

|                                                                                                                                                                                                             |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>PICADY</b>                                                                                                                                                                                               |                                                                                   |
| GUI Version: 5.1 AE<br>Analysis Program Release: 5.0 (MAY 2010)                                                                                                                                             |                                                                                   |
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| <small>The user of this computer program for the solution of an engineering problem is in no way relieved of the responsibility for the correctness of the solution</small>                                 |                                                                                   |

## Run Analysis

| Parameter    | Values                                                                                    |
|--------------|-------------------------------------------------------------------------------------------|
| File Run     | \\O..\\B2132 Bilsham Road - Loveys Road\\B2132 Bilsham Road - Loveys Road GLEESON 250.vpi |
| Date Run     | 07 December 2017                                                                          |
| Time Run     | 14:58:07                                                                                  |
| Driving Side | Drive On The Left                                                                         |

## Arm Names and Flow Scaling Factors

| Arm   | Arm Name           | Flow Scaling Factor (%) |
|-------|--------------------|-------------------------|
| Arm A | B2132 Bilsham Road | 100                     |
| Arm B | Loveys Road        | 100                     |
| Arm C | B2132 Bilsham Road | 100                     |

## Stream Labelling Convention

Stream A-B contains traffic going from A to B etc.

## Run Information

| Parameter   | Values                           |
|-------------|----------------------------------|
| Run Title   | B2132 Bilsham Road - Loveys Road |
| Location    | Yapton                           |
| Date        | 29 June 2016                     |
| Enumerator  | tmoloney [W3559-ODYSSEY]         |
| Job Number  | 14-111                           |
| Status      | -                                |
| Client      | Gleesons                         |
| Description | -                                |

## Errors and Warnings

| Parameter | Values                |
|-----------|-----------------------|
| Warning   | No Errors Or Warnings |

## Geometric Data

### Geometric Parameters

| Parameter                                   | Minor Arm B |
|---------------------------------------------|-------------|
| Major Road Carriageway Width (m)            | 6.50        |
| Major Road Kerbed Central Reserve Width (m) | 0.00        |

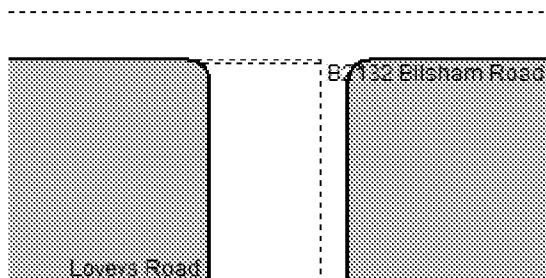
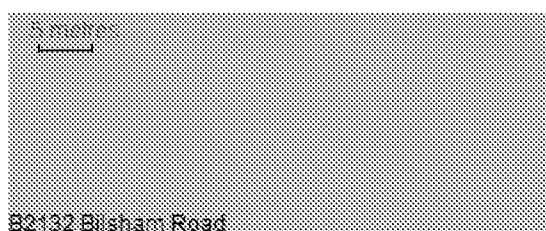
|                                             |                     |
|---------------------------------------------|---------------------|
| Major Road Right Turning Lane Width (m)     | 2.20                |
| Minor Road Width 0m Back from Junction (m)  | 10.00               |
| Minor Road Width 5m Back from Junction (m)  | 4.00                |
| Minor Road Width 10m Back from Junction (m) | 2.65                |
| Minor Road Width 15m Back from Junction (m) | 2.50                |
| Minor Road Width 20m Back from Junction (m) | 2.50                |
| Minor Road Flare Length (veh)               | 1                   |
| Minor Road Visibility To Right (m)          | 150                 |
| Minor Road Visibility To Left (m)           | 150                 |
| Major Road Right Turn Visibility (m)        | 120                 |
| Major Road Right Turn Blocks Traffic        | Yes (if over 1 veh) |

### Slope and Intercept Values

| Stream | Intercept for Stream | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|----------------------|---------------|---------------|---------------|---------------|
| B-A    | 0.000                | 0.000         | 0.000         | 0.000         | 0.000         |
| B-C    | 0.000                | 0.000         | 0.000         | -             | -             |
| C-B    | 643.456              | 0.244         | 0.244         | -             | -             |

