# TRANSYT 15

Version: 15.5.2.7994


For sales and distribution information, program advice and maintenance, contact TRL:
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk



**Filename:** M62 JN 28 CRF Scheme_Mar 20- Scenario 4-PM - Mitigation.t15
**Path:** Z:\Projects\10127ITM Capitol Park, Leeds F2 (F1A)\Tech\Transyt\TRANSYT - AGREED HE_LCC BASE MODEL (MARCH 2020)\Post-Submission Work
**Report generation date:** 16/07/2021 12:32:34

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## File summary

### File description

| | |
|---|---|
| **File title** | (untitled) |
| **Location** | |
| **Site number** | |
| **UTCRegion** | |
| **Driving side** | Left |
| **Date** | 01/03/2017 |
| **Version** | |
| **Status** | (new file) |
| **Identifier** | |
| **Client** | |
| **Jobnumber** | |
| **Enumerator** | LEEDS\00730414 |
| **Description** | |

## Model and Results

| Enable controller offsets | Enable fuel consumption | Enable quick flares | Display journey time results | Display level of service results | Display blocking and starvation results | Display end of red and green queue results | Display excess queue results | Display separate uniform and random results | Display unweighted results | Display TRANSYT 12 style timings | Display effective greens in results | Display Red-With-Amber | Display End-Of-Green Amber |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |

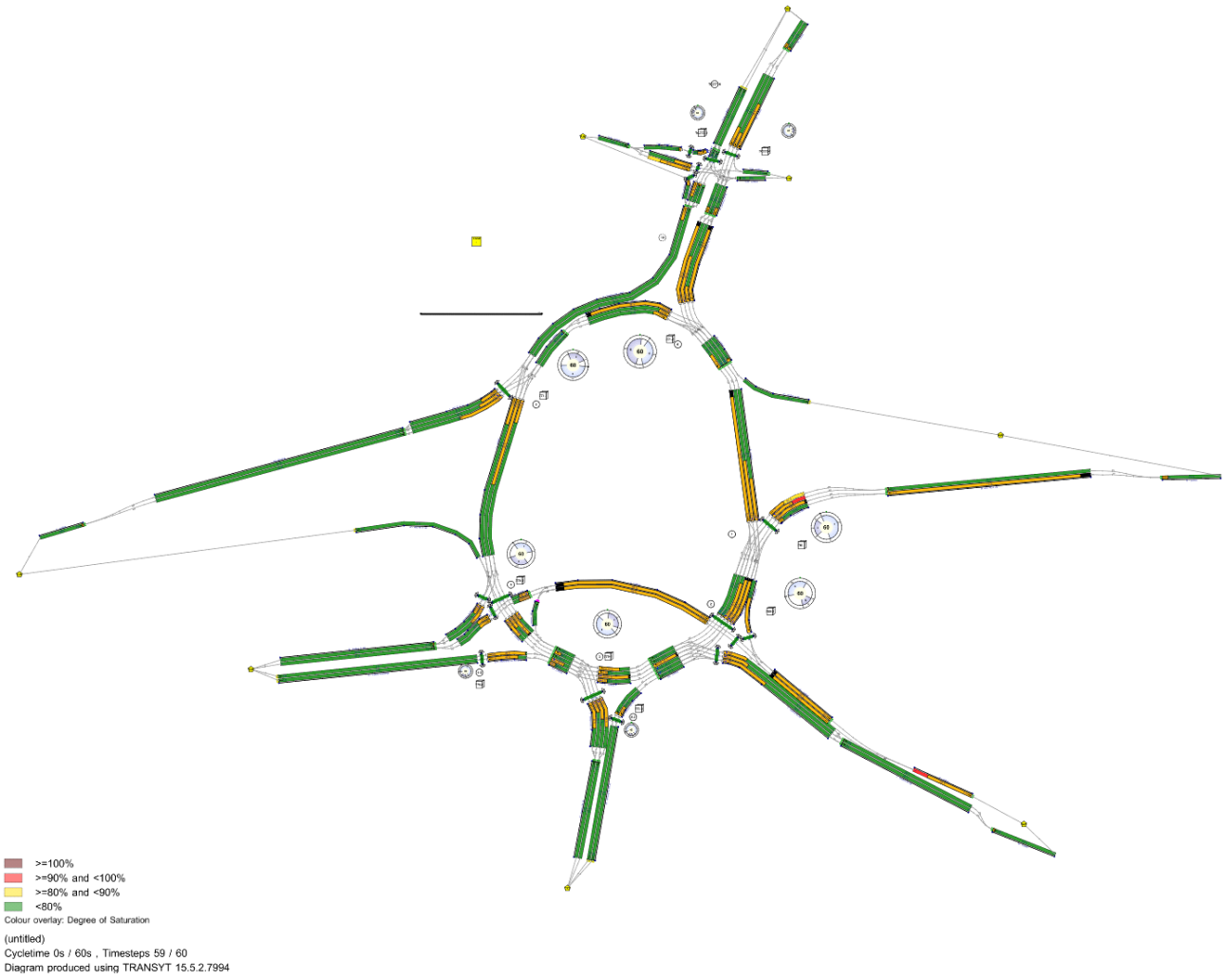
## Units

| Cost units | Speed units | Distance units | Fuel economy units | Fuel rate units | Mass units | Traffic units input | Traffic units results | Flow units | Average delay units | Total delay units | Rate of delay units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| £ | kph | m | mpg | l/h | kg | PCU | PCU | perHour | s | -Hour | perHour |

## Sorting

| Show names instead of IDs | Sorting direction | Sorting type | Ignore prefixes when sorting | Analysis/demand set sorting | Link grouping | Source grouping | Colour Analysis/Demand Sets |
|---|---|---|---|---|---|---|---|
| | Ascending | Numerical | | ID | Normal | Normal | ✓ |

# Network Diagrams



# A2 - 2019 Base + Committed + Cumulative PM - Mitigation
# D2 - 2019 Base + Committed + Cumulative PM - Mitigation *

## Summary

### Data Errors and Warnings

| Severity | Area | Item | Description |
|---|---|---|---|
| Warning | Traffic Stream Data | Arm Bf - Traffic Stream 1 | Arm Bf - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm Bf - Traffic Stream 2 | Arm Bf - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm Ff - Traffic Stream 1 | Arm Ff - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm Ff - Traffic Stream 2 | Arm Ff - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm xA - Traffic Stream 1 | Arm xA - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm xA - Traffic Stream 2 | Arm xA - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects. |
| Warning | Traffic Stream Data | Arm TC38 - Traffic Stream 1 | Traffic Stream 1: CTM uses a whole number of cells. CTM is using the length adjusted by 30%. |
| Warning | Traffic Stream Signals | Arm TC5 - Traffic Stream 4 - Signals (TC777-1, C) | Traffic Stream 4 controlling phase C never runs in the current stage sequence. |
| Warning | Traffic Stream Signals | Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E) | Traffic Stream 1 controlling phase E never runs in the current stage sequence. |
| Info | Arm Data | Arm xC | No traffic node specified for arm(s): xC |
| Info | Traffic Stream Signals | Arm TC5 - Traffic Stream 4 - Signals (TC777-1, C) | Traffic Stream 4 controlling phase C never runs in stage sequence 1. |
| Info | Traffic Stream Signals | Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E) | Traffic Stream 1 controlling phase E never runs in stage sequence 1. |

### Run Summary

| Analysis set used | Run start time | Run finish time | Modelling start time (HH:mm) | Network Cycle Time (s) | Performance Index (£ per hr) | Total network delay (PCU-hr/hr) | Highest DOS (%) | Item with highest DOS | Number of oversaturated items | Percentage of oversaturated items (%) | Item with worst signalised PRC | Item with worst unsignalised PRC | Ite wit wor over PR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 16/07/2021 12:31:39 | 16/07/2021 12:31:49 | 16:30 | 60 | 6108.49 | 376.42 | 110.10 | Bf/1 | 14 | 9 | TC5/4 | Bf/1 | TC5 |

### Analysis Set Details

| Name | Description | Demand set | Include in report | Locked |
|---|---|---|---|---|
| 2019 Base + Committed + Cumulative PM - Mitigation | | D2 | ✓ | |

### Demand Set Details

| Name | Description | Composite | Demand sets | Start time (HH:mm) | Locked |
|---|---|---|---|---|---|
| 2019 Base + Committed + Cumulative PM - Mitigation | | | | 16:30 | |

# Network Options

## Network timings

| Network cycle time (s) | Restrict to SCOOT cycle times | Time segment length (min) | Number of time segments | Modelled time period (min) |
|---|---|---|---|---|
| 60 | | 60 | 1 | 60 |

## Signals options

| Start displacement (s) | End displacement (s) |
|---|---|
| 2 | 3 |

## Advanced

| Phase minimum broken penalty (£) | Phase maximum broken penalty (£) | Intergreen broken penalty (£) | Starting Red-with-Amber (s) |
|---|---|---|---|
| 10000.00 | 10000.00 | 10000.00 | 2 |

## Traffic options

| Traffic model | Vehicle flow scaling factor (%) | Pedestrian flow scaling factor (%) | Cruise times or speeds |
|---|---|---|---|
| Platoon Dispersion (PDM) | 100 | 100 | Cruise Speeds |

## Advanced

| Resolution | DOS Threshold (%) | Cruise scaling factor (%) | Use link stop weightings | Use link delay weightings | Exclude pedestrians from results calculation | Random delay mode | Type of Vehicle-in-Service | Type of random parameter | PCU Length (m) | Calculate results for Path Segments | Generate PDM Profile Data |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90 | 100 | ✓ | ✓ | | Complex | Uniform (TRANSYT) | Uniform (TRANSYT) | 5.75 | | ✓ |

## Normal Traffic parameters

| Dispersion type | Dispersion coefficient | Travel time coefficient |
|---|---|---|
| Default | 35 | 80 |

## Normal Traffic Types

| Name | PCU Factor |
|---|---|
| Normal | 1.00 |

## Bus parameters

| Name | PCU Factor | Dispersion type | Acceleration (ms^[-2]) | Stationary time coefficient | Cruise time coefficient |
|---|---|---|---|---|---|
| Bus | 1.00 | Default | 0.94 | 30 | 85 |

## Tram parameters

| Name | PCU Factor | Dispersion type | Acceleration (ms^[-2]) | Stationary time coefficient | Cruise time coefficient |
|---|---|---|---|---|---|
| Tram | 1.00 | Default | 0.94 | 100 | 100 |

## Pedestrian parameters

| Dispersion type |
|---|
| Default |

## Optimisation options

| Enable optimisation | Auto redistribute | Optimisation level | Enable OUT Profile accuracy |
|---|---|---|---|
| ✓ | | Offsets And Green Splits | ✓ |

## Advanced

| Optimisation type | Hill climb increments | OUTProfile accuracy | Use enhanced optimisation | Auto optimisation order | Optimisation order | Master controller | Offsets relative to master controller | Master controller offset after each run |
|---|---|---|---|---|---|---|---|---|
| Hill Climb (Fast) | 15, 40, -1, 15, 40, 1, -1, 1 | 50, 50, 5, 5, 0.5, 0.5, 0.05, 0.05 | | ✓ | 769-1, 769-2, 770-1, 770-3, 771-1, 771-2, TC777-1, TC777-2 | | | Do nothing |

### Economics

| Vehicle Monetary Value Of Delay (£ per PCU-hr) | Vehicle Monetary Value Of Stops (£ per 100 stops) | Pedestrian monetary value of delay (£ per Ped-hr) |
|---|---|---|
| 14.20 | 2.60 | 14.20 |

## Traffic Nodes

### Traffic Nodes

| Traffic node | Name | Description |
|---|---|---|
| **(ALL)** | (untitled) | |

# Arms and Traffic Streams

## Arms

| Arm | Name | Description | Traffic node |
|---|---|---|---|
| A | Dewsbury Rd SB | | 6 |
| Ac | (untitled) | | 6 |
| Acf | (untitled) | | 6 |
| Af | Dewsbury Rd SB | | 6 |
| B | M62 WB off slip | | 1 |
| Bc | (untitled) | | 1 |
| Bcf | (untitled) | | 1 |
| Bf | M62 WB off slip | | 1 |
| C | Bradford Rd WB | | 2 |
| Cf | Bradford Rd WB | | 2 |
| D | Dewsbury Rd NB | | 3 |
| Dc | (untitled) | | 3 |
| Dcf | (untitled) | | 3 |
| Df | Dewsbury Rd NB | | 3-2 |
| Dxp | Dewsbury Rd exit SB (ped) | | 3-2 |
| Ec | (untitled) | | 4 |
| Ecf | (untitled) | | 4 |
| Ef | Bradford Rd EB | | 4 |
| Exp | Bradford Rd exit WB (ped) | | 4-2 |
| F | M62 EB off slip | | 5 |
| Fc | (untitled) | | 5 |
| Ff | M62 EB off slip | | 5 |
| G | (untitled) | | 2 |
| Gf | (untitled) | | 4 |
| xA | Dewsbury Rd exit NB | | 10 |
| xB | M62 EB on slip | | |
| xC | (untitled) | | |
| xD | Dewsbury Rd exit SB | | |
| xE | Bradford Rd exit WB | | |
| xF | M62 WB on slip | | |
| Cc1 | (untitled) | | 2 |
| E1 | Bradford Rd EB (left) | | 4 |
| Gf1 | (untitled) | | 4 |
| Cc2 | (untitled) | | 2 |
| E2 | Bradford Rd EB (ahead) | | 4 |
| TC5 | (untitled) | | TC771-6 |
| TC9 | (untitled) | | TC771-6 |
| TC35 | (untitled) | | TC771-6 |
| TC36 | (untitled) | | TC771-6 |
| TC37 | (untitled) | | TC771-6 |
| TC38 | (untitled) | | TC771-6 |
| TC39 | (untitled) | | TC771-6 |
| TC40 | (untitled) | | TC771-6 |
| TC41 | (untitled) | | TC771-6 |
| TC42 | (untitled) | | TC771-6 |
| TC43 | (untitled) | | |
| 47 | (untitled) | | 2 |
| 48 | (untitled) | | 2 |
| 49 | (untitled) | | TC771-6 |
| 50 | (untitled) | | 1 |
| 51 | (untitled) | | 4-2 |

## Traffic Streams

| Arm | Traffic Stream | Name | Description | Auto length | Length (m) | Has Saturation Flow | Saturation flow source | Saturation flow (PCU/hr) | Auto-calculate cell saturation flow | Cell saturation flow (PCU/hr) | Is signal controlled | Is give way | Traffic type | Allow Nearside Turn On Red |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | (untitled) | M62E | ✓ | 74.52 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 2 | (untitled) | Wake | ✓ | 76.88 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 3 | (untitled) | Dews | ✓ | 78.61 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 4 | (untitled) | Brad/M62W | ✓ | 80.35 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| Ac | 1 | (untitled) | M62E | ✓ | 95.80 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | 2 | (untitled) | Wake | ✓ | 92.34 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | 3 | (untitled) | Dews/Brad | ✓ | 87.95 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| Acf | 1 | (untitled) | | ✓ | 69.59 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| | 2 | (untitled) | | ✓ | 70.42 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| Af | 1 | (untitled) | M62E/Wake | ✓ | 53.54 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | 2 | (untitled) | Dews | ✓ | 52.96 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | 3 | (untitled) | Brad/M62W | ✓ | 52.75 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| B | 1 | (untitled) | Wake/Dews | ✓ | 94.67 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 2 | (untitled) | Brad | ✓ | 97.18 | ✓ | Directly entered | 2150 | | 2150 | ✓ | | Normal | |
| | 3 | (untitled) | Leeds | ✓ | 99.69 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | 4 | (untitled) | | ✓ | 102.42 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| Bc | 1 | (untitled) | Wake | ✓ | 133.56 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 2 | (untitled) | Dews | ✓ | 132.12 | ✓ | Directly entered | 2050 | | 2263 | ✓ | | Normal | |
| | 3 | (untitled) | Brad/M62W | ✓ | 130.69 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| Bcf | 1 | (untitled) | | ✓ | 62.67 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| | 2 | (untitled) | | ✓ | 63.14 | ✓ | Directly entered | 2263 | | 2050 | | | Normal | |
| | 3 | (untitled) | | ✓ | 62.35 | ✓ | Directly entered | 2263 | | 2050 | | | Normal | |
| | 4 | (untitled) | | ✓ | 62.25 | ✓ | Directly entered | 2263 | | 2050 | | | Normal | |
| Bf | 1 | (untitled) | | ✓ | 227.81 | ✓ | Sum of lanes | 1800 | | 1600 | | | Normal | |
| | 2 | (untitled) | | ✓ | 228.44 | ✓ | Sum of lanes | 1800 | | 1700 | | | Normal | |
| C | 1 | (untitled) | Dews/Brad | ✓ | 121.13 | ✓ | Directly entered | 2100 | | 2050 | ✓ | | Normal | |
| | 2 | (untitled) | M62W/Brad/Leeds | ✓ | 122.36 | ✓ | Directly entered | 2200 | | 2100 | ✓ | | Normal | |
| | 3 | (untitled) | Leeds/M62E | ✓ | 124.35 | ✓ | Directly entered | 2050 | | 1900 | ✓ | | Normal | |
| Cf | 1 | (untitled) | | ✓ | 144.60 | ✓ | Sum of lanes | 1965 | | 1965 | | | Normal | |
| | 2 | (untitled) | | ✓ | 145.86 | ✓ | Sum of lanes | 1965 | | 1965 | | | Normal | |
| | 1 | (untitled) | Brad/M62 | | 55.00 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **D** | **2** | (untitled) | Leeds | | 55.00 | ✓ | Directly entered | 1850 | | 2075 | ✓ | | Normal | |
| | **3** | (untitled) | Leeds/M62/Wake | ✓ | 52.87 | ✓ | Directly entered | 2250 | | 2250 | ✓ | | Normal | |
| | **4** | (untitled) | Leeds/M62/Wake | ✓ | 55.42 | ✓ | Directly entered | 2250 | | 2250 | ✓ | | Normal | |
| **Dc** | **1** | (untitled) | Brad | ✓ | 50.27 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **2** | (untitled) | Brad/M62W | ✓ | 48.34 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **3** | (untitled) | Leeds | ✓ | 46.42 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **4** | (untitled) | Leeds/M62E | ✓ | 44.49 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| **Dcf** | **1** | (untitled) | | ✓ | 65.95 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | **2** | (untitled) | | ✓ | 65.92 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **3** | (untitled) | | ✓ | 66.55 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **4** | (untitled) | | ✓ | 66.73 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **5** | (untitled) | | ✓ | 66.90 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **6** | (untitled) | | ✓ | 67.13 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| **Df** | **1** | (untitled) | | | 200.00 | ✓ | Sum of lanes | 1900 | | | | | Normal | |
| | **2** | (untitled) | | | 200.00 | ✓ | Directly entered | 2250 | | | | | Normal | |
| **Dxp** | **1** | (untitled) | | ✓ | 46.62 | ✓ | Directly entered | 2050 | | | ✓ | | Normal | |
| | **2** | (untitled) | | ✓ | 48.64 | ✓ | Directly entered | 2050 | | | ✓ | | Normal | |
| **Ec** | **1** | (untitled) | M62W | ✓ | 50.09 | ✓ | Directly entered | 2150 | | 2150 | ✓ | | Normal | |
| | **2** | (untitled) | Leeds | ✓ | 48.43 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | **3** | (untitled) | Leeds | ✓ | 46.77 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | **4** | (untitled) | M62E | ✓ | 45.11 | ✓ | Directly entered | 2250 | | 2250 | ✓ | | Normal | |
| **Ecf** | **1** | (untitled) | | ✓ | 45.94 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **2** | (untitled) | | ✓ | 46.37 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **3** | (untitled) | | ✓ | 46.93 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| | **4** | (untitled) | | ✓ | 47.50 | ✓ | Directly entered | 2300 | | 2300 | | | Normal | |
| | **5** | (untitled) | | ✓ | 48.55 | ✓ | Directly entered | 2300 | | 2300 | | | Normal | |
| **Ef** | **1** | (untitled) | | ✓ | 127.54 | ✓ | Directly entered | 1900 | | | | | Normal | |
| | **2** | (untitled) | | ✓ | 127.54 | ✓ | Sum of lanes | 1900 | | | | | Normal | |
| **Exp** | **1** | (untitled) | | ✓ | 51.83 | ✓ | Directly entered | 2050 | | 2100 | ✓ | | Normal | |
| | **2** | (untitled) | | ✓ | 53.71 | ✓ | Directly entered | 2050 | | 2100 | ✓ | | Normal | |
| **F** | **1** | (untitled) | Leeds | ✓ | 85.13 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **2** | (untitled) | Wake | ✓ | 85.72 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **3** | (untitled) | Dews/Brad | ✓ | 87.25 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **1** | (untitled) | Leeds | ✓ | 183.21 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fc** | **2** | (untitled) | Leeds | ✓ | 181.45 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | **3** | (untitled) | M62E/Dews | ✓ | 180.28 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| **Ff** | **1** | (untitled) | | ✓ | 275.73 | ✓ | Sum of lanes | 1900 | | 1900 | | | Normal | |
| | **2** | (untitled) | | ✓ | 275.39 | ✓ | Sum of lanes | 1900 | | 1900 | | | Normal | |
| **G** | **1** | (untitled) | | ✓ | 156.15 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | **2** | (untitled) | | ✓ | 152.60 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| **Gf** | **1** | (untitled) | | ✓ | 38.89 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | **2** | (untitled) | | ✓ | 38.45 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| **xA** | **1** | (untitled) | | ✓ | 229.66 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| | **2** | (untitled) | | ✓ | 230.01 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| **xB** | **1** | (untitled) | | ✓ | 77.15 | | | | | | | | Normal | |
| **xC** | **1** | (untitled) | | ✓ | 115.60 | ✓ | Sum of lanes | 1900 | | 1900 | | | Normal | |
| | **2** | (untitled) | | ✓ | 115.98 | ✓ | Sum of lanes | 1900 | | 1900 | | | Normal | |
| **xD** | **1** | (untitled) | | ✓ | 121.71 | | | | | | | | Normal | |
| | **2** | (untitled) | | ✓ | 122.74 | | | | | | | | Normal | |
| **xE** | **1** | (untitled) | | ✓ | 173.89 | | | | | | | | Normal | |
| | **2** | (untitled) | | ✓ | 173.83 | | | | | | | | Normal | |
| **xF** | **1** | (untitled) | | ✓ | 162.53 | | | | | | | | Normal | |
| **Cc1** | **1** | (untitled) | Wake | ✓ | 95.76 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| **E1** | **1** | (untitled) | M62W/Leeds | | 80.00 | ✓ | Directly entered | 2050 | | 1900 | ✓ | | Normal | |
| | **2** | (untitled) | Leeds/M62E | | 80.00 | ✓ | Directly entered | 2200 | | 2100 | ✓ | | Normal | |
| **Gf1** | **1** | (untitled) | | ✓ | 47.81 | | | | | | | ✓ | Normal | |
| **Cc2** | **2** | (untitled) | Dews | ✓ | 90.51 | ✓ | Directly entered | 2150 | | 2100 | ✓ | | Normal | |
| | **3** | (untitled) | Brad/M62W | ✓ | 89.30 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | **4** | (untitled) | Dews/Brad | ✓ | 90.64 | ✓ | Directly entered | 2150 | | 2100 | ✓ | | Normal | |
| | **5** | (untitled) | Leeds | ✓ | 88.32 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | **6** | (untitled) | Leeds | ✓ | 87.88 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| **E2** | **3** | (untitled) | Wake | ✓ | 53.28 | ✓ | Directly entered | 2150 | | 2050 | ✓ | | Normal | |
| | **4** | (untitled) | Wake | ✓ | 54.33 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| **TC5** | **2** | (untitled) | | ✓ | 23.03 | ✓ | Sum of lanes | 2263 | | 2263 | ✓ | | Normal | |
| | **3** | (untitled) | | ✓ | 23.02 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | **4** | (untitled) | | ✓ | 24.43 | ✓ | Sum of lanes | 1800 | | 2263 | ✓ | | Normal | |
| **TC9** | **1** | (untitled) | | ✓ | 91.71 | ✓ | Directly entered | 1925 | | 1925 | ✓ | | Normal | |
| | **2** | (untitled) | | ✓ | 92.11 | ✓ | Sum of lanes | 1966 | | 1966 | ✓ | | Normal | |
| | **3** | (untitled) | | ✓ | 92.69 | ✓ | Sum of lanes | 1947 | | 1947 | ✓ | | Normal | |
| **TC35** | **1** | (untitled) | | ✓ | 24.16 | ✓ | Directly entered | 1900 | | 2263 | ✓ | | Normal | |
| **TC36** | **1** | (untitled) | | ✓ | 25.22 | ✓ | Sum of lanes | 1800 | | | | | Normal | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC37 | 1 | (untitled) | | ✓ | 44.32 | ✓ | Directly entered | 1850 | | 1850 | ✓ | | Normal | |
| TC38 | 1 | (untitled) | | ✓ | 21.32 | ✓ | Directly entered | 1850 | | 1850 | | ✓ | Normal | |
| TC39 | 2 | (untitled) | | ✓ | 35.24 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| | 3 | (untitled) | | ✓ | 33.28 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| TC40 | 2 | (untitled) | | ✓ | 58.74 | | | | | | | | Normal | |
| | 3 | (untitled) | | ✓ | 55.82 | | | | | | | | Normal | |
| TC41 | 1 | (untitled) | | ✓ | 54.63 | ✓ | Directly entered | 1850 | | 1850 | ✓ | | Normal | |
| | 2 | (untitled) | | ✓ | 55.07 | ✓ | Directly entered | 1850 | | 1850 | ✓ | | Normal | |
| TC42 | 1 | (untitled) | | ✓ | 23.35 | ✓ | Sum of lanes | 1771 | | | ✓ | | Normal | |
| TC43 | 1 | (untitled) | | ✓ | 52.01 | ✓ | Sum of lanes | 1800 | | | | | Normal | |
| 47 | 1 | (untitled) | | ✓ | 133.63 | ✓ | Directly entered | 1300 | | 1300 | | | Normal | |
| 48 | 1 | (untitled) | | ✓ | 55.12 | ✓ | Sum of lanes | 1965 | | | | | Normal | |
| 49 | 1 | (untitled) | | ✓ | 26.24 | ✓ | Directly entered | 1900 | | | | | Normal | |
| | 2 | (untitled) | | ✓ | 26.24 | ✓ | Directly entered | 1900 | | | | | Normal | |
| 50 | 1 | (untitled) | | ✓ | 48.15 | ✓ | Sum of lanes | 1900 | | | | | Normal | |
| 51 | 1 | (untitled) | | ✓ | 37.47 | ✓ | Sum of lanes | 1900 | | | | | Normal | |

## Lanes

| Arm | Traffic Stream | Lane | Name | Description | Use RR67 | Surface condition | Site quality factor | Gradient (%) | Width (m) | Use connector turning radius | Proportion that turn (%) | Turning radius (m) | Nearside lane | Saturation flow (PCU/hr) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | |
| Ac | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | |
| Acf | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| Af | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | |
| B | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | |
| Bc | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | |
| | 3 | 1 | (untitled) | | | | | | | | | | | |
| Bcf | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | |
| | 3 | 1 | (untitled) | | | | | | | | | | | |
| | 4 | 1 | (untitled) | | | | | | | | | | | |
| Bf | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| | 2 | 1 | (untitled) | | | | | | | | | | | 1800 |
| C | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| Cf | 1 | 2 | (untitled) | | | | | | | | | | | | 1965 |
| | 2 | 1 | (untitled) | | | | | | | | | | | | 1965 |
| D | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| | 4 | 3 | (untitled) | | | | | | | | | | | | |
| Dc | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | | |
| Dcf | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | | |
| | 5 | 5 | (untitled) | | | | | | | | | | | | |
| | 6 | 5 | (untitled) | | | | | | | | | | | | |
| Df | 1 | 1 | (untitled) | | | | | | | | | | | | 1900 |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| Dxp | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | | |
| Ec | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | | |
| | 3 | 1 | (untitled) | | | | | | | | | | | | |
| | 4 | 1 | (untitled) | | | | | | | | | | | | |
| Ecf | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | | |
| | 5 | 4 | (untitled) | | | | | | | | | | | | |
| Ef | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | 1900 |
| Exp | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| F | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| Fc | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | | |
| Ff | 1 | 1 | (untitled) | | | | | | | | | | | | 1900 |
| | 2 | 2 | (untitled) | | | | | | | | | | | | 1900 |
| G | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| Gf | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| xA | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| xB | 1 | 1 | (untitled) | | | | | | | | | | | | |
| xC | 1 | 1 | (untitled) | | | | | | | | | | | | 1900 |
| | 2 | 2 | (untitled) | | | | | | | | | | | | 1900 |
| xD | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| xE | 1 | 1 | (untitled) | | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | | |
| xF | 1 | 1 | (untitled) | | | | | | | | | | | | |
| Cc1 | 1 | 1 | (untitled) | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E1 | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 2 | (untitled) | | | | | | | | | | | |
| Gf1 | 1 | 1 | (untitled) | | | | | | | | | | | |
| Cc2 | 2 | 2 | (untitled) | | | | | | | | | | | |
| | 3 | 3 | (untitled) | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | |
| | 5 | 5 | (untitled) | | | | | | | | | | | |
| | 6 | 5 | (untitled) | | | | | | | | | | | |
| E2 | 3 | 3 | (untitled) | | | | | | | | | | | |
| | 4 | 4 | (untitled) | | | | | | | | | | | |
| TC5 | 2 | 1 | (untitled) | | ✓ | N/A | Clearly Good | 0 | 3.50 | ✓ | 0 | 99999.00 | | 2263 |
| | 3 | 1 | (untitled) | | | | | | | | | | | |
| | 4 | 1 | (untitled) | | | | | | | | | | | 1800 |
| TC9 | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | ✓ | N/A | Average | 0 | 3.70 | ✓ | 0 | 99999.00 | | 1966 |
| | 3 | 1 | (untitled) | | ✓ | N/A | Average | 0 | 3.50 | ✓ | 0 | 99999.00 | | 1947 |
| TC35 | 1 | 1 | (untitled) | | | | | | | | | | | |
| TC36 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| TC37 | 1 | 1 | (untitled) | | | | | | | | | | | |
| TC38 | 1 | 1 | (untitled) | | | | | | | | | | | |
| TC39 | 2 | 1 | (untitled) | | | | | | | | | | | |
| | 3 | 1 | (untitled) | | | | | | | | | | | |
| TC40 | 2 | 1 | (untitled) | | | | | | | | | | | |
| | 3 | 1 | (untitled) | | | | | | | | | | | |
| TC41 | 1 | 1 | (untitled) | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | |
| TC42 | 1 | 1 | (untitled) | | ✓ | N/A | Average | 0 | 3.00 | ✓ | 0 | 9.44 | ✓ | 1771 |
| TC43 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| 47 | 1 | 1 | (untitled) | | | | | | | | | | | |
| 48 | 1 | 1 | (untitled) | | | | | | | | | | | 1965 |
| 49 | 1 | 2 | (untitled) | | | | | | | | | | | |
| | 2 | 1 | (untitled) | | | | | | | | | | | |
| 50 | 1 | 1 | (untitled) | | | | | | | | | | | 1900 |
| 51 | 1 | 1 | (untitled) | | | | | | | | | | | 1900 |

## Modelling

| Arm | Traffic Stream | Traffic model | Stop weighting multiplier (%) | Delay weighting multiplier (%) | Assignment Cost Weighting (%) | Exclude from results calculation | Max queue storage (PCU) | Has queue limit | Queue limit (PCU) | Excess queue penalty (£) | Has degree of saturation limit | Degree of saturation limit (%) | Excess degree of saturation penalty (£) | Low degree o saturatio penalty (£) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Ac | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Acf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Af | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| B | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Bc | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Bcf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Bf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| C | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Cf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| D | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Dc | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Dcf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 5 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 6 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Df | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Dxp | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Ec | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Ecf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 5 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Ef | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Exp | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| F | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Fc | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Ff | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | ✓ | 0.00 | 0.00 | ✓ | 2 | 0.00 | 0.00 |
| G | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Gf | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| xA | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| xB | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| xC | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| xD | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| xE | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| xF | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Cc1 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| E1 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Gf1 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| Cc2 | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 5 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 6 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| E2 | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC5 | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 4 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC9 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC35 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC36 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC37 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC38 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC39 | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC40 | 2 | PDM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 3 | PDM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC41 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC42 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| TC43 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 47 | 1 | CTM | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 48 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 49 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| | 2 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 50 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 51 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |

## Modelling - Advanced

| Arm | Traffic Stream | Initial queue (PCU) | Type of Vehicle-in-Service | Vehicle-in-Service | Type of random parameter | Random parameter | Auto cycle time | Cycle time |
|---|---|---|---|---|---|---|---|---|
| (ALL) | (ALL) | 0.00 | NetworkDefault | Not-Included | NetworkDefault | 0.50 | ✓ | 60 |

## Normal traffic - Modelling

| Arm | Traffic Stream | Stop weighting (%) | Delay weighting (%) |
|---|---|---|---|
| (ALL) | (ALL) | 100 | 100 |

## Normal traffic - Advanced

| Arm | Traffic Stream | Dispersion type for Normal Traffic |
|---|---|---|
| (ALL) | (ALL) | NetworkDefault |

