94.40%                   | 88.30%                  | 84.50%                      | 42.60%                   | 74.00%                   | 72.80%                  | 69.50%                      |
|   | New Botolph Street - Right Turn | 40.60%                   | 100.40%                  | 79.60%                  | 79.20%                      | 26.00%                   | 59.80%                   | 43.20%                  | 43.00%                      | 47.80%                   | 85.20%                   | 82.00%                  | 76.40%                      | 26.90%                   | 57.80%                   | 41.60%                  | 38.60%                      |
|   | New Botolph Street - Left Turn  | 57.10%                   | 40.80%                   | 57.70%                  | 46.60%                      | 61.00%                   | 44.60%                   | 48.60%                  | 47.00%                      | 59.90%                   | 41.00%                   | 44.00%                  | 39.30%                      | 59.90%                   | 41.00%                   | 44.00%                  | 39.30%                      |

| Junction 2  |                     | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|---|---------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|   |                     | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| A147 St Crispins Road / A1151 Charlton Road / A147 Barrack Street / White Friars roundabout | A1151 Charlton Rd   | 0.6                      | 0.37                     | 0.46                    | 0.41                        | 0.61                     | 0.38                     | 0.47                    | 0.42                        | 0.57                     | 0.35                     | 0.43                    | 0.39                        | 0.58                     | 0.36                     | 0.43                    | 0.39                        |
|   | A147 Barrack St     | 0.43                     | 0.27                     | 0.27                    | 0.28                        | 0.43                     | 0.3                      | 0.3                     | 0.31                        | 0.36                     | 0.18                     | 0.18                    | 0.21                        | 0.37                     | 0.21                     | 0.22                    | 0.23                        |
|   | Whitefriars         | 0.23                     | 0.3                      | 0.3                     | 0.18                        | 0.23                     | 0.31                     | 0.31                    | 0.18                        | 0.22                     | 0.28                     | 0.27                    | 0.16                        | 0.22                     | 0.28                     | 0.28                    | 0.17                        |
|   | A147 St Crispins Rd | 0.47                     | 0.39                     | 0.42                    | 0.37                        | 0.52                     | 0.43                     | 0.46                    | 0.41                        | 0.43                     | 0.32                     | 0.35                    | 0.31                        | 0.47                     | 0.34                     | 0.38                    | 0.34                        |

| Junction 3  |                 | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|---|-----------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|   |                 | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| Magpie Road / Magdalen Street / A1151 Bull Close Road signalised junction | Magdalen Road   | 83.60%                   | 64.00%                   | 76.40%                  | 75.80%                      | 86.80%                   | 71.20%                   | 85.70%                  | 82.90%                      | 66.8%                    | 69.5%                    | 86.3%                   | 73.0%                       | 75.2%                    | 75.5%                    | 96.0%                   | 72.4%                       |
|   | Bull Close Road | 66.90%                   | 77.30%                   | 73.30%                  | 57.40%                      | 76.80%                   | 98.90%                   | 92.10%                  | 78.90%                      | 69.90%                   | 77.70%                   | 77.40%                  | 59.60%                      | 69.20%                   | 97.10%                   | 95.10%                  | 83.20%                      |
|   | Magdalen Street | 47.50%                   | 71.50%                   | 61.60%                  | 57.70%                      | 53.20%                   | 77.30%                   | 65.80%                  | 63.90%                      | 21.60%                   | 69.90%                   | 77.60%                  | 53.70%                      | 28.30%                   | 75.10%                   | 85.00%                  | 53.70%                      |
|   | Magpie Road     | 66.00%                   | 97.40%                   | 91.30%                  | 71.00%                      | 66.00%                   | 97.40%                   | 91.30%                  | 71.00%                      | 68.50%                   | 98.00%                   | 93.60%                  | 74.60%                      | 68.50%                   | 98.00%                   | 93.60%                  | 74.60%                      |

| Junction 4                                       |                  | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|--|------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|  |                  | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| Magpie Road / Esdelle Street signalised junction | Magpie Rd (East) | 62.10%                   | 58.70%                   | 65.20%                  | 69.20%                      | 64.80%                   | 71.50%                   | 78.40%                  | 87.70%                      | 64.20%                   | 56.50%                   | 63.00%                  | 70.10%                      | 66.90%                   | 67.90%                   | 74.50%                  | 85.30%                      |
|  | Magpie Rd (West) | 94.20%                   | 56.30%                   | 58.60%                  | 56.30%                      | 95.70%                   | 80.50%                   | 84.80%                  | 82.80%                      | 89.70%                   | 54.90%                   | 56.80%                  | 54.80%                      | 91.20%                   | 76.50%                   | 80.20%                  | 76.00%                      |