Note: Streams may be combined in which case capacity will be adjusted  
These values do not allow for any site-specific corrections

### Junction Diagram



### Demand Data

#### Modelling Periods

| Parameter               | Period      | Duration (min) | Segment Length (min) |
|-------------------------|-------------|----------------|----------------------|
| First Modelling Period  | 07:30-09:00 | 90             | 15                   |
| Second Modelling Period | 16:30-18:00 | 90             | 15                   |

### ODTAB Turning Counts

**Demand Set:** 2022 AM Base + Dev

**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 20.0  | 742.0 |
| Arm B   | 22.0  | 0.0   | 16.0  |

|       |       |      |     |
|-------|-------|------|-----|
| Arm C | 169.0 | 12.0 | 0.0 |
|-------|-------|------|-----|

**Demand Set:** 2022 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 32.0  | 277.0 |
| Arm B   | 18.0  | 0.0   | 14.0  |
| Arm C   | 282.0 | 21.0  | 0.0   |

**Demand Set:** 2031 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 21.0  | 791.0 |
| Arm B   | 23.0  | 0.0   | 18.0  |
| Arm C   | 179.0 | 13.0  | 0.0   |

**Demand Set:** 2031 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 34.0  | 295.0 |
| Arm B   | 19.0  | 0.0   | 15.0  |
| Arm C   | 300.0 | 22.0  | 0.0   |

### ODTAB Synthesised Flows

**Demand Set:** 2022 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| Arm   | Rising Time | Rising Flow (veh/min) | Peak Time | Peak Flow (veh/min) | Falling Time | Falling Flow (veh/min) |
|-------|-------------|-----------------------|-----------|---------------------|--------------|------------------------|
| Arm A | 07:45       | 9.525                 | 08:15     | 14.287              | 08:45        | 9.525                  |
| Arm B | 07:45       | 0.475                 | 08:15     | 0.712               | 08:45        | 0.475                  |
| Arm C | 07:45       | 2.263                 | 08:15     | 3.394               | 08:45        | 2.263                  |

### Heavy Vehicles Percentages

**Demand Set:** 2022 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 0.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 0.0   | 0.0   | -     |

**Demand Set:** 2022 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 0.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 0.0   | 0.0   | -     |

**Demand Set:** 2031 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 0.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 0.0   | 0.0   | -     |

**Demand Set:** 2031 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
|         |       |       |       |

|       |     |     |     |
|-------|-----|-----|-----|
| Arm A | -   | 0.0 | 0.0 |
| Arm B | 0.0 | -   | 0.0 |
| Arm C | 0.0 | 0.0 | -   |

## Queues & Delays

**Demand Set:** 2022 AM Base + Dev

**Modelling Period:** 07:30-09:00

| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
|-------------|--------|------------------|--------------------|-------|---------------------|-------------------|-----------------|-----------------------------------|-------------------------|-----------------------------------|
| 07:30-07:45 | B-A    | 0.28             | 7.33               | 0.038 | -                   | 0.00              | 0.04            | -                                 | 0.6                     | 0.14                              |
|             | B-C    | 0.20             | 11.19              | 0.018 | -                   | 0.00              | 0.02            | -                                 | 0.3                     | 0.09                              |
|             | C-AB   | 0.15             | 8.39               | 0.018 | -                   | 0.00              | 0.02            | -                                 | 0.3                     | 0.12                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.25             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 9.31             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 07:45-08:00 | B-A    | 0.33             | 6.73               | 0.049 | -                   | 0.04              | 0.05            | -                                 | 0.7                     | 0.16                              |
|             | B-C    | 0.24             | 10.57              | 0.023 | -                   | 0.02              | 0.02            | -                                 | 0.3                     | 0.10                              |
|             | C-AB   | 0.18             | 7.94               | 0.023 | -                   | 0.02              | 0.02            | -                                 | 0.3                     | 0.13                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.30             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 11.12            | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 08:00-08:15 | B-A    | 0.40             | 5.90               | 0.068 | -                   | 0.05              | 0.07            | -                                 | 1.1                     | 0.18                              |
|             | B-C    | 0.29             | 9.70               | 0.030 | -                   | 0.02              | 0.03            | -                                 | 0.5                     | 0.11                              |
|             | C-AB   | 0.22             | 7.31               | 0.030 | -                   | 0.02              | 0.03            | -                                 | 0.5                     | 0.14                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.37             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 13.62            | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 08:15-08:30 | B-A    | 0.40             | 5.90               | 0.068 | -                   | 0.07              | 0.07            | -                                 | 1.1                     | 0.18                              |
|             | B-C    | 0.29             | 9.70               | 0.030 | -                   | 0.03              | 0.03            | -                                 | 0.5                     | 0.11                              |
|             | C-AB   | 0.22             | 7.31               | 0.030 | -                   | 0.03              | 0.03            | -                                 | 0.5                     | 0.14                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.37             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 13.62            | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 08:30-08:45 | B-A    | 0.33             | 6.73               | 0.049 | -                   | 0.07              | 0.05            | -                                 | 0.8                     | 0.16                              |
|             | B-C    | 0.24             | 10.56              | 0.023 | -                   | 0.03              | 0.02            | -                                 | 0.4                     | 0.10                              |
|             | C-AB   | 0.18             | 7.94               | 0.023 | -                   | 0.03              | 0.02            | -                                 | 0.4                     | 0.13                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |

|                 | A-B    | 0.30                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
|                 | A-C    | 11.12               | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:45-<br>09:00 | B-A    | 0.28                | 7.33                  | 0.038 | -                         | 0.05                    | 0.04                  | -                                           | 0.6                            | 0.14                                          |
|                 | B-C    | 0.20                | 11.19                 | 0.018 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.09                                          |
|                 | C-AB   | 0.15                | 8.39                  | 0.018 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.12                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.25                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 9.31                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

Demand Set: 2022 PM Base + Dev

Modelling Period: 16:30-18:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 16:30-<br>16:45 | B-A    | 0.23                | 8.65                  | 0.026 | -                         | 0.00                    | 0.03                  | -                                           | 0.4                            | 0.12                                          |
|                 | B-C    | 0.18                | 13.10                 | 0.013 | -                         | 0.00                    | 0.01                  | -                                           | 0.2                            | 0.08                                          |
|                 | C-AB   | 0.26                | 9.78                  | 0.027 | -                         | 0.00                    | 0.03                  | -                                           | 0.4                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.40                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.48                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 16:45-<br>17:00 | B-A    | 0.27                | 8.31                  | 0.032 | -                         | 0.03                    | 0.03                  | -                                           | 0.5                            | 0.12                                          |
|                 | B-C    | 0.21                | 12.85                 | 0.016 | -                         | 0.01                    | 0.02                  | -                                           | 0.2                            | 0.08                                          |
|                 | C-AB   | 0.31                | 9.60                  | 0.033 | -                         | 0.03                    | 0.03                  | -                                           | 0.5                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.48                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 4.15                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:00-<br>17:15 | B-A    | 0.33                | 7.84                  | 0.042 | -                         | 0.03                    | 0.04                  | -                                           | 0.6                            | 0.13                                          |
|                 | B-C    | 0.26                | 12.50                 | 0.021 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.08                                          |
|                 | C-AB   | 0.39                | 9.34                  | 0.041 | -                         | 0.03                    | 0.04                  | -                                           | 0.7                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.59                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 5.08                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:15-<br>17:30 | B-A    | 0.33                | 7.84                  | 0.042 | -                         | 0.04                    | 0.04                  | -                                           | 0.7                            | 0.13                                          |
|                 | B-C    | 0.26                | 12.50                 | 0.021 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.08                                          |
|                 | C-AB   | 0.39                | 9.34                  | 0.041 | -                         | 0.04                    | 0.04                  | -                                           | 0.7                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.59                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 5.08                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 |        |                     |                       |       |                           |                         |                       | Geometric                                   |                                | Mean                                          |