## Flows

| Arm | Traffic Stream | Total Flow (PCU/hr) | Normal Flow (PCU/hr) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| A | 1 | 892 | 892 |
| | 2 | 384 | 384 |
| | 3 | 597 | 597 |
| | 4 | 928 | 928 |
| Ac | 1 | 829 | 829 |
| | 2 | 264 | 264 |
| | 3 | 530 | 530 |
| Acf | 1 | 1093 | 1093 |
| | 2 | 530 | 530 |
| Af | 1 | 1276 | 1276 |
| | 2 | 597 | 597 |
| | 3 | 928 | 928 |
| B | 1 | 109 | 109 |
| | 2 | 366 | 366 |
| | 3 | 454 | 454 |
| | 4 | 396 | 396 |
| Bc | 1 | 735 | 735 |
| | 2 | 860 | 860 |
| | 3 | 1108 | 1108 |
| Bcf | 1 | 1721 | 1721 |
| | 2 | 735 | 735 |
| | 3 | 860 | 860 |
| | 4 | 1108 | 1108 |
| Bf | 1 | 475 | 475 |
| | 2 | 850 | 850 |
| C | 1 | 443 | 443 |
| | 2 | 295 | 295 |
| | 3 | 269 | 269 |
| Cf | 1 | 443 | 443 |
| | 2 | 564 | 564 |
| D | 1 | 393 | 393 |
| | 2 | 194 | 194 |
| | 3 | 306 | 306 |
| | 4 | 405 | 405 |
| Dc | 1 | 556 | 556 |
| | 2 | 1065 | 1065 |
| | 3 | 240 | 240 |
| | 4 | 524 | 524 |
| Dcf | 1 | 1062 | 1062 |
| | 2 | 855 | 855 |
| | 3 | 556 | 556 |
| | 4 | 1065 | 1065 |
| | 5 | 240 | 240 |
| | 6 | 524 | 524 |
| Df | 1 | 587 | 587 |
| | 2 | 711 | 711 |
| Dxp | 1 | 1062 | 1062 |
| | 2 | 855 | 855 |
| Ec | 1 | 693 | 693 |
| | 2 | 434 | 434 |
| | 3 | 810 | 810 |
| | 4 | 380 | 380 |
| Ecf | 1 | 649 | 649 |
| | 2 | 1365 | 1365 |
| | 3 | 434 | 434 |
| | 4 | 810 | 810 |
| | 5 | 425 | 425 |

| | | | |
|---|---|---|---|
| **Ef** | **1** | 798 | 798 |
| | **2** | 584 | 584 |
| **Exp** | **1** | 649 | 649 |
| | **2** | 672 | 672 |
| **F** | **1** | 219 | 219 |
| | **2** | 269 | 269 |
| | **3** | 443 | 443 |
| **Fc** | **1** | 588 | 588 |
| | **2** | 842 | 842 |
| | **3** | 886 | 886 |
| **Ff** | **1** | 488 | 488 |
| | **2** | 443 | 443 |
| **G** | **1** | 315 | 315 |
| | **2** | 315 | 315 |
| **Gf** | **1** | 292 | 292 |
| | **2** | 292 | 292 |
| **xA** | **1** | 742 | 742 |
| | **2** | 882 | 882 |
| **xB** | **1** | 1721 | 1721 |
| **xC** | **1** | 682 | 682 |
| | **2** | 681 | 681 |
| **xD** | **1** | 1062 | 1062 |
| | **2** | 855 | 855 |
| **xE** | **1** | 649 | 649 |
| | **2** | 672 | 672 |
| **xF** | **1** | 799 | 799 |
| **Cc1** | **1** | 734 | 734 |
| **E1** | **1** | 292 | 292 |
| | **2** | 506 | 506 |
| **Gf1** | **1** | 45 | 45 |
| **Cc2** | **2** | 970 | 970 |
| | **3** | 770 | 770 |
| | **4** | 1060 | 1060 |
| | **5** | 98 | 98 |
| | **6** | 396 | 396 |
| **E2** | **3** | 292 | 292 |
| | **4** | 292 | 292 |
| **TC5** | **2** | 551 | 551 |
| | **3** | 882 | 882 |
| | **4** | 0 | 0 |
| **TC9** | **1** | 1080 | 1080 |
| | **2** | 559 | 559 |
| | **3** | 718 | 718 |
| **TC35** | **1** | 191 | 191 |
| **TC36** | **1** | 551 | 551 |
| **TC37** | **1** | 107 | 107 |
| **TC38** | **1** | 107 | 107 |
| **TC39** | **2** | 551 | 551 |
| | **3** | 882 | 882 |
| **TC40** | **2** | 658 | 658 |
| | **3** | 882 | 882 |
| **TC41** | **1** | 196 | 196 |
| | **2** | 248 | 248 |
| **TC42** | **1** | 0 | 0 |
| **TC43** | **1** | 0 | 0 |
| **47** | **1** | 1363 | 1363 |
| **48** | **1** | 1007 | 1007 |

| | | | |
|---|---|---|---|
| 49 | 1 | 1080 | 1080 |
| | 2 | 1277 | 1277 |
| 50 | 1 | 1325 | 1325 |
| 51 | 1 | 931 | 931 |

## Signals

| Arm | Traffic Stream | Controller stream | Phase | Second phase enabled |
|---|---|---|---|---|
| A | 1 | 771-2 | E | |
| | 2 | 771-2 | E | |
| | 3 | 771-2 | E | |
| | 4 | 771-2 | E | |
| Ac | 1 | 771-2 | D | |
| | 2 | 771-2 | D | |
| | 3 | 771-2 | D | |
| B | 1 | 769-1 | B | |
| | 2 | 769-1 | B | |
| | 3 | 769-1 | B | |
| | 4 | 769-1 | B | |
| Bc | 1 | 769-1 | A | |
| | 2 | 769-1 | A | |
| | 3 | 769-1 | A | |
| C | 1 | 769-2 | G | |
| | 2 | 769-2 | G | |
| | 3 | 769-2 | G | |
| D | 1 | 770-1 | B | |
| | 2 | 770-1 | B | |
| | 3 | 770-1 | B | |
| | 4 | 770-1 | B | |
| Dc | 1 | 770-1 | A | |
| | 2 | 770-1 | A | |
| | 3 | 770-1 | A | |
| | 4 | 770-1 | A | |
| Dxp | 1 | 770-2 | D | |
| | 2 | 770-2 | D | |
| Ec | 1 | 770-3 | F | |
| | 2 | 770-3 | F | |
| | 3 | 770-3 | F | |
| | 4 | 770-3 | F | |
| Exp | 1 | 770-4 | L | |
| | 2 | 770-4 | L | |
| F | 1 | 771-1 | B | |
| | 2 | 771-1 | B | |
| | 3 | 771-1 | B | |
| Fc | 1 | 771-1 | A | |
| | 2 | 771-1 | A | |
| | 3 | 771-1 | A | |
| G | 1 | 769-2 | F | |
| | 2 | 769-2 | F | |
| Cc1 | 1 | 769-2 | E | |
| E1 | 1 | 770-3 | G | |
| | 2 | 770-3 | G | |
| Cc2 | 2 | 769-2 | D | |
| | 3 | 769-2 | D | |
| | 4 | 769-2 | D | |
| | 5 | 769-2 | D | |
| | 6 | 769-2 | D | |
| E2 | 3 | 770-3 | H | |
| | 4 | 770-3 | H | |

| | | | | |
|---|---|---|---|---|
| TC5 | 2 | TC777-1 | A | |
| | 3 | TC777-1 | A | |
| | 4 | TC777-1 | C | |
| TC9 | 1 | TC777-1 | B | |
| | 2 | TC777-1 | B | |
| | 3 | TC777-1 | B | |
| TC35 | 1 | TC777-1 | A | |
| TC37 | 1 | TC777-2 | J | |
| TC41 | 1 | TC777-1 | D | |
| | 2 | TC777-1 | D | |
| TC42 | 1 | TC777-1 | E | |

## Entry Sources

| Arm | Traffic Stream | Cruise time for Normal Traffic (s) | Cruise speed for Normal Traffic (kph) |
|---|---|---|---|
| Df | 1 | 24.00 | 30.00 |
| | 2 | 24.00 | 30.00 |
| Ef | 1 | 15.31 | 30.00 |
| | 2 | 15.31 | 30.00 |
| TC36 | 1 | 3.03 | 30.00 |
| TC42 | 1 | 2.80 | 30.00 |
| 48 | 1 | 6.61 | 30.00 |
| 49 | 1 | 3.15 | 30.00 |
| | 2 | 3.15 | 30.00 |
| 50 | 1 | 5.78 | 30.00 |
| 51 | 1 | 4.50 | 30.00 |

## Sources

| Arm | Traffic Stream | Source | Source traffic stream | Destination traffic stream | Cruise time for Normal Traffic (s) | Cruise speed for Normal Traffic (kph) | Auto turning radius | Traffic turn style | Turning radius (m) |
|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 1 | Af/1 | A/1 | 5.59 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Af/1 | A/2 | 5.77 | 48.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | Af/2 | A/3 | 5.90 | 48.00 | ✓ | Straight | Straight Movement |
| | 4 | 1 | Af/3 | A/4 | 6.03 | 48.00 | ✓ | Straight | Straight Movement |
| Ac | 1 | 1 | Acf/1 | Ac/1 | 7.19 | 48.00 | ✓ | Offside | 48.59 |
| | 2 | 1 | Acf/1 | Ac/2 | 9.50 | 35.00 | ✓ | Offside | 46.08 |
| | 3 | 1 | Acf/2 | Ac/3 | 6.60 | 48.00 | ✓ | Offside | 42.76 |
| Acf | 1 | 1 | F/2 | Acf/1 | 5.22 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | F/3 | Acf/2 | 7.24 | 35.00 | ✓ | Straight | Straight Movement |
| Af | 1 | 1 | TC42/1 | Af/1 | 6.42 | 30.00 | ✓ | Nearside | 10.60 |
| | 2 | 1 | TC42/1 | Af/2 | 6.36 | 30.00 | ✓ | Nearside | 10.60 |
| | 3 | 1 | TC42/1 | Af/3 | 6.33 | 30.00 | ✓ | Nearside | 10.60 |
| B | 1 | 1 | Bf/1 | B/1 | 7.10 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Bf/1 | B/2 | 7.29 | 48.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | Bf/2 | B/3 | 7.48 | 48.00 | ✓ | Straight | Straight Movement |
| | 4 | 1 | Bf/2 | B/4 | 12.29 | 30.00 | ✓ | Straight | Straight Movement |
| Bc | 1 | 1 | Bcf/2 | Bc/1 | 10.02 | 48.00 | ✓ | Offside | 53.47 |
| | 2 | 1 | Bcf/3 | Bc/2 | 9.91 | 48.00 | ✓ | Offside | 50.16 |
| | 3 | 1 | Bcf/4 | Bc/3 | 9.80 | 48.00 | ✓ | Offside | 46.85 |
| Bcf | 1 | 1 | A/1 | Bcf/1 | 4.70 | 48.00 | ✓ | Nearside | 68.65 |
| | 2 | 1 | A/2 | Bcf/2 | 6.69 | 34.00 | ✓ | Nearside | 71.96 |
| | 3 | 1 | A/3 | Bcf/3 | 6.60 | 34.00 | ✓ | Nearside | 75.27 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 4 | 1 | A/4 | Bcf/4 | 6.59 | 34.00 | ✓ | Nearside | 78.59 |
| Bf | 1 | 1 | 50/1 | Bf/1 | 27.34 | 30.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | 50/1 | Bf/2 | 27.41 | 30.00 | ✓ | Straight | Straight Movement |
| C | 1 | 1 | Cf/1 | C/1 | 14.54 | 30.00 | ✓ | Offside | 59.30 |
| | 2 | 1 | Cf/2 | C/2 | 14.68 | 30.00 | ✓ | Offside | 55.98 |
| | 3 | 1 | Cf/2 | C/3 | 14.92 | 30.00 | ✓ | Offside | 53.27 |
| Cf | 1 | 1 | 48/1 | Cf/1 | 17.35 | 30.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | 48/1 | Cf/2 | 17.50 | 30.00 | ✓ | Straight | Straight Movement |
| D | 1 | 1 | Df/1 | D/1 | 4.13 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Df/1 | D/2 | 4.13 | 48.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | Df/2 | D/3 | 3.97 | 48.00 | ✓ | Straight | Straight Movement |
| | 4 | 1 | Df/2 | D/4 | 4.16 | 48.00 | ✓ | Straight | Straight Movement |
| Dc | 1 | 1 | Dcf/3 | Dc/1 | 3.77 | 48.00 | ✓ | Offside | 52.98 |
| | 2 | 1 | Dcf/4 | Dc/2 | 3.63 | 48.00 | ✓ | Offside | 49.67 |
| | 3 | 1 | Dcf/5 | Dc/3 | 3.48 | 48.00 | ✓ | Offside | 46.35 |
| | 4 | 1 | Dcf/6 | Dc/4 | 3.34 | 48.00 | ✓ | Offside | 43.04 |
| Dcf | 1 | 1 | Cc2/2 | Dcf/1 | 4.95 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Cc2/4 | Dcf/2 | 4.94 | 48.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | C/1 | Dcf/3 | 4.99 | 48.00 | ✓ | Nearside | 55.54 |
| | 4 | 1 | C/2 | Dcf/4 | 5.01 | 48.00 | ✓ | Nearside | 58.86 |
| | 5 | 1 | Cc2/5 | Dcf/5 | 5.02 | 48.00 | ✓ | Straight | Straight Movement |
| | 6 | 1 | Cc2/6 | Dcf/6 | 5.04 | 48.00 | ✓ | Offside | 96.74 |
| Dxp | 1 | 1 | Dcf/1 | Dxp/1 | 3.50 | 48.00 | ✓ | Nearside | 80.62 |
| | 2 | 1 | Dcf/2 | Dxp/2 | 3.65 | 48.00 | ✓ | Nearside | 83.93 |
| Ec | 1 | 1 | Ecf/2 | Ec/1 | 3.76 | 48.00 | ✓ | Offside | 76.42 |
| | 2 | 1 | Ecf/3 | Ec/2 | 3.63 | 48.00 | ✓ | Offside | 73.10 |
| | 3 | 1 | Ecf/4 | Ec/3 | 3.51 | 48.00 | ✓ | Offside | 69.79 |
| | 4 | 1 | Ecf/5 | Ec/4 | 3.38 | 48.00 | ✓ | Offside | 66.48 |
| Ecf | 1 | 1 | Dc/1 | Ecf/1 | 3.45 | 48.00 | ✓ | Offside | 76.11 |
| | 2 | 1 | Dc/2 | Ecf/2 | 3.48 | 48.00 | ✓ | Offside | 72.80 |
| | 3 | 1 | Dc/3 | Ecf/3 | 3.52 | 48.00 | ✓ | Offside | 69.49 |
| | 4 | 1 | Dc/4 | Ecf/4 | 3.56 | 48.00 | ✓ | Offside | 66.17 |
| | 5 | 1 | Dc/4 | Ecf/5 | 3.64 | 48.00 | ✓ | Offside | 62.86 |
| Exp | 1 | 1 | Ecf/1 | Exp/1 | 3.89 | 48.00 | ✓ | Nearside | 52.96 |
| | 2 | 1 | Ecf/2 | Exp/2 | 4.03 | 48.00 | ✓ | Nearside | 56.27 |
| F | 1 | 1 | Ff/1 | F/1 | 6.38 | 48.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Ff/1 | F/2 | 6.43 | 48.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | Ff/2 | F/3 | 6.54 | 48.00 | ✓ | Straight | Straight Movement |
| Fc | 1 | 1 | Ec/2 | Fc/1 | 18.84 | 35.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | Ec/3 | Fc/2 | 18.66 | 35.00 | ✓ | Straight | Straight Movement |
| | 3 | 1 | Ec/4 | Fc/3 | 18.54 | 35.00 | ✓ | Straight | Straight Movement |
| Ff | 1 | 1 | 51/1 | Ff/1 | 33.09 | 30.00 | ✓ | Straight | Straight Movement |
| | 2 | 1 | 51/1 | Ff/2 | 33.05 | 30.00 | ✓ | Straight | Straight Movement |
| G | 1 | 1 | Gf/1 | G/1 | 16.06 | 35.00 | ✓ | Offside | 96.83 |
| | 2 | 1 | Gf/2 | G/2 | 11.45 | 48.00 | ✓ | Offside | 93.51 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Gf** | **1** | **1** | E2/3 | Gf/1 | 2.92 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | E2/4 | Gf/2 | 2.88 | 48.00 | ✓ | Straight | Straight Movement |
| **xA** | **1** | **1** | F/1 | xA/1 | 17.22 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | Fc/2 | xA/2 | 17.25 | 48.00 | ✓ | Straight | Straight Movement |
| **xB** | **1** | **1** | Bcf/1 | xB/1 | 5.79 | 48.00 | ✓ | Nearside | 59.55 |
| **xC** | **1** | **1** | G/1 | xC/1 | 8.67 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | G/2 | xC/2 | 8.70 | 48.00 | ✓ | Straight | Straight Movement |
| **xD** | **1** | **1** | Dxp/1 | xD/1 | 9.13 | 48.00 | ✓ | Nearside | 30.26 |
| | **2** | **1** | Dxp/2 | xD/2 | 9.21 | 48.00 | ✓ | Nearside | 33.58 |
| **xE** | **1** | **1** | Exp/1 | xE/1 | 13.04 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | Exp/2 | xE/2 | 13.04 | 48.00 | ✓ | Straight | Straight Movement |
| **xF** | **1** | **1** | Ec/1 | xF/1 | 12.19 | 48.00 | ✓ | Straight | Straight Movement |
| **Cc1** | **1** | **1** | B/1 | Cc1/1 | 8.62 | 40.00 | ✓ | Straight | Straight Movement |
| **E1** | **1** | **1** | Ef/1 | E1/1 | 6.00 | 48.00 | ✓ | Nearside | 26.33 |
| | **2** | **1** | Ef/1 | E1/2 | 6.00 | 48.00 | ✓ | Nearside | 28.96 |
| **Gf1** | **1** | **1** | Ecf/5 | Gf1/1 | 3.59 | 48.00 | ✓ | Offside | 21.77 |
| **Cc2** | **2** | **1** | B/1 | Cc2/2 | 8.15 | 40.00 | ✓ | Straight | Straight Movement |
| | **3** | **1** | B/3 | Cc2/3 | 8.04 | 40.00 | ✓ | Straight | Straight Movement |
| | **4** | **1** | B/2 | Cc2/4 | 8.16 | 40.00 | ✓ | Straight | Straight Movement |
| | **5** | **1** | B/3 | Cc2/5 | 7.95 | 40.00 | ✓ | Straight | Straight Movement |
| | **6** | **1** | B/4 | Cc2/6 | 7.91 | 40.00 | ✓ | Straight | Straight Movement |
| **E2** | **3** | **1** | Ef/2 | E2/3 | 4.00 | 48.00 | ✓ | Nearside | 43.25 |
| | **4** | **1** | Ef/2 | E2/4 | 4.07 | 48.00 | ✓ | Nearside | 43.25 |
| **TC5** | **2** | **1** | xA/1 | TC5/2 | 2.76 | 30.00 | ✓ | Straight | Straight Movement |
| | **3** | **1** | xA/2 | TC5/3 | 2.76 | 30.00 | ✓ | Straight | Straight Movement |
| | **4** | **1** | xA/2 | TC5/4 | 2.93 | 30.00 | ✓ | Straight | Straight Movement |
| **TC9** | **1** | **1** | 49/1 | TC9/1 | 11.00 | 30.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | 49/2 | TC9/2 | 11.05 | 30.00 | ✓ | Straight | Straight Movement |
| | **3** | **1** | 49/2 | TC9/3 | 11.12 | 30.00 | ✓ | Straight | Straight Movement |
| **TC35** | **1** | **1** | xA/1 | TC35/1 | 2.90 | 30.00 | ✓ | Straight | Straight Movement |
| **TC37** | **1** | **1** | TC36/1 | TC37/1 | 3.19 | 50.00 | ✓ | Nearside | 46.04 |
| **TC38** | **1** | **1** | TC37/1 | TC38/1 | 1.53 | 50.00 | ✓ | Straight | Straight Movement |
| **TC39** | **2** | **1** | TC5/2 | TC39/2 | 2.54 | 50.00 | ✓ | Straight | Straight Movement |
| | **3** | **1** | TC5/3 | TC39/3 | 2.40 | 50.00 | ✓ | Straight | Straight Movement |
| **TC40** | **2** | **1** | TC38/1 | TC40/2 | 4.23 | 50.00 | ✓ | Nearside | 11.92 |
| | **3** | **1** | TC39/3 | TC40/3 | 4.02 | 50.00 | ✓ | Offside | 77.43 |
| **TC41** | **1** | **1** | TC36/1 | TC41/1 | 3.93 | 50.00 | ✓ | Straight | Straight Movement |
| | **2** | **1** | TC36/1 | TC41/2 | 3.97 | 50.00 | ✓ | Straight | Straight Movement |
| **TC43** | **1** | **1** | TC9/1 | TC43/1 | 3.74 | 50.00 | ✓ | Nearside | 6.11 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **47** | **1** | **1** | xC/1 | 47/1 | 16.04 | 30.00 | ✓ | Straight | Straight Movement |
| **Acf** | **1** | **2** | Fc/3 | Acf/1 | 5.22 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **2** | Fc/3 | Acf/2 | 7.24 | 35.00 | ✓ | Straight | Straight Movement |
| **Af** | **1** | **2** | TC9/1 | Af/1 | 6.42 | 30.00 | ✓ | Straight | Straight Movement |
| | **2** | **2** | TC9/2 | Af/2 | 6.36 | 30.00 | ✓ | Straight | Straight Movement |
| | **3** | **2** | TC9/3 | Af/3 | 6.33 | 30.00 | ✓ | Straight | Straight Movement |
| **Bcf** | **1** | **2** | Ac/1 | Bcf/1 | 3.96 | 57.00 | ✓ | Offside | 93.05 |
| | **2** | **2** | Ac/2 | Bcf/2 | 3.99 | 57.00 | ✓ | Offside | 89.74 |
| | **3** | **2** | Ac/3 | Bcf/3 | 3.94 | 57.00 | ✓ | Offside | 86.42 |
| | **4** | **2** | Ac/3 | Bcf/4 | 3.93 | 57.00 | ✓ | Offside | 86.42 |
| **Dcf** | **1** | **2** | C/1 | Dcf/1 | 4.95 | 48.00 | ✓ | Nearside | 55.54 |
| | **2** | **2** | C/1 | Dcf/2 | 4.94 | 48.00 | ✓ | Nearside | 55.54 |
| | **3** | **2** | Cc2/4 | Dcf/3 | 7.99 | 30.00 | ✓ | Straight | Straight Movement |
| | **4** | **2** | Cc2/3 | Dcf/4 | 8.01 | 30.00 | ✓ | Straight | Straight Movement |
| | **5** | **2** | C/3 | Dcf/5 | 5.02 | 48.00 | ✓ | Nearside | 62.17 |
| | **6** | **2** | C/3 | Dcf/6 | 5.04 | 48.00 | ✓ | Nearside | 62.17 |
| **Ecf** | **1** | **2** | D/1 | Ecf/1 | 3.45 | 48.00 | ✓ | Nearside | 43.36 |
| | **2** | **2** | D/1 | Ecf/2 | 3.48 | 48.00 | ✓ | Nearside | 43.36 |
| | **3** | **2** | D/2 | Ecf/3 | 3.52 | 48.00 | ✓ | Nearside | 46.68 |
| | **4** | **2** | D/3 | Ecf/4 | 3.56 | 48.00 | ✓ | Nearside | 49.99 |
| | **5** | **2** | D/4 | Ecf/5 | 3.64 | 48.00 | ✓ | Nearside | 53.30 |
| **Fc** | **1** | **2** | E1/1 | Fc/1 | 20.61 | 32.00 | ✓ | Nearside | 58.94 |
| | **2** | **2** | E1/1 | Fc/2 | 20.41 | 32.00 | ✓ | Nearside | 60.85 |
| | **3** | **2** | E1/2 | Fc/3 | 20.28 | 32.00 | ✓ | Nearside | 64.16 |
| **G** | **1** | **2** | Gf1/1 | G/1 | 16.06 | 35.00 | ✓ | Offside | 17.91 |
| | **2** | **2** | Gf1/1 | G/2 | 11.45 | 48.00 | ✓ | Offside | 15.13 |
| **xA** | **1** | **2** | Fc/1 | xA/1 | 17.22 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **2** | Fc/1 | xA/2 | 17.25 | 48.00 | ✓ | Straight | Straight Movement |
| **xC** | **1** | **2** | Cc1/1 | xC/1 | 8.67 | 48.00 | ✓ | Nearside | 56.51 |
| | **2** | **2** | Cc1/1 | xC/2 | 8.70 | 48.00 | ✓ | Nearside | 57.28 |
| **xF** | **1** | **2** | E1/1 | xF/1 | 12.19 | 48.00 | ✓ | Nearside | 40.67 |
| **Cc1** | **1** | **2** | Bc/1 | Cc1/1 | 6.38 | 54.00 | ✓ | Straight | Straight Movement |
| **Cc2** | **2** | **2** | Bc/1 | Cc2/2 | 10.86 | 30.00 | ✓ | Straight | Straight Movement |
| | **3** | **2** | Bc/3 | Cc2/3 | 10.72 | 30.00 | ✓ | Straight | Straight Movement |
| | **4** | **2** | Bc/3 | Cc2/4 | 10.88 | 30.00 | ✓ | Straight | Straight Movement |
| | **5** | **2** | Bc/3 | Cc2/5 | 10.60 | 30.00 | ✓ | Straight | Straight Movement |
| | **6** | **2** | Bc/3 | Cc2/6 | 10.55 | 30.00 | ✓ | Offside | 98.78 |
| **TC39** | **2** | **2** | TC42/1 | TC39/2 | 2.54 | 50.00 | ✓ | Offside | 9.44 |
| | **3** | **2** | TC42/1 | TC39/3 | 2.40 | 50.00 | ✓ | Offside | 9.44 |
| **TC40** | **2** | **2** | TC39/2 | TC40/2 | 4.23 | 50.00 | ✓ | Offside | 80.74 |
| **TC43** | **1** | **2** | TC5/4 | TC43/1 | 3.74 | 50.00 | ✓ | Offside | 21.45 |
| **47** | **1** | **2** | xC/2 | 47/1 | 16.04 | 30.00 | ✓ | Straight | Straight Movement |
| **Acf** | **1** | **3** | Fc/2 | Acf/1 | 5.22 | 48.00 | ✓ | Straight | Straight Movement |
| **Af** | **1** | **3** | TC41/1 | Af/1 | 6.42 | 30.00 | ✓ | Offside | 6.19 |
| | **2** | **3** | TC41/2 | Af/2 | 6.36 | 30.00 | ✓ | Offside | 6.00 |
| | **3** | **3** | TC41/2 | Af/3 | 6.33 | 30.00 | ✓ | Offside | 6.00 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Bcf** | **2** | **3** | Ac/3 | Bcf/2 | 3.99 | 57.00 | ✓ | Offside | 86.42 |
| **xA** | **2** | **3** | F/2 | xA/2 | 17.25 | 48.00 | ✓ | Straight | Straight Movement |
| **Cc2** | **2** | **3** | Bc/2 | Cc2/2 | 10.86 | 30.00 | ✓ | Straight | Straight Movement |

### Give Way Data

| Arm | Traffic Stream | Opposed traffic | Use Step-wise Opposed Turn Model | Visibility restricted |
|---|---|---|---|---|
| **(ALL)** | **1** | AllTraffic | | |

### Give Way Data - All Movements - Conflicts

| Traffic Stream | Description | Controlling type | Controlling traffic stream | Percentage opposing (%) | Slope coefficient | Upstream signals visible | Conflict shift | Conflict duration |
|---|---|---|---|---|---|---|---|---|
| **1** | | TrafficStream | Gf/1 | 100 | 0.22 | | 4 | 0 |
| | | TrafficStream | Gf/2 | 100 | 0.22 | | 4 | 4 |
| | | TrafficStream | TC39/2 | 100 | 0.22 | | 0 | 0 |
| | | TrafficStream | TC39/3 | 100 | 0.22 | | 0 | 0 |

## Pedestrian Crossings

### Pedestrian Crossings

| Crossing | Name | Description | Traffic node | Allow walk on red | Crossing type | Length (m) | Cruise time (seconds) | Cruise speed (kph) |
|---|---|---|---|---|---|---|---|---|
| **1** | (untitled) | | 3-2 | | Nearside | 3.00 | 2.00 | 5.40 |
| **2** | (untitled) | | 3 | | Nearside | 3.00 | 2.00 | 5.40 |
| **3** | (untitled) | | 4-2 | | Nearside | 3.00 | 2.00 | 5.40 |
| **4** | (untitled) | | 4 | | Nearside | 3.00 | 2.00 | 5.40 |
| **5** | (untitled) | | 4 | | Nearside | 3.00 | 2.00 | 5.40 |
| **6** | (untitled) | | 4 | | Nearside | 3.00 | 2.00 | 5.40 |
| **7** | (untitled) | | 5 | | Nearside | 3.00 | 2.00 | 5.40 |
| **8** | (untitled) | | 1 | | Nearside | 3.00 | 2.00 | 5.40 |
| **9** | (untitled) | | 2 | | Nearside | 3.00 | 2.00 | 5.40 |
| **10** | (untitled) | | 2 | | Nearside | 3.00 | 2.00 | 5.40 |
| **11** | (untitled) | | | | Nearside | 3.00 | 2.00 | 5.40 |
| **12** | (untitled) | | 2 | | Nearside | 3.00 | 2.00 | 5.40 |
| **13** | (untitled) | | | | Farside | 3.00 | 2.00 | 5.40 |
| **14** | (untitled) | | | | Farside | 3.00 | 2.00 | 5.40 |
| **15** | (untitled) | | | | Nearside | 3.00 | 2.00 | 5.40 |
| **16** | (untitled) | | | | Nearside | 3.00 | 2.00 | 5.40 |
| **17** | (untitled) | | | | Nearside | 3.00 | 2.00 | 5.40 |

### Pedestrian Crossings - Signals

| Crossing | Controller stream | Phase | Second phase enabled |
|---|---|---|---|
| 1 | 770-2 | E | |
| 2 | 770-1 | C | |
| 3 | 770-4 | M | |
| 4 | 770-3 | J | |
| 5 | 770-3 | I | |
| 6 | 770-3 | K | |
| 7 | 771-1 | C | |
| 8 | 769-1 | C | |
| 9 | 769-2 | J | |
| 10 | 769-2 | K | |
| 11 | 769-2 | H | |
| 12 | 769-2 | I | |
| 13 | TC777-1 | I | |
| 14 | TC777-1 | F | |
| 15 | TC777-1 | G | |
| 16 | TC777-1 | H | |
| 17 | TC777-2 | K | |

### Pedestrian Crossings - Sides

| Crossing | Side | Saturation flow (Ped/hr) |
|---|---|---|
| (ALL) | (ALL) | 11000 |

### Pedestrian Crossings - Modelling

| Crossing | Side | Delay weighting (%) | Assignment Cost Weighting (%) | Exclude from results calculation | Max queue storage (Ped) | Has queue limit | Has degree of saturation limit |
|---|---|---|---|---|---|---|---|
| (ALL) | (ALL) | 100 | 100 | | 0.00 | | |

## Local OD Matrix - Local Matrix: 1

### Local Matrix Options

| OD Matrix | Name | Use for point to point table | Auto calculate | Allocation mode | Allow paths past exit locations | Allow looped paths on arms | Allow looped paths on traffic nodes | Copy flows | Matrix to copy flows from | Limit paths by length | Path length limit multiplier | Limit paths by number | Path number limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | (untitled) | ✓ | ✓ | Lane Balancing | | | ✓ | | | ✓ | 1.25 | | |

### Normal Input Flows (PCU/hr)

| | | To | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A28 | B28 | C28 | D28 | E28 | F28 | G28 | H28 |
| From | A28 | 3 | 49 | 386 | 12 | 413 | 59 | 403 | 0 |
| | B28 | 18 | 0 | 96 | 165 | 477 | 13 | 238 | 0 |
| | C28 | 360 | 45 | 0 | 300 | 93 | 21 | 479 | 0 |
| | D28 | 5 | 351 | 340 | 0 | 16 | 59 | 160 | 0 |
| | E28 | 443 | 584 | 86 | 106 | 1 | 10 | 152 | 0 |
| | F28 | 157 | 39 | 76 | 85 | 87 | 0 | 107 | 0 |
| | G28 | 735 | 295 | 933 | 131 | 234 | 29 | 0 | 0 |
| | H28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Bus Input Flows not shown as they are blank.

Tram Input Flows not shown as they are blank.

Pedestrian Input Flows not shown as they are blank.

