# TRANSYT 15

Version: 15.5.2.7994


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**Filename:** M62 JN 28 CRF Scheme_Mar 20- Scenario 3a-PM + LCC Scheme.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:** 22/07/2021 16:03:41

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |

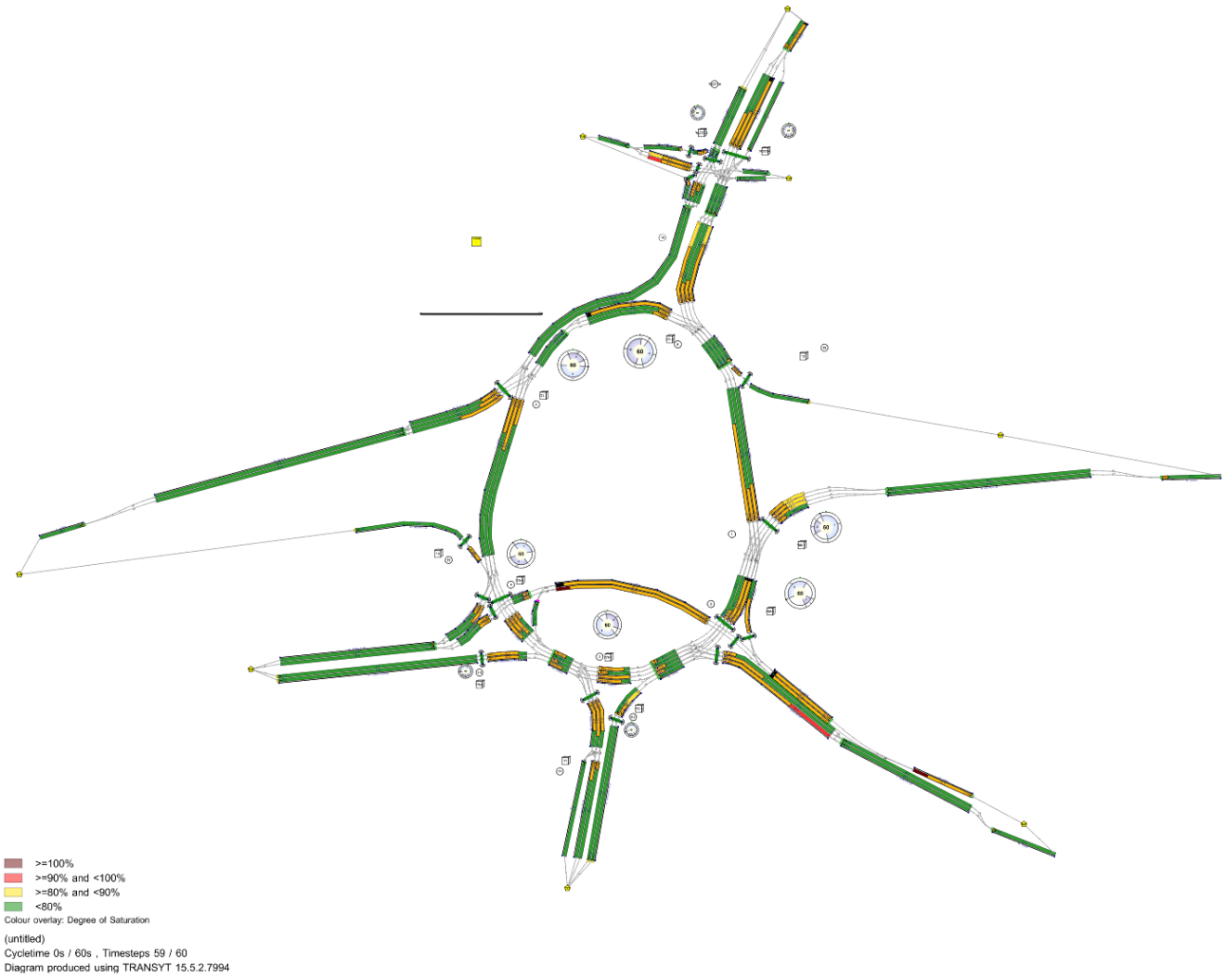
## Units

| 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 + LCC Scheme
# D2 - 2019 Base + Committed + Cumulative PM + LCC Scheme*

## 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 | 22/07/2021 16:03:05 | 22/07/2021 16:03:18 | 16:30 | 60 | 8306.44 | 526.80 | 121.77 | 54/1 | 13 | 8 | TC5/4 | 49/1 | TC5 |

### Analysis Set Details

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

### Demand Set Details

| Name | Description | Composite | Demand sets | Start time (HH:mm) | Locked |
|---|---|---|---|---|---|
| 2019 Base + Committed + Cumulative PM + LCC Scheme | | | | 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, 11, 12, 13 | | | 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 |
| 52 | | | 3-2 |
| 53 | | | TC771-6 |
| 54 | | | 6 |
| 55 | | | 4 |

## 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 | ✓ | 55.51 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | 2 | (untitled) | Dews | ✓ | 55.37 | ✓ | Directly entered | 2050 | | 2050 | | | Normal | |
| | 3 | (untitled) | Brad/M62W | ✓ | 55.59 | ✓ | 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 | ✓ | 132.85 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | 2 | (untitled) | Dews | ✓ | 131.47 | ✓ | Directly entered | 2050 | | 2263 | ✓ | | Normal | |
| | 3 | (untitled) | Brad/M62W | ✓ | 130.10 | ✓ | 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 | ✓ | 56.15 | ✓ | Directly entered | 2250 | | 2250 | ✓ | | Normal | |
| **Dc** | **1** | (untitled) | Brad | ✓ | 50.67 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **2** | (untitled) | Brad/M62W | ✓ | 48.72 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **3** | (untitled) | Leeds | ✓ | 46.78 | ✓ | Directly entered | 2100 | | 2100 | ✓ | | Normal | |
| | **4** | (untitled) | Leeds/M62E | ✓ | 44.83 | ✓ | 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) | | ✓ | 68.61 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **4** | (untitled) | | ✓ | 66.73 | ✓ | Directly entered | 2100 | | 2100 | | | Normal | |
| | **5** | (untitled) | | ✓ | 66.90 | ✓ | 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 | ✓ | 45.93 | ✓ | 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) | | ✓ | 50.37 | ✓ | 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 | |
| **Fc** | **1** | (untitled) | Leeds | ✓ | 183.21 | ✓ | Directly entered | 2263 | | 2263 | ✓ | | Normal | |
| | **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) | | ✓ | 229.97 | ✓ | Directly entered | 2263 | | 2263 | | | Normal | |
| **xB** | **1** | (untitled) | | ✓ | 63.46 | | | | | | | | 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) | | ✓ | 101.15 | | | | | | | | Normal | |
| **Cc1** | **1** | (untitled) | Wake | ✓ | 95.84 | ✓ | 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) | | ✓ | 49.26 | | | | | | | ✓ | Normal | |
| **Cc2** | **2** | (untitled) | Dews | ✓ | 91.58 | ✓ | Directly entered | 2150 | | 2100 | ✓ | | Normal | |
| | **3** | (untitled) | Brad/M62W | ✓ | 89.25 | ✓ | Directly entered | 2050 | | 2050 | ✓ | | Normal | |
| | **4** | (untitled) | Dews/Brad | ✓ | 88.96 | ✓ | Directly entered | 2150 | | 2100 | ✓ | | Normal | |
| | **5** | (untitled) | Leeds | ✓ | 88.65 | ✓ | 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 | |
| 52 | 1 | | | | 200.00 | ✓ | Sum of lanes | 1800 | | | ✓ | | Normal | |
| 53 | 1 | | | | 91.71 | ✓ | Sum of lanes | 1800 | | | ✓ | | Normal | |
| 54 | 1 | | | | 25.00 | ✓ | Sum of lanes | 1800 | | | ✓ | | Normal | |
| 55 | 1 | | | | 20.00 | ✓ | Sum of lanes | 1800 | | | ✓ | | 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) | | | | | | | | | | | | |
| **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) | | | | | | | | | | | | |
| **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) | | | | | | | | | | | | |
| **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) | | | | | | | | | | | |
| 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 |
| 52 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| 53 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| 54 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |
| 55 | 1 | 1 | (untitled) | | | | | | | | | | | 1800 |

## 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 | | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |
| 52 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 53 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 54 | 1 | NetworkDefault | 100 | 100 | 100 | | 0.00 | | | | | | | |
| 55 | 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 | 410 | 410 |
| | 3 | 654 | 654 |
| | 4 | 845 | 845 |
| Ac | 1 | 829 | 829 |
| | 2 | 264 | 264 |
| | 3 | 530 | 530 |
| Acf | 1 | 1093 | 1093 |
| | 2 | 530 | 530 |
| Af | 1 | 1302 | 1302 |
| | 2 | 654 | 654 |
| | 3 | 845 | 845 |
| B | 1 | 264 | 264 |
| | 2 | 354 | 354 |
| | 3 | 358 | 358 |
| | 4 | 349 | 349 |
| Bc | 1 | 761 | 761 |
| | 2 | 1003 | 1003 |
| | 3 | 939 | 939 |
| Bcf | 1 | 1721 | 1721 |
| | 2 | 761 | 761 |
| | 3 | 1003 | 1003 |
| | 4 | 939 | 939 |
| Bf | 1 | 618 | 618 |
| | 2 | 707 | 707 |
| C | 1 | 465 | 465 |
| | 2 | 399 | 399 |
| | 3 | 143 | 143 |
| Cf | 1 | 465 | 465 |
| | 2 | 542 | 542 |
| D | 1 | 393 | 393 |
| | 2 | 446 | 446 |
| | 3 | 459 | 459 |
| Dc | 1 | 733 | 733 |
| | 2 | 888 | 888 |
| | 3 | 271 | 271 |
| | 4 | 492 | 492 |
| Dcf | 1 | 1196 | 1196 |
| | 2 | 1454 | 1454 |
| | 3 | 888 | 888 |
| | 4 | 271 | 271 |
| | 5 | 492 | 492 |
| Df | 1 | 827 | 827 |
| | 2 | 459 | 459 |
| Dxp | 1 | 1196 | 1196 |
| | 2 | 721 | 721 |
| Ec | 1 | 693 | 693 |
| | 2 | 647 | 647 |
| | 3 | 607 | 607 |
| | 4 | 370 | 370 |
| Ecf | 1 | 826 | 826 |
| | 2 | 1188 | 1188 |
| | 3 | 647 | 647 |
| | 4 | 1021 | 1021 |

| | | | |
|---|---|---|---|
| **Ef** | **1** | 798 | 798 |
| | **2** | 584 | 584 |
| **Exp** | **1** | 826 | 826 |
| | **2** | 495 | 495 |
| **F** | **1** | 219 | 219 |
| | **2** | 269 | 269 |
| | **3** | 443 | 443 |
| **Fc** | **1** | 742 | 742 |
| | **2** | 698 | 698 |
| | **3** | 876 | 876 |
| **Ff** | **1** | 488 | 488 |
| | **2** | 443 | 443 |
| **G** | **1** | 296 | 296 |
| | **2** | 333 | 333 |
| **Gf** | **1** | 292 | 292 |
| | **2** | 292 | 292 |
| **xA** | **1** | 871 | 871 |
| | **2** | 752 | 752 |
| **xB** | **1** | 1721 | 1721 |
| **xC** | **1** | 685 | 685 |
| | **2** | 678 | 678 |
| **xD** | **1** | 1196 | 1196 |
| | **2** | 721 | 721 |
| **xE** | **1** | 826 | 826 |
| | **2** | 495 | 495 |
| **xF** | **1** | 799 | 799 |
| **Cc1** | **1** | 734 | 734 |
| **E1** | **1** | 292 | 292 |
| | **2** | 506 | 506 |
| **Gf1** | **1** | 45 | 45 |
| **Cc2** | **2** | 1104 | 1104 |
| | **3** | 694 | 694 |
| | **4** | 1147 | 1147 |
| | **5** | 349 | 349 |
| **E2** | **3** | 292 | 292 |
| | **4** | 292 | 292 |
| **TC5** | **2** | 680 | 680 |
| | **3** | 752 | 752 |
| | **4** | 0 | 0 |
| **TC9** | **1** | 1076 | 1076 |
| | **2** | 642 | 642 |
| | **3** | 621 | 621 |
| **TC35** | **1** | 191 | 191 |
| **TC36** | **1** | 551 | 551 |
| **TC37** | **1** | 107 | 107 |
| **TC38** | **1** | 107 | 107 |
| **TC39** | **2** | 680 | 680 |
| | **3** | 752 | 752 |
| **TC40** | **2** | 787 | 787 |
| | **3** | 752 | 752 |
| **TC41** | **1** | 222 | 222 |
| | **2** | 222 | 222 |
| **TC42** | **1** | 0 | 0 |
| **TC43** | **1** | 0 | 0 |
| **47** | **1** | 1363 | 1363 |
| **48** | **1** | 1007 | 1007 |
| **49** | **1** | 1094 | 1094 |
| | **2** | 1263 | 1263 |

| | | | |
|---|---|---|---|
| **50** | **1** | 1325 | 1325 |
| **51** | **1** | 931 | 931 |
| **52** | **1** | 12 | 12 |
| **53** | **1** | 18 | 18 |
| **54** | **1** | 1721 | 1721 |
| **55** | **1** | 799 | 799 |

## 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 | |
| **Dc** | **1** | 770-1 | A | |
| | **2** | 770-1 | A | |
| | **3** | 770-1 | A | |
| | **4** | 770-1 | A | |
| **Df** | **1** | 11 | B | |
| | **2** | 11 | B | |
| **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 | |

| | | | | |
|---|---|---|---|---|
| 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 | |
| 52 | 1 | 11 | A | |
| 53 | 1 | TC777-1 | J | |
| 54 | 1 | 12 | A | |
| 55 | 1 | 13 | A | |