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Delay<br>(veh.min/<br>segment)              | Delay<br>(veh.min/<br>segment) | Arriving<br>Vehicle<br>Delay<br>(min)         |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 17:30-<br>17:45 | B-A    | 0.27                | 8.31                  | 0.032 | -                         | 0.04                    | 0.03                  | -                                           | 0.5                            | 0.12                                          |
|                 | B-C    | 0.21                | 12.85                 | 0.016 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.08                                          |
|                 | C-AB   | 0.31                | 9.60                  | 0.033 | -                         | 0.04                    | 0.03                  | -                                           | 0.5                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.48                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 4.15                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:45-<br>18:00 | B-A    | 0.23                | 8.65                  | 0.026 | -                         | 0.03                    | 0.03                  | -                                           | 0.4                            | 0.12                                          |
|                 | B-C    | 0.18                | 13.10                 | 0.013 | -                         | 0.02                    | 0.01                  | -                                           | 0.2                            | 0.08                                          |
|                 | C-AB   | 0.26                | 9.78                  | 0.027 | -                         | 0.03                    | 0.03                  | -                                           | 0.4                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.40                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.48                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

Demand Set: 2031 AM Base + Dev

Modelling Period: 07:30-09:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 07:30-<br>07:45 | B-A    | 0.29                | 7.13                  | 0.041 | -                         | 0.00                    | 0.04                  | -                                           | 0.6                            | 0.15                                          |
|                 | B-C    | 0.23                | 10.98                 | 0.021 | -                         | 0.00                    | 0.02                  | -                                           | 0.3                            | 0.09                                          |
|                 | C-AB   | 0.16                | 8.24                  | 0.020 | -                         | 0.00                    | 0.02                  | -                                           | 0.3                            | 0.12                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.26                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 9.93                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 07:45-<br>08:00 | B-A    | 0.34                | 6.49                  | 0.053 | -                         | 0.04                    | 0.06                  | -                                           | 0.8                            | 0.16                                          |
|                 | B-C    | 0.27                | 10.32                 | 0.026 | -                         | 0.02                    | 0.03                  | -                                           | 0.4                            | 0.10                                          |
|                 | C-AB   | 0.19                | 7.76                  | 0.025 | -                         | 0.02                    | 0.03                  | -                                           | 0.4                            | 0.13                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.31                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 11.85               | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:00-<br>08:15 | B-A    | 0.42                | 5.61                  | 0.075 | -                         | 0.06                    | 0.08                  | -                                           | 1.2                            | 0.19                                          |
|                 | B-C    | 0.33                | 9.39                  | 0.035 | -                         | 0.03                    | 0.04                  | -                                           | 0.5                            | 0.11                                          |
|                 | C-AB   | 0.24                | 7.09                  | 0.034 | -                         | 0.03                    | 0.04                  | -                                           | 0.5                            | 0.15                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.39                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 14.52               | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |

| 08:15-08:30 | B-A    | 0.42             | 5.61               | 0.075 | -                   | 0.08              | 0.08            | -                                 | 1.2                     | 0.19                              |
|-------------|--------|------------------|--------------------|-------|---------------------|-------------------|-----------------|-----------------------------------|-------------------------|-----------------------------------|
|             | B-C    | 0.33             | 9.39               | 0.035 | -                   | 0.04              | 0.04            | -                                 | 0.5                     | 0.11                              |
|             | C-AB   | 0.24             | 7.09               | 0.034 | -                   | 0.04              | 0.04            | -                                 | 0.5                     | 0.15                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.39             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 14.52            | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 08:30-08:45 | B-A    | 0.34             | 6.49               | 0.053 | -                   | 0.08              | 0.06            | -                                 | 0.9                     | 0.16                              |
|             | B-C    | 0.27             | 10.31              | 0.026 | -                   | 0.04              | 0.03            | -                                 | 0.4                     | 0.10                              |
|             | C-AB   | 0.19             | 7.76               | 0.025 | -                   | 0.04              | 0.03            | -                                 | 0.4                     | 0.13                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.31             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 11.85            | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 08:45-09:00 | B-A    | 0.29             | 7.12               | 0.041 | -                   | 0.06              | 0.04            | -                                 | 0.7                     | 0.15                              |
|             | B-C    | 0.23             | 10.98              | 0.021 | -                   | 0.03              | 0.02            | -                                 | 0.3                     | 0.09                              |
|             | C-AB   | 0.16             | 8.24               | 0.020 | -                   | 0.03              | 0.02            | -                                 | 0.3                     | 0.12                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.26             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 9.93             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |

Demand Set: 2031 PM Base + Dev

Modelling Period: 16:30-18:00

| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
|-------------|--------|------------------|--------------------|-------|---------------------|-------------------|-----------------|-----------------------------------|-------------------------|-----------------------------------|
| 16:30-16:45 | B-A    | 0.24             | 8.54               | 0.028 | -                   | 0.00              | 0.03            | -                                 | 0.4                     | 0.12                              |
|             | B-C    | 0.19             | 13.01              | 0.014 | -                   | 0.00              | 0.01            | -                                 | 0.2                     | 0.08                              |
|             | C-AB   | 0.28             | 9.72               | 0.028 | -                   | 0.00              | 0.03            | -                                 | 0.4                     | 0.11                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.43             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 3.70             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 16:45-17:00 | B-A    | 0.28             | 8.18               | 0.035 | -                   | 0.03              | 0.04            | -                                 | 0.5                     | 0.13                              |
|             | B-C    | 0.22             | 12.75              | 0.018 | -                   | 0.01              | 0.02            | -                                 | 0.3                     | 0.08                              |
|             | C-AB   | 0.33             | 9.52               | 0.035 | -                   | 0.03              | 0.04            | -                                 | 0.5                     | 0.11                              |
|             | C-A    | -                | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-B    | 0.51             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
|             | A-C    | 4.42             | -                  | -     | -                   | -                 | -               | -                                 | -                       | -                                 |
| Segment     | Stream | Demand (veh/min) | Capacity (veh/min) | RFC   | Ped. Flow (ped/min) | Start Queue (veh) | End Queue (veh) | Geometric Delay (veh.min/segment) | Delay (veh.min/segment) | Mean Arriving Vehicle Delay (min) |
| 17:00-      | B-A    | 0.35             | 7.68               | 0.045 | -                   | 0.04              | 0.05            | -                                 | 0.7                     | 0.14                              |
|             | B-C    | 0.28             | 12.38              | 0.022 | -                   | 0.02              | 0.02            | -                                 | 0.3                     | 0.08                              |
|             | C-AB   | 0.40             | 9.25               | 0.044 | -                   | 0.04              | 0.05            | -                                 | 0.7                     | 0.11                              |

| 17:15           | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
|                 | A-B    | 0.62                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 5.41                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:15-<br>17:30 | B-A    | 0.35                | 7.68                  | 0.045 | -                         | 0.05                    | 0.05                  | -                                           | 0.7                            | 0.14                                          |
|                 | B-C    | 0.28                | 12.38                 | 0.022 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.08                                          |
|                 | C-AB   | 0.40                | 9.25                  | 0.044 | -                         | 0.05                    | 0.05                  | -                                           | 0.7                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.62                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 5.41                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:30-<br>17:45 | B-A    | 0.28                | 8.18                  | 0.035 | -                         | 0.05                    | 0.04                  | -                                           | 0.6                            | 0.13                                          |
|                 | B-C    | 0.22                | 12.75                 | 0.018 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.08                                          |
|                 | C-AB   | 0.33                | 9.52                  | 0.035 | -                         | 0.05                    | 0.04                  | -                                           | 0.6                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.51                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 4.42                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:45-<br>18:00 | B-A    | 0.24                | 8.54                  | 0.028 | -                         | 0.04                    | 0.03                  | -                                           | 0.4                            | 0.12                                          |
|                 | B-C    | 0.19                | 13.01                 | 0.014 | -                         | 0.02                    | 0.01                  | -                                           | 0.2                            | 0.08                                          |
|                 | C-AB   | 0.28                | 9.72                  | 0.028 | -                         | 0.04                    | 0.03                  | -                                           | 0.4                            | 0.11                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.43                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.70                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

Entry capacities marked with an '(X)' are dominated by a pedestrian crossing in that time segment.

In time segments marked with a '(B)', traffic leaving the junction may block back from a crossing so impairing normal operation of the junction.

Delays marked with '###' could not be calculated.

### PICADY 5 Run Successful