| Junction 5  |                      | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|---|----------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|   |                      | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| A1402 St Augustines Street / A1402 Aylsham Road / Magpie Road signalised junction | Aylsham Road         | 39.20%                   | 59.50%                   | 49.30%                  | 50.80%                      | 38.50%                   | 66.30%                   | 55.00%                  | 55.50%                      | 37.00%                   | 60.50%                   | 51.70%                  | 50.30%                      | 36.30%                   | 66.60%                   | 56.70%                  | 53.00%                      |
|   | St Augustines Street | 55.70%                   | 72.70%                   | 66.70%                  | 73.00%                      | 60.20%                   | 83.50%                   | 79.10%                  | 80.10%                      | 52.10%                   | 71.10%                   | 72.20%                  | 67.50%                      | 56.20%                   | 80.10%                   | 82.50%                  | 75.50%                      |
|   | Waterloo Road        | 51.20%                   | 52.40%                   | 54.20%                  | 42.30%                      | 51.20%                   | 76.80%                   | 77.50%                  | 54.00%                      | 42.20%                   | 48.60%                   | 56.10%                  | 41.40%                      | 42.80%                   | 68.30%                   | 76.70%                  | 48.70%                      |

| Junction 6   |                             | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|--|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|  |                             | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| A1151 Bull Close Road / Silver Street / Spencer Street priority junction | Spencer St Left turn        | 0.26                     | 0.12                     | 0.19                    | 0.16                        | 0.26                     | 0.12                     | 0.19                    | 0.16                        | 0.25                     | 0.12                     | 0.19                    | 0.16                        | 0.25                     | 0.12                     | 0.19                    | 0.16                        |
|  | Spencer St Right turn       | 0.03                     | 0.03                     | 0.15                    | 0.03                        | 0.03                     | 0.03                     | 0.15                    | 0.03                        | 0.03                     | 0.03                     | 0.15                    | 0.03                        | 0.03                     | 0.03                     | 0.15                    | 0.03                        |
|  | Bull Close Rd SE Ahead      | 0.15                     | 0.24                     | 0.27                    | 0.16                        | 0.17                     | 0.29                     | 0.31                    | 0.21                        | 0.16                     | 0.28                     | 0.3                     | 0.2                         | 0.16                     | 0.28                     | 0.3                     | 0.2                         |
|  | Bull Close Rd SE Right turn | 0.19                     | 0.42                     | 0.42                    | 0.22                        | 0.21                     | 0.44                     | 0.44                    | 0.26                        | 0.21                     | 0.44                     | 0.43                    | 0.24                        | 0.21                     | 0.44                     | 0.43                    | 0.24                        |

| Junction 7   |                         | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|--|-------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|  |                         | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| A1151 Charlton Road / A1151 Bull Close Road / Steward Street priority junction | Steward St              |                          |                          |                         |                             |                          |                          |                         |                             |                          |                          |                         |                             |                          |                          |                         |                             |
|  | Bull Close Rd           | 0.69                     | 0.36                     | 0.46                    | 0.34                        | 0.69                     | 0.36                     | 0.46                    | 0.34                        | 0.67                     | 0.37                     | 0.46                    | 0.34                        | 0.67                     | 0.37                     | 0.47                    | 0.34                        |
|  | Charlton Rd Right/Ahead | 0.02                     | 0.04                     | 0.05                    | 0.02                        | 0.02                     | 0.04                     | 0.05                    | 0.02                        | 0.02                     | 0.04                     | 0.05                    | 0.02                        | 0.02                     | 0.04                     | 0.05                    | 0.02                        |

| Junction 8  |                     | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|---|---------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|   |                     | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| Magdalen Street / Edward Street / Cowgate staggered signalised junction | Magdalen Street (S) | 40.50%                   | 47.40%                   | 36.10%                  | 27.20%                      | 40.50%                   | 47.30%                   | 36.10%                  | 27.20%                      | 35.60%                   | 37.90%                   | 33.50%                  | 21.00%                      | 35.60%                   | 37.80%                   | 33.50%                  | 21.00%                      |
|   | Edward Street       | 30.70%                   | 36.40%                   | 40.20%                  | 52.00%                      | 33.30%                   | 41.30%                   | 47.30%                  | 62.70%                      | 35.00%                   | 35.20%                   | 41.80%                  | 50.80%                      | 38.40%                   | 39.00%                   | 47.80%                  | 57.40%                      |

| Junction 9   |           | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) | Weekday AM (07:45-08:45) | Weekday PM (17:00-18:00) | Friday PM (15:30-16:30) | Saturday Peak (12:00-13:00) |
|--|-----------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-----------------------------|
|  |           | 2028 Base                |                          |                         |                             | 2028 with Development    |                          |                         |                             | 2031 Base                |                          |                         |                             | 2031 with Development    |                          |                         |                             |
| Edward Street / New Botolph Street priority junction | Edward St | 0.28                     | 0.27                     | 0.25                    | 0.31                        | 0.34                     | 0.51                     | 0.49                    | 0.61                        | 0.18                     | 0.27                     | 0.25                    | 0.31                        | 0.36                     | 0.47                     | 0.46                    | 0.52                        |



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