## 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 |
| 52 | 1 | 24.00 | 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 | 6.66 | 30.00 | ✓ | Nearside | 10.60 |
| | 2 | 1 | TC42/1 | Af/2 | 6.64 | 30.00 | ✓ | Nearside | 10.60 |
| | 3 | 1 | TC42/1 | Af/3 | 6.67 | 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 | 11.96 | 40.00 | ✓ | Offside | 51.76 |
| | 2 | 1 | Bcf/3 | Bc/2 | 11.83 | 40.00 | ✓ | Offside | 48.45 |
| | 3 | 1 | Bcf/4 | Bc/3 | 11.71 | 40.00 | ✓ | Offside | 45.13 |
| 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 | 4.21 | 48.00 | ✓ | Straight | Straight Movement |
| Dc | 1 | 1 | Dcf/2 | Dc/1 | 3.80 | 48.00 | ✓ | Offside | 56.07 |
| | 2 | 1 | Dcf/3 | Dc/2 | 3.65 | 48.00 | ✓ | Offside | 52.76 |
| | 3 | 1 | Dcf/4 | Dc/3 | 3.51 | 48.00 | ✓ | Offside | 49.44 |
| | 4 | 1 | Dcf/5 | Dc/4 | 3.36 | 48.00 | ✓ | Offside | 46.13 |
| 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 | Cc2/3 | Dcf/3 | 5.15 | 48.00 | ✓ | Straight | Straight Movement |
| | 4 | 1 | C/2 | Dcf/4 | 5.00 | 48.00 | ✓ | Nearside | 58.86 |
| | 5 | 1 | Cc2/5 | Dcf/5 | 5.02 | 48.00 | ✓ | Straight | Straight Movement |
| 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/4 | Ec/4 | 3.44 | 48.00 | ✓ | Offside | 67.06 |
| 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 | 3.78 | 48.00 | ✓ | Offside | 66.17 |
| 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** | F/1 | xA/2 | 17.25 | 48.00 | ✓ | Straight | Straight Movement |
| **xB** | **1** | **1** | 54/1 | xB/1 | 7.61 | 30.00 | ✓ | Nearside | 42.50 |
| **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** | 55/1 | xF/1 | 12.14 | 30.00 | ✓ | Nearside | 95.81 |
| **Cc1** | **1** | **1** | B/1 | Cc1/1 | 8.63 | 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/4 | Gf1/1 | 3.69 | 48.00 | ✓ | Offside | 25.08 |
| **Cc2** | **2** | **1** | B/1 | Cc2/2 | 8.24 | 40.00 | ✓ | Straight | Straight Movement |
| | **3** | **1** | Bc/3 | Cc2/3 | 5.95 | 54.00 | ✓ | Straight | Straight Movement |
| | **4** | **1** | Bc/3 | Cc2/4 | 5.93 | 54.00 | ✓ | Straight | Straight Movement |
| | **5** | **1** | Bc/3 | Cc2/5 | 5.91 | 54.00 | ✓ | Offside | 97.08 |
| **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 |
| **53** | **1** | **1** | 49/1 | 53/1 | 11.01 | 30.00 | ✓ | Straight | Straight Movement |
| **54** | **1** | **1** | Bcf/1 | 54/1 | 3.00 | 30.00 | ✓ | Nearside | 25.03 |
| **55** | **1** | **1** | Ec/1 | 55/1 | 2.40 | 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 | 6.66 | 30.00 | ✓ | Straight | Straight Movement |
| | **2** | **2** | TC9/2 | Af/2 | 6.64 | 30.00 | ✓ | Straight | Straight Movement |
| | **3** | **2** | TC9/3 | Af/3 | 6.67 | 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 |
| **D** | **1** | **2** | 52/1 | D/1 | 4.13 | 48.00 | ✓ | Straight | Straight Movement |
| | **2** | **2** | 52/1 | D/2 | 4.13 | 48.00 | ✓ | Straight | Straight Movement |
| | **3** | **2** | 52/1 | D/3 | 4.21 | 48.00 | ✓ | Straight | Straight Movement |
| **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** | C/2 | Dcf/3 | 5.15 | 48.00 | ✓ | Nearside | 58.86 |
| | **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 |
| **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 | 3.78 | 48.00 | ✓ | Nearside | 49.99 |
| **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/2 | 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 |
| **Cc1** | **1** | **2** | Bc/1 | Cc1/1 | 6.39 | 54.00 | ✓ | Straight | Straight Movement |
| **Cc2** | **2** | **2** | Bc/2 | Cc2/2 | 6.11 | 54.00 | ✓ | Straight | Straight Movement |
| | **3** | **2** | B/3 | Cc2/3 | 8.03 | 40.00 | ✓ | Straight | Straight Movement |
| | **4** | **2** | B/2 | Cc2/4 | 8.01 | 40.00 | ✓ | Straight | Straight Movement |
| | **5** | **2** | B/4 | Cc2/5 | 7.98 | 40.00 | ✓ | Straight | Straight Movement |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 55 | 1 | 2 | E1/1 | 55/1 | 2.40 | 30.00 | ✓ | Nearside | 30.78 |
| Acf | 1 | 3 | Fc/2 | Acf/1 | 5.22 | 48.00 | ✓ | Straight | Straight Movement |
| Af | 1 | 3 | TC41/1 | Af/1 | 6.66 | 30.00 | ✓ | Offside | 6.19 |
| | 2 | 3 | TC41/2 | Af/2 | 6.64 | 30.00 | ✓ | Offside | 6.00 |
| | 3 | 3 | TC41/2 | Af/3 | 6.67 | 30.00 | ✓ | Offside | 6.00 |
| Bcf | 2 | 3 | Ac/3 | Bcf/2 | 3.99 | 57.00 | ✓ | Offside | 86.42 |
| Dcf | 3 | 3 | Cc2/4 | Dcf/3 | 8.23 | 30.00 | ✓ | Straight | Straight Movement |
| Ecf | 4 | 3 | D/2 | Ecf/4 | 6.04 | 30.00 | ✓ | Nearside | 46.68 |
| xA | 2 | 3 | Fc/1 | xA/2 | 17.25 | 48.00 | ✓ | Straight | Straight Movement |
| Cc2 | 2 | 3 | B/2 | Cc2/2 | 8.24 | 40.00 | ✓ | Straight | Straight Movement |
| | 4 | 3 | Bc/2 | Cc2/4 | 5.93 | 54.00 | ✓ | Straight | Straight Movement |
| Af | 1 | 4 | 53/1 | Af/1 | 6.66 | 30.00 | ✓ | Straight | Straight Movement |
| | 2 | 4 | 53/1 | Af/2 | 6.64 | 30.00 | ✓ | Straight | Straight Movement |
| | 3 | 4 | 53/1 | Af/3 | 6.67 | 30.00 | ✓ | Straight | Straight Movement |
| Cc2 | 2 | 4 | Bc/1 | Cc2/2 | 6.11 | 54.00 | ✓ | 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 |
| 18 | (untitled) | | 12 | | Farside | 3.00 | 2.00 | 5.40 |
| 19 | (untitled) | | 13 | | Farside | 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 | |
| 18 | 12 | B | |
| 19 | 13 | B | |

## 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, 52/1 | 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 |
|---|---|---|---|---|---|---|---|
| | 24 | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 25 | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Disabled | |
| | 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 | |
| | 42 | | 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 | |
| | 43 | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Disabled | |
| | 44 | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | 45 | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | 68 | | E28 | G28 | Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | 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 | |
| | 96 | | A28 | C28 | 50/1, Bf/1, B/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | 98 | | G28 | E28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| | 99 | I3 | C28 | B28 | Df/2, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1 | Normal | |
| | 100 | | E28 | B28 | Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1 | Fixed | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **101** | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| **102** | | A28 | C28 | 50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **103** | | F28 | B28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Fixed | |
| **104** | I2 | C28 | G28 | Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| **105** | | D28 | H28 | 51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1 | Normal | |
| **106** | | G28 | C28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| **107** | | A28 | B28 | 50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1 | Normal | |
| **108** | | B28 | G28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| **109** | I3 | C28 | G28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| **110** | | E28 | G28 | Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| **111** | | B28 | G28 | 48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| **112** | | F28 | G28 | TC36/1, TC37/1, TC38/1, TC40/2 | 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 | |
| **117** | | H28 | H28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| **122** | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **123** | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **124** | | 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 | |
| **126** | | 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 | |
| **127** | | 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 | |
| **128** | | H28 | C28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **129** | | F28 | C28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **130** | | G28 | C28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Fixed | |
| **131** | | G28 | E28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| **132** | | H28 | C28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **133** | | H28 | E28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **135** | | H28 | E28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| **136** | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, 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 | |
| **139** | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **141** | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | 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 | |
| **145** | | H28 | H28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| **149** | I3 | C28 | B28 | Df/2, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1 | Fixed | |
| **150** | | E28 | B28 | Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1 | Normal | |
| **152** | | H28 | B28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| **153** | | F28 | B28 | TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| **155** | | 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 | |
| **156** | | C28 | G28 | Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| **157** | | H28 | B28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| **159** | | B28 | E28 | 48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| **160** | | B28 | G28 | 48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| **161** | | B28 | F28 | 48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| **162** | | B28 | H28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| **164** | | B28 | B28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/1, xC/1, 47/1 | Normal | |
| **165** | | B28 | B28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/2, xC/2, 47/1 | Normal | |
| **166** | | B28 | C28 | 48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1 | Normal | |
| **167** | | B28 | E28 | 48/1, Cf/1, C/1, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **169** | | G28 | B28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| **170** | | G28 | B28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| **171** | | G28 | H28 | 49/1, TC9/1, TC43/1 | Normal | |
| **173** | | F28 | E28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| **174** | | F28 | F28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| **175** | | G28 | C28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **176** | | G28 | E28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **178** | | G28 | E28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 179 | | F28 | E28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| | 181 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 182 | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 183 | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | 184 | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| | 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 | Fixed | |
| | 187 | | A28 | E28 | 50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| | 188 | | C28 | H28 | 52/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | 190 | | C28 | C28 | 52/1, 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 | |
| | 192 | | C28 | C28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 193 | | C28 | C28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 194 | | C28 | C28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | 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 | |
| | 197 | | D28 | G28 | 51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | 198 | | G28 | D28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | 199 | | D28 | B28 | 51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Normal | |
| | 200 | | D28 | B28 | 51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Normal | |
| | 201 | | 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 | |
| | 202 | | G28 | B28 | 49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Disabled | |
| | 203 | | G28 | C28 | 49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | 204 | | 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 | |
| | 205 | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| | 206 | | C28 | D28 | Df/1, D/1, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | 207 | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | 208 | | G28 | C28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Disabled | |
| | 209 | | G28 | E28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Disabled | |
| | 210 | | A28 | G28 | 50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 211 | | A28 | H28 | 50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| | 212 | | H28 | D28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | 213 | | A28 | E28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| | 214 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | 215 | | G28 | F28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 216 | | G28 | G28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| 1 | 217 | | G28 | G28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 218 | | A28 | G28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| | 219 | | A28 | F28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 220 | | H28 | F28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Normal | |
| | 221 | | A28 | A28 | 50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| | 223 | | A28 | E28 | 50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| | 225 | | D28 | E28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| | 227 | | H28 | E28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| | 228 | | C28 | A28 | 52/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Disabled | |
| | 229 | | C28 | A28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Disabled | |
| | 230 | | G28 | G28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Normal | |
| | 231 | | A28 | G28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Fixed | |
| | 232 | | A28 | H28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | 233 | | B28 | H28 | 48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | 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 | Fixed | |
| | 236 | | E28 | H28 | Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| | 238 | | D28 | B28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Fixed | |
| | 239 | | D28 | B28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1 | Fixed | |
| | 240 | | G28 | C28 | 49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Fixed | |
| | 241 | | 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 | |
| | 242 | | H28 | C28 | TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| | 244 | | G28 | E28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **245** | | C28 | C28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **246** | | E28 | C28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **247** | | E28 | E28 | Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| **248** | | D28 | C28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Fixed | |
| **249** | | H28 | C28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **250** | | H28 | E28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **251** | | H28 | E28 | TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Normal | |
| **256** | | 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 | |
| **257** | | C28 | H28 | Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| **259** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **261** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **262** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **263** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **264** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **265** | | C28 | C28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **266** | | C28 | B28 | Df/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1 | Fixed | |
| **267** | | C28 | B28 | Df/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1 | Fixed | |
| **268** | | F28 | C28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **269** | | F28 | E28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Normal | |
| **271** | | F28 | E28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| **272** | | F28 | H28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| **273** | | F28 | H28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| **274** | | F28 | C28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1 | Disabled | |
| **275** | | F28 | C28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Disabled | |
| **276** | | F28 | E28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Fixed | |
| **277** | | C28 | E28 | 52/1, D/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| **279** | | C28 | E28 | 52/1, D/1, Ecf/2, Exp/2, xE/2 | Disabled | |
| **280** | | C28 | G28 | 52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Fixed | |
| **281** | | C28 | F28 | 52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Fixed | |
| **282** | | C28 | G28 | 52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3 | Disabled | |
| **283** | | C28 | H28 | 52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1 | Normal | |
| **284** | | C28 | G28 | 52/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Disabled | |
| **285** | | C28 | H28 | 52/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1 | Normal | |
| **287** | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **289** | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **290** | | C28 | C28 | 52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Normal | |
| **291** | | C28 | B28 | 52/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1 | Disabled | |
| **292** | | C28 | B28 | 52/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1 | Disabled | |
| **293** | | C28 | G28 | 52/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3 | Disabled | |
| **294** | | C28 | C28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **295** | | C28 | C28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2 | Normal | |
| **296** | | C28 | B28 | 52/1, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1 | Fixed | |
| **297** | | C28 | B28 | 52/1, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1 | Disabled | |
| **299** | | G28 | C28 | 49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1 | Disabled | |
| **300** | | G28 | B28 | 49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1 | Fixed | |
| **301** | | G28 | C28 | 49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2 | Disabled | |
| **302** | | G28 | E28 | 49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1 | Fixed | |
| **304** | | G28 | E28 | 49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Disabled | |
| **306** | | G28 | E28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Disabled | |
| **308** | | G28 | E28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2 | Disabled | |
| **309** | | G28 | G28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2 | Normal | |
| **310** | | G28 | F28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1 | Fixed | |
| **311** | | G28 | A28 | 49/1, TC9/1, Af/1, A/1, Bcf/1, 54/1, xB/1 | Normal | |
| **312** | | G28 | A28 | 49/1, 53/1, Af/1, A/1, Bcf/1, 54/1, xB/1 | Fixed | |
| **313** | | A28 | A28 | 50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| **314** | | B28 | A28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Fixed | |
| **315** | | B28 | A28 | 48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| **316** | | C28 | A28 | Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Fixed | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **317** | | C28 | A28 | Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| | **318** | | C28 | A28 | Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Fixed | |
| | **319** | | C28 | A28 | Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Fixed | |
| | **320** | | C28 | A28 | 52/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Disabled | |
| | **321** | | C28 | A28 | 52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Disabled | |
| | **322** | | E28 | A28 | Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Fixed | |
| | **323** | | E28 | A28 | Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| | **324** | | D28 | A28 | 51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1 | Normal | |
| | **325** | | H28 | A28 | TC42/1, Af/1, A/1, Bcf/1, 54/1, xB/1 | Normal | |
| | **326** | | F28 | A28 | TC36/1, TC41/1, Af/1, A/1, Bcf/1, 54/1, xB/1 | Normal | |
| | **327** | | G28 | D28 | 49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | **328** | | G28 | D28 | 49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **329** | | G28 | D28 | 49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | **330** | | G28 | D28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Disabled | |
| | **331** | | G28 | D28 | 49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Disabled | |
| | **332** | | A28 | D28 | 50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **333** | | A28 | D28 | 50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | **334** | | B28 | D28 | 48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **335** | | C28 | D28 | 52/1, D/1, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | **336** | | E28 | D28 | Ef/1, E1/1, 55/1, xF/1 | Normal | |
| | **337** | | D28 | D28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **338** | | D28 | D28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **339** | | D28 | D28 | 51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **340** | | H28 | D28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **341** | | H28 | D28 | TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |
| | **342** | | F28 | D28 | TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Disabled | |
| | **343** | | F28 | D28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Fixed | |
| | **344** | | F28 | D28 | TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1 | Normal | |

# Signal Timings

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

## Controller Stream 11

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| **11** | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 11 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| **11** | Unspecified | | | | | | Absolute |

## Controller Stream 11 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| **11** | ✓ | ✓ | Offsets And Green Splits | | |

## Phases

| Controller Stream | Phase | Name | Minimum green (s) | Maximum green (s) | Relative start displacement (s) | Relative end displacement (s) | Type |
|---|---|---|---|---|---|---|---|
| **11** | **(ALL)** | (untitled) | 7 | 300 | 0 | 0 | Traffic |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| **11** | **1** | A | 1 |
| | **2** | B | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 11 | 1 | (untitled) | Single | 1, 2 | 7, 55 |

## Intergreen Matrix for Controller Stream 11

| | | To | |
|---|---|---|---|
| | | A | B |
| From | A | | 5 |
| | B | 5 | |

## Banned Stage transitions for Controller Stream 11

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

## Interstage Matrix for Controller Stream 11

| | | 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) |
|---|---|---|---|---|---|---|---|---|---|
| 11 | 1 | ✓ | 1 | A | 0 | 7 | 7 | 1 | 7 |
| | 2 | ✓ | 2 | B | 12 | 55 | 43 | 1 | 7 |

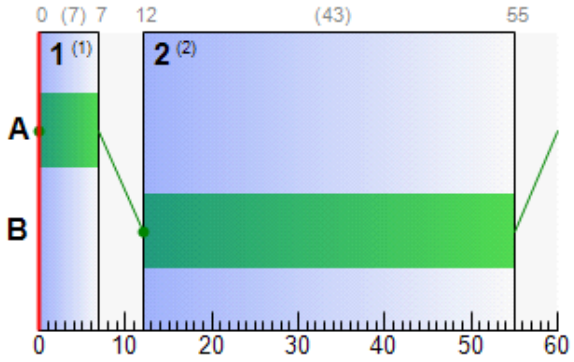
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 11 | A | 1 | ✓ | 0 | 7 | 7 |
| | B | 1 | ✓ | 12 | 55 | 43 |

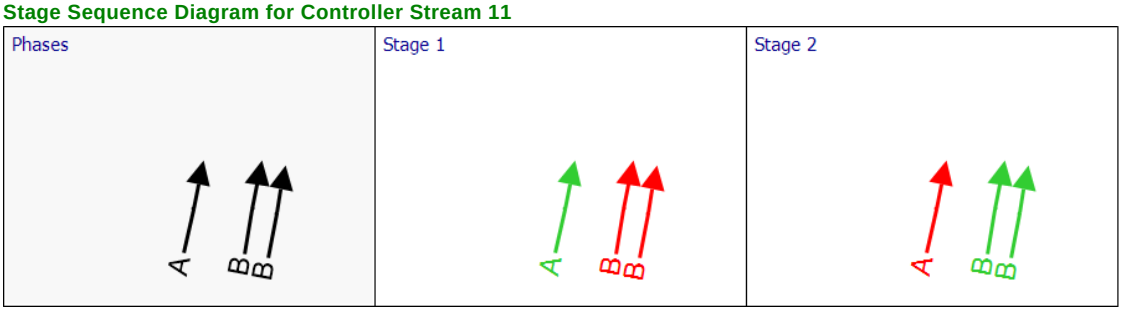
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| Df | 1 | 3-2 | 11 | B | 12 | 55 | 43 |
| Df | 2 | 3-2 | 11 | B | 12 | 55 | 43 |
| 52 | 1 | 3-2 | 11 | A | 0 | 7 | 7 |