## Locations

| OD Matrix | Location | Name | Entries | Exits | Colour |
|---|---|---|---|---|---|
| 1 | A28 | (untitled) | 50/1 | xB/1 | #FF0000 |
| | B28 | (untitled) | 48/1 | 47/1 | #00FF40 |
| | C28 | (untitled) | Df/2, Df/1 | xD/1, xD/2 | #804000 |
| | D28 | (untitled) | 51/1 | xF/1 | #FF00FF |
| | E28 | (untitled) | Ef/2, Ef/1 | xE/1, xE/2 | #FF8000 |
| | F28 | (untitled) | TC36/1 | TC35/1 | #FFA500 |
| | G28 | (untitled) | 49/2, 49/1 | TC40/2, TC40/3 | #0000FF |
| | H28 | (untitled) | TC42/1 | TC43/1 | #008000 |

## Normal Paths and Flows

| OD Matrix | Path | Description | From location | To location | Path items | Allocation type | N Cal (P |
|---|---|---|---|---|---|---|---|
| | 32 | I1 | C28 | E28 | Df/1, D/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | 36 | | C28 | E28 | Df/1, D/1, Ecf/2, Exp/2, xE/2 | Disabled | |
| | 41 | | E28 | A28 | Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | 49 | I1 | C28 | D28 | Df/1, D/1, Ecf/2, Ec/1, xF/1 | Normal | |
| | 50 | | E28 | D28 | Ef/1, E1/1, xF/1 | Normal | |
| | 67 | | G28 | B28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| | 68 | | E28 | G28 | Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | 69 | | D28 | B28 | 51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| | 70 | | D28 | B28 | 51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| | 71 | | D28 | B28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Fixed | |
| | 72 | | D28 | B28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Fixed | |
| | 73 | | H28 | B28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| | 74 | | H28 | B28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| | 75 | | F28 | B28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| | 76 | | F28 | B28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| | 89 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 90 | | H28 | H28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | 91 | I2 | C28 | F28 | Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 92 | | E28 | F28 | Ef/1, E1/1, Fc/1, xA/1, TC35/1 | Normal | |
| | 94 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | 95 | | G28 | F28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 96 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 100 | | E28 | B28 | Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1 | Fixed | |
| | 102 | | A28 | C28 | 50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | 103 | | H28 | H28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | 104 | I2 | C28 | G28 | Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Fixed | |
| | 106 | | F28 | F28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 107 | | A28 | B28 | 50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1 | Normal | |
| | 109 | I3 | C28 | G28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 110 | | E28 | G28 | Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | 112 | | F28 | G28 | TC36/1, TC37/1, TC38/1, TC40/2 | Normal | |
| | 113 | | F28 | A28 | TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1 | Normal | |
| | 114 | | C28 | H28 | Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | 115 | | B28 | C28 | 48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2 | Fixed | |
| | 116 | | H28 | C28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 117 | | F28 | C28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Disabled | |
| | 118 | | G28 | C28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Fixed | |
| | 119 | | G28 | E28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | 120 | | C28 | C28 | Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | 121 | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | 122 | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | 123 | | D28 | C28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Fixed | |
| | 124 | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **125** | | H28 | A28 | TC42/1, Af/1, A/1, Bcf/1, xB/1 | Normal | |
| | **126** | | H28 | E28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | **127** | | F28 | C28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | **128** | | F28 | E28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | **137** | | H28 | G28 | TC42/1, TC39/2, TC40/2 | Normal | |
| | **138** | | H28 | G28 | TC42/1, TC39/3, TC40/3 | Normal | |
| | **140** | | B28 | G28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | **141** | | B28 | H28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **142** | | C28 | H28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **143** | | E28 | H28 | Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **144** | | B28 | B28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1 | Normal | |
| | **145** | | B28 | B28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1 | Normal | |
| | **150** | | E28 | B28 | Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1 | Normal | |
| | **154** | | E28 | A28 | Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1 | Fixed | |
| | **162** | | B28 | F28 | 48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | **166** | | B28 | C28 | 48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **168** | | G28 | A28 | 49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1 | Normal | |
| | **171** | | G28 | H28 | 49/1, TC9/1, TC43/1 | Normal | |
| **1** | **185** | | A28 | B28 | 50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1 | Normal | |
| | **186** | | A28 | C28 | 50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | **195** | | D28 | G28 | 51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | **196** | | D28 | F28 | 51/1, Ff/1, F/1, xA/1, TC35/1 | Normal | |
| | **198** | | D28 | A28 | 51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | **234** | I2 | C28 | G28 | Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | **235** | | E28 | G28 | Ef/1, E1/1, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Disabled | |
| | **236** | | E28 | H28 | Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | **255** | I3 | C28 | A28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1 | Fixed | |
| | **291** | | C28 | A28 | Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | **294** | | C28 | B28 | Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1 | Normal | |
| | **295** | | C28 | B28 | Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1 | Normal | |
| | **296** | | D28 | G28 | 51/1, Ff/1, F/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | **297** | | D28 | H28 | 51/1, Ff/1, F/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **299** | | A28 | G28 | 50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | **300** | | A28 | H28 | 50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **301** | | A28 | A28 | 50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | **302** | | A28 | A28 | 50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | **312** | | B28 | G28 | 48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | **313** | | B28 | G28 | 48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | **314** | | B28 | H28 | 48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | **323** | | B28 | D28 | 48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **324** | | B28 | E28 | 48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **343** | | B28 | A28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1 | Disabled | |
| | **344** | | B28 | A28 | 48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1 | Normal | |
| | **345** | | B28 | E28 | 48/1, Cf/1, C/1, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| | **356** | | A28 | G28 | 50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | **357** | | A28 | F28 | 50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | **358** | | A28 | G28 | 50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | **359** | | A28 | H28 | 50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | **360** | | G28 | B28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| | **362** | | F28 | H28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | **365** | | H28 | F28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | **367** | | F28 | H28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | **377** | | G28 | C28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | **378** | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **379** | | C28 | C28 | Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **380** | | C28 | C28 | Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **381** | | E28 | C28 | Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | **382** | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **383** | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | **384** | | D28 | C28 | 51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | **385** | | D28 | C28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | **387** | | A28 | E28 | 50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| | **392** | | G28 | D28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **393** | | G28 | E28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **394** | | A28 | D28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **395** | | A28 | E28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **396** | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **397** | | D28 | D28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **398** | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **399** | | H28 | D28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **400** | | H28 | E28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **401** | | F28 | D28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1 | Normal | |
| | **402** | | F28 | E28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | **403** | | H28 | C28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | **404** | | G28 | C28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **405** | | C28 | C28 | Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **406** | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **407** | | D28 | C28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **408** | | H28 | C28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | **409** | | F28 | C28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |

# Signal Timings

**Network Default: 60s cycle time; 60 steps**

## Controller Stream 769-1

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| **769-1** | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 769-1 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| **769-1** | Unspecified | | | | | | Absolute |

## Controller Stream 769-1 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| **769-1** | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| **769-1** | **A** | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | **B** | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | **C** | (untitled) | 7 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| **769-1** | **1** | A, C | 1 |
| | **2** | B | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay |
|---|---|---|---|---|---|---|
| **769-1** | **1** | Losing | A | 1 | 2 | 4 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 769-1 | 1 | (untitled) | Single | 1, 2 | 27, 51 |

## Intergreen Matrix for Controller Stream 769-1

| | | To | | |
|---|---|---|---|---|
| | | A | B | C |
| From | A | | 7 | |
| | B | 5 | | 5 |
| | C | | 9 | |

## Banned Stage transitions for Controller Stream 769-1

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | | |
| | 2 | | |

## Interstage Matrix for Controller Stream 769-1

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | 0 | 11 |
| | 2 | 5 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 769-1 | 1 | ✓ | 1 | A,C | 56 | 27 | 31 | 1 | 7 |
| | 2 | ✓ | 2 | B | 38 | 51 | 13 | 1 | 7 |

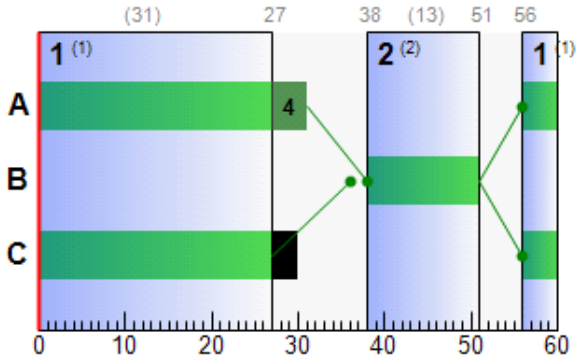
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 769-1 | A | 1 | ✓ | 56 | 31 | 35 |
| | B | 1 | ✓ | 38 | 51 | 13 |
| | C | 1 | ✓ | 56 | 27 | 31 |

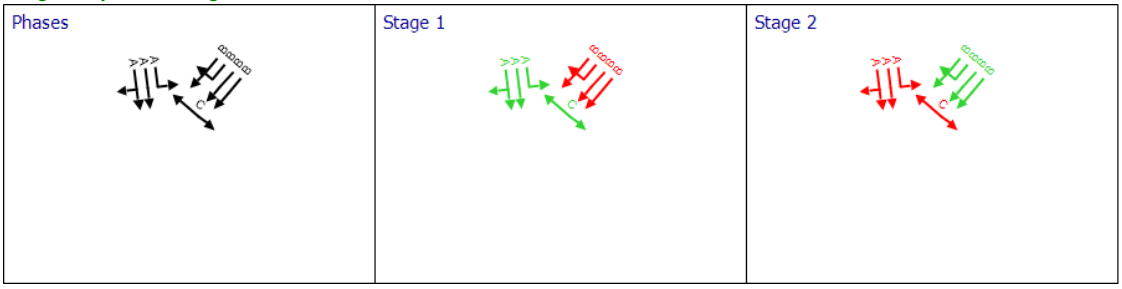
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| B | 1 | 1 | 769-1 | B | 38 | 51 | 13 |
| B | 2 | 1 | 769-1 | B | 38 | 51 | 13 |
| B | 3 | 1 | 769-1 | B | 38 | 51 | 13 |
| B | 4 | 1 | 769-1 | B | 38 | 51 | 13 |
| Bc | 1 | 1 | 769-1 | A | 56 | 31 | 35 |
| Bc | 2 | 1 | 769-1 | A | 56 | 31 | 35 |
| Bc | 3 | 1 | 769-1 | A | 56 | 31 | 35 |

### Phase Timings Diagram for Controller Stream 769-1




### Stage Sequence Diagram for Controller Stream 769-1




## Controller Stream 769-2

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 769-2 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 769-2 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 769-2 | Unspecified | | | | | | Absolute |

## Controller Stream 769-2 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 769-2 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 769-2 | D | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | E | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | F | (untitled) | 4 | 300 | 0 | 0 | Traffic | |
| | G | (untitled) | 4 | 300 | 0 | 0 | Traffic | |
| | H | (untitled) | 5 | 300 | 0 | 0 | Pedestrian | 3 |
| | I | (untitled) | 7 | 300 | 0 | 0 | Pedestrian | 3 |
| | J | (untitled) | 12 | 300 | 0 | 0 | Pedestrian | 3 |
| | K | (untitled) | 5 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 769-2 | 4 | D, E, H, I | 1 |
| | 5 | F, G, J, K | 1 |
| | 6 | F, G, K | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay | Absolute delay |
|---|---|---|---|---|---|---|---|
| 769-2 | 1 | Losing | I | 4 | 5 | 2 | |
| | 2 | Losing | H | 4 | 5 | 4 | |
| | 3 | Losing | D | 4 | 5 | 7 | |
| | 4 | Losing | E | 4 | 5 | 8 | |
| | 5 | Losing | F | 5 | 4 | 5 | |
| | 6 | Losing | G | 5 | 4 | 6 | |
| | 7 | Losing | K | 5 | 4 | 7 | |
| | 8 | Losing | G | 6 | 4 | 8 | |
| | 9 | Losing | I | 4 | 6 | 4 | |
| | 10 | Losing | H | 4 | 6 | 6 | |
| | 11 | Losing | D | 4 | 6 | 6 | |
| | 12 | Losing | E | 4 | 6 | 7 | |
| | 13 | Losing | F | 6 | 4 | 6 | |
| | 14 | Losing | K | 6 | 4 | 7 | |
| | 15 | Gaining | G | 4 | 5 | 0 | 13 |
| | 16 | Gaining | F | 4 | 5 | 0 | 12 |
| | 17 | Gaining | D | 5 | 4 | 0 | 13 |
| | 18 | Gaining | E | 5 | 4 | 1 | 15 |
| | 19 | Gaining | J | 4 | 5 | 0 | 12 |
| | 20 | Losing | J | 5 | 4 | 1 | |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Equal length multiple cycling | Stage IDs | Stage ends | Multiple cycling stage IDs | Multiple cycling stage ends |
|---|---|---|---|---|---|---|---|---|
| 769-2 | 1 | (untitled) | Single | | 4, 5 | 5, 28 | | |
| | 2 | (untitled) | Single | | 4, 6, 5 | 0, 16, 32 | | |
| | 3 | (untitled) | Single | | 4, 5, 6 | 0, 29, 38 | | |
| | 4 | (untitled) | Double | ✓ | 4, 6 | 2, 23 | 4, 6 | 62, 83 |

## Intergreen Matrix for Controller Stream 769-2

| | | To | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | D | E | F | G | H | I | J | K |
| From | D | | | 5 | 7 | | | 5 | |
| | E | | | 5 | | | | | 5 |
| | F | 6 | 8 | | | 8 | | | |
| | G | 4 | | | | | 5 | | |
| | H | | | 5 | | | | | |
| | I | | | | 9 | | | | |
| | J | 14 | | | | | | | |
| | K | | 7 | | | | | | |

## Banned Stage transitions for Controller Stream 769-2

| | | To | | |
|---|---|---|---|---|
| | | 4 | 5 | 6 |
| From | 4 | | | |
| | 5 | | | |
| | 6 | | | |

## Interstage Matrix for Controller Stream 769-2

| | | To | | |
|---|---|---|---|---|
| | | 4 | 5 | 6 |
| From | 4 | 0 | 14 | 13 |
| | 5 | 15 | 0 | 0 |
| | 6 | 14 | 0 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 769-2 | 1 | ✓ | 4 | D,E,H,I | 43 | 5 | 22 | 1 | 1 |
| | 2 | ✓ | 5 | F,G,J,K | 19 | 28 | 9 | 1 | 9 |

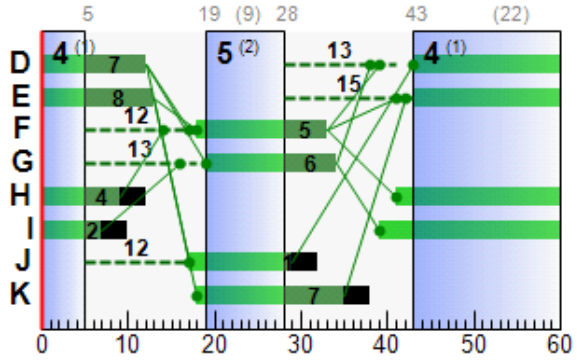
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 769-2 | D | 1 | ✓ | 43 | 12 | 29 |
| | E | 1 | ✓ | 43 | 13 | 30 |
| | F | 1 | ✓ | 18 | 33 | 15 |
| | G | 1 | ✓ | 19 | 34 | 15 |
| | H | 1 | ✓ | 41 | 9 | 28 |
| | I | 1 | ✓ | 39 | 7 | 28 |
| | J | 1 | ✓ | 17 | 29 | 12 |
| | K | 1 | ✓ | 18 | 35 | 17 |

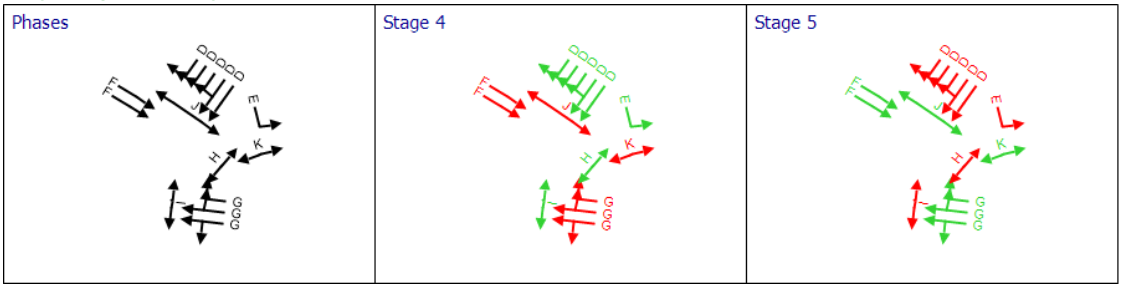
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| C | 1 | 2 | 769-2 | G | 19 | 34 | 15 |
| C | 2 | 2 | 769-2 | G | 19 | 34 | 15 |
| C | 3 | 2 | 769-2 | G | 19 | 34 | 15 |
| G | 1 | 2 | 769-2 | F | 18 | 33 | 15 |
| G | 2 | 2 | 769-2 | F | 18 | 33 | 15 |
| Cc1 | 1 | 2 | 769-2 | E | 43 | 13 | 30 |
| Cc2 | 2 | 2 | 769-2 | D | 43 | 12 | 29 |
| Cc2 | 3 | 2 | 769-2 | D | 43 | 12 | 29 |
| Cc2 | 4 | 2 | 769-2 | D | 43 | 12 | 29 |
| Cc2 | 5 | 2 | 769-2 | D | 43 | 12 | 29 |
| Cc2 | 6 | 2 | 769-2 | D | 43 | 12 | 29 |

### Phase Timings Diagram for Controller Stream 769-2




### Stage Sequence Diagram for Controller Stream 769-2




## Controller Stream 770-1

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 770-1 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 770-1 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 770-1 | Unspecified | | | | | | Absolute |

## Controller Stream 770-1 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 770-1 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 770-1 | A | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | B | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | C | (untitled) | 7 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 770-1 | 1 | A, C | 1 |
| | 2 | B | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay |
|---|---|---|---|---|---|---|
| 770-1 | 1 | Losing | A | 1 | 2 | 4 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 770-1 | 1 | (untitled) | Single | 1, 2 | 52, 18 |

## Intergreen Matrix for Controller Stream 770-1

| | | To | | |
|---|---|---|---|---|
| | | A | B | C |
| From | A | | 5 | |
| | B | 5 | | 5 |
| | C | | 9 | |

## Banned Stage transitions for Controller Stream 770-1

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | | |
| | 2 | | |

## Interstage Matrix for Controller Stream 770-1

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | 0 | 9 |
| | 2 | 5 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 770-1 | 1 | ✓ | 1 | A,C | 23 | 52 | 29 | 1 | 7 |
| | 2 | ✓ | 2 | B | 1 | 18 | 17 | 1 | 7 |

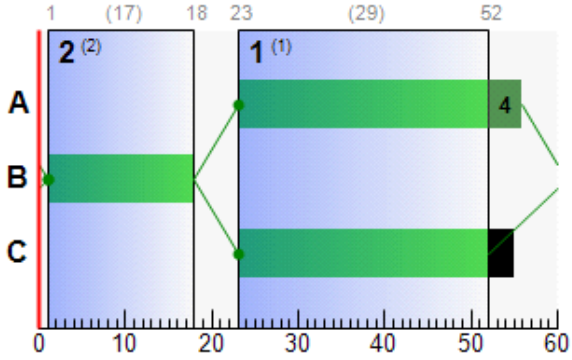
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-1 | A | 1 | ✓ | 23 | 56 | 33 |
| | B | 1 | ✓ | 1 | 18 | 17 |
| | C | 1 | ✓ | 23 | 52 | 29 |

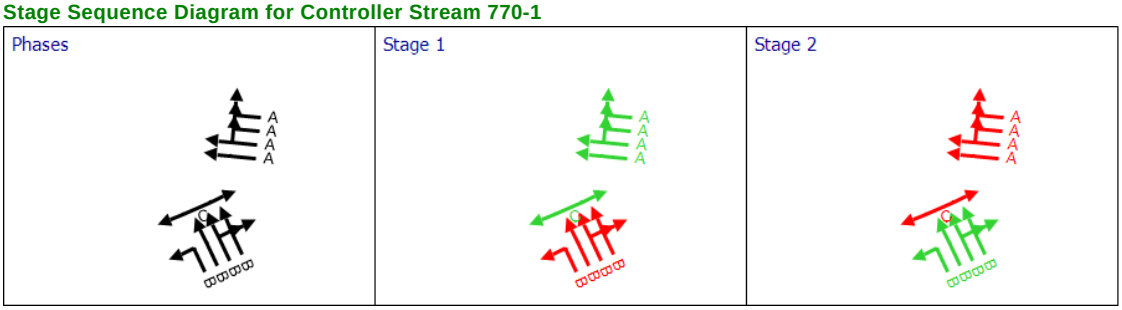
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| D | 1 | 3 | 770-1 | B | 1 | 18 | 17 |
| D | 2 | 3 | 770-1 | B | 1 | 18 | 17 |
| D | 3 | 3 | 770-1 | B | 1 | 18 | 17 |
| D | 4 | 3 | 770-1 | B | 1 | 18 | 17 |
| Dc | 1 | 3 | 770-1 | A | 23 | 56 | 33 |
| Dc | 2 | 3 | 770-1 | A | 23 | 56 | 33 |
| Dc | 3 | 3 | 770-1 | A | 23 | 56 | 33 |
| Dc | 4 | 3 | 770-1 | A | 23 | 56 | 33 |

### Phase Timings Diagram for Controller Stream 770-1




### Stage Sequence Diagram for Controller Stream 770-1




## Controller Stream 770-2

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 770-2 | (untitled) | | 1 | Manual | 60 |

## Controller Stream 770-2 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 770-2 | Unspecified | | | | | | Absolute |

## Controller Stream 770-2 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 770-2 | | | None | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 770-2 | D | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | E | (untitled) | 5 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 770-2 | 4 | D | 1 |
| | 5 | E | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 770-2 | 1 | (untitled) | Single | 4, 5 | 23, 35 |

## Intergreen Matrix for Controller Stream 770-2

| | | To | |
|---|---|---|---|
| | | D | E |
| From | D | | 5 |
| | E | 7 | |

## Banned Stage transitions for Controller Stream 770-2

| | | To | |
|---|---|---|---|
| | | 4 | 5 |
| From | 4 | | |
| | 5 | | |

## Interstage Matrix for Controller Stream 770-2

| | | To | |
|---|---|---|---|
| | | 4 | 5 |
| From | 4 | 0 | 5 |
| | 5 | 7 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 770-2 | 1 | ✓ | 4 | D | 42 | 23 | 41 | 1 | 7 |
| | 2 | ✓ | 5 | E | 28 | 35 | 7 | 1 | 5 |

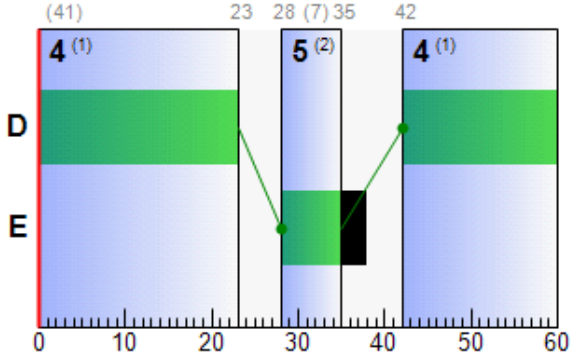
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-2 | D | 1 | ✓ | 42 | 23 | 41 |
| | E | 1 | ✓ | 28 | 35 | 7 |

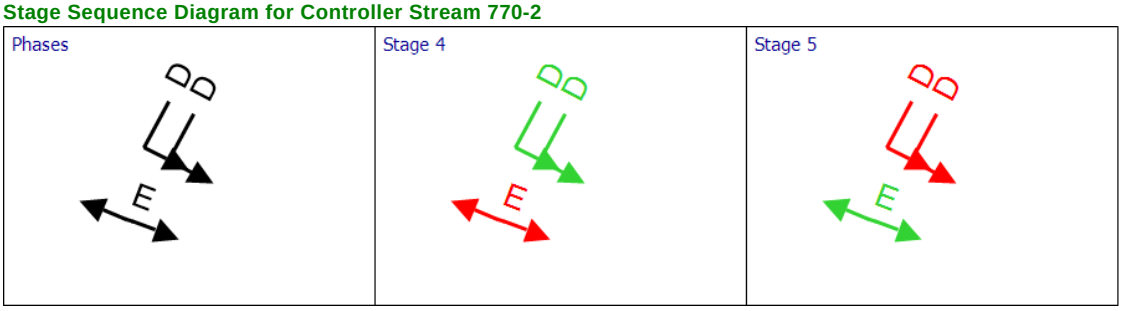
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| Dxp | 1 | 3-2 | 770-2 | D | 42 | 23 | 41 |
| Dxp | 2 | 3-2 | 770-2 | D | 42 | 23 | 41 |

### Phase Timings Diagram for Controller Stream 770-2



### Stage Sequence Diagram for Controller Stream 770-2




## Controller Stream 770-3

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 770-3 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 770-3 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 770-3 | Unspecified | | | | | | Absolute |

## Controller Stream 770-3 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 770-3 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 770-3 | F | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | G | (untitled) | 4 | 300 | 0 | 0 | Traffic | |
| | H | (untitled) | 4 | 300 | 0 | 0 | Traffic | |
| | I | (untitled) | 5 | 300 | 0 | 0 | Pedestrian | 3 |
| | J | (untitled) | 5 | 300 | 0 | 0 | Pedestrian | 3 |
| | K | (untitled) | 10 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 770-3 | 7 | F, I, J | 1 |
| | 8 | G, H, K | 1 |
| | 9 | G, H | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay |
|---|---|---|---|---|---|---|
| 770-3 | 1 | Losing | I | 7 | 8 | 2 |
| | 2 | Losing | F | 7 | 8 | 2 |
| | 3 | Losing | G | 8 | 7 | 7 |
| | 4 | Losing | H | 8 | 7 | 5 |
| | 5 | Losing | I | 7 | 9 | 4 |
| | 6 | Losing | F | 7 | 9 | 4 |
| | 7 | Losing | G | 9 | 7 | 7 |
| | 8 | Losing | H | 9 | 7 | 5 |
| | 9 | Losing | J | 7 | 9 | 2 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 770-3 | 1 | (untitled) | Single | 7, 9 | 13, 42 |

## Intergreen Matrix for Controller Stream 770-3

| | | To | | | | | |
|---|---|---|---|---|---|---|---|
| | | F | G | H | I | J | K |
| From | F | | 7 | 5 | | | 6 |
| | G | 4 | | | 5 | | |
| | H | 6 | | | | 5 | |
| | I | | 7 | | | | |
| | J | | | 7 | | | |
| | K | 11 | | | | | |

## Banned Stage transitions for Controller Stream 770-3

| | | To | | |
|---|---|---|---|---|
| | | 7 | 8 | 9 |
| From | 7 | | | |
| | 8 | | | |
| | 9 | | | |

## Interstage Matrix for Controller Stream 770-3

| | | To | | |
|---|---|---|---|---|
| | | 7 | 8 | 9 |
| From | 7 | 0 | 9 | 11 |
| | 8 | 12 | 0 | 0 |
| | 9 | 12 | 0 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 770-3 | 1 | ✓ | 7 | F,I,J | 54 | 13 | 19 | 1 | 2 |
| | 2 | ✓ | 9 | G,H | 24 | 42 | 18 | 1 | 1 |

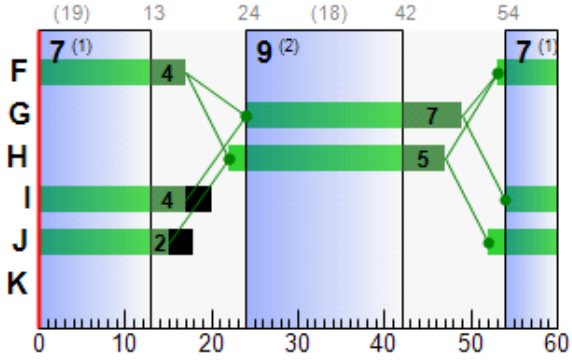
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-3 | F | 1 | ✓ | 53 | 17 | 24 |
| | H | 1 | ✓ | 22 | 47 | 25 |
| | I | 1 | ✓ | 54 | 17 | 23 |
| | J | 1 | ✓ | 52 | 15 | 23 |

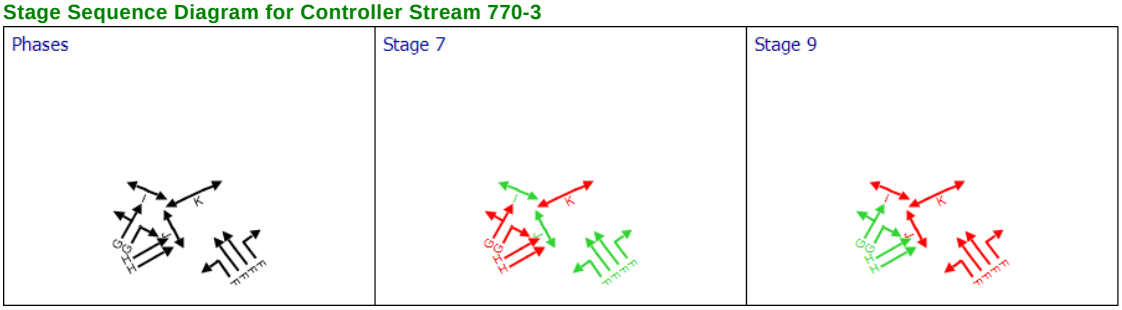
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| Ec | 1 | 4 | 770-3 | F | 53 | 17 | 24 |
| Ec | 2 | 4 | 770-3 | F | 53 | 17 | 24 |
| Ec | 3 | 4 | 770-3 | F | 53 | 17 | 24 |
| Ec | 4 | 4 | 770-3 | F | 53 | 17 | 24 |
| E1 | 1 | 4 | 770-3 | G | 24 | 49 | 25 |
| E1 | 2 | 4 | 770-3 | G | 24 | 49 | 25 |
| E2 | 3 | 4 | 770-3 | H | 22 | 47 | 25 |
| E2 | 4 | 4 | 770-3 | H | 22 | 47 | 25 |

### Phase Timings Diagram for Controller Stream 770-3




### Stage Sequence Diagram for Controller Stream 770-3




## Controller Stream 770-4

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 770-4 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 770-4 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 770-4 | Unspecified | | | | | | Absolute |

## Controller Stream 770-4 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 770-4 | | | None | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 770-4 | L | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | M | (untitled) | 6 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 770-4 | 11 | L | 1 |
| | 12 | M | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 770-4 | 1 | (untitled) | Single | 11, 12 | 24, 37 |

## Intergreen Matrix for Controller Stream 770-4

| | | To | |
|---|---|---|---|
| | | L | M |
| From | L | | 5 |
| | M | 7 | |

## Banned Stage transitions for Controller Stream 770-4

| | | To | |
|---|---|---|---|
| | | 11 | 12 |
| From | 11 | | |
| | 12 | | |

## Interstage Matrix for Controller Stream 770-4

| | | To | |
|---|---|---|---|
| | | 11 | 12 |
| From | 11 | 0 | 5 |
| | 12 | 7 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 770-4 | 1 | ✓ | 11 | L | 44 | 24 | 40 | 1 | 7 |
| | 2 | ✓ | 12 | M | 29 | 37 | 8 | 1 | 6 |

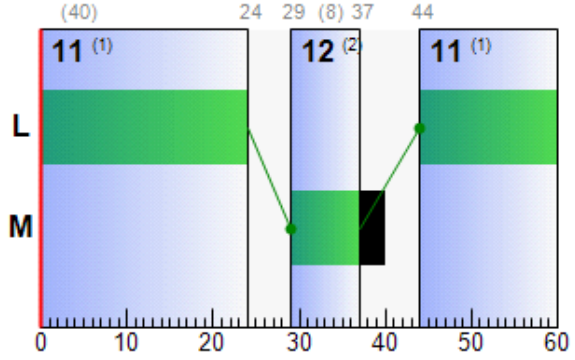
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-4 | L | 1 | ✓ | 44 | 24 | 40 |
| | M | 1 | ✓ | 29 | 37 | 8 |

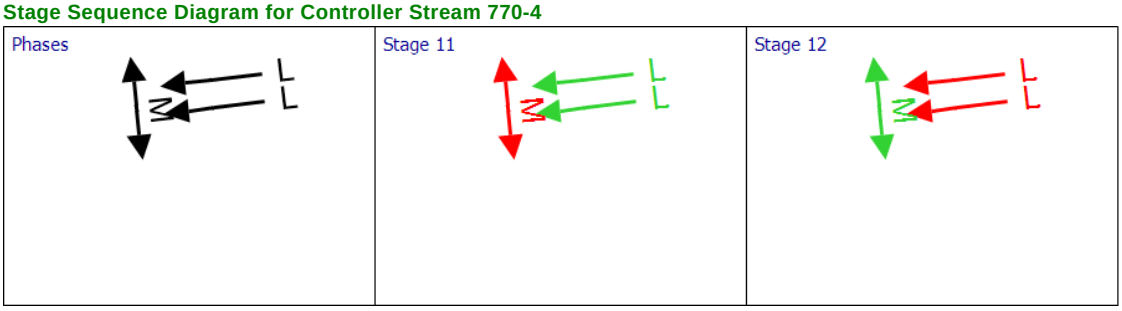
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| Exp | 1 | 4-2 | 770-4 | L | 44 | 24 | 40 |
| Exp | 2 | 4-2 | 770-4 | L | 44 | 24 | 40 |

### Phase Timings Diagram for Controller Stream 770-4



### Stage Sequence Diagram for Controller Stream 770-4




## Controller Stream 771-1

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 771-1 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 771-1 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 771-1 | Unspecified | | | | | | Absolute |