### Phase Timings Diagram for Controller Stream 11



### Stage Sequence Diagram for Controller Stream 11




## Controller Stream 12

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 12 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 12 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 12 | Unspecified | | | | | | Absolute |

## Controller Stream 12 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 12 | ✓ | ✓ | 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) |
|---|---|---|---|---|---|---|---|---|
| 12 | A | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | B | (untitled) | 6 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 12 | 1 | A | 1 |
| | 2 | B | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 12 | 1 | (untitled) | Single | 1, 2 | 55, 6 |

## Intergreen Matrix for Controller Stream 12

| | | To | |
|---|---|---|---|
| | | A | B |
| From | A | | 5 |
| | B | 5 | |

## Banned Stage transitions for Controller Stream 12

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

## Interstage Matrix for Controller Stream 12

| | | 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) |
|---|---|---|---|---|---|---|---|---|---|
| 12 | 1 | ✓ | 1 | A | 11 | 55 | 44 | 1 | 7 |
| | 2 | ✓ | 2 | B | 0 | 6 | 6 | 1 | 6 |

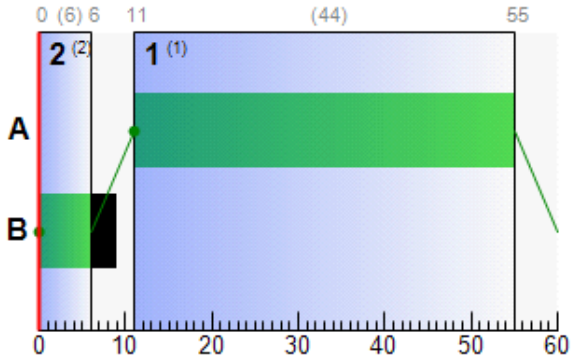
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 12 | A | 1 | ✓ | 11 | 55 | 44 |
| | B | 1 | ✓ | 0 | 6 | 6 |

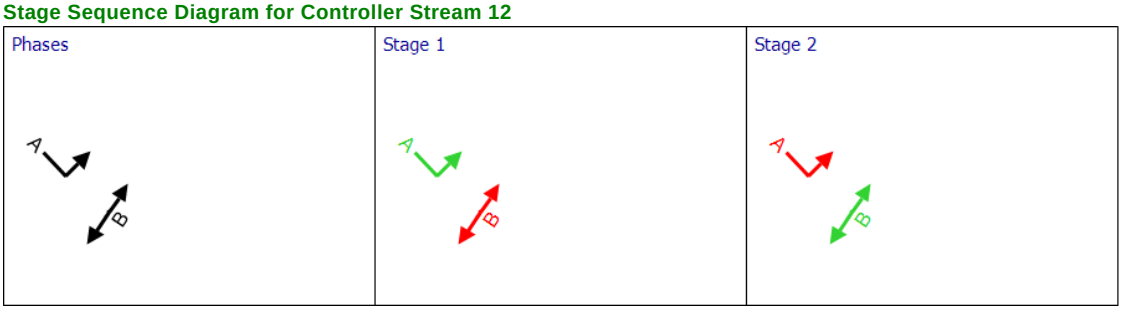
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| 54 | 1 | 6 | 12 | A | 11 | 55 | 44 |

### Phase Timings Diagram for Controller Stream 12




### Stage Sequence Diagram for Controller Stream 12




## Controller Stream 13

| Controller Stream | Name | Description | Use sequence | Cycle time source | Cycle time (s) |
|---|---|---|---|---|---|
| 13 | (untitled) | | 1 | NetworkDefault | 60 |

## Controller Stream 13 - Properties

| Controller Stream | Manufacturer name | Type | Model number | (Telephone) Line Number | Site number | Grid reference | Gaining delay type |
|---|---|---|---|---|---|---|---|
| 13 | Unspecified | | | | | | Absolute |

## Controller Stream 13 - Optimisation

| Controller Stream | Allow offset optimisation | Allow green split optimisation | Optimisation level | Auto redistribute | Enable stage constraint |
|---|---|---|---|---|---|
| 13 | ✓ | ✓ | 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) |
|---|---|---|---|---|---|---|---|---|
| 13 | A | (untitled) | 7 | 300 | 0 | 0 | Traffic | |
| | B | (untitled) | 6 | 300 | 0 | 0 | Pedestrian | 3 |

## Library Stages

| Controller Stream | Library Stage | Phases in stage | User stage minimum (s) |
|---|---|---|---|
| 13 | 1 | A | 1 |
| | 2 | B | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| 13 | 1 | (untitled) | Single | 1, 2 | 55, 6 |

## Intergreen Matrix for Controller Stream 13

| | | To | |
|---|---|---|---|
| | | A | B |
| From | A | | 5 |
| | B | 5 | |

## Banned Stage transitions for Controller Stream 13

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

## Interstage Matrix for Controller Stream 13

| | | 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) |
|---|---|---|---|---|---|---|---|---|---|
| 13 | 1 | ✓ | 1 | A | 11 | 55 | 44 | 1 | 7 |
| | 2 | ✓ | 2 | B | 0 | 6 | 6 | 1 | 6 |

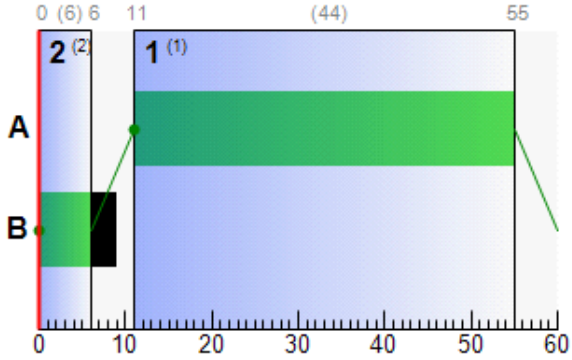
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 13 | A | 1 | ✓ | 11 | 55 | 44 |
| | B | 1 | ✓ | 0 | 6 | 6 |

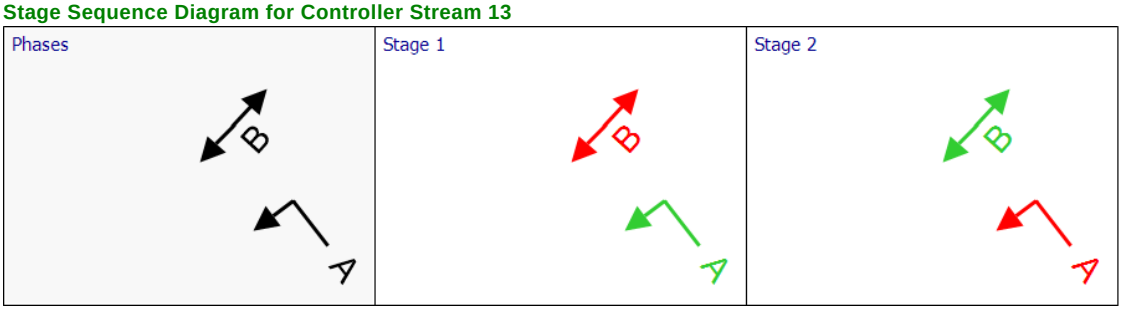
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| 55 | 1 | 4 | 13 | A | 11 | 55 | 44 |

### Phase Timings Diagram for Controller Stream 13



### Stage Sequence Diagram for Controller Stream 13




## 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 | 29, 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 | 29 | 33 | 1 | 7 |
| | 2 | ✓ | 2 | B | 40 | 51 | 11 | 1 | 7 |

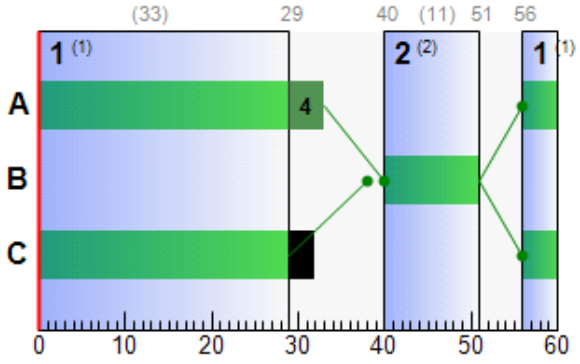
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 769-1 | A | 1 | ✓ | 56 | 33 | 37 |
| | B | 1 | ✓ | 40 | 51 | 11 |
| | C | 1 | ✓ | 56 | 29 | 33 |

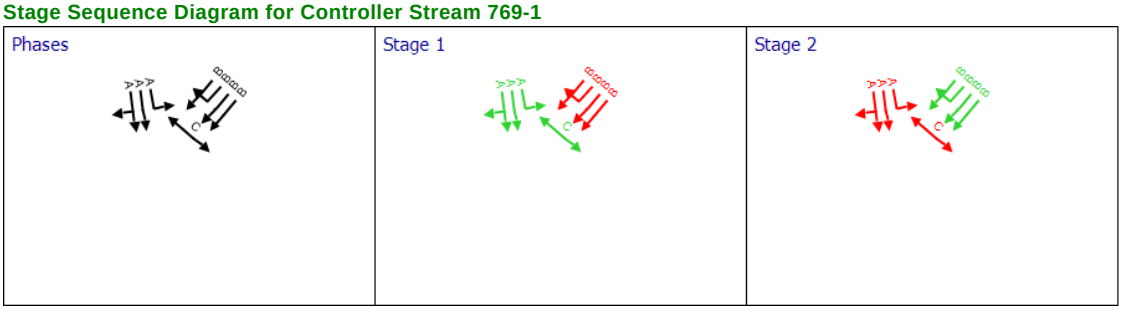
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| B | 1 | 1 | 769-1 | B | 40 | 51 | 11 |
| B | 2 | 1 | 769-1 | B | 40 | 51 | 11 |
| B | 3 | 1 | 769-1 | B | 40 | 51 | 11 |
| B | 4 | 1 | 769-1 | B | 40 | 51 | 11 |
| Bc | 1 | 1 | 769-1 | A | 56 | 33 | 37 |
| Bc | 2 | 1 | 769-1 | A | 56 | 33 | 37 |
| Bc | 3 | 1 | 769-1 | A | 56 | 33 | 37 |

### 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) | 10 | 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 | 11 |
| | 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, 26 | | |
| | 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 | 12 | | | | | | | |
| | 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 | 41 | 5 | 24 | 1 | 1 |
| | 2 | ✓ | 5 | F,G,J,K | 19 | 26 | 7 | 1 | 7 |

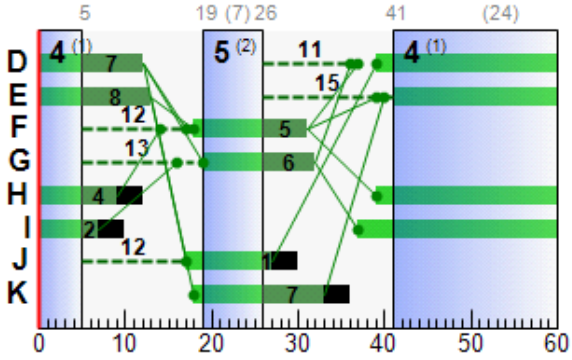
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 769-2 | D | 1 | ✓ | 39 | 12 | 33 |
| | E | 1 | ✓ | 41 | 13 | 32 |
| | F | 1 | ✓ | 18 | 31 | 13 |
| | G | 1 | ✓ | 19 | 32 | 13 |
| | H | 1 | ✓ | 39 | 9 | 30 |
| | I | 1 | ✓ | 37 | 7 | 30 |
| | J | 1 | ✓ | 17 | 27 | 10 |
| | K | 1 | ✓ | 18 | 33 | 15 |

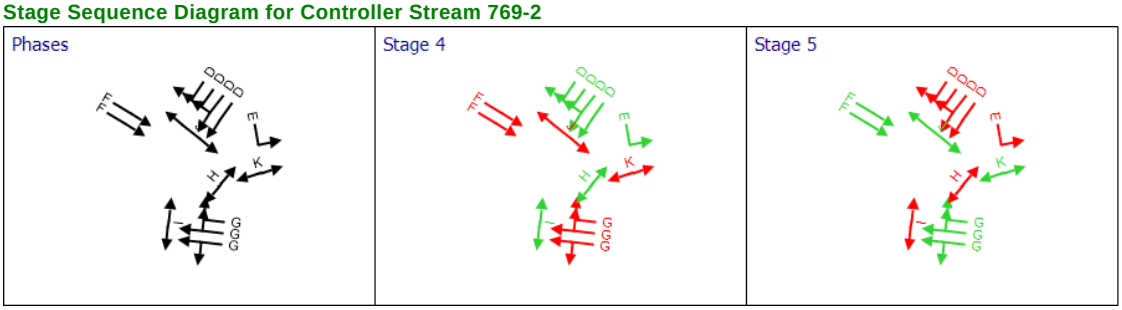
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| C | 1 | 2 | 769-2 | G | 19 | 32 | 13 |
| C | 2 | 2 | 769-2 | G | 19 | 32 | 13 |
| C | 3 | 2 | 769-2 | G | 19 | 32 | 13 |
| G | 1 | 2 | 769-2 | F | 18 | 31 | 13 |
| G | 2 | 2 | 769-2 | F | 18 | 31 | 13 |
| Cc1 | 1 | 2 | 769-2 | E | 41 | 13 | 32 |
| Cc2 | 2 | 2 | 769-2 | D | 39 | 12 | 33 |
| Cc2 | 3 | 2 | 769-2 | D | 39 | 12 | 33 |
| Cc2 | 4 | 2 | 769-2 | D | 39 | 12 | 33 |
| Cc2 | 5 | 2 | 769-2 | D | 39 | 12 | 33 |

### 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) | 5 | 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 | 2 |

## 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 | | 7 | |

## 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 | 7 |
| | 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 | 5 |
| | 2 | ✓ | 2 | B | 59 | 18 | 19 | 1 | 7 |

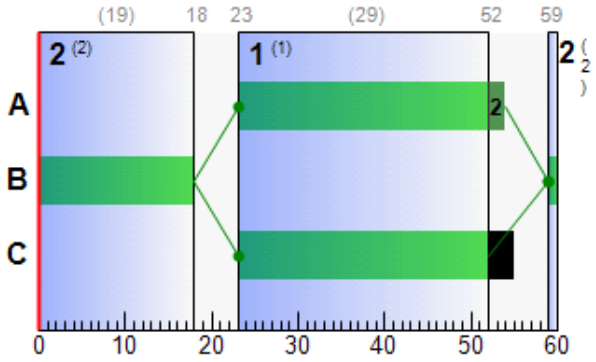
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-1 | A | 1 | ✓ | 23 | 54 | 31 |
| | B | 1 | ✓ | 59 | 18 | 19 |
| | C | 1 | ✓ | 23 | 52 | 29 |

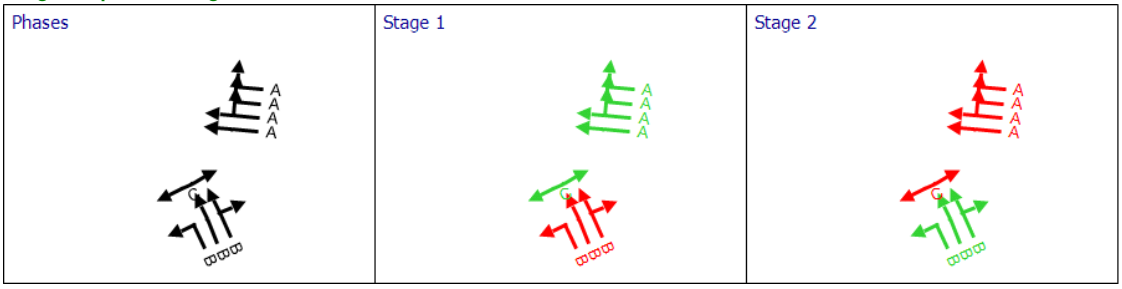
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| D | 1 | 3 | 770-1 | B | 59 | 18 | 19 |
| D | 2 | 3 | 770-1 | B | 59 | 18 | 19 |
| D | 3 | 3 | 770-1 | B | 59 | 18 | 19 |
| Dc | 1 | 3 | 770-1 | A | 23 | 54 | 31 |
| Dc | 2 | 3 | 770-1 | A | 23 | 54 | 31 |
| Dc | 3 | 3 | 770-1 | A | 23 | 54 | 31 |
| Dc | 4 | 3 | 770-1 | A | 23 | 54 | 31 |