## Controller Stream 771-1 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 771-1 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| 771-1 | A | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | B | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | C | (untitled) | 9 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 771-1 | 1 | A, C | 1 |
| | 2 | A | 1 |
| | 3 | B | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay |
|---|---|---|---|---|---|---|
| 771-1 | 1 | Losing | A | 1 | 3 | 6 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 771-1 | 1 | (untitled) | Single | 1, 3 | 45, 11 |

## Intergreen Matrix for Controller Stream 771-1

| | | To | | |
|---|---|---|---|---|
| | | A | B | C |
| From | A | | 5 | |
| | B | 5 | | 5 |
| | C | | 11 | |

## Banned Stage transitions for Controller Stream 771-1

| | | To | | |
|---|---|---|---|---|
| | | 1 | 2 | 3 |
| From | 1 | | | |
| | 2 | | | |
| | 3 | | | |

## Interstage Matrix for Controller Stream 771-1

| | | To | | |
|---|---|---|---|---|
| | | 1 | 2 | 3 |
| From | 1 | 0 | 0 | 11 |
| | 2 | 0 | 0 | 5 |
| | 3 | 5 | 5 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 771-1 | 1 | ✓ | 1 | A,C | 16 | 45 | 29 | 1 | 9 |
| | 2 | ✓ | 3 | B | 56 | 11 | 15 | 1 | 7 |

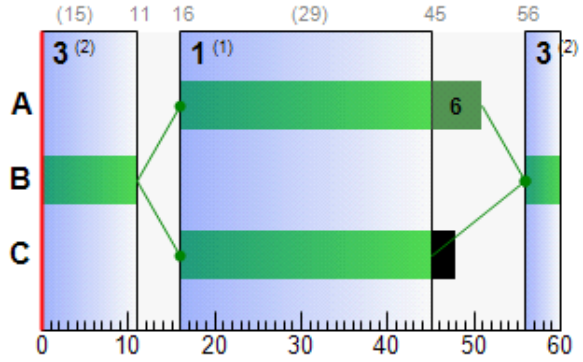
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 771-1 | A | 1 | ✓ | 16 | 51 | 35 |
| | B | 1 | ✓ | 56 | 11 | 15 |
| | C | 1 | ✓ | 16 | 45 | 29 |

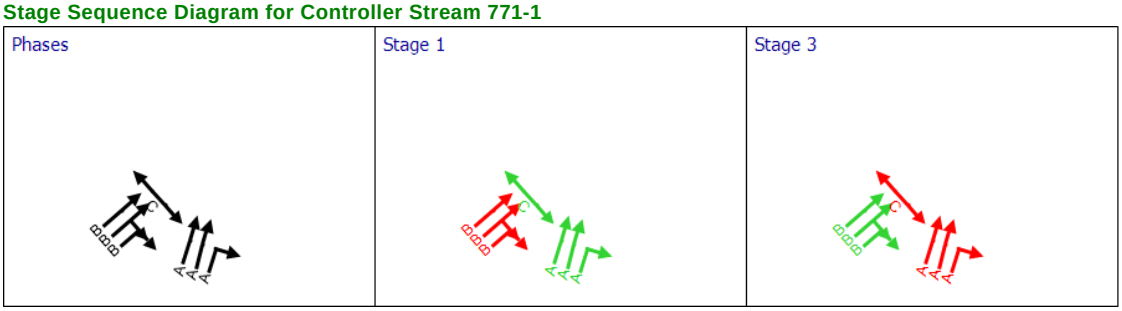
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| F | 1 | 5 | 771-1 | B | 56 | 11 | 15 |
| F | 2 | 5 | 771-1 | B | 56 | 11 | 15 |
| F | 3 | 5 | 771-1 | B | 56 | 11 | 15 |
| Fc | 1 | 5 | 771-1 | A | 16 | 51 | 35 |
| Fc | 2 | 5 | 771-1 | A | 16 | 51 | 35 |
| Fc | 3 | 5 | 771-1 | A | 16 | 51 | 35 |

### Phase Timings Diagram for Controller Stream 771-1



### Stage Sequence Diagram for Controller Stream 771-1




## Controller Stream 771-2

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 771-2 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 771-2 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 771-2 | Unspecified | | | | | | Absolute |

## Controller Stream 771-2 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 771-2 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type |
|---|---|---|---|---|---|---|---|
| 771-2 | (ALL) | (untitled) | 7 | 300 | 0 | 0 | Traffic |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 771-2 | 5 | D | 1 |
| | 6 | E | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 771-2 | 1 | (untitled) | Single | 5, 6 | 28, 1 |

## Intergreen Matrix for Controller Stream 771-2

| | | To | |
|---|---|---|---|
| | | D | E |
| From | D | | 5 |
| | E | 5 | |

## Banned Stage transitions for Controller Stream 771-2

| | | To | |
|---|---|---|---|
| | | 5 | 6 |
| From | 5 | | |
| | 6 | | |

## Interstage Matrix for Controller Stream 771-2

| | | To | |
|---|---|---|---|
| | | 5 | 6 |
| From | 5 | 0 | 5 |
| | 6 | 5 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| 771-2 | 1 | ✓ | 5 | D | 6 | 28 | 22 | 1 | 7 |
| | 2 | ✓ | 6 | E | 33 | 1 | 28 | 1 | 7 |

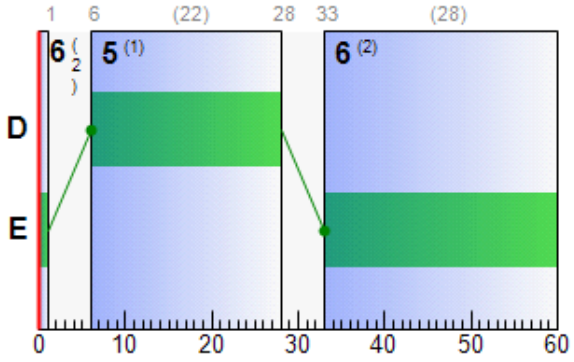
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 771-2 | D | 1 | ✓ | 6 | 28 | 22 |
| | E | 1 | ✓ | 33 | 1 | 28 |

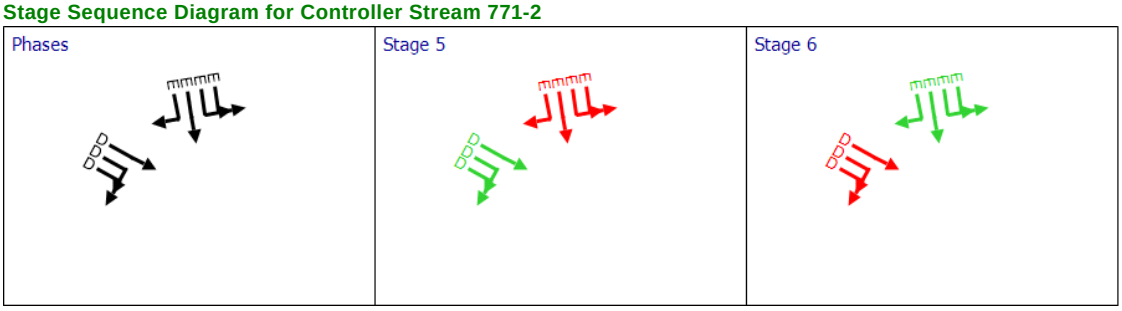
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| A | 1 | 6 | 771-2 | E | 33 | 1 | 28 |
| A | 2 | 6 | 771-2 | E | 33 | 1 | 28 |
| A | 3 | 6 | 771-2 | E | 33 | 1 | 28 |
| A | 4 | 6 | 771-2 | E | 33 | 1 | 28 |
| Ac | 1 | 6 | 771-2 | D | 6 | 28 | 22 |
| Ac | 2 | 6 | 771-2 | D | 6 | 28 | 22 |
| Ac | 3 | 6 | 771-2 | D | 6 | 28 | 22 |

### Phase Timings Diagram for Controller Stream 771-2




### Stage Sequence Diagram for Controller Stream 771-2




## Controller Stream TC777-1

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| TC777-1 | A653 Dewsbury Road / Topcliffe Lane | | 1 | NetworkDefault | 60 |

## Controller Stream TC777-1 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| TC777-1 | Unspecified | | | | | | Absolute |

## Controller Stream TC777-1 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| TC777-1 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| TC777-1 | A | Dewsbury Rd NB | 7 | 300 | 0 | 1 | Traffic | |
| | B | Dewsbury Rd SB | 7 | 300 | 0 | 2 | Traffic | |
| | C | Dewsbury Rd NB RT | 7 | 300 | 0 | 0 | Traffic | |
| | D | Topcliffe Ln RT | 7 | 300 | 0 | 0 | Traffic | |
| | E | Side Road | 7 | 300 | 0 | 0 | Traffic | |
| | F | Ped Xing at D | 5 | 300 | 0 | 0 | Pedestrian | 3 |
| | G | Ped Xing at B | 7 | 300 | 0 | 0 | Pedestrian | 3 |
| | H | Ped Xing at A AH | 6 | 300 | 0 | 0 | Pedestrian | 3 |
| | I | Ped Xing at A LT | 5 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| TC777-1 | 1 | A, B, F | 1 |
| | 2 | A, C, F, G | 1 |
| | 3 | B, F, H, I | 1 |
| | 4 | D, E | 1 |
| | 5 | D, H, I | 1 |
| | 6 | E, F, I | 1 |

## Losing / Gaining Phase Delays

| Controller Stream | Delay | Type | Phase | From stage | To stage | Relative delay |
|---|---|---|---|---|---|---|
| TC777-1 | 1 | Losing | B | 1 | 5 | 3 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| TC777-1 | 1 | (untitled) | Single | 1, 5 | 2, 18 |

## Intergreen Matrix for Controller Stream TC777-1

| | | To | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I |
| From | A | | | | 5 | 5 | | | 7 | 5 |
| | B | | | 5 | 5 | 5 | | 5 | | |
| | C | | 6 | | 5 | 5 | | | | |
| | D | 5 | 5 | 6 | | | 5 | | | |
| | E | 5 | 5 | 5 | | | | | 8 | |
| | F | | | | 8 | | | | | |
| | G | | 10 | | | | | | | |
| | H | 6 | | | | 6 | | | | |
| | I | 5 | | | | | | | | |

## Banned Stage transitions for Controller Stream TC777-1

| | | To | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| From | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |

## Interstage Matrix for Controller Stream TC777-1

| | | To | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| From | 1 | 0 | 5 | 7 | 8 | 8 | 5 |
| | 2 | 10 | 0 | 10 | 8 | 8 | 5 |
| | 3 | 6 | 6 | 0 | 8 | 8 | 6 |
| | 4 | 5 | 6 | 8 | 0 | 8 | 5 |
| | 5 | 6 | 6 | 5 | 6 | 0 | 6 |
| | 6 | 5 | 5 | 8 | 8 | 8 | 0 |

## Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| TC777-1 | 1 | ✓ | 1 | A,B,F | 24 | 2 | 38 | 1 | 7 |
| | 2 | ✓ | 5 | D,H,I | 10 | 18 | 8 | 1 | 7 |

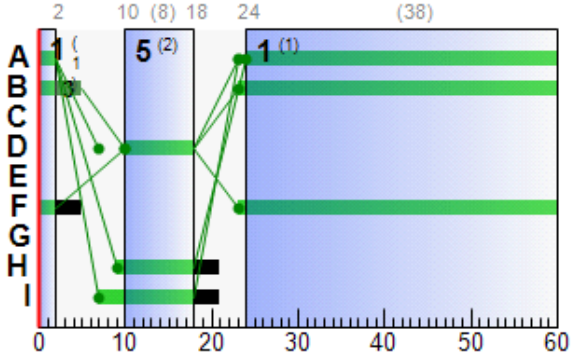
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| TC777-1 | A | 1 | ✓ | 24 | 2 | 38 |
| | B | 1 | ✓ | 23 | 5 | 42 |
| | D | 1 | ✓ | 10 | 18 | 8 |
| | F | 1 | ✓ | 23 | 2 | 39 |
| | H | 1 | ✓ | 9 | 18 | 9 |
| | I | 1 | ✓ | 7 | 18 | 11 |

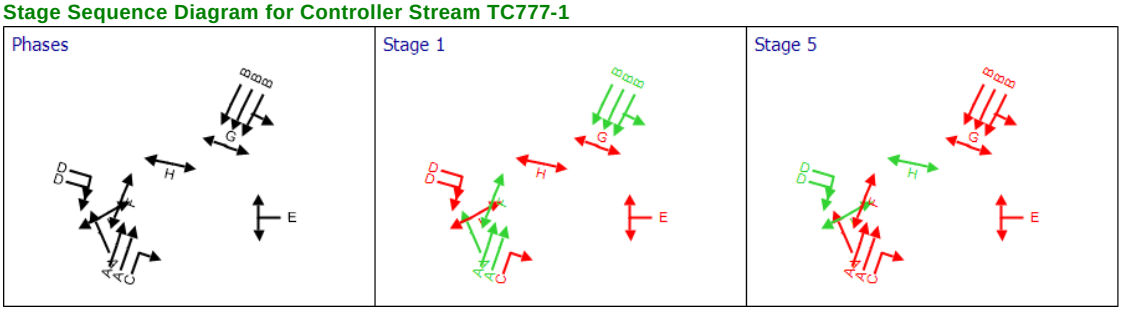
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| TC5 | 2 | TC771-6 | TC777-1 | A | 24 | 2 | 38 |
| TC5 | 3 | TC771-6 | TC777-1 | A | 24 | 2 | 38 |
| TC5 | 4 | TC771-6 | TC777-1 | C | | | |
| TC9 | 1 | TC771-6 | TC777-1 | B | 23 | 5 | 42 |
| TC9 | 2 | TC771-6 | TC777-1 | B | 23 | 5 | 42 |
| TC9 | 3 | TC771-6 | TC777-1 | B | 23 | 5 | 42 |
| TC35 | 1 | TC771-6 | TC777-1 | A | 24 | 2 | 38 |
| TC41 | 1 | TC771-6 | TC777-1 | D | 10 | 18 | 8 |
| TC41 | 2 | TC771-6 | TC777-1 | D | 10 | 18 | 8 |
| TC42 | 1 | TC771-6 | TC777-1 | E | | | |

### Phase Timings Diagram for Controller Stream TC777-1



### Stage Sequence Diagram for Controller Stream TC777-1




## Controller Stream TC777-2

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| TC777-2 | Topcliffe Ln LT Ped | | 1 | NetworkDefault | 60 |

## Controller Stream TC777-2 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| TC777-2 | Unspecified | | | | | | Absolute |

## Controller Stream TC777-2 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| TC777-2 | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type | Blackout Time (s) |
|---|---|---|---|---|---|---|---|---|
| TC777-2 | J | Topcliffe Ln LT | 7 | 300 | 0 | 0 | Traffic | |
| | K | Ped Xing at J | 5 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| TC777-2 | 1 | J | 1 |
| | 2 | K | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| TC777-2 | 1 | (untitled) | Single | 1, 2 | 40, 50 |

## Intergreen Matrix for Controller Stream TC777-2

| | | To | |
|---|---|---|---|
| | | J | K |
| From | J | | 5 |
| | K | 5 | |

## Banned Stage transitions for Controller Stream TC777-2

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | | |
| | 2 | | |

## Interstage Matrix for Controller Stream TC777-2

| | | To | |
|---|---|---|---|
| | | 1 | 2 |
| From | 1 | 0 | 5 |
| | 2 | 5 | 0 |

### Resultant Stages

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| TC777-2 | 1 | ✓ | 1 | J | 55 | 40 | 45 | 1 | 7 |
| | 2 | ✓ | 2 | K | 45 | 50 | 5 | 1 | 5 |

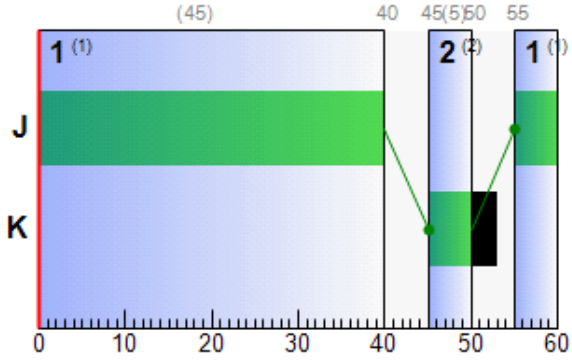
### Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| TC777-2 | J | 1 | ✓ | 55 | 40 | 45 |
| | K | 1 | ✓ | 45 | 50 | 5 |

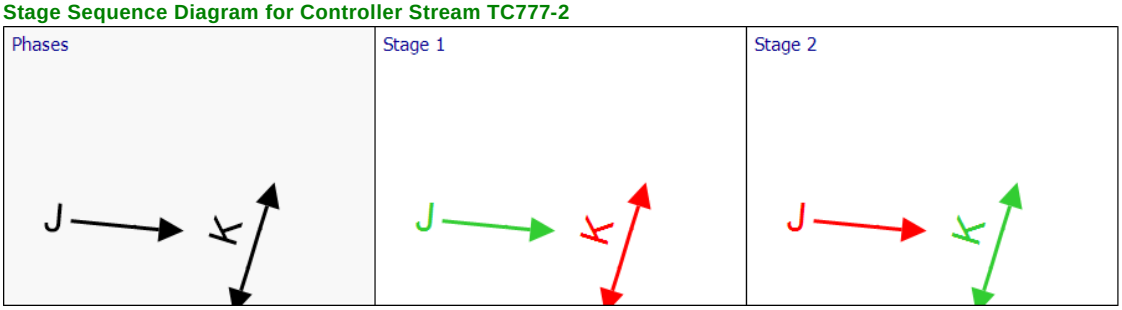
### Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| TC37 | 1 | TC771-6 | TC777-2 | J | 55 | 40 | 45 |

### Phase Timings Diagram for Controller Stream TC777-2




### Stage Sequence Diagram for Controller Stream TC777-2




### Resultant penalties

| Time Segment | Controller stream | Phase min max penalty (£ per hr) | Intergreen broken penalty (£ per hr) | Stage constraint broken penalty (£ per hr) | Cost of controller stream penalties (£ per hr) |
|---|---|---|---|---|---|
| 16:30-17:30 | (ALL) | 0.00 | 0.00 | 0.00 | 0.00 |

# Results - Link

# Results - Traffic Stream

### Results - Traffic Stream: Vehicle summary

| Time Segment | Arm | Traffic Stream | Name | Phase | Calculated flow entering (PCU/hr) | Calculated sat flow (PCU/hr) | Actual green (s (per cycle)) | Calculated capacity (PCU/hr) | Degree of saturation (%) | Practical reserve capacity (%) | Mean Delay per Veh (s) | Mean max queue (PCU) | Utilised storage (%) | JourneyTime (s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | (untitled) | E | 892 | 2050 | 28 | 991 | 90 | 0 | 26.86 | 14.17 | 109.31 | 32.45 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | 2 | (untitled) | E | 386 | 2050 | 28 | 991 | 39 | 131 | 8.68 | 2.61 | 19.51 | 14.45 |
| | | 3 | (untitled) | E | 597 | 2050 | 28 | 991 | 60 | 49 | 11.89 | 7.87 | 57.58 | 17.79 |
| | | 4 | (untitled) | E | 929 | 2050 | 28 | 991 | 94 | -4 | 36.10 | 18.55 | 132.74 | 42.13 |
| | Ac | 1 | (untitled) | D | 830 | 2263 | 22 | 867 | 96 | -6 | 60.45 | 21.45 | 128.71 | 67.63 |
| | | 2 | (untitled) | D | 264 | 2263 | 22 | 784 | 34 | 167 | 1.89 | 2.02 | 12.59 | 11.39 |
| | | 3 | (untitled) | D | 529 | 2263 | 22 | 867 | 61 | 48 | 5.98 | 2.79 | 18.26 | 12.57 |
| | Acf | 1 | (untitled) | | 1094 | 2263 | 60 | 2263 | 48 | 86 | 0.74 | 0.23 | 1.87 | 5.96 |
| | | 2 | (untitled) | | 529 | 2263 | 60 | 2263 | 23 | 285 | 0.24 | 0.04 | 0.29 | 7.49 |
| | Af | 1 | (untitled) | | 1278 | 2050 | 60 | 2002 | 64 | 41 | 1.70 | 2.29 | 24.57 | 8.13 |
| | | 2 | (untitled) | | 597 | 2050 | 60 | 2050 | 29 | 209 | 0.36 | 0.06 | 0.65 | 6.72 |
| | | 3 | (untitled) | | 929 | 2050 | 60 | 2041 | 46 | 98 | 0.74 | 1.64 | 17.87 | 7.07 |
| | B | 1 | (untitled) | B | 100 | 2050 | 13 | 478 | 21 | 331 | 30.30 | 2.35 | 14.25 | 37.40 |
| | | 2 | (untitled) | B | 332 | 2150 | 13 | 332 | 100 | -10 | 242.19 | 24.87 | 147.17 | 249.48 |
| | | 3 | (untitled) | B | 454 | 2100 | 13 | 490 | 93 | -3 | 58.12 | 10.86 | 62.63 | 65.60 |
| | | 4 | (untitled) | B | 397 | 2050 | 13 | 478 | 83 | 8 | 39.08 | 7.87 | 44.16 | 51.37 |
| | Bc | 1 | (untitled) | A | 737 | 2050 | 35 | 1230 | 60 | 50 | 9.33 | 7.44 | 32.04 | 19.34 |
| | | 2 | (untitled) | A | 860 | 2050 | 35 | 1195 | 72 | 25 | 12.53 | 10.57 | 46.00 | 22.43 |
| | | 3 | (untitled) | A | 1108 | 2050 | 35 | 1192 | 93 | -3 | 27.82 | 24.18 | 106.37 | 37.63 |
| | Bcf | 1 | (untitled) | | 1722 | 2263 | 60 | 2263 | 76 | 18 | 2.51 | 1.20 | 11.03 | 6.86 |
| | | 2 | (untitled) | | 737 | 2263 | 60 | 2263 | 33 | 176 | 0.38 | 0.08 | 0.72 | 5.78 |
| | | 3 | (untitled) | | 860 | 2263 | 60 | 2263 | 38 | 137 | 0.49 | 0.12 | 1.07 | 6.27 |
| | | 4 | (untitled) | | 1108 | 2263 | 60 | 2221 | 50 | 80 | 0.82 | 5.71 | 52.78 | 6.98 |
| | Bf | 1 | (untitled) | | 476 | 1800 | 60 | 432 | 110 | -18 | 399.94 | 64.55 | 162.92 | 427.28 |
| | | 2 | (untitled) | | 851 | 1800 | 60 | 1800 | 47 | 90 | 0.90 | 0.21 | 0.53 | 28.31 |
| | C | 1 | (untitled) | G | 443 | 2100 | 15 | 560 | 79 | 14 | 32.24 | 7.86 | 37.32 | 46.77 |
| | | 2 | (untitled) | G | 295 | 2200 | 15 | 575 | 51 | 75 | 22.06 | 4.20 | 19.75 | 36.74 |
| | | 3 | (untitled) | G | 270 | 2050 | 15 | 547 | 49 | 82 | 21.84 | 3.84 | 17.75 | 36.77 |
| | Cf | 1 | (untitled) | | 443 | 1965 | 60 | 1965 | 23 | 299 | 0.27 | 0.03 | 0.13 | 17.62 |
| | | 2 | (untitled) | | 565 | 1965 | 60 | 1965 | 29 | 213 | 0.37 | 0.06 | 0.23 | 17.87 |
| | D | 1 | (untitled) | B | 393 | 2050 | 17 | 615 | 64 | 41 | 23.31 | 5.65 | 59.04 | 27.44 |
| | | 2 | (untitled) | B | 194 | 1850 | 17 | 555 | 35 | 157 | 18.17 | 2.50 | 26.11 | 22.29 |
| | | 3 | (untitled) | B | 306 | 2250 | 17 | 675 | 45 | 99 | 19.23 | 3.93 | 42.71 | 23.20 |
| | | 4 | (untitled) | B | 406 | 2250 | 17 | 675 | 60 | 50 | 21.94 | 5.67 | 58.84 | 26.09 |
| | Dc | 1 | (untitled) | A | 552 | 2100 | 33 | 1190 | 46 | 94 | 5.11 | 2.52 | 28.82 | 8.88 |
| | | 2 | (untitled) | A | 1065 | 2100 | 33 | 1185 | 90 | 0 | 22.73 | 10.67 | 126.90 | 26.35 |
| | | 3 | (untitled) | A | 240 | 2100 | 33 | 1190 | 20 | 346 | 5.46 | 2.34 | 29.04 | 8.94 |
| | | 4 | (untitled) | A | 525 | 2100 | 33 | 1190 | 44 | 104 | 14.32 | 5.20 | 67.18 | 17.66 |
| | Dcf | 1 | (untitled) | | 1056 | 2050 | 60 | 2050 | 52 | 75 | 0.93 | 0.27 | 2.39 | 5.88 |
| | | 2 | (untitled) | | 825 | 2100 | 60 | 2100 | 39 | 129 | 0.55 | 0.13 | 1.11 | 5.50 |
| | | 3 | (untitled) | | 552 | 2100 | 60 | 2100 | 26 | 242 | 0.31 | 0.05 | 0.41 | 6.41 |
| | | 4 | (untitled) | | 1065 | 2100 | 60 | 1197 | 89 | 1 | 18.60 | 11.88 | 102.40 | 25.77 |
| | | 5 | (untitled) | | 240 | 2100 | 60 | 2100 | 11 | 688 | 0.11 | 0.01 | 0.06 | 5.13 |
| | | 6 | (untitled) | | 525 | 2100 | 60 | 2100 | 25 | 260 | 0.29 | 0.04 | 0.36 | 5.32 |
| | Df | 1 | (untitled) | | 587 | 1900 | 60 | 1900 | 31 | 191 | 0.42 | 0.07 | 0.20 | 24.42 |
| | | 2 | (untitled) | | 712 | 2250 | 60 | 2250 | 32 | 184 | 0.37 | 0.07 | 0.21 | 24.37 |
| | Dxp | 1 | (untitled) | D | 1062 | 2050 | 41 | 1435 | 74 | 22 | 4.43 | 2.60 | 32.10 | 7.93 |
| | | 2 | (untitled) | D | 825 | 2050 | 41 | 1435 | 57 | 57 | 1.76 | 0.47 | 5.60 | 5.41 |
| | Ec | 1 | (untitled) | F | 693 | 2150 | 24 | 896 | 77 | 16 | 13.85 | 6.78 | 77.83 | 17.60 |
| | | 2 | (untitled) | F | 434 | 2263 | 24 | 943 | 46 | 96 | 13.22 | 3.97 | 47.09 | 16.85 |
| | | 3 | (untitled) | F | 811 | 2263 | 24 | 943 | 86 | 5 | 23.88 | 9.26 | 113.88 | 27.39 |
| | | 4 | (untitled) | F | 380 | 2250 | 24 | 938 | 41 | 122 | 5.67 | 2.46 | 31.31 | 9.05 |
| | Ecf | 1 | (untitled) | | 645 | 2100 | 60 | 1697 | 38 | 137 | 1.63 | 2.44 | 30.48 | 5.07 |
| | | 2 | (untitled) | | 1365 | 2100 | 60 | 1961 | 70 | 29 | 2.65 | 5.56 | 68.95 | 6.13 |
| | | 3 | (untitled) | | 434 | 2263 | 60 | 2263 | 19 | 369 | 0.19 | 0.02 | 0.28 | 3.71 |
| | | 4 | (untitled) | | 811 | 2300 | 60 | 2046 | 40 | 127 | 1.16 | 2.73 | 33.04 | 4.72 |
| | | 5 | (untitled) | | 426 | 2300 | 60 | 2300 | 19 | 386 | 0.18 | 0.02 | 0.25 | 3.82 |
| | Ef | 1 | (untitled) | | 797 | 1900 | 60 | 1900 | 42 | 115 | 0.68 | 0.15 | 0.68 | 15.99 |
| 16:30- | | 2 | (untitled) | | 584 | 1900 | 60 | 1900 | 31 | 193 | 0.42 | 0.07 | 0.31 | 15.73 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:30 | Exp | 1 | (untitled) | L | 645 | 2050 | 40 | 1401 | 46 | 95 | 10.22 | 7.02 | 77.90 | 14.11 |
| | | 2 | (untitled) | L | 672 | 2050 | 40 | 1401 | 48 | 88 | 11.00 | 9.08 | 97.19 | 15.03 |
| | F | 1 | (untitled) | B | 219 | 2100 | 15 | 560 | 39 | 130 | 20.08 | 2.93 | 19.76 | 26.46 |
| | | 2 | (untitled) | B | 269 | 2100 | 15 | 560 | 48 | 87 | 21.47 | 3.66 | 24.54 | 27.90 |
| | | 3 | (untitled) | B | 443 | 2100 | 15 | 560 | 79 | 14 | 32.18 | 7.41 | 48.82 | 38.72 |
| | Fc | 1 | (untitled) | A | 588 | 2263 | 35 | 1358 | 43 | 108 | 4.46 | 5.36 | 16.83 | 23.76 |
| | | 2 | (untitled) | A | 843 | 2263 | 35 | 1295 | 65 | 38 | 8.77 | 17.46 | 55.32 | 27.50 |
| | | 3 | (untitled) | A | 885 | 2263 | 35 | 1358 | 65 | 38 | 6.96 | 4.62 | 14.74 | 26.49 |
| | Ff | 1 | (untitled) | | 488 | 1900 | 60 | 1900 | 26 | 250 | 0.33 | 0.04 | 0.09 | 33.41 |
| | | 2 | (untitled) | | 443 | 1900 | 60 | 1900 | 23 | 286 | 0.29 | 0.04 | 0.07 | 33.34 |
| | G | 1 | (untitled) | F | 283 | 2050 | 15 | 283 | 100 | -10 | 393.10 | 35.00 | 128.87 | 409.16 |
| | | 2 | (untitled) | F | 284 | 2050 | 15 | 284 | 100 | -10 | 378.40 | 33.45 | 126.04 | 389.85 |
| | Gf | 1 | (untitled) | | 292 | 2050 | 60 | 1074 | 27 | 231 | 18.17 | 3.74 | 55.34 | 21.09 |
| | | 2 | (untitled) | | 292 | 2050 | 60 | 772 | 38 | 138 | 24.67 | 4.29 | 64.10 | 27.55 |
| | xA | 1 | (untitled) | | 742 | 2263 | 60 | 1916 | 39 | 132 | 1.27 | 2.44 | 6.11 | 18.50 |
| | | 2 | (untitled) | | 882 | 2263 | 60 | 2263 | 39 | 131 | 0.51 | 0.12 | 0.31 | 17.76 |
| | xB | 1 | (untitled) | | 1722 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 5.79 |
| | xC | 1 | (untitled) | | 650 | 1900 | 60 | 650 | 100 | -10 | 129.84 | 30.01 | 149.25 | 138.51 |
| | | 2 | (untitled) | | 650 | 1900 | 60 | 650 | 100 | -10 | 129.79 | 30.01 | 148.77 | 138.49 |
| | xD | 1 | (untitled) | | 1062 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 9.13 |
| | | 2 | (untitled) | | 825 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 9.21 |
| | xE | 1 | (untitled) | | 645 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 13.04 |
| | | 2 | (untitled) | | 672 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 13.04 |
| | xF | 1 | (untitled) | | 799 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 12.19 |
| | Cc1 | 1 | (untitled) | E | 732 | 2050 | 30 | 1059 | 69 | 30 | 11.56 | 11.03 | 66.23 | 18.09 |
| | E1 | 1 | (untitled) | G | 292 | 2050 | 25 | 888 | 33 | 174 | 12.24 | 3.01 | 21.61 | 18.24 |
| | | 2 | (untitled) | G | 505 | 2200 | 25 | 953 | 53 | 70 | 14.64 | 5.71 | 41.04 | 20.64 |
| | Gf1 | 1 | (untitled) | | 46 | 667 | 60 | 667 | 7 | 1205 | 0.20 | 0.00 | 0.03 | 3.79 |
| | Cc2 | 2 | (untitled) | D | 964 | 2150 | 29 | 1033 | 93 | -4 | 41.02 | 17.64 | 112.06 | 51.73 |
| | | 3 | (untitled) | D | 770 | 2050 | 29 | 1025 | 75 | 20 | 17.53 | 13.06 | 84.11 | 26.91 |
| | | 4 | (untitled) | D | 1026 | 2150 | 29 | 1075 | 95 | -6 | 42.00 | 21.95 | 139.27 | 51.99 |
| | | 5 | (untitled) | D | 98 | 2050 | 29 | 1025 | 10 | 841 | 3.85 | 0.35 | 2.25 | 12.58 |
| | | 6 | (untitled) | D | 397 | 2050 | 29 | 1025 | 39 | 132 | 1.11 | 0.12 | 0.80 | 9.02 |
| | E2 | 3 | (untitled) | H | 292 | 2150 | 25 | 922 | 32 | 184 | 12.15 | 3.00 | 32.35 | 16.15 |
| | | 4 | (untitled) | H | 292 | 2050 | 25 | 878 | 33 | 170 | 12.28 | 3.01 | 31.82 | 16.35 |
| | TC5 | 2 | (untitled) | A | 551 | 2263 | 38 | 1509 | 37 | 146 | 4.98 | 3.00 | 74.99 | 7.74 |
| | | 3 | (untitled) | A | 882 | 2263 | 38 | 1509 | 58 | 54 | 1.74 | 0.46 | 11.52 | 4.50 |
| | | 4 | (untitled) | C | 0 | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | (untitled) | B | 1081 | 1925 | 42 | 1444 | 75 | 20 | 7.96 | 9.95 | 62.41 | 18.96 |
| | | 2 | (untitled) | B | 559 | 1966 | 42 | 1475 | 38 | 137 | 3.37 | 3.11 | 19.40 | 14.42 |
| | | 3 | (untitled) | B | 718 | 1947 | 42 | 1460 | 49 | 83 | 4.16 | 4.04 | 25.03 | 15.29 |
| | TC35 | 1 | (untitled) | A | 191 | 1900 | 38 | 1267 | 15 | 497 | 2.26 | 1.46 | 34.81 | 5.16 |
| | TC36 | 1 | (untitled) | | 553 | 1800 | 60 | 1800 | 31 | 193 | 0.44 | 0.07 | 1.55 | 3.47 |
| | TC37 | 1 | (untitled) | J | 107 | 1850 | 45 | 1418 | 8 | 1093 | 1.85 | 0.42 | 5.44 | 5.04 |
| | TC38 | 1 | (untitled) | | 107 | 416 | 60 | 416 | 26 | 250 | 2.76 | 2.46 | 66.35 | 4.29 |
| | TC39 | 2 | (untitled) | | 551 | 2263 | 60 | 2263 | 24 | 270 | 0.26 | 0.04 | 0.64 | 2.79 |
| | | 3 | (untitled) | | 882 | 2263 | 60 | 2263 | 39 | 131 | 0.51 | 0.12 | 2.15 | 2.90 |
| | TC40 | 2 | (untitled) | | 658 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 4.23 |
| | | 3 | (untitled) | | 882 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 4.02 |
| | TC41 | 1 | (untitled) | D | 197 | 1850 | 8 | 278 | 71 | 27 | 39.55 | 3.74 | 39.38 | 43.48 |
| | | 2 | (untitled) | D | 249 | 1850 | 8 | 278 | 90 | 0 | 69.41 | 6.73 | 70.31 | 73.38 |
| | TC42 | 1 | (untitled) | E | 0 | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC43 | 1 | (untitled) | | 0 | 1800 | 60 | 1800 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 0.00 |
| | 47 | 1 | (untitled) | | 1300 | 1300 | 60 | 1300 | 100 | -10 | 48.58 | 17.54 | 75.48 | 64.61 |
| | 48 | 1 | (untitled) | | 1008 | 1965 | 60 | 1965 | 51 | 75 | 0.96 | 0.27 | 2.81 | 7.58 |
| | 49 | 1 | (untitled) | | 1081 | 1900 | 60 | 1900 | 57 | 58 | 1.25 | 0.37 | 8.21 | 4.40 |
| | | 2 | (untitled) | | 1277 | 1900 | 60 | 1900 | 67 | 34 | 1.93 | 0.69 | 15.03 | 5.08 |
| | 50 | 1 | (untitled) | | 1327 | 1900 | 60 | 1900 | 70 | 29 | 2.18 | 0.80 | 9.61 | 7.96 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **51** | **1** | (untitled) | | 931 | 1900 | 60 | 1900 | 49 | 84 | 0.91 | 0.24 | 3.61 | 5.41 |

# Data Entry - Stage Start and End

## Resultant Stage

| Controller Stream | Resultant Stage | Is base stage | Library Stage ID | Phases in this stage | Stage start (s) | Stage end (s) | Stage duration (s) | User stage minimum (s) | Stage minimum (s) |
|---|---|---|---|---|---|---|---|---|---|
| **769-1** | **1** | ✓ | 1 | A,C | 56 | 27 | 31 | 1 | 7 |
| | **2** | ✓ | 2 | B | 38 | 51 | 13 | 1 | 7 |
| **769-2** | **1** | ✓ | 4 | D,E,H,I | 43 | 5 | 22 | 1 | 1 |
| | **2** | ✓ | 5 | F,G,J,K | 19 | 28 | 9 | 1 | 9 |
| **770-1** | **1** | ✓ | 1 | A,C | 23 | 52 | 29 | 1 | 7 |
| | **2** | ✓ | 2 | B | 1 | 18 | 17 | 1 | 7 |
| **770-2** | **1** | ✓ | 4 | D | 42 | 23 | 41 | 1 | 7 |
| | **2** | ✓ | 5 | E | 28 | 35 | 7 | 1 | 5 |
| **770-3** | **1** | ✓ | 7 | F,I,J | 54 | 13 | 19 | 1 | 2 |
| | **2** | ✓ | 9 | G,H | 24 | 42 | 18 | 1 | 1 |
| **770-4** | **1** | ✓ | 11 | L | 44 | 24 | 40 | 1 | 7 |
| | **2** | ✓ | 12 | M | 29 | 37 | 8 | 1 | 6 |
| **771-1** | **1** | ✓ | 1 | A,C | 16 | 45 | 29 | 1 | 9 |
| | **2** | ✓ | 3 | B | 56 | 11 | 15 | 1 | 7 |
| **771-2** | **1** | ✓ | 5 | D | 6 | 28 | 22 | 1 | 7 |
| | **2** | ✓ | 6 | E | 33 | 1 | 28 | 1 | 7 |
| **TC777-1** | **1** | ✓ | 1 | A,B,F | 24 | 2 | 38 | 1 | 7 |
| | **2** | ✓ | 5 | D,H,I | 10 | 18 | 8 | 1 | 7 |
| **TC777-2** | **1** | ✓ | 1 | J | 55 | 40 | 45 | 1 | 7 |
| | **2** | ✓ | 2 | K | 45 | 50 | 5 | 1 | 5 |

# Data Entry - Phase

## Phase

| Controller Stream | Phase | Phase | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type |
|---|---|---|---|---|---|---|---|
| 769-1 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 7 | 300 | 0 | 0 | Traffic |
| | C | C | 7 | 300 | 0 | 0 | Pedestrian |
| 769-2 | D | D | 7 | 300 | 0 | 0 | Traffic |
| | E | E | 7 | 300 | 0 | 0 | Traffic |
| | F | F | 4 | 300 | 0 | 0 | Traffic |
| | G | G | 4 | 300 | 0 | 0 | Traffic |
| | H | H | 5 | 300 | 0 | 0 | Pedestrian |
| | I | I | 7 | 300 | 0 | 0 | Pedestrian |
| | J | J | 12 | 300 | 0 | 0 | Pedestrian |
| | K | K | 5 | 300 | 0 | 0 | Pedestrian |
| 770-1 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 7 | 300 | 0 | 0 | Traffic |
| | C | C | 7 | 300 | 0 | 0 | Pedestrian |
| 770-2 | D | D | 7 | 300 | 0 | 0 | Traffic |
| | E | E | 5 | 300 | 0 | 0 | Pedestrian |
| 770-3 | F | F | 7 | 300 | 0 | 0 | Traffic |
| | G | G | 4 | 300 | 0 | 0 | Traffic |
| | H | H | 4 | 300 | 0 | 0 | Traffic |
| | I | I | 5 | 300 | 0 | 0 | Pedestrian |
| | J | J | 5 | 300 | 0 | 0 | Pedestrian |
| | K | K | 10 | 300 | 0 | 0 | Pedestrian |
| 770-4 | L | L | 7 | 300 | 0 | 0 | Traffic |
| | M | M | 6 | 300 | 0 | 0 | Pedestrian |
| 771-1 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 7 | 300 | 0 | 0 | Traffic |
| | C | C | 9 | 300 | 0 | 0 | Pedestrian |
| 771-2 | D | D | 7 | 300 | 0 | 0 | Traffic |
| | E | E | 7 | 300 | 0 | 0 | Traffic |
| TC777-1 | A | A | 7 | 300 | 0 | 1 | Traffic |
| | B | B | 7 | 300 | 0 | 2 | Traffic |
| | C | C | 7 | 300 | 0 | 0 | Traffic |
| | D | D | 7 | 300 | 0 | 0 | Traffic |
| | E | E | 7 | 300 | 0 | 0 | Traffic |
| | F | F | 5 | 300 | 0 | 0 | Pedestrian |
| | G | G | 7 | 300 | 0 | 0 | Pedestrian |
| | H | H | 6 | 300 | 0 | 0 | Pedestrian |
| | I | I | 5 | 300 | 0 | 0 | Pedestrian |
| TC777-2 | J | J | 7 | 300 | 0 | 0 | Traffic |
| | K | K | 5 | 300 | 0 | 0 | Pedestrian |

# Data Entry - Traffic Stream

## Traffic Stream

| Arm | Traffic Stream | Auto length | Length (m) | Traffic model | Max queue storage (PCU) | Traffic type | Has Saturation Flow | Is signal controlled | Is give way | Saturation flow source | Saturation flow (PCU/hr) | Delay weighting multiplier (%) | Stop weighting multiplier (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | ✓ | 74.52 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 76.88 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 3 | ✓ | 78.61 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | ✓ | 80.35 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| Ac | 1 | ✓ | 95.80 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 2 | ✓ | 92.34 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 3 | ✓ | 87.95 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| Acf | 1 | ✓ | 69.59 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | 2 | ✓ | 70.42 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| Af | 1 | ✓ | 53.54 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 52.96 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | 3 | ✓ | 52.75 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| B | 1 | ✓ | 94.67 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 97.18 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | 3 | ✓ | 99.69 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 4 | ✓ | 102.42 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| Bc | 1 | ✓ | 133.56 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 132.12 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 3 | ✓ | 130.69 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| Bcf | 1 | ✓ | 62.67 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | 2 | ✓ | 63.14 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | 3 | ✓ | 62.35 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | 4 | ✓ | 62.25 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| Bf | 1 | ✓ | 227.81 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1800 | 100 | 100 |
| | 2 | ✓ | 228.44 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1800 | 100 | 100 |
| C | 1 | ✓ | 121.13 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 2 | ✓ | 122.36 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2200 | 100 | 100 |
| | 3 | ✓ | 124.35 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| Cf | 1 | ✓ | 144.60 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1965 | 100 | 100 |
| | 2 | ✓ | 145.86 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1965 | 100 | 100 |
| D | 1 | | 55.00 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | | 55.00 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1850 | 100 | 100 |
| | 3 | ✓ | 52.87 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2250 | 100 | 100 |
| | 4 | ✓ | 55.42 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2250 | 100 | 100 |
| Dc | 1 | ✓ | 50.27 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 2 | ✓ | 48.34 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 3 | ✓ | 46.42 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | ✓ | 44.49 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| Dcf | 1 | ✓ | 65.95 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 65.92 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 3 | ✓ | 66.55 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 4 | ✓ | 66.73 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 5 | ✓ | 66.90 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 6 | ✓ | 67.13 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| Df | 1 | | 200.00 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| | 2 | | 200.00 | NetworkDefault | 0.00 | Normal | ✓ | | | Directly entered | 2250 | 100 | 100 |
| Dxp | 1 | ✓ | 46.62 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 48.64 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| Ec | 1 | ✓ | 50.09 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | 2 | ✓ | 48.43 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 3 | ✓ | 46.77 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 4 | ✓ | 45.11 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2250 | 100 | 100 |
| Ecf | 1 | ✓ | 45.94 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 2 | ✓ | 46.37 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2100 | 100 | 100 |
| | 3 | ✓ | 46.93 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | 4 | ✓ | 47.50 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2300 | 100 | 100 |
| | 5 | ✓ | 48.55 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2300 | 100 | 100 |
| Ef | 1 | ✓ | 127.54 | NetworkDefault | 0.00 | Normal | ✓ | | | Directly entered | 1900 | 100 | 100 |
| | 2 | ✓ | 127.54 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| Exp | 1 | ✓ | 51.83 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 53.71 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| F | 1 | ✓ | 85.13 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 2 | ✓ | 85.72 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 3 | ✓ | 87.25 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| Fc | 1 | ✓ | 183.21 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 2 | ✓ | 181.45 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | 3 | ✓ | 180.28 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| Ff | 1 | ✓ | 275.73 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| | 2 | ✓ | 275.39 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| G | 1 | ✓ | 156.15 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 152.60 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Gf** | **1** | ✓ | 38.89 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | **2** | ✓ | 38.45 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| **xA** | **1** | ✓ | 229.66 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | **2** | ✓ | 230.01 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| **xB** | **1** | ✓ | 77.15 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| **xC** | **1** | ✓ | 115.60 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| | **2** | ✓ | 115.98 | CTM | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| **xD** | **1** | ✓ | 121.71 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| | **2** | ✓ | 122.74 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| **xE** | **1** | ✓ | 173.89 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| | **2** | ✓ | 173.83 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| **xF** | **1** | ✓ | 162.53 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| **Cc1** | **1** | ✓ | 95.76 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| **E1** | **1** | | 80.00 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | **2** | | 80.00 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2200 | 100 | 100 |
| **Gf1** | **1** | ✓ | 47.81 | NetworkDefault | 0.00 | Normal | | | ✓ | | | 100 | 100 |
| **Cc2** | **2** | ✓ | 90.51 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | **3** | ✓ | 89.30 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | **4** | ✓ | 90.64 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | **5** | ✓ | 88.32 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | **6** | ✓ | 87.88 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| **E2** | **3** | ✓ | 53.28 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | **4** | ✓ | 54.33 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| **TC5** | **2** | ✓ | 23.03 | CTM | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 2263 | 100 | 100 |
| | **3** | ✓ | 23.02 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2263 | 100 | 100 |
| | **4** | ✓ | 24.43 | CTM | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1800 | 100 | 100 |
| **TC9** | **1** | ✓ | 91.71 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1925 | 100 | 100 |
| | **2** | ✓ | 92.11 | CTM | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1966 | 100 | 100 |
| | **3** | ✓ | 92.69 | CTM | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1947 | 100 | 100 |
| **TC35** | **1** | ✓ | 24.16 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1900 | 100 | 100 |
| **TC36** | **1** | ✓ | 25.22 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1800 | 100 | 100 |
| **TC37** | **1** | ✓ | 44.32 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1850 | 100 | 100 |
| **TC38** | **1** | ✓ | 21.32 | CTM | 0.00 | Normal | ✓ | | ✓ | Directly entered | 1850 | 100 | 100 |
| **TC39** | **2** | ✓ | 35.24 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| | **3** | ✓ | 33.28 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| **TC40** | **2** | ✓ | 58.74 | PDM | 0.00 | Normal | | | | | | 100 | 100 |
| | **3** | ✓ | 55.82 | PDM | 0.00 | Normal | | | | | | 100 | 100 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TC41** | **1** | ✓ | 54.63 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1850 | 100 | 100 |
| | **2** | ✓ | 55.07 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 1850 | 100 | 100 |
| **TC42** | **1** | ✓ | 23.35 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1771 | 100 | 100 |
| **TC43** | **1** | ✓ | 52.01 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1800 | 100 | 100 |
| **47** | **1** | ✓ | 133.63 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 1300 | 100 | 100 |
| **48** | **1** | ✓ | 55.12 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1965 | 100 | 100 |
| **49** | **1** | ✓ | 26.24 | NetworkDefault | 0.00 | Normal | ✓ | | | Directly entered | 1900 | 100 | 100 |
| | **2** | ✓ | 26.24 | NetworkDefault | 0.00 | Normal | ✓ | | | Directly entered | 1900 | 100 | 100 |
| **50** | **1** | ✓ | 48.15 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |
| **51** | **1** | ✓ | 37.47 | NetworkDefault | 0.00 | Normal | ✓ | | | Sum of lanes | 1900 | 100 | 100 |

# Data entry - Link

# Results - Pedestrian

### Pedestrian Crossings: Pedestrian summary

| Time Segment | Pedestrian crossing | Side | Calculated Flow Entering (Ped/hr) | Degree of saturation (%) | Actual green (s (per cycle)) | Mean Delay Per Ped (s) | Mean max queue (Ped) |
|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 1 | 1 | 0 | 0 | 7 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 7 | 0.00 | 0.00 |
| | 2 | 1 | 0 | 0 | 29 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 29 | 0.00 | 0.00 |
| | 3 | 1 | 0 | 0 | 8 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 8 | 0.00 | 0.00 |
| | 4 | 1 | 0 | 0 | 23 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 23 | 0.00 | 0.00 |
| | 5 | 1 | 0 | 0 | 23 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 23 | 0.00 | 0.00 |
| | 6 | 1 | 0 | 0 | 0 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 0 | 0.00 | 0.00 |
| | 7 | 1 | 0 | 0 | 29 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 29 | 0.00 | 0.00 |
| | 8 | 1 | 0 | 0 | 31 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 31 | 0.00 | 0.00 |
| | 9 | 1 | 0 | 0 | 12 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 12 | 0.00 | 0.00 |
| | 10 | 1 | 0 | 0 | 17 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 17 | 0.00 | 0.00 |
| | 11 | 1 | 0 | 0 | 28 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 28 | 0.00 | 0.00 |
| | 12 | 1 | 0 | 0 | 28 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 28 | 0.00 | 0.00 |
| | 13 | 1 | 0 | 0 | 11 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11 | 0.00 | 0.00 |
| | 14 | 1 | 0 | 0 | 39 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 39 | 0.00 | 0.00 |
| | 15 | 1 | 0 | 0 | 0 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 0 | 0.00 | 0.00 |
| | 16 | 1 | 0 | 0 | 9 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 9 | 0.00 | 0.00 |
| | 17 | 1 | 0 | 0 | 5 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 5 | 0.00 | 0.00 |

# Traffic Stream Results

### Traffic Stream Results: Vehicle summary

| Time Segment | Arm | Traffic Stream | Degree of saturation (%) | Practical reserve capacity (%) | Calculated flow entering (PCU/hr) | Calculated sat flow (PCU/hr) | Actual green (s (per cycle)) | Mean Delay per Veh (s) | Mean max queue (PCU) | Utilised storage (%) | Weighted cost of delay (£ per hr) | Weighted cost of stops (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | 1 | 90 | 0 | 892 | 2050 | 28 | 26.86 | 14.17 | 109.31 | 94.52 | 25.23 | 119.74 |
| | | 2 | 39 | 131 | 386 | 2050 | 28 | 8.68 | 2.61 | 19.51 | 13.22 | 5.11 | 18.33 |
| | | 3 | 60 | 49 | 597 | 2050 | 28 | 11.89 | 7.87 | 57.58 | 28.00 | 11.39 | 39.39 |
| | | 4 | 94 | -4 | 929 | 2050 | 28 | 36.10 | 18.55 | 132.74 | 132.30 | 33.59 | 165.89 |
| | Ac | 1 | 96 | -6 | 830 | 2263 | 22 | 60.45 | 21.45 | 128.71 | 197.90 | 39.08 | 236.98 |
| | | 2 | 34 | 167 | 264 | 2263 | 22 | 1.89 | 2.02 | 12.59 | 1.97 | 0.81 | 2.78 |
| | | 3 | 61 | 48 | 529 | 2263 | 22 | 5.98 | 2.79 | 18.26 | 12.47 | 3.66 | 16.13 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Acf | 1 | 48 | 86 | 1094 | 2263 | 60 | 0.74 | 0.23 | 1.87 | 3.21 | 0.00 | 3.21 |
| | | 2 | 23 | 285 | 529 | 2263 | 60 | 0.24 | 0.04 | 0.29 | 0.51 | 0.00 | 0.51 |
| | Af | 1 | 64 | 41 | 1278 | 2050 | 60 | 1.70 | 2.29 | 24.57 | 8.58 | 0.90 | 9.48 |
| | | 2 | 29 | 209 | 597 | 2050 | 60 | 0.36 | 0.06 | 0.65 | 0.85 | 0.00 | 0.85 |
| | | 3 | 46 | 98 | 929 | 2050 | 60 | 0.74 | 1.64 | 17.87 | 2.70 | 0.15 | 2.86 |
| | B | 1 | 21 | 331 | 100 | 2050 | 13 | 30.30 | 2.35 | 14.25 | 11.94 | 3.26 | 15.20 |
| | | 2 | 100 | -10 | 332 | 2150 | 13 | 242.19 | 24.87 | 147.17 | 317.58 | 33.53 | 351.11 |
| | | 3 | 93 | -3 | 454 | 2100 | 13 | 58.12 | 10.86 | 62.63 | 104.09 | 19.74 | 123.83 |
| | | 4 | 83 | 8 | 397 | 2050 | 13 | 39.08 | 7.87 | 44.16 | 61.20 | 5.77 | 66.98 |
| | Bc | 1 | 60 | 50 | 737 | 2050 | 35 | 9.33 | 7.44 | 32.04 | 27.11 | 12.40 | 39.51 |
| | | 2 | 72 | 25 | 860 | 2050 | 35 | 12.53 | 10.57 | 46.00 | 42.49 | 19.14 | 61.63 |
| | | 3 | 93 | -3 | 1108 | 2050 | 35 | 27.82 | 24.18 | 106.37 | 121.60 | 36.84 | 158.44 |
| | Bcf | 1 | 76 | 18 | 1722 | 2263 | 60 | 2.51 | 1.20 | 11.03 | 17.07 | 0.00 | 17.07 |
| | | 2 | 33 | 176 | 737 | 2263 | 60 | 0.38 | 0.08 | 0.72 | 1.12 | 0.00 | 1.12 |
| | | 3 | 38 | 137 | 860 | 2263 | 60 | 0.49 | 0.12 | 1.07 | 1.65 | 0.00 | 1.65 |
| | | 4 | 50 | 80 | 1108 | 2263 | 60 | 0.82 | 5.71 | 52.78 | 3.57 | 0.43 | 4.01 |
| | Bf | 1 | 110 | -18 | 476 | 1800 | 60 | 399.94 | 64.55 | 162.92 | 750.92 | 31.15 | 782.07 |
| | | 2 | 47 | 90 | 851 | 1800 | 60 | 0.90 | 0.21 | 0.53 | 3.01 | 0.00 | 3.01 |
| | C | 1 | 79 | 14 | 443 | 2100 | 15 | 32.24 | 7.86 | 37.32 | 56.33 | 5.86 | 62.19 |
| | | 2 | 51 | 75 | 295 | 2200 | 15 | 22.06 | 4.20 | 19.75 | 25.67 | 3.16 | 28.83 |
| | | 3 | 49 | 82 | 270 | 2050 | 15 | 21.84 | 3.84 | 17.75 | 23.26 | 2.89 | 26.15 |
| | Cf | 1 | 23 | 299 | 443 | 1965 | 60 | 0.27 | 0.03 | 0.13 | 0.47 | 0.00 | 0.47 |
| | | 2 | 29 | 213 | 565 | 1965 | 60 | 0.37 | 0.06 | 0.23 | 0.82 | 0.00 | 0.82 |
| | D | 1 | 64 | 41 | 393 | 2050 | 17 | 23.31 | 5.65 | 59.04 | 36.14 | 10.75 | 46.89 |
| | | 2 | 35 | 157 | 194 | 1850 | 17 | 18.17 | 2.50 | 26.11 | 13.90 | 4.67 | 18.57 |
| | | 3 | 45 | 99 | 306 | 2250 | 17 | 19.23 | 3.93 | 42.71 | 23.21 | 7.56 | 30.77 |
| | | 4 | 60 | 50 | 406 | 2250 | 17 | 21.94 | 5.67 | 58.84 | 35.13 | 10.86 | 45.99 |
| | Dc | 1 | 46 | 94 | 552 | 2100 | 33 | 5.11 | 2.52 | 28.82 | 11.13 | 4.45 | 15.58 |
| | | 2 | 90 | 0 | 1065 | 2100 | 33 | 22.73 | 10.67 | 126.90 | 95.47 | 20.34 | 115.81 |
| | | 3 | 20 | 346 | 240 | 2100 | 33 | 5.46 | 2.34 | 29.04 | 5.17 | 2.03 | 7.19 |
| | | 4 | 44 | 104 | 525 | 2100 | 33 | 14.32 | 5.20 | 67.18 | 29.66 | 9.79 | 39.45 |
| | Dcf | 1 | 52 | 75 | 1056 | 2050 | 60 | 0.93 | 0.27 | 2.39 | 3.88 | 0.00 | 3.88 |
| | | 2 | 39 | 129 | 825 | 2100 | 60 | 0.55 | 0.13 | 1.11 | 1.80 | 0.00 | 1.80 |
| | | 3 | 26 | 242 | 552 | 2100 | 60 | 0.31 | 0.05 | 0.41 | 0.67 | 0.00 | 0.67 |
| | | 4 | 89 | 1 | 1065 | 2100 | 60 | 18.60 | 11.88 | 102.40 | 78.13 | 12.12 | 90.25 |
| | | 5 | 11 | 688 | 240 | 2100 | 60 | 0.11 | 0.01 | 0.06 | 0.10 | 0.00 | 0.10 |
| | | 6 | 25 | 260 | 525 | 2100 | 60 | 0.29 | 0.04 | 0.36 | 0.59 | 0.00 | 0.59 |
| | Df | 1 | 31 | 191 | 587 | 1900 | 60 | 0.42 | 0.07 | 0.20 | 0.98 | 0.00 | 0.98 |
| | | 2 | 32 | 184 | 712 | 2250 | 60 | 0.37 | 0.07 | 0.21 | 1.04 | 0.00 | 1.04 |
| | Dxp | 1 | 74 | 22 | 1062 | 2050 | 41 | 4.43 | 2.60 | 32.10 | 18.56 | 4.82 | 23.38 |
| | | 2 | 57 | 57 | 825 | 2050 | 41 | 1.76 | 0.47 | 5.60 | 5.73 | 0.90 | 6.62 |
| | Ec | 1 | 77 | 16 | 693 | 2150 | 24 | 13.85 | 6.78 | 77.83 | 37.85 | 12.36 | 50.21 |
| | | 2 | 46 | 96 | 434 | 2263 | 24 | 13.22 | 3.97 | 47.09 | 22.63 | 7.64 | 30.27 |
| | | 3 | 86 | 5 | 811 | 2263 | 24 | 23.88 | 9.26 | 113.88 | 76.39 | 17.62 | 94.01 |
| | | 4 | 41 | 122 | 380 | 2250 | 24 | 5.67 | 2.46 | 31.31 | 8.49 | 2.23 | 10.72 |
| | Ecf | 1 | 38 | 137 | 645 | 2100 | 60 | 1.63 | 2.44 | 30.48 | 4.15 | 2.24 | 6.39 |
| | | 2 | 70 | 29 | 1365 | 2100 | 60 | 2.65 | 5.56 | 68.95 | 14.27 | 5.87 | 20.15 |
| | | 3 | 19 | 369 | 434 | 2263 | 60 | 0.19 | 0.02 | 0.28 | 0.32 | 0.00 | 0.32 |
| | | 4 | 40 | 127 | 811 | 2300 | 60 | 1.16 | 2.73 | 33.04 | 3.70 | 4.53 | 8.23 |
| | | 5 | 19 | 386 | 426 | 2300 | 60 | 0.18 | 0.02 | 0.25 | 0.30 | 0.00 | 0.30 |
| | Ef | 1 | 42 | 115 | 797 | 1900 | 60 | 0.68 | 0.15 | 0.68 | 2.15 | 0.00 | 2.15 |
| 16:30-17:30 | | 2 | 31 | 193 | 584 | 1900 | 60 | 0.42 | 0.07 | 0.31 | 0.97 | 0.00 | 0.97 |
| | Exp | 1 | 46 | 95 | 645 | 2050 | 40 | 10.22 | 7.02 | 77.90 | 26.02 | 13.44 | 39.46 |
| | | 2 | 48 | 88 | 672 | 2050 | 40 | 11.00 | 9.08 | 97.19 | 29.16 | 16.76 | 45.91 |
| | F | 1 | 39 | 130 | 219 | 2100 | 15 | 20.08 | 2.93 | 19.76 | 17.34 | 5.62 | 22.97 |
| | | 2 | 48 | 87 | 269 | 2100 | 15 | 21.47 | 3.66 | 24.54 | 22.79 | 7.04 | 29.83 |
| | | 3 | 79 | 14 | 443 | 2100 | 15 | 32.18 | 7.41 | 48.82 | 56.22 | 14.13 | 70.35 |
| | | 1 | 43 | 108 | 588 | 2263 | 35 | 4.46 | 5.36 | 16.83 | 10.33 | 5.03 | 15.36 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fc | 2 | 65 | 38 | 843 | 2263 | 35 | 8.77 | 17.46 | 55.32 | 29.17 | 12.79 | 41.96 |
| | | 3 | 65 | 38 | 885 | 2263 | 35 | 6.96 | 4.62 | 14.74 | 24.28 | 4.29 | 28.57 |
| | Ff | 1 | 26 | 250 | 488 | 1900 | 60 | 0.33 | 0.04 | 0.09 | 0.63 | 0.00 | 0.63 |
| | | 2 | 23 | 286 | 443 | 1900 | 60 | 0.29 | 0.04 | 0.07 | 0.50 | 0.00 | 0.50 |
| | G | 1 | 100 | -10 | 283 | 2050 | 15 | 393.10 | 35.00 | 128.87 | 439.26 | 20.78 | 460.04 |
| | | 2 | 100 | -10 | 284 | 2050 | 15 | 378.40 | 33.45 | 126.04 | 424.33 | 32.11 | 456.44 |
| | Gf | 1 | 27 | 231 | 292 | 2050 | 60 | 18.17 | 3.74 | 55.34 | 20.93 | 6.87 | 27.80 |
| | | 2 | 38 | 138 | 292 | 2050 | 60 | 24.67 | 4.29 | 64.10 | 28.41 | 7.72 | 36.13 |
| | xA | 1 | 39 | 132 | 742 | 2263 | 60 | 1.27 | 2.44 | 6.11 | 3.72 | 2.33 | 6.05 |
| | | 2 | 39 | 131 | 882 | 2263 | 60 | 0.51 | 0.12 | 0.31 | 1.77 | 0.00 | 1.77 |
| | xB | 1 | 0 | Unrestricted | 1722 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xC | 1 | 100 | -10 | 650 | 1900 | 60 | 129.84 | 30.01 | 149.25 | 332.89 | 25.41 | 358.30 |
| | | 2 | 100 | -10 | 650 | 1900 | 60 | 129.79 | 30.01 | 148.77 | 332.76 | 25.41 | 358.17 |
| | xD | 1 | 0 | Unrestricted | 1062 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | Unrestricted | 825 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xE | 1 | 0 | Unrestricted | 645 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | Unrestricted | 672 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xF | 1 | 0 | Unrestricted | 799 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Cc1 | 1 | 69 | 30 | 732 | 2050 | 30 | 11.56 | 11.03 | 66.23 | 33.40 | 17.50 | 50.90 |
| | E1 | 1 | 33 | 174 | 292 | 2050 | 25 | 12.24 | 3.01 | 21.61 | 14.09 | 5.77 | 19.86 |
| | | 2 | 53 | 70 | 505 | 2200 | 25 | 14.64 | 5.71 | 41.04 | 29.16 | 10.92 | 40.08 |
| | Gf1 | 1 | 7 | 1205 | 46 | 667 | 60 | 0.20 | 0.00 | 0.03 | 0.04 | 0.00 | 0.04 |
| | Cc2 | 2 | 93 | -4 | 964 | 2150 | 29 | 41.02 | 17.64 | 112.06 | 156.06 | 13.70 | 169.76 |
| | | 3 | 75 | 20 | 770 | 2050 | 29 | 17.53 | 13.06 | 84.11 | 53.25 | 11.07 | 64.33 |
| | | 4 | 95 | -6 | 1026 | 2150 | 29 | 42.00 | 21.95 | 139.27 | 170.03 | 19.90 | 189.93 |
| | | 5 | 10 | 841 | 98 | 2050 | 29 | 3.85 | 0.35 | 2.25 | 1.49 | 0.40 | 1.89 |
| | | 6 | 39 | 132 | 397 | 2050 | 29 | 1.11 | 0.12 | 0.80 | 1.74 | 0.00 | 1.74 |
| | E2 | 3 | 32 | 184 | 292 | 2150 | 25 | 12.15 | 3.00 | 32.35 | 14.00 | 5.75 | 19.75 |
| | | 4 | 33 | 170 | 292 | 2050 | 25 | 12.28 | 3.01 | 31.82 | 14.14 | 5.77 | 19.91 |
| | TC5 | 2 | 37 | 146 | 551 | 2263 | 38 | 4.98 | 3.00 | 74.99 | 10.82 | 2.26 | 13.08 |
| | | 3 | 58 | 54 | 882 | 2263 | 38 | 1.74 | 0.46 | 11.52 | 6.05 | 0.34 | 6.39 |
| | | 4 | 0 | -100 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | 75 | 20 | 1081 | 1925 | 42 | 7.96 | 9.95 | 62.41 | 33.92 | 6.81 | 40.73 |
| | | 2 | 38 | 137 | 559 | 1966 | 42 | 3.37 | 3.11 | 19.40 | 7.42 | 2.14 | 9.56 |
| | | 3 | 49 | 83 | 718 | 1947 | 42 | 4.16 | 4.04 | 25.03 | 11.79 | 3.03 | 14.82 |
| | TC35 | 1 | 15 | 497 | 191 | 1900 | 38 | 2.26 | 1.46 | 34.81 | 1.70 | 0.55 | 2.26 |
| | TC36 | 1 | 31 | 193 | 553 | 1800 | 60 | 0.44 | 0.07 | 1.55 | 0.97 | 0.00 | 0.97 |
| | TC37 | 1 | 8 | 1093 | 107 | 1850 | 45 | 1.85 | 0.42 | 5.44 | 0.78 | 0.88 | 1.66 |
| | TC38 | 1 | 26 | 250 | 107 | 416 | 60 | 2.76 | 2.46 | 66.35 | 1.16 | 1.26 | 2.42 |
| | TC39 | 2 | 24 | 270 | 551 | 2263 | 60 | 0.26 | 0.04 | 0.64 | 0.56 | 0.00 | 0.56 |
| | | 3 | 39 | 131 | 882 | 2263 | 60 | 0.51 | 0.12 | 2.15 | 1.77 | 0.00 | 1.77 |
| | TC40 | 2 | 0 | Unrestricted | 658 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 3 | 0 | Unrestricted | 882 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC41 | 1 | 71 | 27 | 197 | 1850 | 8 | 39.55 | 3.74 | 39.38 | 30.73 | 7.70 | 38.43 |
| | | 2 | 90 | 0 | 249 | 1850 | 8 | 69.41 | 6.73 | 70.31 | 68.17 | 13.02 | 81.19 |
| | TC42 | 1 | 0 | -100 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC43 | 1 | 0 | Unrestricted | 0 | 1800 | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 47 | 1 | 100 | -10 | 1300 | 1300 | 60 | 48.58 | 17.54 | 75.48 | 249.09 | 0.00 | 249.09 |
| | 48 | 1 | 51 | 75 | 1008 | 1965 | 60 | 0.96 | 0.27 | 2.81 | 3.83 | 0.00 | 3.83 |
| | 49 | 1 | 57 | 58 | 1081 | 1900 | 60 | 1.25 | 0.37 | 8.21 | 5.32 | 0.00 | 5.32 |
| | | 2 | 67 | 34 | 1277 | 1900 | 60 | 1.93 | 0.69 | 15.03 | 9.74 | 0.00 | 9.74 |
| | 50 | 1 | 70 | 29 | 1327 | 1900 | 60 | 2.18 | 0.80 | 9.61 | 11.42 | 0.00 | 11.42 |
| | 51 | 1 | 49 | 84 | 931 | 1900 | 60 | 0.91 | 0.24 | 3.61 | 3.34 | 0.00 | 3.34 |