### 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 |

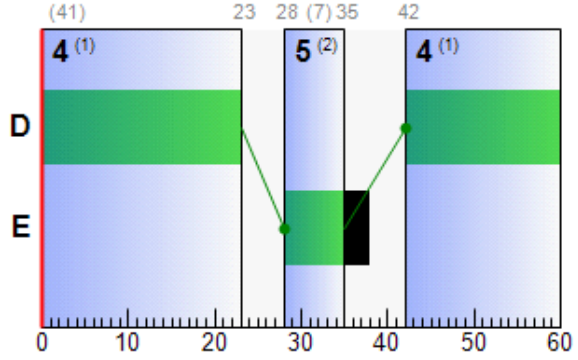
## Resultant Phase Green Periods

| 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 |

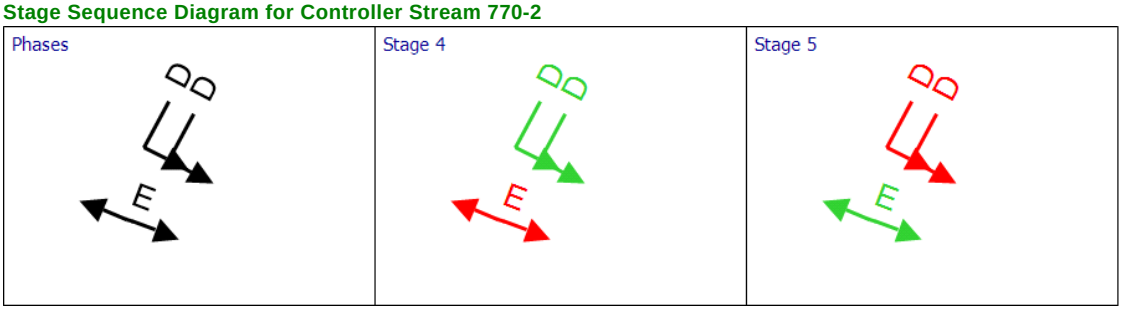
## Traffic Stream Green Times

| 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 |

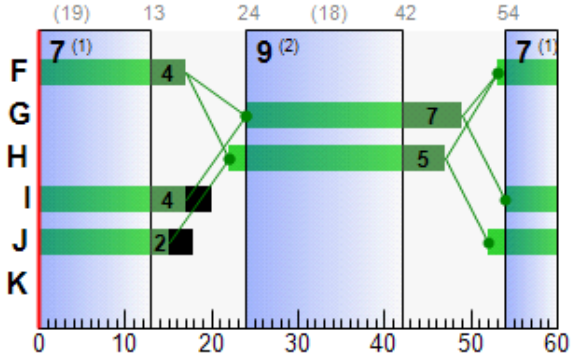
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| 770-3 | F | 1 | ✓ | 53 | 17 | 24 |
| | G | 1 | ✓ | 24 | 49 | 25 |
| | H | 1 | ✓ | 22 | 47 | 25 |
| | I | 1 | ✓ | 54 | 17 | 23 |
| | J | 1 | ✓ | 52 | 15 | 23 |

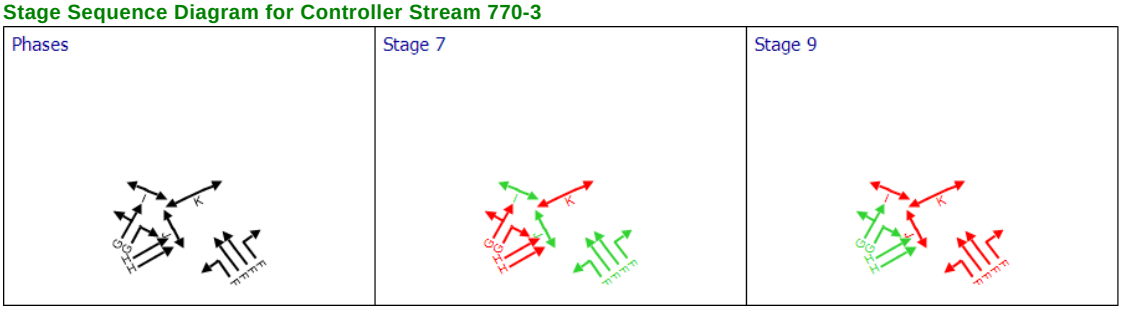
## Traffic Stream Green Times

| 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 |

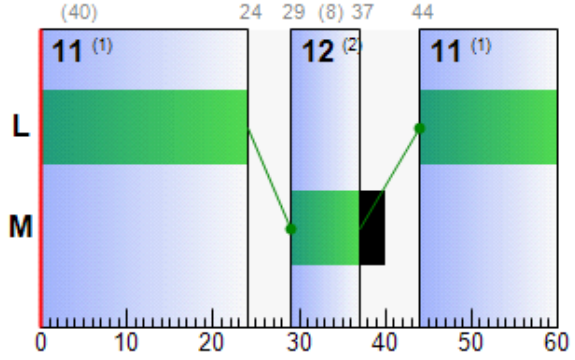
## Resultant Phase Green Periods

| 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 |

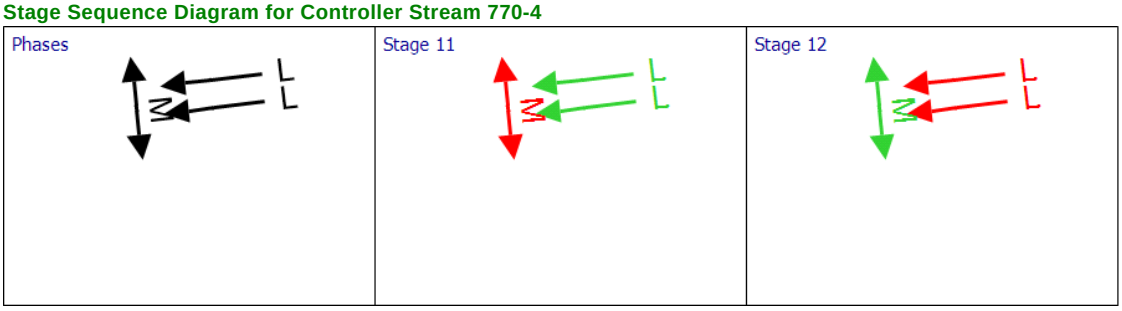
## Traffic Stream Green Times

| 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 |

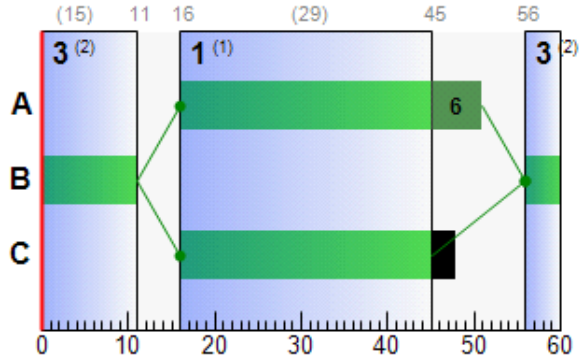
## Resultant Phase Green Periods

| 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 |

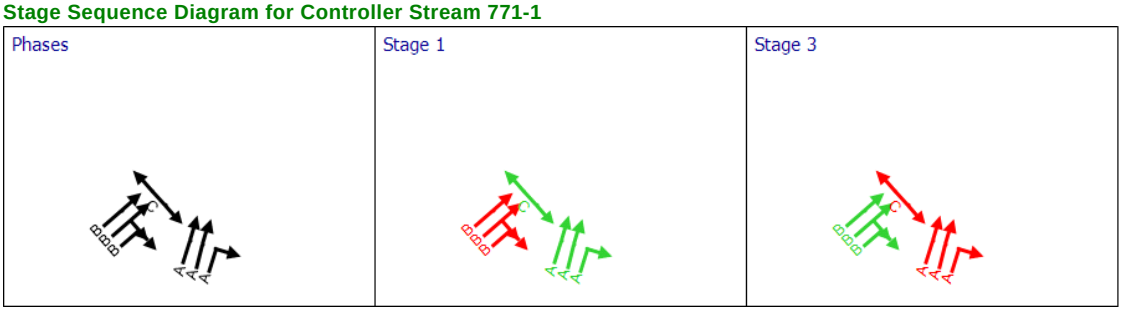
## Traffic Stream Green Times

| 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 |

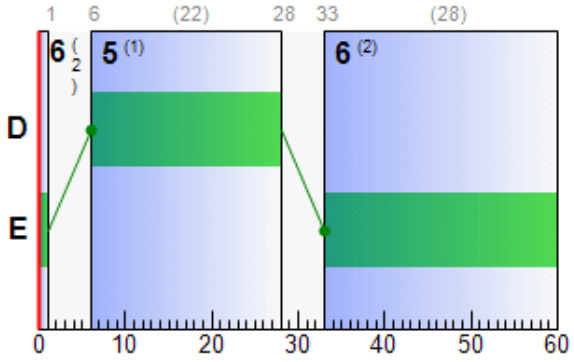
## Resultant Phase Green Periods

| 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 |

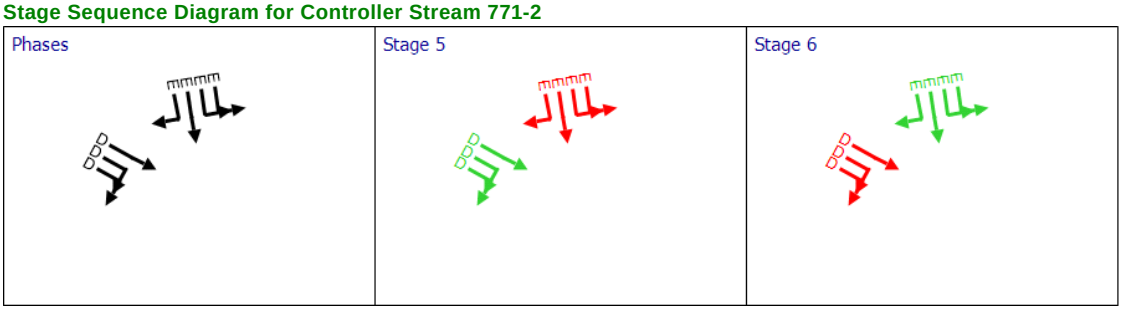
## Traffic Stream Green Times

| 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 |
| | J | (untitled) | 7 | 300 | 0 | 0 | Traffic | |

## 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 |
| | 7 | A, F, J | 1 |

## Stage Sequences

| Controller Stream | Sequence | Name | Multiple cycling | Stage IDs | Stage ends |
|---|---|---|---|---|---|
| TC777-1 | 1 | (untitled) | Single | 1, 5, 7 | 2, 17, 30 |

## Intergreen Matrix for Controller Stream TC777-1

| | | To | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I | J |
| From | A | | | | 5 | 5 | | | 7 | 5 | |
| | B | | | 5 | 5 | 5 | | 5 | | | 5 |
| | C | | 6 | | 5 | 5 | | | | | 6 |
| | D | 5 | 5 | 6 | | | 5 | | | | 5 |
| | E | 5 | 5 | 5 | | | | | 8 | | 5 |
| | F | | | | 8 | | | | | | |
| | G | | 16 | | | | | | | | 16 |
| | H | 6 | | | | 6 | | | | | |
| | I | 5 | | | | | | | | | |
| | J | | 5 | 5 | 5 | 5 | | 5 | | | |

## Banned Stage transitions for Controller Stream TC777-1

| | | To | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| From | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| | 6 | | | | | | | |
| | 7 | | | | | | | |

## Interstage Matrix for Controller Stream TC777-1

| | | To | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| From | 1 | 0 | 5 | 7 | 8 | 8 | 5 | 5 |
| | 2 | 16 | 0 | 16 | 8 | 8 | 5 | 16 |
| | 3 | 6 | 6 | 0 | 8 | 8 | 6 | 6 |
| | 4 | 5 | 6 | 8 | 0 | 8 | 5 | 5 |
| | 5 | 6 | 6 | 5 | 6 | 0 | 6 | 6 |
| | 6 | 5 | 5 | 8 | 8 | 8 | 0 | 5 |
| | 7 | 5 | 5 | 7 | 8 | 8 | 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) |
|---|---|---|---|---|---|---|---|---|---|
| TC777-1 | 1 | ✓ | 1 | A,B,F | 35 | 2 | 27 | 1 | 7 |
| | 2 | ✓ | 5 | D,H,I | 10 | 17 | 7 | 1 | 7 |
| | 3 | ✓ | 7 | A,F,J | 23 | 30 | 7 | 1 | 6 |

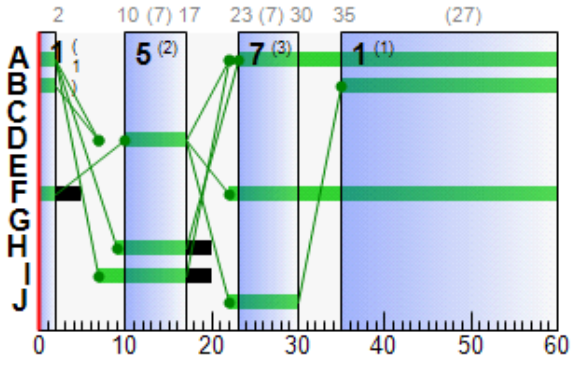
## Resultant Phase Green Periods

| Controller Stream | Phase | Green period | Is base green period | Start time (s) | End time (s) | Duration (s) |
|---|---|---|---|---|---|---|
| TC777-1 | A | 1 | ✓ | 23 | 2 | 39 |
| | B | 1 | ✓ | 35 | 2 | 27 |
| | D | 1 | ✓ | 10 | 17 | 7 |
| | F | 1 | ✓ | 22 | 2 | 40 |
| | H | 1 | ✓ | 9 | 17 | 8 |
| | I | 1 | ✓ | 7 | 17 | 10 |
| | J | 1 | ✓ | 22 | 30 | 8 |

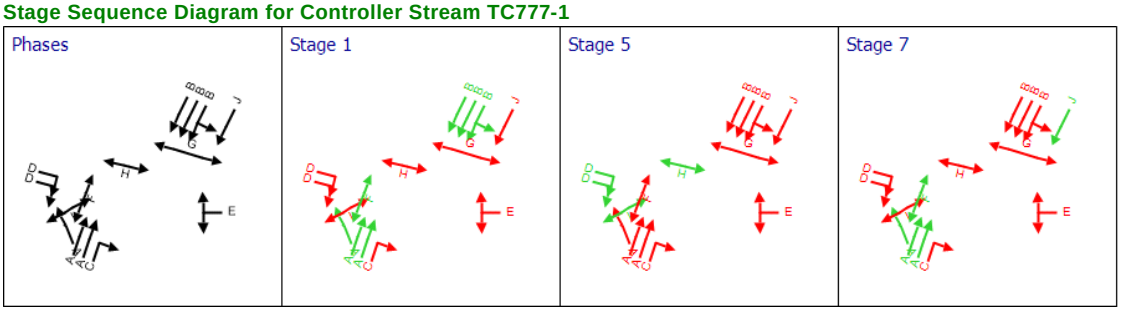
## Traffic Stream Green Times

| Arm | Traffic Stream | Traffic Node | Controller Stream | Phase | Green Period 1 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Start | End | Duration |
| TC5 | 2 | TC771-6 | TC777-1 | A | 23 | 2 | 39 |
| TC5 | 3 | TC771-6 | TC777-1 | A | 23 | 2 | 39 |
| TC5 | 4 | TC771-6 | TC777-1 | C | | | |
| TC9 | 1 | TC771-6 | TC777-1 | B | 35 | 2 | 27 |
| TC9 | 2 | TC771-6 | TC777-1 | B | 35 | 2 | 27 |
| TC9 | 3 | TC771-6 | TC777-1 | B | 35 | 2 | 27 |
| TC35 | 1 | TC771-6 | TC777-1 | A | 23 | 2 | 39 |
| TC41 | 1 | TC771-6 | TC777-1 | D | 10 | 17 | 7 |
| TC41 | 2 | TC771-6 | TC777-1 | D | 10 | 17 | 7 |
| TC42 | 1 | TC771-6 | TC777-1 | E | | | |
| 53 | 1 | TC771-6 | TC777-1 | J | 22 | 30 | 8 |