## Traffic Stream Results: Flows and signals

| Time Segment | Arm | Traffic Stream | Calculated flow entering (PCU/hr) | Calculated flow out (PCU/hr) | Flow discrepancy (PCU/hr) | Adjusted flow warning | Calculated sat flow (PCU/hr) | Calculated capacity (PCU/hr) | Degree of saturation (%) | DOS Threshold exceeded | Practical reserve capacity (%) | Mean modulus of error | Actual green (s (per cycle)) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 892 | 892 | 0 | | 2050 | 991 | 90 | ✓ | 0 | 0.41 | 28 |
| | 2 | 386 | 386 | -2 | | 2050 | 991 | 39 | | 131 | 0.37 | 28 |
| | 3 | 597 | 597 | 0 | | 2050 | 991 | 60 | | 49 | 0.46 | 28 |
| | 4 | 929 | 929 | -1 | | 2050 | 991 | 94 | ✓ | -4 | 0.50 | 28 |
| Ac | 1 | 830 | 830 | -1 | | 2263 | 867 | 96 | ✓ | -6 | 1.10 | 22 |
| | 2 | 264 | 264 | 0 | | 2263 | 784 | 34 | | 167 | 1.47 | 22 |
| | 3 | 529 | 529 | 0 | | 2263 | 867 | 61 | | 48 | 1.16 | 22 |
| Acf | 1 | 1094 | 1094 | -1 | | 2263 | 2263 | 48 | | 86 | 0.83 | 60 |
| | 2 | 529 | 529 | 0 | | 2263 | 2263 | 23 | | 285 | 1.16 | 60 |
| Af | 1 | 1278 | 1278 | -2 | | 2050 | 2002 | 64 | | 41 | 0.41 | 60 |
| | 2 | 597 | 597 | 0 | | 2050 | 2050 | 29 | | 209 | 0.46 | 60 |
| | 3 | 929 | 929 | -1 | | 2050 | 2041 | 46 | | 98 | 0.50 | 60 |
| B | 1 | 100 | 100 | 9 | ✓ | 2050 | 478 | 21 | | 331 | 1.06 | 13 |
| | 2 | 332 | 332 | 34 | ✓ | 2150 | 332 | 100 | ✓ | -10 | 1.06 | 13 |
| | 3 | 454 | 454 | 0 | | 2100 | 490 | 93 | ✓ | -3 | 0.00 | 13 |
| | 4 | 397 | 397 | -1 | | 2050 | 478 | 83 | | 8 | 0.00 | 13 |
| Bc | 1 | 737 | 737 | -2 | | 2050 | 1230 | 60 | | 50 | 0.81 | 35 |
| | 2 | 860 | 860 | 0 | | 2050 | 1195 | 72 | | 25 | 0.70 | 35 |
| | 3 | 1108 | 1108 | -1 | | 2050 | 1192 | 93 | ✓ | -3 | 0.74 | 35 |
| Bcf | 1 | 1722 | 1722 | -1 | | 2263 | 2263 | 76 | | 18 | 0.38 | 60 |
| | 2 | 737 | 737 | -2 | | 2263 | 2263 | 33 | | 176 | 0.81 | 60 |
| | 3 | 860 | 860 | 0 | | 2263 | 2263 | 38 | | 137 | 0.70 | 60 |
| | 4 | 1108 | 1108 | -1 | | 2263 | 2221 | 50 | | 80 | 0.74 | 60 |
| Bf | 1 | 476 | 432 | -1 | ✓ | 1800 | 432 | 110 | ✓ | -18 | 0.00 | 60 |
| | 2 | 851 | 851 | -1 | | 1800 | 1800 | 47 | | 90 | 0.00 | 60 |
| C | 1 | 443 | 443 | 0 | | 2100 | 560 | 79 | | 14 | 0.00 | 15 |
| | 2 | 295 | 295 | 0 | | 2200 | 575 | 51 | | 75 | 0.00 | 15 |
| | 3 | 270 | 270 | -1 | | 2050 | 547 | 49 | | 82 | 0.00 | 15 |
| Cf | 1 | 443 | 443 | 0 | | 1965 | 1965 | 23 | | 299 | 0.00 | 60 |
| | 2 | 565 | 565 | -1 | | 1965 | 1965 | 29 | | 213 | 0.00 | 60 |
| D | 1 | 393 | 393 | 0 | | 2050 | 615 | 64 | | 41 | 0.00 | 17 |
| | 2 | 194 | 194 | 0 | | 1850 | 555 | 35 | | 157 | 0.00 | 17 |
| | 3 | 306 | 306 | 0 | | 2250 | 675 | 45 | | 99 | 0.00 | 17 |
| | 4 | 406 | 406 | -1 | ✓ | 2250 | 675 | 60 | | 50 | 0.00 | 17 |
| Dc | 1 | 552 | 552 | 3 | ✓ | 2100 | 1190 | 46 | | 94 | 0.86 | 33 |
| | 2 | 1065 | 1065 | -1 | | 2100 | 1185 | 90 | | 0 | 0.75 | 33 |
| | 3 | 240 | 240 | -1 | | 2100 | 1190 | 20 | | 346 | 1.04 | 33 |
| | 4 | 525 | 525 | -2 | | 2100 | 1190 | 44 | | 104 | 1.25 | 33 |
| Dcf | 1 | 1056 | 1056 | 6 | ✓ | 2050 | 2050 | 52 | | 75 | 0.88 | 60 |
| | 2 | 825 | 825 | 30 | ✓ | 2100 | 2100 | 39 | | 129 | 0.99 | 60 |
| | 3 | 552 | 552 | 3 | ✓ | 2100 | 2100 | 26 | | 242 | 0.86 | 60 |
| | 4 | 1065 | 1065 | -1 | | 2100 | 1197 | 89 | | 1 | 0.84 | 60 |
| | 5 | 240 | 240 | -1 | | 2100 | 2100 | 11 | | 688 | 1.04 | 60 |
| | 6 | 525 | 525 | -2 | | 2100 | 2100 | 25 | | 260 | 1.25 | 60 |
| Df | 1 | 587 | 587 | 0 | | 1900 | 1900 | 31 | | 191 | 0.00 | 60 |
| | 2 | 712 | 712 | -1 | ✓ | 2250 | 2250 | 32 | | 184 | 0.00 | 60 |
| Dxp | 1 | 1062 | 1062 | 0 | | 2050 | 1435 | 74 | | 22 | 0.78 | 41 |
| | 2 | 825 | 825 | 30 | ✓ | 2050 | 1435 | 57 | | 57 | 0.96 | 41 |
| Ec | 1 | 693 | 693 | 0 | | 2150 | 896 | 77 | | 16 | 0.76 | 24 |
| | 2 | 434 | 434 | -1 | | 2263 | 943 | 46 | | 96 | 1.13 | 24 |
| | 3 | 811 | 811 | -1 | | 2263 | 943 | 86 | | 5 | 0.95 | 24 |
| | 4 | 380 | 380 | -1 | | 2250 | 938 | 41 | | 122 | 1.31 | 24 |
| Ecf | 1 | 645 | 645 | 3 | ✓ | 2100 | 1697 | 38 | | 137 | 0.92 | 60 |
| | 2 | 1365 | 1365 | -1 | | 2100 | 1961 | 70 | | 29 | 0.57 | 60 |
| | 3 | 434 | 434 | -1 | | 2263 | 2263 | 19 | | 369 | 1.13 | 60 |
| | 4 | 811 | 811 | -1 | | 2300 | 2046 | 40 | | 127 | 1.09 | 60 |
| | 5 | 426 | 426 | -2 | ✓ | 2300 | 2300 | 19 | | 386 | 1.32 | 60 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | Ef | 1 | 797 | 797 | 0 | | 1900 | 1900 | 42 | | 115 | 0.00 | 60 |
| | | 2 | 584 | 584 | 0 | | 1900 | 1900 | 31 | | 193 | 0.00 | 60 |
| | Exp | 1 | 645 | 645 | 3 | ✓ | 2050 | 1401 | 46 | | 95 | 0.79 | 40 |
| | | 2 | 672 | 672 | -1 | | 2050 | 1401 | 48 | | 88 | 0.91 | 40 |
| | F | 1 | 219 | 219 | 0 | | 2100 | 560 | 39 | | 130 | 0.00 | 15 |
| | | 2 | 269 | 269 | 0 | | 2100 | 560 | 48 | | 87 | 0.00 | 15 |
| | | 3 | 443 | 443 | 0 | | 2100 | 560 | 79 | | 14 | 0.00 | 15 |
| | Fc | 1 | 588 | 588 | -1 | | 2263 | 1358 | 43 | | 108 | 1.11 | 35 |
| | | 2 | 843 | 843 | -1 | | 2263 | 1295 | 65 | | 38 | 1.18 | 35 |
| | | 3 | 885 | 885 | -1 | | 2263 | 1358 | 65 | | 38 | 0.94 | 35 |
| | Ff | 1 | 488 | 488 | 0 | | 1900 | 1900 | 26 | | 250 | 0.00 | 60 |
| | | 2 | 443 | 443 | 0 | | 1900 | 1900 | 23 | | 286 | 0.00 | 60 |
| | G | 1 | 283 | 283 | 31 | ✓ | 2050 | 283 | 100 | ✓ | -10 | 1.07 | 15 |
| | | 2 | 284 | 284 | 30 | ✓ | 2050 | 284 | 100 | ✓ | -10 | 0.80 | 15 |
| | Gf | 1 | 292 | 260 | 0 | | 2050 | 1074 | 27 | | 231 | 1.13 | 60 |
| | | 2 | 292 | 261 | 0 | | 2050 | 772 | 38 | | 138 | 1.13 | 60 |
| | xA | 1 | 742 | 742 | -1 | | 2263 | 1916 | 39 | | 132 | 1.01 | 60 |
| | | 2 | 882 | 882 | -1 | | 2263 | 2263 | 39 | | 131 | 1.19 | 60 |
| | xB | 1 | 1722 | 1722 | -1 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.30 | 60 |
| | xC | 1 | 650 | 650 | 32 | ✓ | 1900 | 650 | 100 | ✓ | -10 | 0.70 | 60 |
| | | 2 | 650 | 650 | 31 | ✓ | 1900 | 650 | 100 | ✓ | -10 | 0.70 | 60 |
| | xD | 1 | 1062 | 1062 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.69 | 60 |
| | | 2 | 825 | 825 | 30 | ✓ | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.87 | 60 |
| | xE | 1 | 645 | 645 | 3 | ✓ | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.89 | 60 |
| | | 2 | 672 | 672 | -1 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 1.08 | 60 |
| | xF | 1 | 799 | 799 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.75 | 60 |
| | Cc1 | 1 | 732 | 732 | 2 | ✓ | 2050 | 1059 | 69 | | 30 | 1.09 | 30 |
| | E1 | 1 | 292 | 292 | 0 | | 2050 | 888 | 33 | | 174 | 0.00 | 25 |
| | | 2 | 505 | 505 | 0 | | 2200 | 953 | 53 | | 70 | 0.00 | 25 |
| | Gf1 | 1 | 46 | 46 | -1 | ✓ | 667 | 667 | 7 | | 1205 | 1.37 | 60 |
| | Cc2 | 2 | 964 | 964 | 6 | ✓ | 2150 | 1033 | 93 | ✓ | -4 | 0.83 | 29 |
| | | 3 | 770 | 770 | -1 | | 2050 | 1025 | 75 | | 20 | 0.67 | 29 |
| | | 4 | 1026 | 1026 | 33 | ✓ | 2150 | 1075 | 95 | ✓ | -6 | 0.50 | 29 |
| | | 5 | 98 | 98 | 0 | | 2050 | 1025 | 10 | | 841 | 0.95 | 29 |
| | | 6 | 397 | 397 | -1 | | 2050 | 1025 | 39 | | 132 | 1.53 | 29 |
| | E2 | 3 | 292 | 292 | 0 | | 2150 | 922 | 32 | | 184 | 0.00 | 25 |
| | | 4 | 292 | 292 | 0 | | 2050 | 878 | 33 | | 170 | 0.00 | 25 |
| | TC5 | 2 | 551 | 551 | -1 | | 2263 | 1509 | 37 | | 146 | 1.06 | 38 |
| | | 3 | 882 | 882 | -1 | | 2263 | 1509 | 58 | | 54 | 1.19 | 38 |
| | | 4 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | TC9 | 1 | 1081 | 1081 | -1 | | 1925 | 1444 | 75 | | 20 | 0.00 | 42 |
| | | 2 | 559 | 559 | 0 | | 1966 | 1475 | 38 | | 137 | 0.00 | 42 |
| | | 3 | 718 | 718 | 0 | | 1947 | 1460 | 49 | | 83 | 0.00 | 42 |
| | TC35 | 1 | 191 | 191 | 0 | | 1900 | 1267 | 15 | | 497 | 1.19 | 38 |
| | TC36 | 1 | 553 | 553 | -2 | | 1800 | 1800 | 31 | | 193 | 0.00 | 60 |
| | TC37 | 1 | 107 | 107 | 0 | | 1850 | 1418 | 8 | | 1093 | 0.00 | 45 |
| | TC38 | 1 | 107 | 107 | 0 | | 416 | 416 | 26 | | 250 | 0.47 | 60 |
| | TC39 | 2 | 551 | 551 | -1 | | 2263 | 2263 | 24 | | 270 | 1.25 | 60 |
| | | 3 | 882 | 882 | -1 | | 2263 | 2263 | 39 | | 131 | 1.19 | 60 |
| | TC40 | 2 | 658 | 658 | -1 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.76 | 60 |
| | | 3 | 882 | 882 | -1 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 1.12 | 60 |
| | TC41 | 1 | 197 | 197 | -1 | | 1850 | 278 | 71 | | 27 | 0.00 | 8 |
| | | 2 | 249 | 249 | -1 | | 1850 | 278 | 90 | | 0 | 0.00 | 8 |
| | TC42 | 1 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | TC43 | 1 | 0 | 0 | 0 | | 1800 | 1800 | 0 | | Unrestricted | 0.00 | 60 |
| | 47 | 1 | 1300 | 1300 | 63 | ✓ | 1300 | 1300 | 100 | ✓ | -10 | 0.00 | 60 |
| | 48 | 1 | 1008 | 1008 | -1 | | 1965 | 1965 | 51 | | 75 | 0.00 | 60 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 49 | 1 | 1081 | 1081 | -1 | | 1900 | 1900 | 57 | | 58 | 0.00 | 60 |
| | | 2 | 1277 | 1277 | 0 | | 1900 | 1900 | 67 | | 34 | 0.00 | 60 |
| | 50 | 1 | 1327 | 1327 | -2 | ✓ | 1900 | 1900 | 70 | | 29 | 0.00 | 60 |
| | 51 | 1 | 931 | 931 | 0 | | 1900 | 1900 | 49 | | 84 | 0.00 | 60 |

## Traffic Stream Results: Stops and delays

| Time Segment | Arm | Traffic Stream | Mean Cruise Time per Veh (s) | Mean Delay per Veh (s) | Total delay (PCU-hr/hr) | Weighted cost of delay (£ per hr) | Mean stops per Veh (%) | Total stops (Stops per hr) | Weighted cost of stops (£ per hr) |
|---|---|---|---|---|---|---|---|---|---|
| | A | 1 | 5.59 | 26.86 | 6.66 | 94.52 | 88.10 | 785.89 | 25.23 |
| | | 2 | 5.77 | 8.68 | 0.93 | 13.22 | 41.22 | 159.13 | 5.11 |
| | | 3 | 5.90 | 11.89 | 1.97 | 28.00 | 59.44 | 354.86 | 11.39 |
| | | 4 | 6.03 | 36.10 | 9.32 | 132.30 | 112.64 | 1046.46 | 33.59 |
| | Ac | 1 | 7.19 | 60.45 | 13.94 | 197.90 | 146.69 | 1217.54 | 39.08 |
| | | 2 | 9.50 | 1.89 | 0.14 | 1.97 | 18.07 | 47.71 | 0.81 |
| | | 3 | 6.60 | 5.98 | 0.88 | 12.47 | 21.56 | 114.03 | 3.66 |
| | Acf | 1 | 5.22 | 0.74 | 0.23 | 3.21 | 0.00 | 0.00 | 0.00 |
| | | 2 | 7.24 | 0.24 | 0.04 | 0.51 | 0.00 | 0.00 | 0.00 |
| | Af | 1 | 6.42 | 1.70 | 0.60 | 8.58 | 5.61 | 71.64 | 0.90 |
| | | 2 | 6.36 | 0.36 | 0.06 | 0.85 | 0.00 | 0.00 | 0.00 |
| | | 3 | 6.33 | 0.74 | 0.19 | 2.70 | 1.32 | 12.25 | 0.15 |
| | B | 1 | 7.10 | 30.30 | 0.84 | 11.94 | 101.56 | 101.47 | 3.26 |
| | | 2 | 7.29 | 242.19 | 22.36 | 317.58 | 314.24 | 1044.63 | 33.53 |
| | | 3 | 7.48 | 58.12 | 7.33 | 104.09 | 135.49 | 615.11 | 19.74 |
| | | 4 | 12.29 | 39.08 | 4.31 | 61.20 | 115.98 | 460.44 | 5.77 |
| | Bc | 1 | 10.02 | 9.33 | 1.91 | 27.11 | 52.42 | 386.33 | 12.40 |
| | | 2 | 9.91 | 12.53 | 2.99 | 42.49 | 69.34 | 596.35 | 19.14 |
| | | 3 | 9.80 | 27.82 | 8.56 | 121.60 | 103.58 | 1147.71 | 36.84 |
| | Bcf | 1 | 4.34 | 2.51 | 1.20 | 17.07 | 0.00 | 0.00 | 0.00 |
| | | 2 | 5.40 | 0.38 | 0.08 | 1.12 | 0.00 | 0.00 | 0.00 |
| | | 3 | 5.79 | 0.49 | 0.12 | 1.65 | 0.00 | 0.00 | 0.00 |
| | | 4 | 6.16 | 0.82 | 0.25 | 3.57 | 1.88 | 20.85 | 0.43 |
| | Bf | 1 | 27.34 | 399.94 | 52.88 | 750.92 | 574.57 | 2484.16 | 31.15 |
| | | 2 | 27.41 | 0.90 | 0.21 | 3.01 | 0.00 | 0.00 | 0.00 |
| | C | 1 | 14.54 | 32.24 | 3.97 | 56.33 | 105.53 | 467.52 | 5.86 |
| | | 2 | 14.68 | 22.06 | 1.81 | 25.67 | 85.39 | 251.91 | 3.16 |
| | | 3 | 14.92 | 21.84 | 1.64 | 23.26 | 85.26 | 230.19 | 2.89 |
| | Cf | 1 | 17.35 | 0.27 | 0.03 | 0.47 | 0.00 | 0.00 | 0.00 |
| | | 2 | 17.50 | 0.37 | 0.06 | 0.82 | 0.00 | 0.00 | 0.00 |
| | D | 1 | 4.13 | 23.31 | 2.55 | 36.14 | 85.18 | 334.76 | 10.75 |
| | | 2 | 4.13 | 18.17 | 0.98 | 13.90 | 74.96 | 145.42 | 4.67 |
| | | 3 | 3.97 | 19.23 | 1.63 | 23.21 | 76.97 | 235.53 | 7.56 |
| | | 4 | 4.16 | 21.94 | 2.47 | 35.13 | 83.36 | 338.43 | 10.86 |
| | Dc | 1 | 3.77 | 5.11 | 0.78 | 11.13 | 25.11 | 138.67 | 4.45 |
| | | 2 | 3.63 | 22.73 | 6.72 | 95.47 | 59.50 | 633.69 | 20.34 |
| | | 3 | 3.48 | 5.46 | 0.36 | 5.17 | 26.29 | 63.09 | 2.03 |
| | | 4 | 3.34 | 14.32 | 2.09 | 29.66 | 58.08 | 304.92 | 9.79 |
| | Dcf | 1 | 4.95 | 0.93 | 0.27 | 3.88 | 0.00 | 0.00 | 0.00 |
| | | 2 | 4.94 | 0.55 | 0.13 | 1.80 | 0.00 | 0.00 | 0.00 |
| | | 3 | 6.10 | 0.31 | 0.05 | 0.67 | 0.00 | 0.00 | 0.00 |
| | | 4 | 7.18 | 18.60 | 5.50 | 78.13 | 63.37 | 674.92 | 12.12 |
| | | 5 | 5.02 | 0.11 | 0.01 | 0.10 | 0.00 | 0.00 | 0.00 |
| | | 6 | 5.04 | 0.29 | 0.04 | 0.59 | 0.00 | 0.00 | 0.00 |
| | Df | 1 | 24.00 | 0.42 | 0.07 | 0.98 | 0.00 | 0.00 | 0.00 |
| | | 2 | 24.00 | 0.37 | 0.07 | 1.04 | 0.00 | 0.00 | 0.00 |
| | Dxp | 1 | 3.50 | 4.43 | 1.31 | 18.56 | 14.14 | 150.21 | 4.82 |
| | | 2 | 3.65 | 1.76 | 0.40 | 5.73 | 3.38 | 27.90 | 0.90 |
| | | 1 | 3.76 | 13.85 | 2.67 | 37.85 | 55.55 | 384.98 | 12.36 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | Ec | 2 | 3.63 | 13.22 | 1.59 | 22.63 | 54.81 | 237.89 | 7.64 |
| | | 3 | 3.51 | 23.88 | 5.38 | 76.39 | 67.70 | 549.02 | 17.62 |
| | | 4 | 3.38 | 5.67 | 0.60 | 8.49 | 18.30 | 69.54 | 2.23 |
| | Ecf | 1 | 3.45 | 1.63 | 0.29 | 4.15 | 10.81 | 69.77 | 2.24 |
| | | 2 | 3.48 | 2.65 | 1.01 | 14.27 | 13.41 | 182.99 | 5.87 |
| | | 3 | 3.52 | 0.19 | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 |
| | | 4 | 3.56 | 1.16 | 0.26 | 3.70 | 17.40 | 141.10 | 4.53 |
| | | 5 | 3.64 | 0.18 | 0.02 | 0.30 | 0.00 | 0.00 | 0.00 |
| | Ef | 1 | 15.31 | 0.68 | 0.15 | 2.15 | 0.00 | 0.00 | 0.00 |
| | | 2 | 15.31 | 0.42 | 0.07 | 0.97 | 0.00 | 0.00 | 0.00 |
| | Exp | 1 | 3.89 | 10.22 | 1.83 | 26.02 | 64.89 | 418.77 | 13.44 |
| | | 2 | 4.03 | 11.00 | 2.05 | 29.16 | 77.68 | 522.00 | 16.76 |
| | F | 1 | 6.38 | 20.08 | 1.22 | 17.34 | 79.99 | 175.18 | 5.62 |
| | | 2 | 6.43 | 21.47 | 1.60 | 22.79 | 81.53 | 219.32 | 7.04 |
| | | 3 | 6.54 | 32.18 | 3.96 | 56.22 | 99.35 | 440.14 | 14.13 |
| | Fc | 1 | 19.31 | 4.46 | 0.73 | 10.33 | 52.38 | 307.98 | 5.03 |
| | | 2 | 18.73 | 8.77 | 2.05 | 29.17 | 89.46 | 754.11 | 12.79 |
| | | 3 | 19.54 | 6.96 | 1.71 | 24.28 | 31.31 | 277.13 | 4.29 |
| | Ff | 1 | 33.09 | 0.33 | 0.04 | 0.63 | 0.00 | 0.00 | 0.00 |
| | | 2 | 33.05 | 0.29 | 0.04 | 0.50 | 0.00 | 0.00 | 0.00 |
| | G | 1 | 16.06 | 393.10 | 30.93 | 439.26 | 445.76 | 1217.88 | 20.78 |
| | | 2 | 11.45 | 378.40 | 29.88 | 424.33 | 351.89 | 1000.36 | 32.11 |
| | Gf | 1 | 2.92 | 18.17 | 1.47 | 20.93 | 82.21 | 214.00 | 6.87 |
| | | 2 | 2.88 | 24.67 | 2.00 | 28.41 | 91.99 | 240.37 | 7.72 |
| | xA | 1 | 17.22 | 1.27 | 0.26 | 3.72 | 9.76 | 72.45 | 2.33 |
| | | 2 | 17.25 | 0.51 | 0.12 | 1.77 | 0.00 | 0.00 | 0.00 |
| | xB | 1 | 5.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xC | 1 | 8.67 | 129.84 | 23.44 | 332.89 | 122.01 | 791.47 | 25.41 |
| | | 2 | 8.70 | 129.79 | 23.43 | 332.76 | 121.77 | 791.49 | 25.41 |
| | xD | 1 | 9.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 9.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xE | 1 | 13.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 13.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xF | 1 | 12.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Cc1 | 1 | 6.52 | 11.56 | 2.35 | 33.40 | 60.49 | 443.06 | 17.50 |
| | E1 | 1 | 6.00 | 12.24 | 0.99 | 14.09 | 61.51 | 179.61 | 5.77 |
| | | 2 | 6.00 | 14.64 | 2.05 | 29.16 | 67.37 | 340.19 | 10.92 |
| | Gf1 | 1 | 3.59 | 0.20 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 |
| | Cc2 | 2 | 10.71 | 41.02 | 10.99 | 156.06 | 108.55 | 1046.96 | 13.70 |
| | | 3 | 9.38 | 17.53 | 3.75 | 53.25 | 82.59 | 635.95 | 11.07 |
| | | 4 | 10.00 | 42.00 | 11.97 | 170.03 | 123.52 | 1267.85 | 19.90 |
| | | 5 | 8.73 | 3.85 | 0.10 | 1.49 | 21.20 | 20.78 | 0.40 |
| | | 6 | 7.91 | 1.11 | 0.12 | 1.74 | 0.00 | 0.00 | 0.00 |
| | E2 | 3 | 4.00 | 12.15 | 0.99 | 14.00 | 61.40 | 179.28 | 5.75 |
| | | 4 | 4.07 | 12.28 | 1.00 | 14.14 | 61.59 | 179.85 | 5.77 |
| | TC5 | 2 | 2.76 | 4.98 | 0.76 | 10.82 | 32.70 | 180.19 | 2.26 |
| | | 3 | 2.76 | 1.74 | 0.43 | 6.05 | 3.12 | 27.49 | 0.34 |
| | | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | 11.00 | 7.96 | 2.39 | 33.92 | 50.25 | 543.19 | 6.81 |
| | | 2 | 11.05 | 3.37 | 0.52 | 7.42 | 30.56 | 170.84 | 2.14 |
| | | 3 | 11.12 | 4.16 | 0.83 | 11.79 | 33.64 | 241.53 | 3.03 |
| | TC35 | 1 | 2.90 | 2.26 | 0.12 | 1.70 | 23.10 | 44.13 | 0.55 |
| | TC36 | 1 | 3.03 | 0.44 | 0.07 | 0.97 | 0.00 | 0.00 | 0.00 |
| | TC37 | 1 | 3.19 | 1.85 | 0.06 | 0.78 | 23.51 | 25.15 | 0.88 |
| | TC38 | 1 | 1.53 | 2.76 | 0.08 | 1.16 | 33.68 | 36.04 | 1.26 |
| | TC39 | 2 | 2.54 | 0.26 | 0.04 | 0.56 | 0.00 | 0.00 | 0.00 |
| | | 3 | 2.40 | 0.51 | 0.12 | 1.77 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | TC40 | 2 | 4.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 3 | 4.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC41 | 1 | 3.93 | 39.55 | 2.16 | 30.73 | 112.15 | 220.94 | 7.70 |
| | | 2 | 3.97 | 69.41 | 4.80 | 68.17 | 150.14 | 373.84 | 13.02 |
| | TC42 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC43 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 47 | 1 | 16.04 | 48.58 | 17.54 | 249.09 | 0.00 | 0.00 | 0.00 |
| | 48 | 1 | 6.61 | 0.96 | 0.27 | 3.83 | 0.00 | 0.00 | 0.00 |
| | 49 | 1 | 3.15 | 1.25 | 0.37 | 5.32 | 0.00 | 0.00 | 0.00 |
| | | 2 | 3.15 | 1.93 | 0.69 | 9.74 | 0.00 | 0.00 | 0.00 |
| | 50 | 1 | 5.78 | 2.18 | 0.80 | 11.42 | 0.00 | 0.00 | 0.00 |
| | 51 | 1 | 4.50 | 0.91 | 0.24 | 3.34 | 0.00 | 0.00 | 0.00 |

## Traffic Stream Results: Queues and blocking

| Time Segment | Arm | Traffic Stream | Initial queue (PCU) | Mean max queue (PCU) | Max queue storage (PCU) | Utilised storage (%) | Excess queue penalty (£ per hr) | Wasted time total (s (per cycle)) | Estimated blocking |
|---|---|---|---|---|---|---|---|---|---|
| | A | 1 | 0.00 | 14.17 | 12.96 | 109.31 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 2.61 | 13.37 | 19.51 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 7.87 | 13.67 | 57.58 | 0.00 | 0.00 | |
| | | 4 | 0.00 | 18.55 | 13.97 | 132.74 | 0.00 | 0.00 | |
| | Ac | 1 | 0.00 | 21.45 | 16.66 | 128.71 | 0.00 | 1.00 | |
| | | 2 | 0.00 | 2.02 | 16.06 | 12.59 | 0.00 | 9.21 | |
| | | 3 | 0.00 | 2.79 | 15.30 | 18.26 | 0.00 | 4.00 | |
| | Acf | 1 | 0.00 | 0.23 | 12.10 | 1.87 | 0.00 | 16.00 | |
| | | 2 | 0.00 | 0.04 | 12.25 | 0.29 | 0.00 | 30.00 | |
| | Af | 1 | 0.00 | 2.29 | 9.31 | 24.57 | 0.00 | 7.41 | |
| | | 2 | 0.00 | 0.06 | 9.21 | 0.65 | 0.00 | 7.00 | |
| | | 3 | 0.00 | 1.64 | 9.17 | 17.87 | 0.00 | 6.26 | |
| | B | 1 | 0.00 | 2.35 | 16.46 | 14.25 | 0.00 | 11.00 | |
| | | 2 | 0.00 | 24.87 | 16.90 | 147.17 | 0.00 | 4.72 | |
| | | 3 | 0.00 | 10.86 | 17.34 | 62.63 | 0.00 | 0.00 | |
| | | 4 | 0.00 | 7.87 | 17.81 | 44.16 | 0.00 | 0.00 | |
| | Bc | 1 | 0.00 | 7.44 | 23.23 | 32.04 | 0.00 | 7.00 | |
| | | 2 | 0.00 | 10.57 | 22.98 | 46.00 | 0.00 | 4.02 | |
| | | 3 | 0.00 | 24.18 | 22.73 | 106.37 | 0.00 | 1.11 | |
| | Bcf | 1 | 0.00 | 1.20 | 10.90 | 11.03 | 0.00 | 9.00 | |
| | | 2 | 0.00 | 0.08 | 10.98 | 0.72 | 0.00 | 14.00 | |
| | | 3 | 0.00 | 0.12 | 10.84 | 1.07 | 0.00 | 12.00 | |
| | | 4 | 0.00 | 5.71 | 10.83 | 52.78 | 0.00 | 13.10 | |
| | Bf | 1 | 0.00 | 64.55 | 39.62 | 162.92 | 0.00 | 45.59 | |
| | | 2 | 0.00 | 0.21 | 39.73 | 0.53 | 0.00 | 0.00 | |
| | C | 1 | 0.00 | 7.86 | 21.07 | 37.32 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 4.20 | 21.28 | 19.75 | 0.00 | 0.32 | |
| | | 3 | 0.00 | 3.84 | 21.63 | 17.75 | 0.00 | 0.00 | |
| | Cf | 1 | 0.00 | 0.03 | 25.15 | 0.13 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.06 | 25.37 | 0.23 | 0.00 | 0.00 | |
| | D | 1 | 0.00 | 5.65 | 9.57 | 59.04 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 2.50 | 9.57 | 26.11 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 3.93 | 9.20 | 42.71 | 0.00 | 0.00 | |
| | | 4 | 0.00 | 5.67 | 9.64 | 58.84 | 0.00 | 0.00 | |
| | Dc | 1 | 0.00 | 2.52 | 8.74 | 28.82 | 0.00 | 8.00 | |
| | | 2 | 0.00 | 10.67 | 8.41 | 126.90 | 0.00 | 3.15 | |
| | | 3 | 0.00 | 2.34 | 8.07 | 29.04 | 0.00 | 12.00 | |
| | | 4 | 0.00 | 5.20 | 7.74 | 67.18 | 0.00 | 10.00 | |
| | Dcf | 1 | 0.00 | 0.27 | 11.47 | 2.39 | 0.00 | 15.00 | |
| | | 2 | 0.00 | 0.13 | 11.46 | 1.11 | 0.00 | 30.00 | |
| | | 3 | 0.00 | 0.05 | 11.57 | 0.41 | 0.00 | 14.00 | |
| | | 4 | 0.00 | 11.88 | 11.61 | 102.40 | 0.00 | 28.80 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | | 5 | 0.00 | 0.01 | 11.64 | 0.06 | 0.00 | 23.00 | |
| | | 6 | 0.00 | 0.04 | 11.68 | 0.36 | 0.00 | 30.00 | |
| | Df | 1 | 0.00 | 0.07 | 34.78 | 0.20 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.07 | 34.78 | 0.21 | 0.00 | 0.00 | |
| | Dxp | 1 | 0.00 | 2.60 | 8.11 | 32.10 | 0.00 | 5.00 | |
| | | 2 | 0.00 | 0.47 | 8.46 | 5.60 | 0.00 | 7.00 | |
| | Ec | 1 | 0.00 | 6.78 | 8.71 | 77.83 | 0.00 | 2.00 | |
| | | 2 | 0.00 | 3.97 | 8.42 | 47.09 | 0.00 | 4.00 | |
| | | 3 | 0.00 | 9.26 | 8.13 | 113.88 | 0.00 | 0.00 | |
| | | 4 | 0.00 | 2.46 | 7.85 | 31.31 | 0.00 | 12.00 | |
| | Ecf | 1 | 0.00 | 2.44 | 7.99 | 30.48 | 0.00 | 20.50 | |
| | | 2 | 0.00 | 5.56 | 8.06 | 68.95 | 0.00 | 10.97 | |
| | | 3 | 0.00 | 0.02 | 8.16 | 0.28 | 0.00 | 20.00 | |
| | | 4 | 0.00 | 2.73 | 8.26 | 33.04 | 0.00 | 20.63 | |
| | | 5 | 0.00 | 0.02 | 8.44 | 0.25 | 0.00 | 38.00 | |
| | Ef | 1 | 0.00 | 0.15 | 22.18 | 0.68 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.07 | 22.18 | 0.31 | 0.00 | 0.00 | |
| | Exp | 1 | 0.00 | 7.02 | 9.01 | 77.90 | 0.00 | 4.00 | |
| | | 2 | 0.00 | 9.08 | 9.34 | 97.19 | 0.00 | 20.00 | |
| | F | 1 | 0.00 | 2.93 | 14.80 | 19.76 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 3.66 | 14.91 | 24.54 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 7.41 | 15.17 | 48.82 | 0.00 | 0.00 | |
| | Fc | 1 | 0.00 | 5.36 | 31.86 | 16.83 | 0.00 | 7.00 | |
| | | 2 | 0.00 | 17.46 | 31.56 | 55.32 | 0.00 | 7.67 | |
| | | 3 | 0.00 | 4.62 | 31.35 | 14.74 | 0.00 | 9.00 | |
| | Ff | 1 | 0.00 | 0.04 | 47.95 | 0.09 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.04 | 47.89 | 0.07 | 0.00 | 0.00 | |
| | G | 1 | 0.00 | 35.00 | 27.16 | 128.87 | 0.00 | 7.71 | |
| | | 2 | 0.00 | 33.45 | 26.54 | 126.04 | 0.00 | 7.68 | |
| | Gf | 1 | 0.00 | 3.74 | 6.76 | 55.34 | 0.00 | 51.57 | |
| | | 2 | 0.00 | 4.29 | 6.69 | 64.10 | 0.00 | 51.40 | |
| | xA | 1 | 0.00 | 2.44 | 39.94 | 6.11 | 0.00 | 24.19 | |
| | | 2 | 0.00 | 0.12 | 40.00 | 0.31 | 0.00 | 36.00 | |
| | xB | 1 | 0.00 | 0.00 | 13.42 | 0.00 | 0.00 | 0.00 | |
| | xC | 1 | 0.00 | 30.01 | 20.10 | 149.25 | 0.00 | 39.47 | |
| | | 2 | 0.00 | 30.01 | 20.17 | 148.77 | 0.00 | 39.47 | |
| | xD | 1 | 0.00 | 0.00 | 21.17 | 0.00 | 0.00 | 11.00 | |
| | | 2 | 0.00 | 0.00 | 21.35 | 0.00 | 0.00 | 18.00 | |
| | xE | 1 | 0.00 | 0.00 | 30.24 | 0.00 | 0.00 | 16.00 | |
| | | 2 | 0.00 | 0.00 | 30.23 | 0.00 | 0.00 | 26.00 | |
| | xF | 1 | 0.00 | 0.00 | 28.27 | 0.00 | 0.00 | 1.00 | |
| | Cc1 | 1 | 0.00 | 11.03 | 16.65 | 66.23 | 0.00 | 8.00 | |
| | E1 | 1 | 0.00 | 3.01 | 13.91 | 21.61 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 5.71 | 13.91 | 41.04 | 0.00 | 0.00 | |
| | Gf1 | 1 | 0.00 | 0.00 | 8.32 | 0.03 | 0.00 | 47.00 | |
| | Cc2 | 2 | 0.00 | 17.64 | 15.74 | 112.06 | 0.00 | 2.16 | |
| | | 3 | 0.00 | 13.06 | 15.53 | 84.11 | 0.00 | 1.00 | |
| | | 4 | 0.00 | 21.95 | 15.76 | 139.27 | 0.00 | 0.00 | |
| | | 5 | 0.00 | 0.35 | 15.36 | 2.25 | 0.00 | 9.00 | |
| | | 6 | 0.00 | 0.12 | 15.28 | 0.80 | 0.00 | 16.00 | |
| | E2 | 3 | 0.00 | 3.00 | 9.27 | 32.35 | 0.00 | 0.26 | |
| | | 4 | 0.00 | 3.01 | 9.45 | 31.82 | 0.00 | 0.31 | |
| | TC5 | 2 | 0.00 | 3.00 | 4.01 | 74.99 | 0.00 | 12.00 | |
| | | 3 | 0.00 | 0.46 | 4.00 | 11.52 | 0.00 | 15.00 | |
| | | 4 | 0.00 | 0.00 | 4.25 | 0.00 | 0.00 | 0.00 | |
| | TC9 | 1 | 0.00 | 9.95 | 15.95 | 62.41 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 3.11 | 16.02 | 19.40 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 4.04 | 16.12 | 25.03 | 0.00 | 0.00 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | TC35 | 1 | 0.00 | 1.46 | 4.20 | 34.81 | 0.00 | 19.00 | |
| | TC36 | 1 | 0.00 | 0.07 | 4.39 | 1.55 | 0.00 | 0.00 | |
| | TC37 | 1 | 0.00 | 0.42 | 7.71 | 5.44 | 0.00 | 0.00 | |
| | TC38 | 1 | 0.00 | 2.46 | 3.71 | 66.35 | 0.00 | 9.00 | |
| | TC39 | 2 | 0.00 | 0.04 | 6.13 | 0.64 | 0.00 | 32.00 | |
| | | 3 | 0.00 | 0.12 | 5.79 | 2.15 | 0.00 | 35.00 | |
| | TC40 | 2 | 0.00 | 0.00 | 10.22 | 0.00 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 0.00 | 9.71 | 0.00 | 0.00 | 29.00 | |
| | TC41 | 1 | 0.00 | 3.74 | 9.50 | 39.38 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 6.73 | 9.58 | 70.31 | 0.00 | 0.00 | |
| | TC42 | 1 | 0.00 | 0.00 | 4.06 | 0.00 | 0.00 | 0.00 | |
| | TC43 | 1 | 0.00 | 0.00 | 9.04 | 0.00 | 0.00 | 60.00 | |
| | 47 | 1 | 0.00 | 17.54 | 23.24 | 75.48 | 0.00 | 0.00 | |
| | 48 | 1 | 0.00 | 0.27 | 9.59 | 2.81 | 0.00 | 0.00 | |
| | 49 | 1 | 0.00 | 0.37 | 4.56 | 8.21 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.69 | 4.56 | 15.03 | 0.00 | 0.00 | |
| | 50 | 1 | 0.00 | 0.80 | 8.37 | 9.61 | 0.00 | 0.00 | |
| | 51 | 1 | 0.00 | 0.24 | 6.52 | 3.61 | 0.00 | 0.00 | |

## Traffic Stream Results: Advanced

| Time Segment | Arm | Traffic Stream | Degree of saturation penalty (£ per hr) | Ped gap accepting penalty (£ per hr) | Warmed up | Mean Max Queue EoTS (PCU) | Max End of Green Queue EoTS (PCU) | Max End of Red Queue EoTS (PCU) | PCU Factor | Cost of traffic penalties (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | 1 | 0.00 | 0.00 | ✓ | 14.33 | 3.88 | 10.50 | 1.00 | 0.00 | 119.74 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.61 | 0.12 | 2.42 | 1.00 | 0.00 | 18.33 |
| | | 3 | 0.00 | 0.00 | ✓ | 7.87 | 0.46 | 3.83 | 1.00 | 0.00 | 39.39 |
| | | 4 | 0.00 | 0.00 | ✓ | 19.07 | 6.31 | 13.96 | 1.00 | 0.00 | 165.89 |
| | Ac | 1 | 0.00 | 0.00 | ✓ | 22.57 | 8.47 | 21.61 | 1.00 | 0.00 | 236.98 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.02 | 0.09 | 0.09 | 1.00 | 0.00 | 2.78 |
| | | 3 | 0.00 | 0.00 | ✓ | 2.79 | 0.48 | 1.91 | 1.00 | 0.00 | 16.13 |
| | Acf | 1 | 0.00 | 0.00 | ✓ | 0.23 | | | 1.00 | 0.00 | 3.21 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.51 |
| | Af | 1 | 0.00 | 0.00 | ✓ | 2.29 | | | 1.00 | 0.00 | 9.48 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.06 | | | 1.00 | 0.00 | 0.85 |
| | | 3 | 0.00 | 0.00 | ✓ | 1.64 | | | 1.00 | 0.00 | 2.86 |
| | B | 1 | 0.00 | 0.00 | ✓ | 2.35 | 0.03 | 1.69 | 1.00 | 0.00 | 15.20 |
| | | 2 | 0.00 | 0.00 | ✓ | 28.64 | 21.40 | 28.64 | 1.00 | 0.00 | 351.11 |
| | | 3 | 0.00 | 0.00 | ✓ | 11.38 | 5.02 | 11.07 | 1.00 | 0.00 | 123.83 |
| | | 4 | 0.00 | 0.00 | ✓ | 7.93 | 1.96 | 7.36 | 1.00 | 0.00 | 66.98 |
| | Bc | 1 | 0.00 | 0.00 | ✓ | 7.44 | 0.45 | 5.97 | 1.00 | 0.00 | 39.51 |
| | | 2 | 0.00 | 0.00 | ✓ | 10.57 | 0.92 | 8.80 | 1.00 | 0.00 | 61.63 |
| | | 3 | 0.00 | 0.00 | ✓ | 24.52 | 5.68 | 13.16 | 1.00 | 0.00 | 158.44 |
| | Bcf | 1 | 0.00 | 0.00 | ✓ | 1.21 | | | 1.00 | 0.00 | 17.07 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.08 | | | 1.00 | 0.00 | 1.12 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.12 | | | 1.00 | 0.00 | 1.65 |
| | | 4 | 0.00 | 0.00 | ✓ | 5.71 | | | 1.00 | 0.00 | 4.01 |
| | Bf | 1 | 0.00 | 0.00 | | 86.76 | | | 1.00 | 0.00 | 782.07 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.21 | | | 1.00 | 0.00 | 3.01 |
| | C | 1 | 0.00 | 0.00 | ✓ | 7.89 | 1.47 | 7.34 | 1.00 | 0.00 | 62.19 |
| | | 2 | 0.00 | 0.00 | ✓ | 4.20 | 0.27 | 4.04 | 1.00 | 0.00 | 28.83 |
| | | 3 | 0.00 | 0.00 | ✓ | 3.84 | 0.24 | 3.69 | 1.00 | 0.00 | 26.15 |
| | Cf | 1 | 0.00 | 0.00 | ✓ | 0.03 | | | 1.00 | 0.00 | 0.47 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.06 | | | 1.00 | 0.00 | 0.82 |
| | D | 1 | 0.00 | 0.00 | ✓ | 5.65 | 0.56 | 5.34 | 1.00 | 0.00 | 46.89 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.50 | 0.09 | 2.39 | 1.00 | 0.00 | 18.57 |
| | | 3 | 0.00 | 0.00 | ✓ | 3.93 | 0.19 | 3.84 | 1.00 | 0.00 | 30.77 |
| | | 4 | 0.00 | 0.00 | ✓ | 5.67 | 0.45 | 5.40 | 1.00 | 0.00 | 45.99 |
| | | 1 | 0.00 | 0.00 | ✓ | 2.52 | 0.20 | 2.31 | 1.00 | 0.00 | 15.58 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | Dc | 2 | 0.00 | 0.00 | ✓ | 10.80 | 3.85 | 10.80 | 1.00 | 0.00 | 115.81 |
| | | 3 | 0.00 | 0.00 | ✓ | 2.34 | 0.03 | 1.05 | 1.00 | 0.00 | 7.19 |
| | | 4 | 0.00 | 0.00 | ✓ | 5.20 | 0.17 | 4.51 | 1.00 | 0.00 | 39.45 |
| | Dcf | 1 | 0.00 | 0.00 | ✓ | 0.27 | | | 1.00 | 0.00 | 3.88 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.13 | | | 1.00 | 0.00 | 1.80 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.05 | | | 1.00 | 0.00 | 0.67 |
| | | 4 | 0.00 | 0.00 | ✓ | 11.99 | | | 1.00 | 0.00 | 90.25 |
| | | 5 | 0.00 | 0.00 | ✓ | 0.01 | | | 1.00 | 0.00 | 0.10 |
| | | 6 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.59 |
| | Df | 1 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 0.98 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 1.04 |
| | Dxp | 1 | 0.00 | 0.00 | ✓ | 2.61 | 1.05 | 2.58 | 1.00 | 0.00 | 23.38 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.47 | 0.39 | 0.47 | 1.00 | 0.00 | 6.62 |
| | Ec | 1 | 0.00 | 0.00 | ✓ | 6.79 | 1.31 | 5.47 | 1.00 | 0.00 | 50.21 |
| | | 2 | 0.00 | 0.00 | ✓ | 3.97 | 0.20 | 3.97 | 1.00 | 0.00 | 30.27 |
| | | 3 | 0.00 | 0.00 | ✓ | 9.33 | 2.58 | 9.32 | 1.00 | 0.00 | 94.01 |
| | | 4 | 0.00 | 0.00 | ✓ | 2.46 | 0.14 | 1.16 | 1.00 | 0.00 | 10.72 |
| | Ecf | 1 | 0.00 | 0.00 | ✓ | 2.44 | | | 1.00 | 0.00 | 6.39 |
| | | 2 | 0.00 | 0.00 | ✓ | 5.56 | | | 1.00 | 0.00 | 20.15 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.02 | | | 1.00 | 0.00 | 0.32 |
| | | 4 | 0.00 | 0.00 | ✓ | 2.73 | | | 1.00 | 0.00 | 8.23 |
| | | 5 | 0.00 | 0.00 | ✓ | 0.02 | | | 1.00 | 0.00 | 0.30 |
| | Ef | 1 | 0.00 | 0.00 | ✓ | 0.15 | | | 1.00 | 0.00 | 2.15 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 0.97 |
| | Exp | 1 | 0.00 | 0.00 | ✓ | 7.02 | 0.20 | 6.85 | 1.00 | 0.00 | 39.46 |
| | | 2 | 0.00 | 0.00 | ✓ | 9.08 | 0.22 | 7.88 | 1.00 | 0.00 | 45.91 |
| | F | 1 | 0.00 | 0.00 | ✓ | 2.93 | 0.13 | 2.86 | 1.00 | 0.00 | 22.97 |
| | | 2 | 0.00 | 0.00 | ✓ | 3.66 | 0.22 | 3.58 | 1.00 | 0.00 | 29.83 |
| | | 3 | 0.00 | 0.00 | ✓ | 7.43 | 1.47 | 7.13 | 1.00 | 0.00 | 70.35 |
| | Fc | 1 | 0.00 | 0.00 | ✓ | 5.36 | 0.17 | 4.60 | 1.00 | 0.00 | 15.36 |
| | | 2 | 0.00 | 0.00 | ✓ | 17.46 | 0.61 | 5.47 | 1.00 | 0.00 | 41.96 |
| | | 3 | 0.00 | 0.00 | ✓ | 4.62 | 0.61 | 4.59 | 1.00 | 0.00 | 28.57 |
| | Ff | 1 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.63 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.50 |
| | G | 1 | 0.00 | 0.00 | | 38.47 | 31.45 | 37.59 | 1.00 | 0.00 | 460.04 |
| | | 2 | 0.00 | 0.00 | | 36.93 | 30.72 | 36.60 | 1.00 | 0.00 | 456.44 |
| | Gf | 1 | 0.00 | 0.00 | | 3.74 | | | 1.00 | 0.00 | 27.80 |
| | | 2 | 0.00 | 0.00 | | 4.29 | | | 1.00 | 0.00 | 36.13 |
| | xA | 1 | 0.00 | 0.00 | ✓ | 2.44 | | | 1.00 | 0.00 | 6.05 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.12 | | | 1.00 | 0.00 | 1.77 |
| | xB | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | xC | 1 | 0.00 | 0.00 | | 35.28 | | | 1.00 | 0.00 | 358.30 |
| | | 2 | 0.00 | 0.00 | | 35.28 | | | 1.00 | 0.00 | 358.17 |
| | xD | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | xE | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | xF | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | Cc1 | 1 | 0.00 | 0.00 | ✓ | 11.03 | 0.77 | 6.24 | 1.00 | 0.00 | 50.90 |
| | E1 | 1 | 0.00 | 0.00 | ✓ | 3.01 | 0.08 | 2.92 | 1.00 | 0.00 | 19.86 |
| | | 2 | 0.00 | 0.00 | ✓ | 5.71 | 0.30 | 5.33 | 1.00 | 0.00 | 40.08 |
| | Gf1 | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.04 |
| | Cc2 | 2 | 0.00 | 0.00 | ✓ | 18.08 | 6.03 | 17.96 | 1.00 | 0.00 | 169.76 |
| | | 3 | 0.00 | 0.00 | ✓ | 13.07 | 1.13 | 6.36 | 1.00 | 0.00 | 64.33 |
| | | 4 | 0.00 | 0.00 | ✓ | 22.92 | 8.45 | 18.48 | 1.00 | 0.00 | 189.93 |
| | | 5 | 0.00 | 0.00 | ✓ | 0.35 | 0.01 | 0.35 | 1.00 | 0.00 | 1.89 |
| | | 6 | 0.00 | 0.00 | ✓ | 0.12 | 0.12 | 0.12 | 1.00 | 0.00 | 1.74 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | E2 | 3 | 0.00 | 0.00 | | 3.00 | 0.07 | 2.91 | 1.00 | 0.00 | 19.75 |
| | | 4 | 0.00 | 0.00 | | 3.01 | 0.08 | 2.92 | 1.00 | 0.00 | 19.91 |
| | TC5 | 2 | 0.00 | 0.00 | ✓ | 3.00 | 0.11 | 3.00 | 1.00 | 0.00 | 13.08 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.46 | 0.41 | 0.46 | 1.00 | 0.00 | 6.39 |
| | | 4 | 0.00 | 0.00 | ✓ | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| | TC9 | 1 | 0.00 | 0.00 | ✓ | 9.96 | 1.11 | 6.59 | 1.00 | 0.00 | 40.73 |
| | | 2 | 0.00 | 0.00 | ✓ | 3.11 | 0.12 | 2.60 | 1.00 | 0.00 | 9.56 |
| | | 3 | 0.00 | 0.00 | ✓ | 4.04 | 0.24 | 3.62 | 1.00 | 0.00 | 14.82 |
| | TC35 | 1 | 0.00 | 0.00 | ✓ | 1.46 | 0.01 | 0.74 | 1.00 | 0.00 | 2.26 |
| | TC36 | 1 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 0.97 |
| | TC37 | 1 | 0.00 | 0.00 | ✓ | 0.42 | 0.00 | 0.42 | 1.00 | 0.00 | 1.66 |
| | TC38 | 1 | 0.00 | 0.00 | ✓ | 2.46 | | | 1.00 | 0.00 | 2.42 |
| | TC39 | 2 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.56 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.12 | | | 1.00 | 0.00 | 1.77 |
| | TC40 | 2 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | TC41 | 1 | 0.00 | 0.00 | ✓ | 3.76 | 0.85 | 3.70 | 1.00 | 0.00 | 38.43 |
| | | 2 | 0.00 | 0.00 | ✓ | 7.07 | 3.41 | 7.00 | 1.00 | 0.00 | 81.19 |
| | TC42 | 1 | 0.00 | 0.00 | ✓ | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| | TC43 | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | 47 | 1 | 0.00 | 0.00 | | 25.00 | | | 1.00 | 0.00 | 249.09 |
| | 48 | 1 | 0.00 | 0.00 | ✓ | 0.27 | | | 1.00 | 0.00 | 3.83 |
| | 49 | 1 | 0.00 | 0.00 | ✓ | 0.38 | | | 1.00 | 0.00 | 5.32 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.69 | | | 1.00 | 0.00 | 9.74 |
| | 50 | 1 | 0.00 | 0.00 | ✓ | 0.81 | | | 1.00 | 0.00 | 11.42 |
| | 51 | 1 | 0.00 | 0.00 | ✓ | 0.24 | | | 1.00 | 0.00 | 3.34 |

# Pedestrian Crossing Results

## Pedestrian Crossings: Pedestrian summary

| Time Segment | Crossing | Side | Degree of saturation (%) | Calculated Flow Entering (Ped/hr) | Calculated sat flow (Ped/hr) | Actual green (s (per cycle)) | Mean Delay Per Ped (s) | Mean max queue (Ped) | Weighted cost of delay (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 1 | 1 | 0 | 0 | 11000 | 7 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 7 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 2 | 1 | 0 | 0 | 11000 | 29 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 29 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3 | 1 | 0 | 0 | 11000 | 8 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 8 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4 | 1 | 0 | 0 | 11000 | 23 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 23 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 5 | 1 | 0 | 0 | 11000 | 23 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 23 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6 | 1 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 7 | 1 | 0 | 0 | 11000 | 29 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 29 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8 | 1 | 0 | 0 | 11000 | 31 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 31 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 9 | 1 | 0 | 0 | 11000 | 12 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 12 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 10 | 1 | 0 | 0 | 11000 | 17 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 17 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 11 | 1 | 0 | 0 | 11000 | 28 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 28 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12 | 1 | 0 | 0 | 11000 | 28 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 28 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 13 | 1 | 0 | 0 | 11000 | 11 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 11 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 14 | 1 | 0 | 0 | 11000 | 39 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 39 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 15 | 1 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 16 | 1 | 0 | 0 | 11000 | 9 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 9 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 17 | 1 | 0 | 0 | 11000 | 5 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 5 | 0.00 | 0.00 | 0.00 | 0.00 |

## Pedestrian Crossings: Flows and signals

| Time Segment | Crossing | Side | Calculated flow entering (Ped/hr) | Calculated flow out (Ped/hr) | Flow discrepancy (Ped/hr) | Adjusted flow warning | Calculated sat flow (Ped/hr) | Calculated capacity (Ped/hr) | Degree of saturation (%) | DOS Threshold exceeded | Practical reserve capacity | Mean modulus of error | Actual green (s (per cycle)) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 1 | 1 | 0 | 0 | 0 | | 11000 | 1833 | 0 | | Unrestricted | 0.00 | 7 |
| | | 2 | 0 | 0 | 0 | | 11000 | 1833 | 0 | | Unrestricted | 0.00 | 7 |
| | 2 | 1 | 0 | 0 | 0 | | 11000 | 5867 | 0 | | Unrestricted | 0.00 | 29 |
| | | 2 | 0 | 0 | 0 | | 11000 | 5867 | 0 | | Unrestricted | 0.00 | 29 |
| | 3 | 1 | 0 | 0 | 0 | | 11000 | 2017 | 0 | | Unrestricted | 0.00 | 8 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2017 | 0 | | Unrestricted | 0.00 | 8 |
| | 4 | 1 | 0 | 0 | 0 | | 11000 | 4767 | 0 | | Unrestricted | 0.00 | 23 |
| | | 2 | 0 | 0 | 0 | | 11000 | 4767 | 0 | | Unrestricted | 0.00 | 23 |
| | 5 | 1 | 0 | 0 | 0 | | 11000 | 4767 | 0 | | Unrestricted | 0.00 | 23 |
| | | 2 | 0 | 0 | 0 | | 11000 | 4767 | 0 | | Unrestricted | 0.00 | 23 |
| | 6 | 1 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | | 2 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | 7 | 1 | 0 | 0 | 0 | | 11000 | 5867 | 0 | | Unrestricted | 0.00 | 29 |
| | | 2 | 0 | 0 | 0 | | 11000 | 5867 | 0 | | Unrestricted | 0.00 | 29 |
| | 8 | 1 | 0 | 0 | 0 | | 11000 | 6233 | 0 | | Unrestricted | 0.00 | 31 |
| | | 2 | 0 | 0 | 0 | | 11000 | 6233 | 0 | | Unrestricted | 0.00 | 31 |
| | 9 | 1 | 0 | 0 | 0 | | 11000 | 2750 | 0 | | Unrestricted | 0.00 | 12 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2750 | 0 | | Unrestricted | 0.00 | 12 |
| | 10 | 1 | 0 | 0 | 0 | | 11000 | 3667 | 0 | | Unrestricted | 0.00 | 17 |
| | | 2 | 0 | 0 | 0 | | 11000 | 3667 | 0 | | Unrestricted | 0.00 | 17 |
| | 11 | 1 | 0 | 0 | 0 | | 11000 | 5683 | 0 | | Unrestricted | 0.00 | 28 |
| | | 2 | 0 | 0 | 0 | | 11000 | 5683 | 0 | | Unrestricted | 0.00 | 28 |
| | 12 | 1 | 0 | 0 | 0 | | 11000 | 5683 | 0 | | Unrestricted | 0.00 | 28 |
| | | 2 | 0 | 0 | 0 | | 11000 | 5683 | 0 | | Unrestricted | 0.00 | 28 |
| | 13 | 1 | 0 | 0 | 0 | | 11000 | 2567 | 0 | | Unrestricted | 0.00 | 11 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2567 | 0 | | Unrestricted | 0.00 | 11 |
| | 14 | 1 | 0 | 0 | 0 | | 11000 | 7700 | 0 | | Unrestricted | 0.00 | 39 |
| | | 2 | 0 | 0 | 0 | | 11000 | 7700 | 0 | | Unrestricted | 0.00 | 39 |
| | 15 | 1 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | | 2 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | 16 | 1 | 0 | 0 | 0 | | 11000 | 2200 | 0 | | Unrestricted | 0.00 | 9 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2200 | 0 | | Unrestricted | 0.00 | 9 |
| | 17 | 1 | 0 | 0 | 0 | | 11000 | 1467 | 0 | | Unrestricted | 0.00 | 5 |
| | | 2 | 0 | 0 | 0 | | 11000 | 1467 | 0 | | Unrestricted | 0.00 | 5 |

## Pedestrian Crossings: Stops and delays

| Time Segment | Crossing | Side | Mean Cruise Time per Ped (s) | Mean Delay per Ped (s) | Total delay (Ped-hr/hr) | Weighted cost of delay (£ per hr) |
|---|---|---|---|---|---|---|
| 16:30-17:30 | (ALL) | (ALL) | 1.00 | 0.00 | 0.00 | 0.00 |

## Pedestrian Crossings: Queues and blocking

| Time Segment | Crossing | Side | Mean max queue (Ped) | Max queue storage (Ped) | Utilised storage (%) | Excess queue penalty (£ per hr) |
|---|---|---|---|---|---|---|
| 16:30-17:30 | (ALL) | (ALL) | 0.00 | 10.00 | 0.00 | 0.00 |

## Pedestrian Crossings: Advanced

| Time Segment | Crossing | Side | Degree of saturation penalty (£ per hr) | Ped gap accepting penalty (£ per hr) | Mean Max Queue EoTS (Ped) | Ped Factor | Cost of traffic penalties (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | (ALL) | (ALL) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |

# Network Results

## Run Summary

| Analysis set used | Run start time | Run finish time | Modelling start time (HH:mm) | Network Cycle Time (s) | Performance Index (£ per hr) | Total network delay (PCU-hr/hr) | Highest DOS (%) | Item with highest DOS | Number of oversaturated items | Percentage of oversaturated items (%) | Item with worst signalised PRC | Item with worst unsignalised PRC | Ite wit wor over PR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 16/07/2021 12:31:39 | 16/07/2021 12:31:49 | 16:30 | 60 | 6108.49 | 376.42 | 110.10 | Bf/1 | 14 | 9 | TC5/4 | Bf/1 | TC5 |

## Network Results: Vehicle summary

| Time Segment | Degree of saturation (%) | Practical reserve capacity (%) | Calculated flow entering (PCU/hr) | Actual green (s (per cycle)) | Mean Delay per Veh (s) | Weighted cost of delay (£ per hr) | Weighted cost of stops (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 110 | -100 | 74928 | 4954 | 18.09 | 5345.13 | 763.36 | 6108.49 |

## Network Results: Pedestrian summary

| Time Segment | Degree of saturation (%) | Calculated Flow Entering (Ped/hr) | Actual green (s (per cycle)) | Mean Delay Per Ped (s) | Weighted cost of delay (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|
| 16:30-17:30 | 0 | 0 | 598 | 0.00 | 0.00 | 0.00 |

## Network Results: Flows and signals

| Time Segment | Calculated flow entering (PCU/hr) | Calculated flow out (PCU/hr) | Flow discrepancy (PCU/hr) | Adjusted flow warning | Degree of saturation (%) | DOS Threshold exceeded | Practical reserve capacity (%) | Actual green (s (per cycle)) |
|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 74928 | 74822 | 329 | ✓ | 110 | ✓ | -100 | 5552 |

## Network Results: Stops and delays

| Time Segment | Mean Cruise Time per Veh (s) | Mean Delay per Veh (s) | Total delay (PCU-hr/hr) | Weighted cost of delay (£ per hr) | Mean stops per Veh (%) | Total stops (Stops per hr) | Weighted cost of stops (£ per hr) |
|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 8.39 | 18.09 | 376.42 | 5345.13 | 40.37 | 29898.56 | 763.36 |

## Network Results: Queues and blocking

| Time Segment | Utilised storage (%) | Excess queue penalty (£ per hr) | Wasted time total (s (per cycle)) |
|---|---|---|---|
| 16:30-17:30 | 162.92 | 0.00 | 1188.72 |

## Network Results: Advanced

| Time Segment | Degree of saturation penalty (£ per hr) | Ped gap accepting penalty (£ per hr) | Warmed up | PCU Factor | Cost of traffic penalties (£ per hr) | Controller stream penalties (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|
| 16:30-17:30 | 0.00 | 0.00 | | 1.00 | 0.00 | 0.00 | 6108.49 |

# Point to Point Journey Time

## Average Journey Time (s) for Local Matrix: 1

| | | To | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A28 | B28 | C28 | D28 | E28 | F28 | G28 | H28 |
| From | A28 | 273.2 | 697.7 | 717.1 | 226.9 | 272.6 | 209.1 | 216.5 | 0.0 |
| | B28 | 220.4 | 0.0 | 103.8 | 143.9 | 123.5 | 145.6 | 161.8 | 0.0 |
| | C28 | 174.7 | 650.5 | 0.0 | 83.8 | 74.0 | 100.8 | 120.4 | 0.0 |
| | D28 | 138.0 | 331.8 | 195.0 | 0.0 | 254.8 | 93.6 | 102.5 | 0.0 |
| | E28 | 148.3 | 662.7 | 206.4 | 46.4 | 0.0 | 90.2 | 97.7 | 0.0 |
| | F28 | 105.7 | 315.0 | 236.3 | 285.9 | 277.3 | 0.0 | 17.0 | 0.0 |
| | G28 | 75.8 | 288.9 | 163.4 | 247.6 | 231.9 | 211.9 | 0.0 | 0.0 |
| | H28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