### 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 |

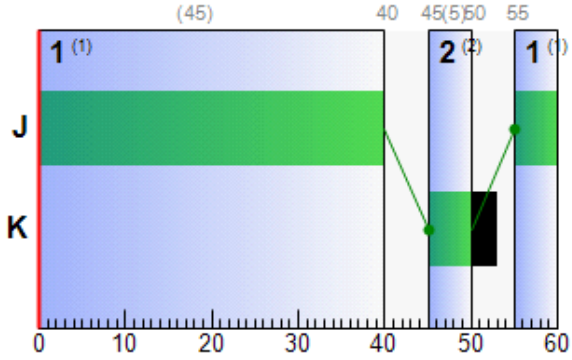
### Resultant Phase Green Periods

| 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 |

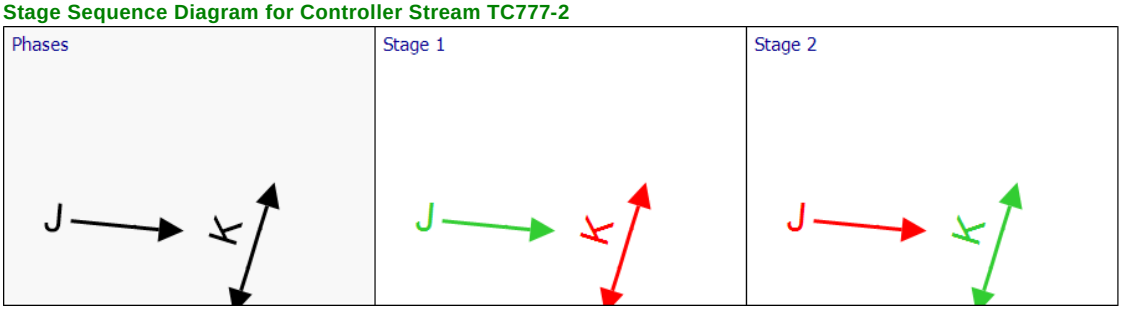
### Traffic Stream Green Times

| 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 | 814 | 2050 | 28 | 991 | 82 | 10 | 22.65 | 9.67 | 74.64 | 28.24 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | 2 | (untitled) | E | 374 | 2050 | 28 | 991 | 38 | 138 | 13.44 | 3.62 | 27.08 | 19.21 |
| | | 3 | (untitled) | E | 653 | 2050 | 28 | 991 | 66 | 37 | 9.55 | 3.27 | 23.89 | 15.45 |
| | | 4 | (untitled) | E | 846 | 2050 | 28 | 991 | 85 | 5 | 18.89 | 9.60 | 68.67 | 24.92 |
| | Ac | 1 | (untitled) | D | 830 | 2263 | 22 | 867 | 96 | -6 | 61.29 | 21.44 | 128.69 | 68.48 |
| | | 2 | (untitled) | D | 264 | 2263 | 22 | 784 | 34 | 167 | 1.89 | 2.02 | 12.60 | 11.39 |
| | | 3 | (untitled) | D | 528 | 2263 | 22 | 860 | 61 | 47 | 6.08 | 2.80 | 18.33 | 12.68 |
| | Acf | 1 | (untitled) | | 1094 | 2263 | 60 | 2263 | 48 | 86 | 0.74 | 0.23 | 1.87 | 5.96 |
| | | 2 | (untitled) | | 528 | 2263 | 60 | 2263 | 23 | 286 | 0.24 | 0.04 | 0.29 | 7.49 |
| | Af | 1 | (untitled) | | 1188 | 2050 | 60 | 2050 | 58 | 55 | 1.21 | 0.40 | 4.13 | 7.87 |
| | | 2 | (untitled) | | 653 | 2050 | 60 | 2050 | 32 | 183 | 0.41 | 0.07 | 0.77 | 7.05 |
| | | 3 | (untitled) | | 846 | 2050 | 60 | 2050 | 41 | 118 | 0.62 | 0.14 | 1.50 | 7.29 |
| | B | 1 | (untitled) | B | 265 | 2050 | 11 | 404 | 66 | 37 | 30.43 | 4.29 | 26.09 | 37.53 |
| | | 2 | (untitled) | B | 354 | 2150 | 11 | 410 | 86 | 4 | 47.66 | 7.57 | 44.78 | 54.95 |
| | | 3 | (untitled) | B | 358 | 2100 | 11 | 412 | 87 | 3 | 49.13 | 7.78 | 44.90 | 56.60 |
| | | 4 | (untitled) | B | 350 | 2050 | 11 | 410 | 85 | 5 | 46.37 | 7.51 | 42.14 | 58.66 |
| | Bc | 1 | (untitled) | A | 725 | 2050 | 37 | 1298 | 56 | 61 | 6.41 | 6.31 | 27.32 | 18.37 |
| | | 2 | (untitled) | A | 1001 | 2050 | 37 | 1294 | 77 | 16 | 8.06 | 5.55 | 24.26 | 19.89 |
| | | 3 | (untitled) | A | 939 | 2050 | 37 | 1295 | 72 | 24 | 9.13 | 16.59 | 73.34 | 20.83 |
| | Bcf | 1 | (untitled) | | 1644 | 2263 | 60 | 2263 | 73 | 24 | 2.10 | 0.96 | 8.80 | 6.43 |
| | | 2 | (untitled) | | 725 | 2263 | 60 | 2263 | 32 | 181 | 0.37 | 0.08 | 0.69 | 5.75 |
| | | 3 | (untitled) | | 1001 | 2263 | 60 | 2263 | 44 | 104 | 0.63 | 0.18 | 1.62 | 6.31 |
| | | 4 | (untitled) | | 939 | 2263 | 60 | 2263 | 41 | 117 | 0.56 | 0.15 | 1.36 | 6.89 |
| | Bf | 1 | (untitled) | | 619 | 1800 | 60 | 1800 | 34 | 162 | 0.52 | 0.09 | 0.23 | 27.86 |
| | | 2 | (untitled) | | 708 | 1800 | 60 | 1800 | 39 | 129 | 0.65 | 0.13 | 0.32 | 28.06 |
| | C | 1 | (untitled) | G | 465 | 2100 | 13 | 490 | 95 | -5 | 67.25 | 13.06 | 62.01 | 81.79 |
| | | 2 | (untitled) | G | 399 | 2200 | 13 | 513 | 78 | 16 | 33.48 | 7.30 | 34.30 | 48.16 |
| | | 3 | (untitled) | G | 143 | 2050 | 13 | 478 | 30 | 201 | 20.58 | 1.97 | 9.11 | 35.51 |
| | Cf | 1 | (untitled) | | 465 | 1965 | 60 | 1965 | 24 | 280 | 0.28 | 0.04 | 0.15 | 17.64 |
| | | 2 | (untitled) | | 542 | 1965 | 60 | 1965 | 28 | 226 | 0.35 | 0.05 | 0.21 | 17.85 |
| | D | 1 | (untitled) | B | 393 | 2050 | 19 | 683 | 58 | 56 | 28.38 | 6.16 | 64.36 | 32.50 |
| | | 2 | (untitled) | B | 446 | 1850 | 19 | 617 | 72 | 24 | 33.05 | 7.36 | 76.94 | 37.17 |
| | | 3 | (untitled) | B | 459 | 2250 | 19 | 701 | 65 | 38 | 25.52 | 6.48 | 66.38 | 29.73 |
| | Dc | 1 | (untitled) | A | 733 | 2100 | 31 | 1110 | 66 | 36 | 10.98 | 6.42 | 72.80 | 14.78 |
| | | 2 | (untitled) | A | 887 | 2100 | 31 | 1120 | 79 | 14 | 16.87 | 8.41 | 99.29 | 20.52 |
| | | 3 | (untitled) | A | 271 | 2100 | 31 | 1120 | 24 | 272 | 11.28 | 2.36 | 28.98 | 14.79 |
| | | 4 | (untitled) | A | 493 | 2100 | 31 | 1120 | 44 | 104 | 21.94 | 6.41 | 82.28 | 25.30 |
| | Dcf | 1 | (untitled) | | 1190 | 2050 | 60 | 2050 | 58 | 55 | 1.21 | 0.40 | 3.49 | 6.16 |
| | | 2 | (untitled) | | 1454 | 2100 | 60 | 1976 | 74 | 22 | 2.78 | 3.56 | 31.02 | 7.72 |
| | | 3 | (untitled) | | 887 | 2100 | 60 | 1564 | 57 | 59 | 3.44 | 5.06 | 42.44 | 8.81 |
| | | 4 | (untitled) | | 271 | 2100 | 60 | 2100 | 13 | 598 | 0.13 | 0.01 | 0.08 | 6.74 |
| | | 5 | (untitled) | | 493 | 2100 | 60 | 1908 | 26 | 248 | 0.93 | 2.41 | 20.71 | 5.95 |
| | Df | 1 | (untitled) | B | 827 | 1900 | 43 | 1393 | 59 | 52 | 5.66 | 6.86 | 19.73 | 29.66 |
| | | 2 | (untitled) | B | 459 | 2250 | 43 | 1650 | 28 | 224 | 3.10 | 2.60 | 7.49 | 27.10 |
| | Dxp | 1 | (untitled) | D | 1190 | 2050 | 41 | 1435 | 83 | 9 | 6.72 | 3.52 | 43.42 | 10.22 |
| | | 2 | (untitled) | D | 721 | 2050 | 41 | 1435 | 50 | 79 | 1.33 | 0.33 | 3.92 | 4.98 |
| | Ec | 1 | (untitled) | F | 693 | 2150 | 24 | 896 | 77 | 16 | 15.67 | 7.90 | 90.67 | 19.43 |
| | | 2 | (untitled) | F | 647 | 2263 | 24 | 943 | 69 | 31 | 14.75 | 5.79 | 68.75 | 18.38 |
| | | 3 | (untitled) | F | 607 | 2263 | 24 | 943 | 64 | 40 | 20.20 | 7.53 | 92.59 | 23.71 |
| | | 4 | (untitled) | F | 370 | 2250 | 24 | 938 | 39 | 128 | 8.34 | 2.45 | 30.64 | 11.78 |
| | Ecf | 1 | (untitled) | | 826 | 2100 | 60 | 1571 | 53 | 71 | 6.12 | 5.47 | 68.42 | 9.56 |
| | | 2 | (untitled) | | 1187 | 2100 | 60 | 1978 | 60 | 50 | 1.47 | 2.77 | 34.32 | 4.95 |
| | | 3 | (untitled) | | 647 | 2263 | 60 | 2263 | 29 | 215 | 0.32 | 0.06 | 0.70 | 3.84 |
| | | 4 | (untitled) | | 1022 | 2300 | 60 | 1433 | 71 | 26 | 5.19 | 5.42 | 61.92 | 9.12 |
| | Ef | 1 | (untitled) | | 797 | 1900 | 60 | 1900 | 42 | 115 | 0.68 | 0.15 | 0.68 | 15.99 |
| | | 2 | (untitled) | | 584 | 1900 | 60 | 1900 | 31 | 193 | 0.42 | 0.07 | 0.31 | 15.73 |
| | Exp | 1 | (untitled) | L | 826 | 2050 | 40 | 1401 | 59 | 53 | 9.59 | 7.27 | 80.67 | 13.47 |
| | | 2 | (untitled) | L | 494 | 2050 | 40 | 1401 | 35 | 155 | 11.28 | 7.31 | 78.27 | 15.31 |
| 16:30- | | 1 | (untitled) | B | 219 | 2100 | 15 | 560 | 39 | 130 | 20.08 | 2.93 | 19.76 | 26.46 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:30 | F | 2 | (untitled) | B | 269 | 2100 | 15 | 560 | 48 | 87 | 21.47 | 3.66 | 24.54 | 27.90 |
| | | 3 | (untitled) | B | 442 | 2100 | 15 | 560 | 79 | 14 | 32.05 | 7.38 | 48.61 | 38.59 |
| | Fc | 1 | (untitled) | A | 742 | 2263 | 35 | 1358 | 55 | 65 | 4.21 | 7.08 | 22.21 | 23.28 |
| | | 2 | (untitled) | A | 698 | 2263 | 35 | 1307 | 53 | 69 | 7.21 | 10.43 | 33.06 | 26.10 |
| | | 3 | (untitled) | A | 875 | 2263 | 35 | 1357 | 64 | 40 | 7.24 | 5.06 | 16.15 | 26.79 |
| | Ff | 1 | (untitled) | | 488 | 1900 | 60 | 1900 | 26 | 250 | 0.33 | 0.04 | 0.09 | 33.41 |
| | | 2 | (untitled) | | 442 | 1900 | 60 | 1900 | 23 | 287 | 0.29 | 0.04 | 0.07 | 33.33 |
| | G | 1 | (untitled) | F | 296 | 2050 | 13 | 276 | 107 | -16 | 328.50 | 31.76 | 116.96 | 344.56 |
| | | 2 | (untitled) | F | 333 | 2050 | 13 | 320 | 104 | -14 | 216.15 | 24.23 | 91.29 | 227.59 |
| | Gf | 1 | (untitled) | | 292 | 2050 | 60 | 2049 | 14 | 532 | 0.15 | 2.33 | 34.52 | 3.07 |
| | | 2 | (untitled) | | 292 | 2050 | 60 | 2045 | 14 | 530 | 0.22 | 2.37 | 35.51 | 3.11 |
| | xA | 1 | (untitled) | | 871 | 2263 | 60 | 2263 | 38 | 134 | 0.50 | 0.12 | 0.30 | 17.72 |
| | | 2 | (untitled) | | 752 | 2263 | 60 | 2263 | 33 | 171 | 0.40 | 0.08 | 0.21 | 17.64 |
| | xB | 1 | (untitled) | | 1350 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 7.61 |
| | xC | 1 | (untitled) | | 650 | 1900 | 60 | 650 | 100 | -10 | 129.52 | 29.97 | 149.10 | 138.19 |
| | | 2 | (untitled) | | 650 | 1900 | 60 | 650 | 100 | -10 | 128.13 | 29.92 | 148.35 | 136.83 |
| | xD | 1 | (untitled) | | 1190 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 9.13 |
| | | 2 | (untitled) | | 721 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 9.21 |
| | xE | 1 | (untitled) | | 826 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 13.04 |
| | | 2 | (untitled) | | 494 | 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 | 12.14 |
| | Cc1 | 1 | (untitled) | E | 705 | 2050 | 32 | 1128 | 62 | 44 | 10.38 | 10.80 | 64.82 | 16.93 |
| | 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) | | 45 | 649 | 60 | 649 | 7 | 1197 | 0.24 | 0.01 | 0.11 | 3.94 |
| | Cc2 | 2 | (untitled) | D | 1098 | 2150 | 33 | 1178 | 93 | -3 | 28.81 | 18.26 | 114.65 | 35.47 |
| | | 3 | (untitled) | D | 694 | 2050 | 33 | 1162 | 60 | 51 | 7.83 | 3.43 | 22.13 | 14.85 |
| | | 4 | (untitled) | D | 1146 | 2150 | 33 | 1213 | 94 | -5 | 34.14 | 20.12 | 130.07 | 40.58 |
| | | 5 | (untitled) | D | 350 | 2050 | 33 | 1162 | 30 | 199 | 0.67 | 0.06 | 0.42 | 8.65 |
| | E2 | 3 | (untitled) | H | 292 | 2150 | 25 | 923 | 32 | 185 | 12.15 | 3.00 | 32.35 | 16.14 |
| | | 4 | (untitled) | H | 292 | 2050 | 25 | 888 | 33 | 174 | 12.24 | 3.00 | 31.80 | 16.31 |
| | TC5 | 2 | (untitled) | A | 680 | 2263 | 39 | 1546 | 44 | 105 | 3.41 | 2.96 | 73.81 | 6.17 |
| | | 3 | (untitled) | A | 752 | 2263 | 39 | 1546 | 49 | 85 | 1.83 | 1.68 | 41.94 | 4.60 |
| | | 4 | (untitled) | C | 0 | 0 | 0 | 0 | 0 | -100 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | (untitled) | B | 963 | 1925 | 27 | 963 | 100 | -10 | 86.06 | 30.97 | 194.18 | 97.07 |
| | | 2 | (untitled) | B | 642 | 1966 | 27 | 983 | 65 | 38 | 14.56 | 7.94 | 49.59 | 25.62 |
| | | 3 | (untitled) | B | 621 | 1947 | 27 | 974 | 64 | 41 | 14.25 | 7.22 | 44.78 | 25.37 |
| | TC35 | 1 | (untitled) | A | 191 | 1900 | 39 | 1298 | 15 | 512 | 2.34 | 1.46 | 34.80 | 5.24 |
| | TC36 | 1 | (untitled) | | 552 | 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 | 429 | 60 | 429 | 25 | 261 | 3.21 | 2.46 | 66.26 | 4.75 |
| | TC39 | 2 | (untitled) | | 680 | 2263 | 60 | 2263 | 30 | 200 | 0.34 | 0.06 | 1.05 | 2.88 |
| | | 3 | (untitled) | | 752 | 2263 | 60 | 2263 | 33 | 171 | 0.40 | 0.08 | 1.43 | 2.79 |
| | TC40 | 2 | (untitled) | | 787 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 4.23 |
| | | 3 | (untitled) | | 752 | Unrestricted | 60 | Unrestricted | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 4.02 |
| | TC41 | 1 | (untitled) | D | 222 | 1850 | 7 | 247 | 90 | 0 | 75.34 | 6.40 | 67.34 | 79.28 |
| | | 2 | (untitled) | D | 223 | 1850 | 7 | 247 | 90 | 0 | 76.82 | 6.52 | 68.04 | 80.78 |
| | 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) | | 1007 | 1965 | 60 | 1965 | 51 | 76 | 0.96 | 0.27 | 2.80 | 7.58 |
| | 49 | 1 | (untitled) | | 1095 | 1900 | 60 | 979 | 112 | -20 | 215.09 | 78.12 | 1711.70 | 218.23 |
| | | 2 | (untitled) | | 1263 | 1900 | 60 | 1900 | 66 | 35 | 1.87 | 0.66 | 14.38 | 5.02 |
| | 50 | 1 | (untitled) | | 1327 | 1900 | 60 | 1900 | 70 | 29 | 2.18 | 0.80 | 9.61 | 7.96 |
| | 51 | 1 | (untitled) | | 930 | 1900 | 60 | 1900 | 49 | 84 | 0.91 | 0.23 | 3.60 | 5.40 |
| | 52 | 1 | | A | 12 | 1800 | 7 | 240 | 5 | 1700 | 23.36 | 0.17 | 0.50 | 47.36 |
| | 53 | 1 | | J | 16 | 1800 | 8 | 270 | 6 | 1411 | 13.64 | 0.19 | 1.21 | 24.64 |
| | 54 | 1 | | A | 1644 | 1800 | 44 | 1350 | 122 | -26 | 341.20 | 171.35 | 3941.06 | 344.20 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **55** | **1** | | A | 799 | 1800 | 44 | 1350 | 59 | 52 | 15.81 | 12.86 | 369.76 | 18.21 |

# 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) |
|---|---|---|---|---|---|---|---|---|---|
| **11** | **1** | ✓ | 1 | A | 0 | 7 | 7 | 1 | 7 |
| | **2** | ✓ | 2 | B | 12 | 55 | 43 | 1 | 7 |
| **12** | **1** | ✓ | 1 | A | 11 | 55 | 44 | 1 | 7 |
| | **2** | ✓ | 2 | B | 0 | 6 | 6 | 1 | 6 |
| **13** | **1** | ✓ | 1 | A | 11 | 55 | 44 | 1 | 7 |
| | **2** | ✓ | 2 | B | 0 | 6 | 6 | 1 | 6 |
| **769-1** | **1** | ✓ | 1 | A,C | 56 | 29 | 33 | 1 | 7 |
| | **2** | ✓ | 2 | B | 40 | 51 | 11 | 1 | 7 |
| **769-2** | **1** | ✓ | 4 | D,E,H,I | 41 | 5 | 24 | 1 | 1 |
| | **2** | ✓ | 5 | F,G,J,K | 19 | 26 | 7 | 1 | 7 |
| **770-1** | **1** | ✓ | 1 | A,C | 23 | 52 | 29 | 1 | 5 |
| | **2** | ✓ | 2 | B | 59 | 18 | 19 | 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 | 35 | 2 | 27 | 1 | 7 |
| | **2** | ✓ | 5 | D,H,I | 10 | 17 | 7 | 1 | 7 |
| | **3** | ✓ | 7 | A,F,J | 23 | 30 | 7 | 1 | 6 |
| **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 |
|---|---|---|---|---|---|---|---|
| 11 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 7 | 300 | 0 | 0 | Traffic |
| 12 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 6 | 300 | 0 | 0 | Pedestrian |
| 13 | A | A | 7 | 300 | 0 | 0 | Traffic |
| | B | B | 6 | 300 | 0 | 0 | Pedestrian |
| 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 | 10 | 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 | 5 | 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 |
| | J | J | 7 | 300 | 0 | 0 | Traffic |
| 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 | ✓ | 55.51 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 55.37 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2050 | 100 | 100 |
| | 3 | ✓ | 55.59 | 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 | ✓ | 132.85 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 2 | ✓ | 131.47 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 3 | ✓ | 130.10 | 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 | ✓ | 56.15 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2250 | 100 | 100 |
| Dc | 1 | ✓ | 50.67 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 2 | ✓ | 48.72 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 3 | ✓ | 46.78 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2100 | 100 | 100 |
| | 4 | ✓ | 44.83 | 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 | ✓ | 68.61 | 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 |
| 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 | ✓ | 45.93 | 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 | ✓ | 50.37 | 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 |
| 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 | ✓ | 229.97 | CTM | 0.00 | Normal | ✓ | | | Directly entered | 2263 | 100 | 100 |
| xB | 1 | ✓ | 63.46 | 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 | ✓ | 101.15 | NetworkDefault | 0.00 | Normal | | | | | | 100 | 100 |
| Cc1 | 1 | ✓ | 95.84 | 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 | ✓ | 49.26 | NetworkDefault | 0.00 | Normal | | | ✓ | | | 100 | 100 |
| Cc2 | 2 | ✓ | 91.58 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | 3 | ✓ | 89.25 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2050 | 100 | 100 |
| | 4 | ✓ | 88.96 | CTM | 0.00 | Normal | ✓ | ✓ | | Directly entered | 2150 | 100 | 100 |
| | 5 | ✓ | 88.65 | 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 |
| **52** | **1** | | 200.00 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1800 | 100 | 100 |
| **53** | **1** | | 91.71 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1800 | 100 | 100 |
| **54** | **1** | | 25.00 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1800 | 100 | 100 |
| **55** | **1** | | 20.00 | NetworkDefault | 0.00 | Normal | ✓ | ✓ | | Sum of lanes | 1800 | 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 | 33 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 33 | 0.00 | 0.00 |
| | 9 | 1 | 0 | 0 | 10 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 10 | 0.00 | 0.00 |
| | 10 | 1 | 0 | 0 | 15 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 15 | 0.00 | 0.00 |
| | 11 | 1 | 0 | 0 | 30 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 30 | 0.00 | 0.00 |
| | 12 | 1 | 0 | 0 | 30 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 30 | 0.00 | 0.00 |
| | 13 | 1 | 0 | 0 | 10 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 10 | 0.00 | 0.00 |
| | 14 | 1 | 0 | 0 | 40 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 40 | 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 | 8 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 8 | 0.00 | 0.00 |
| | 17 | 1 | 0 | 0 | 5 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 5 | 0.00 | 0.00 |
| | 18 | 1 | 0 | 0 | 6 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 6 | 0.00 | 0.00 |
| | 19 | 1 | 0 | 0 | 6 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 6 | 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 | 82 | 10 | 814 | 2050 | 28 | 22.65 | 9.67 | 74.64 | 72.70 | 18.91 | 91.61 |
| | | 2 | 38 | 138 | 374 | 2050 | 28 | 13.44 | 3.62 | 27.08 | 19.84 | 7.20 | 27.04 |
| | | 3 | 66 | 37 | 653 | 2050 | 28 | 9.55 | 3.27 | 23.89 | 24.59 | 6.49 | 31.07 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 85 | 5 | 846 | 2050 | 28 | 18.89 | 9.60 | 68.67 | 63.03 | 17.31 | 80.35 |
| | Ac | 1 | 96 | -6 | 830 | 2263 | 22 | 61.29 | 21.44 | 128.69 | 200.67 | 38.81 | 239.47 |
| | | 2 | 34 | 167 | 264 | 2263 | 22 | 1.89 | 2.02 | 12.60 | 1.97 | 0.82 | 2.79 |
| | | 3 | 61 | 47 | 528 | 2263 | 22 | 6.08 | 2.80 | 18.33 | 12.66 | 3.68 | 16.34 |
| | Acf | 1 | 48 | 86 | 1094 | 2263 | 60 | 0.74 | 0.23 | 1.87 | 3.21 | 0.00 | 3.21 |
| | | 2 | 23 | 286 | 528 | 2263 | 60 | 0.24 | 0.04 | 0.29 | 0.50 | 0.00 | 0.50 |
| | Af | 1 | 58 | 55 | 1188 | 2050 | 60 | 1.21 | 0.40 | 4.13 | 5.66 | 0.00 | 5.66 |
| | | 2 | 32 | 183 | 653 | 2050 | 60 | 0.41 | 0.07 | 0.77 | 1.06 | 0.00 | 1.06 |
| | | 3 | 41 | 118 | 846 | 2050 | 60 | 0.62 | 0.14 | 1.50 | 2.06 | 0.00 | 2.06 |
| | B | 1 | 66 | 37 | 265 | 2050 | 11 | 30.43 | 4.29 | 26.09 | 31.81 | 8.23 | 40.04 |
| | | 2 | 86 | 4 | 354 | 2150 | 11 | 47.66 | 7.57 | 44.78 | 66.55 | 14.25 | 80.80 |
| | | 3 | 87 | 3 | 358 | 2100 | 11 | 49.13 | 7.78 | 44.90 | 69.37 | 14.45 | 83.82 |
| | | 4 | 85 | 5 | 350 | 2050 | 11 | 46.37 | 7.51 | 42.14 | 64.01 | 5.49 | 69.50 |
| | Bc | 1 | 56 | 61 | 725 | 2050 | 37 | 6.41 | 6.31 | 27.32 | 18.33 | 7.12 | 25.45 |
| | | 2 | 77 | 16 | 1001 | 2050 | 37 | 8.06 | 5.55 | 24.26 | 31.82 | 7.43 | 39.25 |
| | | 3 | 72 | 24 | 939 | 2050 | 37 | 9.13 | 16.59 | 73.34 | 33.79 | 14.74 | 48.53 |
| | Bcf | 1 | 73 | 24 | 1644 | 2263 | 60 | 2.10 | 0.96 | 8.80 | 13.62 | 0.00 | 13.62 |
| | | 2 | 32 | 181 | 725 | 2263 | 60 | 0.37 | 0.08 | 0.69 | 1.07 | 0.00 | 1.07 |
| | | 3 | 44 | 104 | 1001 | 2263 | 60 | 0.63 | 0.18 | 1.62 | 2.49 | 0.00 | 2.49 |
| | | 4 | 41 | 117 | 939 | 2263 | 60 | 0.56 | 0.15 | 1.36 | 2.09 | 0.00 | 2.09 |
| | Bf | 1 | 34 | 162 | 619 | 1800 | 60 | 0.52 | 0.09 | 0.23 | 1.28 | 0.00 | 1.28 |
| | | 2 | 39 | 129 | 708 | 1800 | 60 | 0.65 | 0.13 | 0.32 | 1.81 | 0.00 | 1.81 |
| | C | 1 | 95 | -5 | 465 | 2100 | 13 | 67.25 | 13.06 | 62.01 | 123.35 | 8.93 | 132.29 |
| | | 2 | 78 | 16 | 399 | 2200 | 13 | 33.48 | 7.30 | 34.30 | 52.69 | 5.41 | 58.10 |
| | | 3 | 30 | 201 | 143 | 2050 | 13 | 20.58 | 1.97 | 9.11 | 11.61 | 1.48 | 13.09 |
| | Cf | 1 | 24 | 280 | 465 | 1965 | 60 | 0.28 | 0.04 | 0.15 | 0.52 | 0.00 | 0.52 |
| | | 2 | 28 | 226 | 542 | 1965 | 60 | 0.35 | 0.05 | 0.21 | 0.75 | 0.00 | 0.75 |
| | D | 1 | 58 | 56 | 393 | 2050 | 19 | 28.38 | 6.16 | 64.36 | 43.99 | 11.84 | 55.84 |
| | | 2 | 72 | 24 | 446 | 1850 | 19 | 33.05 | 7.36 | 76.94 | 58.14 | 14.15 | 72.29 |
| | | 3 | 65 | 38 | 459 | 2250 | 19 | 25.52 | 6.48 | 66.38 | 46.20 | 12.52 | 58.72 |
| | Dc | 1 | 66 | 36 | 733 | 2100 | 31 | 10.98 | 6.42 | 72.80 | 31.74 | 12.32 | 44.06 |
| | | 2 | 79 | 14 | 887 | 2100 | 31 | 16.87 | 8.41 | 99.29 | 59.01 | 16.25 | 75.26 |
| | | 3 | 24 | 272 | 271 | 2100 | 31 | 11.28 | 2.36 | 28.98 | 12.05 | 4.02 | 16.07 |
| | | 4 | 44 | 104 | 493 | 2100 | 31 | 21.94 | 6.41 | 82.28 | 42.66 | 12.75 | 55.41 |
| | Dcf | 1 | 58 | 55 | 1190 | 2050 | 60 | 1.21 | 0.40 | 3.49 | 5.68 | 0.00 | 5.68 |
| | | 2 | 74 | 22 | 1454 | 2100 | 60 | 2.78 | 3.56 | 31.02 | 15.94 | 3.77 | 19.71 |
| | | 3 | 57 | 59 | 887 | 2100 | 60 | 3.44 | 5.06 | 42.44 | 12.02 | 6.95 | 18.97 |
| | | 4 | 13 | 598 | 271 | 2100 | 60 | 0.13 | 0.01 | 0.08 | 0.14 | 0.00 | 0.14 |
| | | 5 | 26 | 248 | 493 | 2100 | 60 | 0.93 | 2.41 | 20.71 | 1.81 | 2.65 | 4.46 |
| | Df | 1 | 59 | 52 | 827 | 1900 | 43 | 5.66 | 6.86 | 19.73 | 18.46 | 4.70 | 23.17 |
| | | 2 | 28 | 224 | 459 | 2250 | 43 | 3.10 | 2.60 | 7.49 | 5.62 | 1.76 | 7.38 |
| | Dxp | 1 | 83 | 9 | 1190 | 2050 | 41 | 6.72 | 3.52 | 43.42 | 31.53 | 6.51 | 38.05 |
| | | 2 | 50 | 79 | 721 | 2050 | 41 | 1.33 | 0.33 | 3.92 | 3.78 | 0.62 | 4.40 |
| | Ec | 1 | 77 | 16 | 693 | 2150 | 24 | 15.67 | 7.90 | 90.67 | 42.83 | 15.34 | 58.17 |
| | | 2 | 69 | 31 | 647 | 2263 | 24 | 14.75 | 5.79 | 68.75 | 37.63 | 11.36 | 48.99 |
| | | 3 | 64 | 40 | 607 | 2263 | 24 | 20.20 | 7.53 | 92.59 | 48.38 | 14.49 | 62.87 |
| | | 4 | 39 | 128 | 370 | 2250 | 24 | 8.34 | 2.45 | 30.64 | 12.17 | 3.14 | 15.31 |
| | Ecf | 1 | 53 | 71 | 826 | 2100 | 60 | 6.12 | 5.47 | 68.42 | 19.93 | 9.99 | 29.91 |
| | | 2 | 60 | 50 | 1187 | 2100 | 60 | 1.47 | 2.77 | 34.32 | 6.87 | 2.24 | 9.12 |
| | | 3 | 29 | 215 | 647 | 2263 | 60 | 0.32 | 0.06 | 0.70 | 0.81 | 0.00 | 0.81 |
| | | 4 | 71 | 26 | 1022 | 2300 | 60 | 5.19 | 5.42 | 61.92 | 20.93 | 5.27 | 26.20 |
| | Ef | 1 | 42 | 115 | 797 | 1900 | 60 | 0.68 | 0.15 | 0.68 | 2.15 | 0.00 | 2.15 |
| | | 2 | 31 | 193 | 584 | 1900 | 60 | 0.42 | 0.07 | 0.31 | 0.97 | 0.00 | 0.97 |
| | Exp | 1 | 59 | 53 | 826 | 2050 | 40 | 9.59 | 7.27 | 80.67 | 31.23 | 13.92 | 45.15 |
| | | 2 | 35 | 155 | 494 | 2050 | 40 | 11.28 | 7.31 | 78.27 | 21.98 | 13.28 | 35.26 |
| 16:30-17:30 | 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 | 442 | 2100 | 15 | 32.05 | 7.38 | 48.61 | 55.87 | 14.07 | 69.94 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fc | 1 | 55 | 65 | 742 | 2263 | 35 | 4.21 | 7.08 | 22.21 | 12.31 | 5.79 | 18.10 |
| | | 2 | 53 | 69 | 698 | 2263 | 35 | 7.21 | 10.43 | 33.06 | 19.85 | 9.03 | 28.88 |
| | | 3 | 64 | 40 | 875 | 2263 | 35 | 7.24 | 5.06 | 16.15 | 24.99 | 4.70 | 29.69 |
| | Ff | 1 | 26 | 250 | 488 | 1900 | 60 | 0.33 | 0.04 | 0.09 | 0.63 | 0.00 | 0.63 |
| | | 2 | 23 | 287 | 442 | 1900 | 60 | 0.29 | 0.04 | 0.07 | 0.50 | 0.00 | 0.50 |
| | G | 1 | 107 | -16 | 296 | 2050 | 13 | 328.50 | 31.76 | 116.96 | 383.54 | 18.75 | 402.29 |
| | | 2 | 104 | -14 | 333 | 2050 | 13 | 216.15 | 24.23 | 91.29 | 283.91 | 29.35 | 313.26 |
| | Gf | 1 | 14 | 532 | 292 | 2050 | 60 | 0.15 | 2.33 | 34.52 | 0.18 | 0.04 | 0.22 |
| | | 2 | 14 | 530 | 292 | 2050 | 60 | 0.22 | 2.37 | 35.51 | 0.26 | 0.24 | 0.50 |
| | xA | 1 | 38 | 134 | 871 | 2263 | 60 | 0.50 | 0.12 | 0.30 | 1.71 | 0.00 | 1.71 |
| | | 2 | 33 | 171 | 752 | 2263 | 60 | 0.40 | 0.08 | 0.21 | 1.17 | 0.00 | 1.17 |
| | xB | 1 | 0 | Unrestricted | 1350 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xC | 1 | 100 | -10 | 650 | 1900 | 60 | 129.52 | 29.97 | 149.10 | 332.08 | 26.17 | 358.24 |
| | | 2 | 100 | -10 | 650 | 1900 | 60 | 128.13 | 29.92 | 148.35 | 328.51 | 26.69 | 355.21 |
| | xD | 1 | 0 | Unrestricted | 1190 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | Unrestricted | 721 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xE | 1 | 0 | Unrestricted | 826 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | Unrestricted | 494 | 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 | 62 | 44 | 705 | 2050 | 32 | 10.38 | 10.80 | 64.82 | 28.85 | 16.83 | 45.68 |
| | 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 | 1197 | 45 | 649 | 60 | 0.24 | 0.01 | 0.11 | 0.04 | 0.01 | 0.06 |
| | Cc2 | 2 | 93 | -3 | 1098 | 2150 | 33 | 28.81 | 18.26 | 114.65 | 124.72 | 44.32 | 169.04 |
| | | 3 | 60 | 51 | 694 | 2050 | 33 | 7.83 | 3.43 | 22.13 | 21.41 | 6.42 | 27.84 |
| | | 4 | 94 | -5 | 1146 | 2150 | 33 | 34.14 | 20.12 | 130.07 | 154.30 | 40.04 | 194.34 |
| | | 5 | 30 | 199 | 350 | 2050 | 33 | 0.67 | 0.06 | 0.42 | 0.92 | 0.00 | 0.92 |
| | E2 | 3 | 32 | 185 | 292 | 2150 | 25 | 12.15 | 3.00 | 32.35 | 13.99 | 5.75 | 19.74 |
| | | 4 | 33 | 174 | 292 | 2050 | 25 | 12.24 | 3.00 | 31.80 | 14.09 | 5.77 | 19.86 |
| | TC5 | 2 | 44 | 105 | 680 | 2263 | 39 | 3.41 | 2.96 | 73.81 | 9.14 | 2.22 | 11.36 |
| | | 3 | 49 | 85 | 752 | 2263 | 39 | 1.83 | 1.68 | 41.94 | 5.44 | 0.71 | 6.15 |
| | | 4 | 0 | -100 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | 100 | -10 | 963 | 1925 | 27 | 86.06 | 30.97 | 194.18 | 326.74 | 21.02 | 347.76 |
| | | 2 | 65 | 38 | 642 | 1966 | 27 | 14.56 | 7.94 | 49.59 | 36.88 | 5.69 | 42.57 |
| | | 3 | 64 | 41 | 621 | 1947 | 27 | 14.25 | 7.22 | 44.78 | 34.90 | 5.42 | 40.32 |
| | TC35 | 1 | 15 | 512 | 191 | 1900 | 39 | 2.34 | 1.46 | 34.80 | 1.76 | 0.71 | 2.47 |
| | TC36 | 1 | 31 | 193 | 552 | 1800 | 60 | 0.44 | 0.07 | 1.55 | 0.96 | 0.00 | 0.96 |
| | TC37 | 1 | 8 | 1093 | 107 | 1850 | 45 | 1.85 | 0.42 | 5.44 | 0.78 | 0.88 | 1.66 |
| | TC38 | 1 | 25 | 261 | 107 | 429 | 60 | 3.21 | 2.46 | 66.26 | 1.36 | 1.25 | 2.61 |
| | TC39 | 2 | 30 | 200 | 680 | 2263 | 60 | 0.34 | 0.06 | 1.05 | 0.92 | 0.00 | 0.92 |
| | | 3 | 33 | 171 | 752 | 2263 | 60 | 0.40 | 0.08 | 1.43 | 1.17 | 0.00 | 1.17 |
| | TC40 | 2 | 0 | Unrestricted | 787 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 3 | 0 | Unrestricted | 752 | Unrestricted | 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC41 | 1 | 90 | 0 | 222 | 1850 | 7 | 75.34 | 6.40 | 67.34 | 65.97 | 12.20 | 78.18 |
| | | 2 | 90 | 0 | 223 | 1850 | 7 | 76.82 | 6.52 | 68.04 | 67.57 | 12.38 | 79.95 |
| | 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 | 76 | 1007 | 1965 | 60 | 0.96 | 0.27 | 2.80 | 3.82 | 0.00 | 3.82 |
| | 49 | 1 | 112 | -20 | 1095 | 1900 | 60 | 215.09 | 78.12 | 1711.70 | 928.99 | 34.24 | 963.23 |
| | | 2 | 66 | 35 | 1263 | 1900 | 60 | 1.87 | 0.66 | 14.38 | 9.32 | 0.00 | 9.32 |
| | 50 | 1 | 70 | 29 | 1327 | 1900 | 60 | 2.18 | 0.80 | 9.61 | 11.42 | 0.00 | 11.42 |
| | 51 | 1 | 49 | 84 | 930 | 1900 | 60 | 0.91 | 0.23 | 3.60 | 3.33 | 0.00 | 3.33 |
| | 52 | 1 | 5 | 1700 | 12 | 1800 | 7 | 23.36 | 0.17 | 0.50 | 1.11 | 0.13 | 1.23 |
| | 53 | 1 | 6 | 1411 | 16 | 1800 | 8 | 13.64 | 0.19 | 1.21 | 0.87 | 0.14 | 1.00 |
| | 54 | 1 | 122 | -26 | 1644 | 1800 | 44 | 341.20 | 171.35 | 3941.06 | 2212.39 | 55.44 | 2267.83 |
| | 55 | 1 | 59 | 52 | 799 | 1800 | 44 | 15.81 | 12.86 | 369.76 | 49.82 | 9.58 | 59.40 |