## Path Journey Time

| Path | From Location | To Location | Normal Calculated Flow (PCU/hr) | Normal journey time (s) | Calculated Total Flow (PCU/hr) | Avg journey time (s) |
|---|---|---|---|---|---|---|
| 32 | C28 | E28 | 93 | 73.98 | 93 | 73.98 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **36** | C28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **41** | E28 | A28 | 419 | 148.97 | 419 | 148.97 |
| **49** | C28 | D28 | 300 | 83.84 | 300 | 83.84 |
| **50** | E28 | D28 | 106 | 46.41 | 106 | 46.41 |
| **67** | G28 | B28 | 148 | 288.97 | 148 | 288.97 |
| **68** | E28 | G28 | 144 | 97.74 | 144 | 97.74 |
| **69** | D28 | B28 | 132 | 329.09 | 132 | 329.09 |
| **70** | D28 | B28 | 132 | 329.06 | 132 | 329.06 |
| **71** | D28 | B28 | 44 | 340.15 | 44 | 340.15 |
| **72** | D28 | B28 | 43 | 340.13 | 43 | 340.13 |
| **73** | H28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **74** | H28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **75** | F28 | B28 | 20 | 315.04 | 20 | 315.04 |
| **76** | F28 | B28 | 20 | 314.98 | 20 | 314.98 |
| **89** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **90** | H28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **91** | C28 | F28 | 21 | 100.84 | 21 | 100.84 |
| **92** | E28 | F28 | 10 | 90.19 | 10 | 90.19 |
| **94** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **95** | G28 | F28 | 29 | 211.93 | 29 | 211.93 |
| **96** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **100** | E28 | B28 | 292 | 657.26 | 292 | 657.26 |
| **102** | A28 | C28 | 60 | 537.18 | 60 | 537.18 |
| **103** | H28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **104** | C28 | G28 | 137 | 108.16 | 137 | 108.16 |
| **106** | F28 | F28 | 0 | 0.00 | 0 | 0.00 |
| **107** | A28 | B28 | 25 | 697.69 | 25 | 697.69 |
| **109** | C28 | G28 | 306 | 127.22 | 306 | 127.22 |
| **110** | E28 | G28 | 8 | 97.80 | 8 | 97.80 |
| **112** | F28 | G28 | 107 | 17.04 | 107 | 17.04 |
| **113** | F28 | A28 | 157 | 105.67 | 157 | 105.67 |
| **114** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **115** | B28 | C28 | 4 | 101.00 | 4 | 101.00 |
| **116** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **117** | F28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **118** | G28 | C28 | 324 | 188.87 | 324 | 188.87 |
| **119** | G28 | E28 | 117 | 227.14 | 117 | 227.14 |
| **120** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **121** | E28 | C28 | 43 | 214.45 | 43 | 214.45 |
| **122** | E28 | E28 | 1 | 0.00 | 1 | 0.00 |
| **123** | D28 | C28 | 120 | 205.53 | 120 | 205.53 |
| **124** | D28 | E28 | 8 | 252.67 | 8 | 252.67 |
| **125** | H28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **126** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **127** | F28 | C28 | 38 | 259.14 | 38 | 259.14 |
| **128** | F28 | E28 | 44 | 274.95 | 44 | 274.95 |
| **137** | H28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **138** | H28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **140** | B28 | G28 | 110 | 172.07 | 110 | 172.07 |
| **141** | B28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **142** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **143** | E28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **144** | B28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **145** | B28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **150** | E28 | B28 | 292 | 668.17 | 292 | 668.17 |
| **154** | E28 | A28 | 24 | 136.55 | 24 | 136.55 |
| **162** | B28 | F28 | 13 | 145.65 | 13 | 145.65 |
| **166** | B28 | C28 | 92 | 103.95 | 92 | 103.95 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **168** | G28 | A28 | 735 | 75.84 | 735 | 75.84 |
| **171** | G28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **185** | A28 | B28 | 25 | 697.72 | 25 | 697.72 |
| **186** | A28 | C28 | 326 | 750.19 | 326 | 750.19 |
| **195** | D28 | G28 | 160 | 102.53 | 160 | 102.53 |
| **196** | D28 | F28 | 59 | 93.56 | 59 | 93.56 |
| **198** | D28 | A28 | 5 | 137.97 | 5 | 137.97 |
| **234** | C28 | G28 | 36 | 108.99 | 36 | 108.99 |
| **235** | E28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **236** | E28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **255** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **291** | C28 | A28 | 360 | 174.66 | 360 | 174.66 |
| **294** | C28 | B28 | 23 | 676.16 | 23 | 676.16 |
| **295** | C28 | B28 | 23 | 624.81 | 23 | 624.81 |
| **296** | D28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **297** | D28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **299** | A28 | G28 | 393 | 216.44 | 393 | 216.44 |
| **300** | A28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **301** | A28 | A28 | 2 | 279.21 | 2 | 279.21 |
| **302** | A28 | A28 | 2 | 267.11 | 2 | 267.11 |
| **312** | B28 | G28 | 110 | 152.97 | 110 | 152.97 |
| **313** | B28 | G28 | 19 | 153.80 | 19 | 153.80 |
| **314** | B28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **323** | B28 | D28 | 165 | 143.91 | 165 | 143.91 |
| **324** | B28 | E28 | 130 | 138.71 | 130 | 138.71 |
| **343** | B28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **344** | B28 | A28 | 18 | 220.40 | 18 | 220.40 |
| **345** | B28 | E28 | 347 | 117.75 | 347 | 117.75 |
| **356** | A28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **357** | A28 | F28 | 59 | 209.11 | 59 | 209.11 |
| **358** | A28 | G28 | 10 | 217.26 | 10 | 217.26 |
| **359** | A28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **360** | G28 | B28 | 148 | 288.92 | 148 | 288.92 |
| **362** | F28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **365** | H28 | F28 | 0 | 0.00 | 0 | 0.00 |
| **367** | F28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **377** | G28 | C28 | 50 | 146.60 | 50 | 146.60 |
| **378** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **379** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **380** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **381** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **382** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **383** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **384** | D28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **385** | D28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **387** | A28 | E28 | 40 | 794.85 | 40 | 794.85 |
| **392** | G28 | D28 | 131 | 247.56 | 131 | 247.56 |
| **393** | G28 | E28 | 117 | 236.64 | 117 | 236.64 |
| **394** | A28 | D28 | 12 | 226.92 | 12 | 226.92 |
| **395** | A28 | E28 | 373 | 216.59 | 373 | 216.59 |
| **396** | E28 | E28 | 1 | 0.00 | 1 | 0.00 |
| **397** | D28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **398** | D28 | E28 | 8 | 256.91 | 8 | 256.91 |
| **399** | H28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **400** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **401** | F28 | D28 | 85 | 285.90 | 85 | 285.90 |
| **402** | F28 | E28 | 44 | 279.64 | 44 | 279.64 |
| **403** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **404** | G28 | C28 | 559 | 150.20 | 559 | 150.20 |
| **405** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **406** | E28 | C28 | 43 | 198.35 | 43 | 198.35 |
| **407** | D28 | C28 | 220 | 189.21 | 220 | 189.21 |
| **408** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **409** | F28 | C28 | 38 | 213.49 | 38 | 213.49 |

# Final Prediction Table

## Traffic Stream Results

| | | | | SIGNALS | | FLOWS | | PERFORMANCE | | | | PER PCU | | | QUEUES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Arm** | **Traffic Stream** | **Name** | **Traffic node** | **Controller stream** | **Phase** | **Calculated flow entering (PCU/hr)** | **Calculated sat flow (PCU/hr)** | **Actual green (s (per cycle))** | **Wasted time total (s (per cycle))** | **Degree of saturation (%)** | **Practical reserve capacity (%)** | **JourneyTime (s)** | **Mean Delay per Veh (s)** | **Mean stops per Veh (%)** | **Mean max queue (PCU)** |
| **A** | **1** | (untitled) | 6 | 771-2 | E | 892 < | 2050 | 28 | 0.00 | 90 | 0 | 32.45 | 26.86 | 88.10 | 14.17 + |
| | **2** | (untitled) | 6 | 771-2 | E | 386 | 2050 | 28 | 0.00 | 39 | 131 | 14.45 | 8.68 | 41.22 | 2.61 |
| | **3** | (untitled) | 6 | 771-2 | E | 597 | 2050 | 28 | 0.00 | 60 | 49 | 17.79 | 11.89 | 59.44 | 7.87 |
| | **4** | (untitled) | 6 | 771-2 | E | 929 < | 2050 | 28 | 0.00 | 94 | -4 | 42.13 | 36.10 | 112.64 | 18.55 + |
| **Ac** | **1** | (untitled) | 6 | 771-2 | D | 830 < | 2263 | 22 | 1.00 | 96 | -6 | 67.63 | 60.45 | 146.69 | 21.45 + |
| | **2** | (untitled) | 6 | 771-2 | D | 264 | 2263 | 22 | 9.21 | 34 | 167 | 11.39 | 1.89 | 18.07 | 2.02 |
| | **3** | (untitled) | 6 | 771-2 | D | 529 | 2263 | 22 | 4.00 | 61 | 48 | 12.57 | 5.98 | 21.56 | 2.79 |
| **Acf** | **1** | (untitled) | 6 | | | 1094 | 2263 | 60 | 16.00 | 48 | 86 | 5.96 | 0.74 | 0.00 | 0.23 |
| | **2** | (untitled) | 6 | | | 529 | 2263 | 60 | 30.00 | 23 | 285 | 7.49 | 0.24 | 0.00 | 0.04 |
| **Af** | **1** | (untitled) | 6 | | | 1278 | 2050 | 60 | 7.41 | 64 | 41 | 8.13 | 1.70 | 5.61 | 2.29 |
| | **2** | (untitled) | 6 | | | 597 | 2050 | 60 | 7.00 | 29 | 209 | 6.72 | 0.36 | 0.00 | 0.06 |
| | **3** | (untitled) | 6 | | | 929 | 2050 | 60 | 6.26 | 46 | 98 | 7.07 | 0.74 | 1.32 | 1.64 |
| **B** | **1** | (untitled) | 1 | 769-1 | B | 100 | 2050 | 13 | 11.00 | 21 | 331 | 37.40 | 30.30 | 101.56 | 2.35 |
| | **2** | (untitled) | 1 | 769-1 | B | 332 < | 2150 | 13 | 4.72 | 100 | -10 | 249.48 | 242.19 | 314.24 | 24.87 + |
| | **3** | (untitled) | 1 | 769-1 | B | 454 | 2100 | 13 | 0.00 | 93 | -3 | 65.60 | 58.12 | 135.49 | 10.86 |
| | **4** | (untitled) | 1 | 769-1 | B | 397 | 2050 | 13 | 0.00 | 83 | 8 | 51.37 | 39.08 | 115.98 | 7.87 |
| **Bc** | **1** | (untitled) | 1 | 769-1 | A | 737 | 2050 | 35 | 7.00 | 60 | 50 | 19.34 | 9.33 | 52.42 | 7.44 |
| | **2** | (untitled) | 1 | 769-1 | A | 860 | 2050 | 35 | 4.02 | 72 | 25 | 22.43 | 12.53 | 69.34 | 10.57 |
| | **3** | (untitled) | 1 | 769-1 | A | 1108 < | 2050 | 35 | 1.11 | 93 | -3 | 37.63 | 27.82 | 103.58 | 24.18 + |
| **Bcf** | **1** | (untitled) | 1 | | | 1722 | 2263 | 60 | 9.00 | 76 | 18 | 6.86 | 2.51 | 0.00 | 1.20 |
| | **2** | (untitled) | 1 | | | 737 | 2263 | 60 | 14.00 | 33 | 176 | 5.78 | 0.38 | 0.00 | 0.08 |
| | **3** | (untitled) | 1 | | | 860 | 2263 | 60 | 12.00 | 38 | 137 | 6.27 | 0.49 | 0.00 | 0.12 |
| | **4** | (untitled) | 1 | | | 1108 | 2263 | 60 | 13.10 | 50 | 80 | 6.98 | 0.82 | 1.88 | 5.71 |
| **Bf** | **2** | (untitled) | 1 | | | 851 | 1800 | 60 | 0.00 | 47 | 90 | 28.31 | 0.90 | 0.00 | 0.21 |
| **C** | **1** | (untitled) | 2 | 769-2 | G | 443 | 2100 | 15 | 0.00 | 79 | 14 | 46.77 | 32.24 | 105.53 | 7.86 |
| | **2** | (untitled) | 2 | 769-2 | G | 295 | 2200 | 15 | 0.32 | 51 | 75 | 36.74 | 22.06 | 85.39 | 4.20 |
| | **3** | (untitled) | 2 | 769-2 | G | 270 | 2050 | 15 | 0.00 | 49 | 82 | 36.77 | 21.84 | 85.26 | 3.84 |
| **Cf** | **1** | (untitled) | 2 | | | 443 | 1965 | 60 | 0.00 | 23 | 299 | 17.62 | 0.27 | 0.00 | 0.03 |
| | **2** | (untitled) | 2 | | | 565 | 1965 | 60 | 0.00 | 29 | 213 | 17.87 | 0.37 | 0.00 | 0.06 |
| **D** | **1** | (untitled) | 3 | 770-1 | B | 393 | 2050 | 17 | 0.00 | 64 | 41 | 27.44 | 23.31 | 85.18 | 5.65 |
| | **2** | (untitled) | 3 | 770-1 | B | 194 | 1850 | 17 | 0.00 | 35 | 157 | 22.29 | 18.17 | 74.96 | 2.50 |
| | **3** | (untitled) | 3 | 770-1 | B | 306 | 2250 | 17 | 0.00 | 45 | 99 | 23.20 | 19.23 | 76.97 | 3.93 |
| | **4** | (untitled) | 3 | 770-1 | B | 406 | 2250 | 17 | 0.00 | 60 | 50 | 26.09 | 21.94 | 83.36 | 5.67 |
| **Dc** | **1** | (untitled) | 3 | 770-1 | A | 552 | 2100 | 33 | 8.00 | 46 | 94 | 8.88 | 5.11 | 25.11 | 2.52 |
| | **2** | (untitled) | 3 | 770-1 | A | 1065 < | 2100 | 33 | 3.15 | 90 | 0 | 26.35 | 22.73 | 59.50 | 10.67 + |
| | **3** | (untitled) | 3 | 770-1 | A | 240 | 2100 | 33 | 12.00 | 20 | 346 | 8.94 | 5.46 | 26.29 | 2.34 |
| | **4** | (untitled) | 3 | 770-1 | A | 525 | 2100 | 33 | 10.00 | 44 | 104 | 17.66 | 14.32 | 58.08 | 5.20 |
| **Dcf** | **1** | (untitled) | 3 | | | 1056 | 2050 | 60 | 15.00 | 52 | 75 | 5.88 | 0.93 | 0.00 | 0.27 |
| | **2** | (untitled) | 3 | | | 825 | 2100 | 60 | 30.00 | 39 | 129 | 5.50 | 0.55 | 0.00 | 0.13 |
| | **3** | (untitled) | 3 | | | 552 | 2100 | 60 | 14.00 | 26 | 242 | 6.41 | 0.31 | 0.00 | 0.05 |
| | **4** | (untitled) | 3 | | | 1065 < | 2100 | 60 | 28.80 | 89 | 1 | 25.77 | 18.60 | 63.37 | 11.88 + |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | (untitled) | 3 | | | 240 | 2100 | 60 | 23.00 | 11 | 688 | 5.13 | 0.11 | 0.00 | 0.01 |
| | 6 | (untitled) | 3 | | | 525 | 2100 | 60 | 30.00 | 25 | 260 | 5.32 | 0.29 | 0.00 | 0.04 |
| Df | 1 | (untitled) | 3-2 | | | 587 | 1900 | 60 | 0.00 | 31 | 191 | 24.42 | 0.42 | 0.00 | 0.07 |
| | 2 | (untitled) | 3-2 | | | 712 | 2250 | 60 | 0.00 | 32 | 184 | 24.37 | 0.37 | 0.00 | 0.07 |
| Dxp | 1 | (untitled) | 3-2 | 770-2 | D | 1062 | 2050 | 41 | 5.00 | 74 | 22 | 7.93 | 4.43 | 14.14 | 2.60 |
| | 2 | (untitled) | 3-2 | 770-2 | D | 825 | 2050 | 41 | 7.00 | 57 | 57 | 5.41 | 1.76 | 3.38 | 0.47 |
| Ec | 1 | (untitled) | 4 | 770-3 | F | 693 | 2150 | 24 | 2.00 | 77 | 16 | 17.60 | 13.85 | 55.55 | 6.78 |
| | 2 | (untitled) | 4 | 770-3 | F | 434 | 2263 | 24 | 4.00 | 46 | 96 | 16.85 | 13.22 | 54.81 | 3.97 |
| | 3 | (untitled) | 4 | 770-3 | F | 811 < | 2263 | 24 | 0.00 | 86 | 5 | 27.39 | 23.88 | 67.70 | 9.26 + |
| | 4 | (untitled) | 4 | 770-3 | F | 380 | 2250 | 24 | 12.00 | 41 | 122 | 9.05 | 5.67 | 18.30 | 2.46 |
| Ecf | 1 | (untitled) | 4 | | | 645 | 2100 | 60 | 20.50 | 38 | 137 | 5.07 | 1.63 | 10.81 | 2.44 |
| | 2 | (untitled) | 4 | | | 1365 | 2100 | 60 | 10.97 | 70 | 29 | 6.13 | 2.65 | 13.41 | 5.56 |
| | 3 | (untitled) | 4 | | | 434 | 2263 | 60 | 20.00 | 19 | 369 | 3.71 | 0.19 | 0.00 | 0.02 |
| | 4 | (untitled) | 4 | | | 811 | 2300 | 60 | 20.63 | 40 | 127 | 4.72 | 1.16 | 17.40 | 2.73 |
| | 5 | (untitled) | 4 | | | 426 | 2300 | 60 | 38.00 | 19 | 386 | 3.82 | 0.18 | 0.00 | 0.02 |
| Ef | 1 | (untitled) | 4 | | | 797 | 1900 | 60 | 0.00 | 42 | 115 | 15.99 | 0.68 | 0.00 | 0.15 |
| | 2 | (untitled) | 4 | | | 584 | 1900 | 60 | 0.00 | 31 | 193 | 15.73 | 0.42 | 0.00 | 0.07 |
| Exp | 1 | (untitled) | 4-2 | 770-4 | L | 645 | 2050 | 40 | 4.00 | 46 | 95 | 14.11 | 10.22 | 64.89 | 7.02 |
| | 2 | (untitled) | 4-2 | 770-4 | L | 672 | 2050 | 40 | 20.00 | 48 | 88 | 15.03 | 11.00 | 77.68 | 9.08 |
| F | 1 | (untitled) | 5 | 771-1 | B | 219 | 2100 | 15 | 0.00 | 39 | 130 | 26.46 | 20.08 | 79.99 | 2.93 |
| | 2 | (untitled) | 5 | 771-1 | B | 269 | 2100 | 15 | 0.00 | 48 | 87 | 27.90 | 21.47 | 81.53 | 3.66 |
| | 3 | (untitled) | 5 | 771-1 | B | 443 | 2100 | 15 | 0.00 | 79 | 14 | 38.72 | 32.18 | 99.35 | 7.41 |
| Fc | 1 | (untitled) | 5 | 771-1 | A | 588 | 2263 | 35 | 7.00 | 43 | 108 | 23.76 | 4.46 | 52.38 | 5.36 |
| | 2 | (untitled) | 5 | 771-1 | A | 843 | 2263 | 35 | 7.67 | 65 | 38 | 27.50 | 8.77 | 89.46 | 17.46 |
| | 3 | (untitled) | 5 | 771-1 | A | 885 | 2263 | 35 | 9.00 | 65 | 38 | 26.49 | 6.96 | 31.31 | 4.62 |
| Ff | 1 | (untitled) | 5 | | | 488 | 1900 | 60 | 0.00 | 26 | 250 | 33.41 | 0.33 | 0.00 | 0.04 |
| | 2 | (untitled) | 5 | | | 443 | 1900 | 60 | 0.00 | 23 | 286 | 33.34 | 0.29 | 0.00 | 0.04 |
| G | 1 | (untitled) | 2 | 769-2 | F | 283 < | 2050 | 15 | 7.71 | 100 | -10 | 409.16 | 393.10 | 445.76 | 35.00 + |
| | 2 | (untitled) | 2 | 769-2 | F | 284 < | 2050 | 15 | 7.68 | 100 | -10 | 389.85 | 378.40 | 351.89 | 33.45 + |
| Gf | 1 | (untitled) | 4 | | | 292 | 2050 | 60 | 51.57 | 27 | 231 | 21.09 | 18.17 | 82.21 | 3.74 |
| | 2 | (untitled) | 4 | | | 292 | 2050 | 60 | 51.40 | 38 | 138 | 27.55 | 24.67 | 91.99 | 4.29 |
| xA | 1 | (untitled) | 10 | | | 742 | 2263 | 60 | 24.19 | 39 | 132 | 18.50 | 1.27 | 9.76 | 2.44 |
| | 2 | (untitled) | 10 | | | 882 | 2263 | 60 | 36.00 | 39 | 131 | 17.76 | 0.51 | 0.00 | 0.12 |
| xB | 1 | (untitled) | | | | 1722 | Unrestricted | 60 | 0.00 | 0 | Unrestricted | 5.79 | 0.00 | 0.00 | 0.00 |
| xC | 1 | (untitled) | | | | 650 < | 1900 | 60 | 39.47 | 100 | -10 | 138.51 | 129.84 | 122.01 | 30.01 + |
| | 2 | (untitled) | | | | 650 < | 1900 | 60 | 39.47 | 100 | -10 | 138.49 | 129.79 | 121.77 | 30.01 + |
| xD | 1 | (untitled) | | | | 1062 | Unrestricted | 60 | 11.00 | 0 | Unrestricted | 9.13 | 0.00 | 0.00 | 0.00 |
| | 2 | (untitled) | | | | 825 | Unrestricted | 60 | 18.00 | 0 | Unrestricted | 9.21 | 0.00 | 0.00 | 0.00 |
| xE | 1 | (untitled) | | | | 645 | Unrestricted | 60 | 16.00 | 0 | Unrestricted | 13.04 | 0.00 | 0.00 | 0.00 |
| | 2 | (untitled) | | | | 672 | Unrestricted | 60 | 26.00 | 0 | Unrestricted | 13.04 | 0.00 | 0.00 | 0.00 |
| xF | 1 | (untitled) | | | | 799 | Unrestricted | 60 | 1.00 | 0 | Unrestricted | 12.19 | 0.00 | 0.00 | 0.00 |
| Cc1 | 1 | (untitled) | 2 | 769-2 | E | 732 | 2050 | 30 | 8.00 | 69 | 30 | 18.09 | 11.56 | 60.49 | 11.03 |
| E1 | 1 | (untitled) | 4 | 770-3 | G | 292 | 2050 | 25 | 0.00 | 33 | 174 | 18.24 | 12.24 | 61.51 | 3.01 |
| | 2 | (untitled) | 4 | 770-3 | G | 505 | 2200 | 25 | 0.00 | 53 | 70 | 20.64 | 14.64 | 67.37 | 5.71 |
| Gf1 | 1 | (untitled) | 4 | | | 46 | 667 | 60 | 47.00 | 7 | 1205 | 3.79 | 0.20 | 0.00 | 0.00 |
| Cc2 | 2 | (untitled) | 2 | 769-2 | D | 964 < | 2150 | 29 | 2.16 | 93 | -4 | 51.73 | 41.02 | 108.55 | 17.64 + |
| | 3 | (untitled) | 2 | 769-2 | D | 770 | 2050 | 29 | 1.00 | 75 | 20 | 26.91 | 17.53 | 82.59 | 13.06 |
| | 4 | (untitled) | 2 | 769-2 | D | 1026 < | 2150 | 29 | 0.00 | 95 | -6 | 51.99 | 42.00 | 123.52 | 21.95 + |
| | 5 | (untitled) | 2 | 769-2 | D | 98 | 2050 | 29 | 9.00 | 10 | 841 | 12.58 | 3.85 | 21.20 | 0.35 |
| | 6 | (untitled) | 2 | 769-2 | D | 397 | 2050 | 29 | 16.00 | 39 | 132 | 9.02 | 1.11 | 0.00 | 0.12 |
| E2 | 3 | (untitled) | 4 | 770-3 | H | 292 | 2150 | 25 | 0.26 | 32 | 184 | 16.15 | 12.15 | 61.40 | 3.00 |
| | 4 | (untitled) | 4 | 770-3 | H | 292 | 2050 | 25 | 0.31 | 33 | 170 | 16.35 | 12.28 | 61.59 | 3.01 |
| TC5 | 2 | (untitled) | TC771-6 | TC777-1 | A | 551 | 2263 | 38 | 12.00 | 37 | 146 | 7.74 | 4.98 | 32.70 | 3.00 |
| | 3 | (untitled) | TC771-6 | TC777-1 | A | 882 | 2263 | 38 | 15.00 | 58 | 54 | 4.50 | 1.74 | 3.12 | 0.46 |
| | 4 | (untitled) | TC771-6 | TC777-1 | C | 0 | 0 | 0 | 0.00 | 0 | -100 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TC9** | **1** | (untitled) | TC771-6 | TC777-1 | B | 1081 | 1925 | 42 | 0.00 | 75 | 20 | 18.96 | 7.96 | 50.25 | 9.95 |
| | **2** | (untitled) | TC771-6 | TC777-1 | B | 559 | 1966 | 42 | 0.00 | 38 | 137 | 14.42 | 3.37 | 30.56 | 3.11 |
| | **3** | (untitled) | TC771-6 | TC777-1 | B | 718 | 1947 | 42 | 0.00 | 49 | 83 | 15.29 | 4.16 | 33.64 | 4.04 |
| **TC35** | **1** | (untitled) | TC771-6 | TC777-1 | A | 191 | 1900 | 38 | 19.00 | 15 | 497 | 5.16 | 2.26 | 23.10 | 1.46 |
| **TC36** | **1** | (untitled) | TC771-6 | | | 553 | 1800 | 60 | 0.00 | 31 | 193 | 3.47 | 0.44 | 0.00 | 0.07 |
| **TC37** | **1** | (untitled) | TC771-6 | TC777-2 | J | 107 | 1850 | 45 | 0.00 | 8 | 1093 | 5.04 | 1.85 | 23.51 | 0.42 |
| **TC38** | **1** | (untitled) | TC771-6 | | | 107 | 416 | 60 | 9.00 | 26 | 250 | 4.29 | 2.76 | 33.68 | 2.46 |
| **TC39** | **2** | (untitled) | TC771-6 | | | 551 | 2263 | 60 | 32.00 | 24 | 270 | 2.79 | 0.26 | 0.00 | 0.04 |
| | **3** | (untitled) | TC771-6 | | | 882 | 2263 | 60 | 35.00 | 39 | 131 | 2.90 | 0.51 | 0.00 | 0.12 |
| **TC40** | **2** | (untitled) | TC771-6 | | | 658 | Unrestricted | 60 | 0.00 | 0 | Unrestricted | 4.23 | 0.00 | 0.00 | 0.00 |
| | **3** | (untitled) | TC771-6 | | | 882 | Unrestricted | 60 | 29.00 | 0 | Unrestricted | 4.02 | 0.00 | 0.00 | 0.00 |
| **TC41** | **1** | (untitled) | TC771-6 | TC777-1 | D | 197 | 1850 | 8 | 0.00 | 71 | 27 | 43.48 | 39.55 | 112.15 | 3.74 |
| | **2** | (untitled) | TC771-6 | TC777-1 | D | 249 | 1850 | 8 | 0.00 | 90 | 0 | 73.38 | 69.41 | 150.14 | 6.73 |
| **TC42** | **1** | (untitled) | TC771-6 | TC777-1 | E | 0 | 0 | 0 | 0.00 | 0 | -100 | 0.00 | 0.00 | 0.00 | 0.00 |
| **TC43** | **1** | (untitled) | | | | 0 | 1800 | 60 | 60.00 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 0.00 |
| **47** | **1** | (untitled) | 2 | | | 1300 | 1300 | 60 | 0.00 | 100 | -10 | 64.61 | 48.58 | 0.00 | 17.54 |
| **48** | **1** | (untitled) | 2 | | | 1008 | 1965 | 60 | 0.00 | 51 | 75 | 7.58 | 0.96 | 0.00 | 0.27 |
| **49** | **1** | (untitled) | TC771-6 | | | 1081 | 1900 | 60 | 0.00 | 57 | 58 | 4.40 | 1.25 | 0.00 | 0.37 |
| | **2** | (untitled) | TC771-6 | | | 1277 | 1900 | 60 | 0.00 | 67 | 34 | 5.08 | 1.93 | 0.00 | 0.69 |
| **50** | **1** | (untitled) | 1 | | | 1327 | 1900 | 60 | 0.00 | 70 | 29 | 7.96 | 2.18 | 0.00 | 0.80 |
| **51** | **1** | (untitled) | 4-2 | | | 931 | 1900 | 60 | 0.00 | 49 | 84 | 5.41 | 0.91 | 0.00 | 0.24 |

## Pedestrian Crossing Results

| | | | | SIGNALS | | FLOWS | | PERFORMANCE | | | PER PED | | QUEUES | WEIGHTS | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pedestrian | Side | Name | Traffic node | Controller stream | Phase | Calculated Flow Entering (Ped/hr) | Calculated sat flow (Ped/hr) | Actual green (s (per cycle)) | Degree of saturation (%) | Practical reserve capacity | JourneyTime (s) | Mean Delay per Ped (s) | Mean max queue (Ped) | Delay weighting (%) | |
| 1 | 1 | (untitled) | 3-2 | 770-2 | E | 0 | 11000 | 7 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 3-2 | 770-2 | E | 0 | 11000 | 7 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 2 | 1 | (untitled) | 3 | 770-1 | C | 0 | 11000 | 29 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 3 | 770-1 | C | 0 | 11000 | 29 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 3 | 1 | (untitled) | 4-2 | 770-4 | M | 0 | 11000 | 8 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 4-2 | 770-4 | M | 0 | 11000 | 8 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 4 | 1 | (untitled) | 4 | 770-3 | J | 0 | 11000 | 23 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 4 | 770-3 | J | 0 | 11000 | 23 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 5 | 1 | (untitled) | 4 | 770-3 | I | 0 | 11000 | 23 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 4 | 770-3 | I | 0 | 11000 | 23 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 6 | 1 | (untitled) | 4 | 770-3 | K | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 4 | 770-3 | K | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 100 | |
| 7 | 1 | (untitled) | 5 | 771-1 | C | 0 | 11000 | 29 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 5 | 771-1 | C | 0 | 11000 | 29 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 8 | 1 | (untitled) | 1 | 769-1 | C | 0 | 11000 | 31 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 1 | 769-1 | C | 0 | 11000 | 31 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 9 | 1 | (untitled) | 2 | 769-2 | J | 0 | 11000 | 12 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | J | 0 | 11000 | 12 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 10 | 1 | (untitled) | 2 | 769-2 | K | 0 | 11000 | 17 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | K | 0 | 11000 | 17 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 11 | 1 | (untitled) | | 769-2 | H | 0 | 11000 | 28 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | 769-2 | H | 0 | 11000 | 28 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 12 | 1 | (untitled) | 2 | 769-2 | I | 0 | 11000 | 28 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | I | 0 | 11000 | 28 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 13 | 1 | (untitled) | | TC777-1 | I | 0 | 11000 | 11 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | I | 0 | 11000 | 11 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 14 | 1 | (untitled) | | TC777-1 | F | 0 | 11000 | 39 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | F | 0 | 11000 | 39 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 15 | 1 | (untitled) | | TC777-1 | G | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | G | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 100 | |
| 16 | 1 | (untitled) | | TC777-1 | H | 0 | 11000 | 9 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | H | 0 | 11000 | 9 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 17 | 1 | (untitled) | | TC777-2 | K | 0 | 11000 | 5 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-2 | K | 0 | 11000 | 5 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |

## Network Results

| | Distance travelled (PCU-km/hr) | Time spent (PCU-hr/hr) | Mean journey speed (kph) | Total delay (PCU-hr/hr) | Weighted cost of delay (£ per hr) | Weighted cost of stops (£ per hr) | Excess queue penalty (£ per hr) | Performance Index (£ per hr) |
|---|---|---|---|---|---|---|---|---|
| Normal traffic | 6711.59 | 551.03 | 12.18 | 376.42 | 5345.13 | 763.36 | 0.00 | 6108.49 |
| Bus | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tram | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pedestrians | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 6711.59 | 551.03 | 12.18 | 376.42 | 5345.13 | 763.36 | 0.00 | 6108.49 |

*< = adjusted flow warning (upstream links/traffic streams are over-saturated)*

** = Traffic Stream - Normal, Bus or Tram Stop or Delay weighting has been set to a value other than 100%*

*^ = Traffic Stream - Normal, Bus or Tram Stop or Delay Path weighting has been set to a value other than 100%*

*+ = average link/traffic stream excess queue is greater than 0*

***P.I. = PERFORMANCE INDEX***