## 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 | 814 | 814 | 78 | ✓ | 2050 | 991 | 82 | | 10 | 0.76 | 28 |
| | | 2 | 374 | 374 | 36 | ✓ | 2050 | 991 | 38 | | 138 | 0.74 | 28 |
| | | 3 | 653 | 653 | 1 | ✓ | 2050 | 991 | 66 | | 37 | 0.98 | 28 |
| | | 4 | 846 | 846 | -1 | | 2050 | 991 | 85 | | 5 | 0.88 | 28 |
| | Ac | 1 | 830 | 830 | -1 | | 2263 | 867 | 96 | ✓ | -6 | 1.05 | 22 |
| | | 2 | 264 | 264 | 0 | | 2263 | 784 | 34 | | 167 | 1.47 | 22 |
| | | 3 | 528 | 528 | 1 | | 2263 | 860 | 61 | | 47 | 1.16 | 22 |
| | Acf | 1 | 1094 | 1094 | -1 | | 2263 | 2263 | 48 | | 86 | 0.76 | 60 |
| | | 2 | 528 | 528 | 1 | | 2263 | 2263 | 23 | | 286 | 1.16 | 60 |
| | Af | 1 | 1188 | 1188 | 114 | ✓ | 2050 | 2050 | 58 | | 55 | 0.75 | 60 |
| | | 2 | 653 | 653 | 1 | ✓ | 2050 | 2050 | 32 | | 183 | 0.98 | 60 |
| | | 3 | 846 | 846 | -1 | | 2050 | 2050 | 41 | | 118 | 0.88 | 60 |
| | B | 1 | 265 | 265 | -1 | ✓ | 2050 | 404 | 66 | | 37 | 0.00 | 11 |
| | | 2 | 354 | 354 | 0 | | 2150 | 410 | 86 | | 4 | 0.00 | 11 |
| | | 3 | 358 | 358 | 0 | | 2100 | 412 | 87 | | 3 | 0.00 | 11 |
| | | 4 | 350 | 350 | -1 | | 2050 | 410 | 85 | | 5 | 0.00 | 11 |
| | Bc | 1 | 725 | 725 | 36 | ✓ | 2050 | 1298 | 56 | | 61 | 0.88 | 37 |
| | | 2 | 1001 | 1001 | 2 | ✓ | 2050 | 1294 | 77 | | 16 | 0.78 | 37 |
| | | 3 | 939 | 939 | 0 | | 2050 | 1295 | 72 | | 24 | 0.94 | 37 |
| | Bcf | 1 | 1644 | 1644 | 77 | ✓ | 2263 | 2263 | 73 | | 24 | 0.39 | 60 |
| | | 2 | 725 | 725 | 36 | ✓ | 2263 | 2263 | 32 | | 181 | 0.88 | 60 |
| | | 3 | 1001 | 1001 | 2 | ✓ | 2263 | 2263 | 44 | | 104 | 0.78 | 60 |
| | | 4 | 939 | 939 | 0 | | 2263 | 2263 | 41 | | 117 | 0.94 | 60 |
| | Bf | 1 | 619 | 619 | -1 | ✓ | 1800 | 1800 | 34 | | 162 | 0.00 | 60 |
| | | 2 | 708 | 708 | -1 | | 1800 | 1800 | 39 | | 129 | 0.00 | 60 |
| | C | 1 | 465 | 465 | 0 | | 2100 | 490 | 95 | ✓ | -5 | 0.00 | 13 |
| | | 2 | 399 | 399 | 0 | | 2200 | 513 | 78 | | 16 | 0.00 | 13 |
| | | 3 | 143 | 143 | 0 | | 2050 | 478 | 30 | | 201 | 0.00 | 13 |
| | Cf | 1 | 465 | 465 | 0 | | 1965 | 1965 | 24 | | 280 | 0.00 | 60 |
| | | 2 | 542 | 542 | 0 | | 1965 | 1965 | 28 | | 226 | 0.00 | 60 |
| | D | 1 | 393 | 393 | 0 | | 2050 | 683 | 58 | | 56 | 0.53 | 19 |
| | | 2 | 446 | 446 | 0 | | 1850 | 617 | 72 | | 24 | 0.52 | 19 |
| | | 3 | 459 | 459 | 0 | | 2250 | 701 | 65 | | 38 | 0.53 | 19 |
| | Dc | 1 | 733 | 733 | 0 | | 2100 | 1110 | 66 | | 36 | 0.58 | 31 |
| | | 2 | 887 | 887 | 0 | | 2100 | 1120 | 79 | | 14 | 0.67 | 31 |
| | | 3 | 271 | 271 | 0 | | 2100 | 1120 | 24 | | 272 | 1.00 | 31 |
| | | 4 | 493 | 493 | -1 | | 2100 | 1120 | 44 | | 104 | 1.26 | 31 |
| | Dcf | 1 | 1190 | 1190 | 6 | ✓ | 2050 | 2050 | 58 | | 55 | 0.72 | 60 |
| | | 2 | 1454 | 1454 | 0 | | 2100 | 1976 | 74 | | 22 | 0.42 | 60 |
| | | 3 | 887 | 887 | 0 | | 2100 | 1564 | 57 | | 59 | 0.67 | 60 |
| | | 4 | 271 | 271 | 0 | | 2100 | 2100 | 13 | | 598 | 1.00 | 60 |
| | | 5 | 493 | 493 | -1 | | 2100 | 1908 | 26 | | 248 | 1.39 | 60 |
| | Df | 1 | 827 | 827 | 0 | | 1900 | 1393 | 59 | | 52 | 0.00 | 43 |
| | | 2 | 459 | 459 | 0 | | 2250 | 1650 | 28 | | 224 | 0.00 | 43 |
| | Dxp | 1 | 1190 | 1190 | 6 | ✓ | 2050 | 1435 | 83 | | 9 | 0.67 | 41 |
| | | 2 | 721 | 721 | 0 | | 2050 | 1435 | 50 | | 79 | 0.82 | 41 |
| | Ec | 1 | 693 | 693 | 0 | | 2150 | 896 | 77 | | 16 | 0.86 | 24 |
| | | 2 | 647 | 647 | 0 | | 2263 | 943 | 69 | | 31 | 0.89 | 24 |
| | | 3 | 607 | 607 | 0 | | 2263 | 943 | 64 | | 40 | 0.88 | 24 |
| | | 4 | 370 | 370 | -1 | | 2250 | 938 | 39 | | 128 | 1.43 | 24 |
| | Ecf | 1 | 826 | 826 | 0 | | 2100 | 1571 | 53 | | 71 | 0.91 | 60 |
| | | 2 | 1187 | 1187 | 0 | | 2100 | 1978 | 60 | | 50 | 0.72 | 60 |
| | | 3 | 647 | 647 | 0 | | 2263 | 2263 | 29 | | 215 | 0.89 | 60 |
| | | 4 | 1022 | 1022 | -1 | | 2300 | 1433 | 71 | | 26 | 1.03 | 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 | 826 | 826 | 0 | | 2050 | 1401 | 59 | | 53 | 0.82 | 40 |
| | | 2 | 494 | 494 | 0 | | 2050 | 1401 | 35 | | 155 | 1.12 | 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 | 442 | 442 | 1 | | 2100 | 560 | 79 | | 14 | 0.00 | 15 |
| | Fc | 1 | 742 | 742 | 0 | | 2263 | 1358 | 55 | | 65 | 1.01 | 35 |
| | | 2 | 698 | 698 | 0 | | 2263 | 1307 | 53 | | 69 | 1.01 | 35 |
| | | 3 | 875 | 875 | -1 | | 2263 | 1357 | 64 | | 40 | 0.85 | 35 |
| | Ff | 1 | 488 | 488 | 0 | | 1900 | 1900 | 26 | | 250 | 0.00 | 60 |
| | | 2 | 442 | 442 | 1 | | 1900 | 1900 | 23 | | 287 | 0.00 | 60 |
| | G | 1 | 296 | 276 | 0 | | 2050 | 276 | 107 | ✓ | -16 | 1.12 | 13 |
| | | 2 | 333 | 320 | 0 | | 2050 | 320 | 104 | ✓ | -14 | 1.00 | 13 |
| | Gf | 1 | 292 | 292 | 0 | | 2050 | 2049 | 14 | | 532 | 1.13 | 60 |
| | | 2 | 292 | 292 | 0 | | 2050 | 2045 | 14 | | 530 | 1.13 | 60 |
| | xA | 1 | 871 | 871 | 0 | | 2263 | 2263 | 38 | | 134 | 0.89 | 60 |
| | | 2 | 752 | 752 | 0 | | 2263 | 2263 | 33 | | 171 | 1.18 | 60 |
| | xB | 1 | 1350 | 1350 | 371 | ✓ | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.44 | 60 |
| | xC | 1 | 650 | 650 | 35 | ✓ | 1900 | 650 | 100 | ✓ | -10 | 0.78 | 60 |
| | | 2 | 650 | 650 | 28 | ✓ | 1900 | 650 | 100 | ✓ | -10 | 0.83 | 60 |
| | xD | 1 | 1190 | 1190 | 6 | ✓ | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.62 | 60 |
| | | 2 | 721 | 721 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.75 | 60 |
| | xE | 1 | 826 | 826 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.87 | 60 |
| | | 2 | 494 | 494 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 1.16 | 60 |
| | xF | 1 | 799 | 799 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.85 | 60 |
| | Cc1 | 1 | 705 | 705 | 29 | ✓ | 2050 | 1128 | 62 | | 44 | 0.94 | 32 |
| | 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 | 45 | 45 | 0 | | 649 | 649 | 7 | | 1197 | 1.34 | 60 |
| | Cc2 | 2 | 1098 | 1098 | 6 | ✓ | 2150 | 1178 | 93 | ✓ | -3 | 0.58 | 33 |
| | | 3 | 694 | 694 | 0 | | 2050 | 1162 | 60 | | 51 | 0.81 | 33 |
| | | 4 | 1146 | 1146 | 0 | | 2150 | 1213 | 94 | ✓ | -5 | 0.56 | 33 |
| | | 5 | 350 | 350 | -1 | | 2050 | 1162 | 30 | | 199 | 1.60 | 33 |
| | E2 | 3 | 292 | 292 | 0 | | 2150 | 923 | 32 | | 185 | 0.00 | 25 |
| | | 4 | 292 | 292 | 0 | | 2050 | 888 | 33 | | 174 | 0.00 | 25 |
| | TC5 | 2 | 680 | 680 | 0 | | 2263 | 1546 | 44 | | 105 | 0.87 | 39 |
| | | 3 | 752 | 752 | 0 | | 2263 | 1546 | 49 | | 85 | 1.18 | 39 |
| | | 4 | 0 | 0 | 0 | | 0 | 0 | 0 | | -100 | 0.00 | 0 |
| | TC9 | 1 | 963 | 963 | 114 | ✓ | 1925 | 963 | 100 | ✓ | -10 | 0.81 | 27 |
| | | 2 | 642 | 642 | 0 | | 1966 | 983 | 65 | | 38 | 0.00 | 27 |
| | | 3 | 621 | 621 | 0 | | 1947 | 974 | 64 | | 41 | 0.00 | 27 |
| | TC35 | 1 | 191 | 191 | 0 | | 1900 | 1298 | 15 | | 512 | 1.13 | 39 |
| | TC36 | 1 | 552 | 552 | -1 | | 1800 | 1800 | 31 | | 193 | 0.00 | 60 |
| | TC37 | 1 | 107 | 107 | 0 | | 1850 | 1418 | 8 | | 1093 | 0.00 | 45 |
| | TC38 | 1 | 107 | 107 | 0 | | 429 | 429 | 25 | | 261 | 0.47 | 60 |
| | TC39 | 2 | 680 | 680 | 0 | | 2263 | 2263 | 30 | | 200 | 1.05 | 60 |
| | | 3 | 752 | 752 | 0 | | 2263 | 2263 | 33 | | 171 | 1.25 | 60 |
| | TC40 | 2 | 787 | 787 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 0.74 | 60 |
| | | 3 | 752 | 752 | 0 | | Unrestricted | Unrestricted | 0 | | Unrestricted | 1.12 | 60 |
| | TC41 | 1 | 222 | 222 | 0 | | 1850 | 247 | 90 | | 0 | 0.00 | 7 |
| | | 2 | 223 | 223 | -1 | | 1850 | 247 | 90 | ✓ | 0 | 0.00 | 7 |
| | 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 | 1007 | 1007 | 0 | | 1965 | 1965 | 51 | | 76 | 0.00 | 60 |
| | 49 | 1 | 1095 | 979 | -1 | | 1900 | 979 | 112 | ✓ | -20 | 0.00 | 60 |
| | | 2 | 1263 | 1263 | 0 | | 1900 | 1900 | 66 | | 35 | 0.00 | 60 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **50** | **1** | 1327 | 1327 | -2 | ✓ | 1900 | 1900 | 70 | | 29 | 0.00 | 60 |
| | **51** | **1** | 930 | 930 | 1 | | 1900 | 1900 | 49 | | 84 | 0.00 | 60 |
| | **52** | **1** | 12 | 12 | 0 | | 1800 | 240 | 5 | | 1700 | 0.00 | 7 |
| | **53** | **1** | 16 | 16 | 2 | ✓ | 1800 | 270 | 6 | | 1411 | 0.74 | 8 |
| | **54** | **1** | 1644 | 1350 | 77 | ✓ | 1800 | 1350 | 122 | ✓ | -26 | 0.33 | 44 |
| | **55** | **1** | 799 | 799 | 0 | | 1800 | 1350 | 59 | | 52 | 0.95 | 44 |

## 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 | 22.65 | 5.12 | 72.70 | 72.37 | 588.99 | 18.91 |
| | | **2** | 5.77 | 13.44 | 1.40 | 19.84 | 59.97 | 224.42 | 7.20 |
| | | **3** | 5.90 | 9.55 | 1.73 | 24.59 | 30.96 | 202.07 | 6.49 |
| | | **4** | 6.03 | 18.89 | 4.44 | 63.03 | 63.77 | 539.36 | 17.31 |
| | **Ac** | **1** | 7.19 | 61.29 | 14.13 | 200.67 | 145.66 | 1208.97 | 38.81 |
| | | **2** | 9.50 | 1.89 | 0.14 | 1.97 | 18.11 | 47.80 | 0.82 |
| | | **3** | 6.60 | 6.08 | 0.89 | 12.66 | 21.72 | 114.66 | 3.68 |
| | **Acf** | **1** | 5.22 | 0.74 | 0.23 | 3.21 | 0.00 | 0.00 | 0.00 |
| | | **2** | 7.24 | 0.24 | 0.04 | 0.50 | 0.00 | 0.00 | 0.00 |
| | **Af** | **1** | 6.66 | 1.21 | 0.40 | 5.66 | 0.00 | 0.00 | 0.00 |
| | | **2** | 6.64 | 0.41 | 0.07 | 1.06 | 0.00 | 0.00 | 0.00 |
| | | **3** | 6.67 | 0.62 | 0.14 | 2.06 | 0.00 | 0.00 | 0.00 |
| | **B** | **1** | 7.10 | 30.43 | 2.24 | 31.81 | 96.76 | 256.43 | 8.23 |
| | | **2** | 7.29 | 47.66 | 4.69 | 66.55 | 125.40 | 443.90 | 14.25 |
| | | **3** | 7.48 | 49.13 | 4.89 | 69.37 | 125.76 | 450.22 | 14.45 |
| | | **4** | 12.29 | 46.37 | 4.51 | 64.01 | 125.17 | 438.09 | 5.49 |
| | **Bc** | **1** | 11.96 | 6.41 | 1.29 | 18.33 | 44.03 | 319.31 | 7.12 |
| | | **2** | 11.83 | 8.06 | 2.24 | 31.82 | 33.31 | 333.29 | 7.43 |
| | | **3** | 11.71 | 9.13 | 2.38 | 33.79 | 70.42 | 661.09 | 14.74 |
| | **Bcf** | **1** | 4.33 | 2.10 | 0.96 | 13.62 | 0.00 | 0.00 | 0.00 |
| | | **2** | 5.38 | 0.37 | 0.08 | 1.07 | 0.00 | 0.00 | 0.00 |
| | | **3** | 5.68 | 0.63 | 0.18 | 2.49 | 0.00 | 0.00 | 0.00 |
| | | **4** | 6.33 | 0.56 | 0.15 | 2.09 | 0.00 | 0.00 | 0.00 |
| | **Bf** | **1** | 27.34 | 0.52 | 0.09 | 1.28 | 0.00 | 0.00 | 0.00 |
| | | **2** | 27.41 | 0.65 | 0.13 | 1.81 | 0.00 | 0.00 | 0.00 |
| | **C** | **1** | 14.54 | 67.25 | 8.69 | 123.35 | 153.20 | 712.39 | 8.93 |
| | | **2** | 14.68 | 33.48 | 3.71 | 52.69 | 108.11 | 431.35 | 5.41 |
| | | **3** | 14.92 | 20.58 | 0.82 | 11.61 | 82.65 | 118.19 | 1.48 |
| | **Cf** | **1** | 17.35 | 0.28 | 0.04 | 0.52 | 0.00 | 0.00 | 0.00 |
| | | **2** | 17.50 | 0.35 | 0.05 | 0.75 | 0.00 | 0.00 | 0.00 |
| | **D** | **1** | 4.13 | 28.38 | 3.10 | 43.99 | 93.89 | 368.98 | 11.84 |
| | | **2** | 4.13 | 33.05 | 4.09 | 58.14 | 98.83 | 440.79 | 14.15 |
| | | **3** | 4.21 | 25.52 | 3.25 | 46.20 | 84.95 | 389.91 | 12.52 |
| | **Dc** | **1** | 3.80 | 10.98 | 2.24 | 31.74 | 52.36 | 383.68 | 12.32 |
| | | **2** | 3.65 | 16.87 | 4.16 | 59.01 | 57.08 | 506.29 | 16.25 |
| | | **3** | 3.51 | 11.28 | 0.85 | 12.05 | 46.27 | 125.30 | 4.02 |
| | | **4** | 3.36 | 21.94 | 3.00 | 42.66 | 80.60 | 397.34 | 12.75 |
| | **Dcf** | **1** | 4.95 | 1.21 | 0.40 | 5.68 | 0.00 | 0.00 | 0.00 |
| | | **2** | 4.94 | 2.78 | 1.12 | 15.94 | 8.08 | 117.52 | 3.77 |
| | | **3** | 5.37 | 3.44 | 0.85 | 12.02 | 25.54 | 226.51 | 6.95 |
| | | **4** | 6.61 | 0.13 | 0.01 | 0.14 | 0.00 | 0.00 | 0.00 |
| | | **5** | 5.02 | 0.93 | 0.13 | 1.81 | 16.74 | 82.52 | 2.65 |
| | **Df** | **1** | 24.00 | 5.66 | 1.30 | 18.46 | 45.37 | 375.17 | 4.70 |
| | | **2** | 24.00 | 3.10 | 0.40 | 5.62 | 30.57 | 140.31 | 1.76 |
| | **Dxp** | **1** | 3.50 | 6.72 | 2.22 | 31.53 | 17.06 | 202.96 | 6.51 |
| | | **2** | 3.65 | 1.33 | 0.27 | 3.78 | 2.68 | 19.33 | 0.62 |
| | | **1** | 3.76 | 15.67 | 3.02 | 42.83 | 68.94 | 477.79 | 15.34 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | Ec | 2 | 3.63 | 14.75 | 2.65 | 37.63 | 54.71 | 353.84 | 11.36 |
| | | 3 | 3.51 | 20.20 | 3.41 | 48.38 | 74.37 | 451.43 | 14.49 |
| | | 4 | 3.44 | 8.34 | 0.86 | 12.17 | 26.44 | 97.84 | 3.14 |
| | Ecf | 1 | 3.45 | 6.12 | 1.40 | 19.93 | 37.67 | 311.09 | 9.99 |
| | | 2 | 3.48 | 1.47 | 0.48 | 6.87 | 5.88 | 69.83 | 2.24 |
| | | 3 | 3.52 | 0.32 | 0.06 | 0.81 | 0.00 | 0.00 | 0.00 |
| | | 4 | 3.93 | 5.19 | 1.47 | 20.93 | 16.77 | 171.37 | 5.27 |
| | 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 | 9.59 | 2.20 | 31.23 | 52.53 | 433.81 | 13.92 |
| | | 2 | 4.03 | 11.28 | 1.55 | 21.98 | 83.74 | 413.66 | 13.28 |
| | 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 | 32.05 | 3.93 | 55.87 | 99.17 | 438.34 | 14.07 |
| | Fc | 1 | 19.07 | 4.21 | 0.87 | 12.31 | 46.73 | 346.63 | 5.79 |
| | | 2 | 18.89 | 7.21 | 1.40 | 19.85 | 77.44 | 540.52 | 9.03 |
| | | 3 | 19.55 | 7.24 | 1.76 | 24.99 | 34.75 | 304.06 | 4.70 |
| | 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 | 328.50 | 27.01 | 383.54 | 398.31 | 1098.50 | 18.75 |
| | | 2 | 11.45 | 216.15 | 19.99 | 283.91 | 286.22 | 914.36 | 29.35 |
| | Gf | 1 | 2.92 | 0.15 | 0.01 | 0.18 | 0.47 | 1.37 | 0.04 |
| | | 2 | 2.88 | 0.22 | 0.02 | 0.26 | 2.58 | 7.52 | 0.24 |
| | xA | 1 | 17.22 | 0.50 | 0.12 | 1.71 | 0.00 | 0.00 | 0.00 |
| | | 2 | 17.25 | 0.40 | 0.08 | 1.17 | 0.00 | 0.00 | 0.00 |
| | xB | 1 | 7.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | xC | 1 | 8.67 | 129.52 | 23.39 | 332.08 | 125.44 | 815.21 | 26.17 |
| | | 2 | 8.70 | 128.13 | 23.13 | 328.51 | 127.94 | 831.63 | 26.69 |
| | 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 | 12.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Cc1 | 1 | 6.55 | 10.38 | 2.03 | 28.85 | 60.76 | 428.10 | 16.83 |
| | 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 | 3.69 | 0.24 | 0.00 | 0.04 | 1.03 | 0.46 | 0.01 |
| | Cc2 | 2 | 6.66 | 28.81 | 8.78 | 124.72 | 112.64 | 1236.39 | 44.32 |
| | | 3 | 7.02 | 7.83 | 1.51 | 21.41 | 29.71 | 206.12 | 6.42 |
| | | 4 | 6.44 | 34.14 | 10.87 | 154.30 | 96.81 | 1109.26 | 40.04 |
| | | 5 | 7.98 | 0.67 | 0.06 | 0.92 | 0.00 | 0.00 | 0.00 |
| | E2 | 3 | 4.00 | 12.15 | 0.99 | 13.99 | 61.39 | 179.27 | 5.75 |
| | | 4 | 4.07 | 12.24 | 0.99 | 14.09 | 61.55 | 179.71 | 5.77 |
| | TC5 | 2 | 2.76 | 3.41 | 0.64 | 9.14 | 26.08 | 177.32 | 2.22 |
| | | 3 | 2.76 | 1.83 | 0.38 | 5.44 | 7.54 | 56.67 | 0.71 |
| | | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TC9 | 1 | 11.00 | 86.06 | 23.01 | 326.74 | 174.18 | 1676.46 | 21.02 |
| | | 2 | 11.05 | 14.56 | 2.60 | 36.88 | 70.72 | 454.04 | 5.69 |
| | | 3 | 11.12 | 14.25 | 2.46 | 34.90 | 69.60 | 432.19 | 5.42 |
| | TC35 | 1 | 2.90 | 2.34 | 0.12 | 1.76 | 29.73 | 56.72 | 0.71 |
| | TC36 | 1 | 3.03 | 0.44 | 0.07 | 0.96 | 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 | 3.21 | 0.10 | 1.36 | 33.65 | 36.01 | 1.25 |
| | TC39 | 2 | 2.54 | 0.34 | 0.06 | 0.92 | 0.00 | 0.00 | 0.00 |
| | | 3 | 2.40 | 0.40 | 0.08 | 1.17 | 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 | 75.34 | 4.65 | 65.97 | 157.84 | 350.40 | 12.20 |
| | | 2 | 3.97 | 76.82 | 4.76 | 67.57 | 159.44 | 355.54 | 12.38 |
| | 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 | 3.82 | 0.00 | 0.00 | 0.00 |
| | 49 | 1 | 3.15 | 215.09 | 65.42 | 928.99 | 279.05 | 2730.78 | 34.24 |
| | | 2 | 3.15 | 1.87 | 0.66 | 9.32 | 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 | 0.23 | 3.33 | 0.00 | 0.00 | 0.00 |
| | 52 | 1 | 24.00 | 23.36 | 0.08 | 1.11 | 85.35 | 10.24 | 0.13 |
| | 53 | 1 | 11.01 | 13.64 | 0.06 | 0.87 | 68.00 | 10.94 | 0.14 |
| | 54 | 1 | 3.00 | 341.20 | 155.80 | 2212.39 | 327.53 | 4421.67 | 55.44 |
| | 55 | 1 | 2.40 | 15.81 | 3.51 | 49.82 | 95.65 | 764.26 | 9.58 |

## 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 | 9.67 | 12.96 | 74.64 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 3.62 | 13.37 | 27.08 | 0.00 | 6.00 | |
| | | 3 | 0.00 | 3.27 | 13.67 | 23.89 | 0.00 | 8.00 | |
| | | 4 | 0.00 | 9.60 | 13.97 | 68.67 | 0.00 | 2.00 | |
| | Ac | 1 | 0.00 | 21.44 | 16.66 | 128.69 | 0.00 | 1.00 | |
| | | 2 | 0.00 | 2.02 | 16.06 | 12.60 | 0.00 | 9.21 | |
| | | 3 | 0.00 | 2.80 | 15.30 | 18.33 | 0.00 | 4.19 | |
| | Acf | 1 | 0.00 | 0.23 | 12.10 | 1.87 | 0.00 | 15.00 | |
| | | 2 | 0.00 | 0.04 | 12.25 | 0.29 | 0.00 | 30.00 | |
| | Af | 1 | 0.00 | 0.40 | 9.65 | 4.13 | 0.00 | 21.00 | |
| | | 2 | 0.00 | 0.07 | 9.63 | 0.77 | 0.00 | 29.00 | |
| | | 3 | 0.00 | 0.14 | 9.67 | 1.50 | 0.00 | 21.00 | |
| | B | 1 | 0.00 | 4.29 | 16.46 | 26.09 | 0.00 | 0.18 | |
| | | 2 | 0.00 | 7.57 | 16.90 | 44.78 | 0.00 | 0.55 | |
| | | 3 | 0.00 | 7.78 | 17.34 | 44.90 | 0.00 | 0.24 | |
| | | 4 | 0.00 | 7.51 | 17.81 | 42.14 | 0.00 | 0.00 | |
| | Bc | 1 | 0.00 | 6.31 | 23.10 | 27.32 | 0.00 | 7.00 | |
| | | 2 | 0.00 | 5.55 | 22.87 | 24.26 | 0.00 | 4.12 | |
| | | 3 | 0.00 | 16.59 | 22.63 | 73.34 | 0.00 | 4.09 | |
| | Bcf | 1 | 0.00 | 0.96 | 10.90 | 8.80 | 0.00 | 60.00 | |
| | | 2 | 0.00 | 0.08 | 10.98 | 0.69 | 0.00 | 20.00 | |
| | | 3 | 0.00 | 0.18 | 10.84 | 1.62 | 0.00 | 20.00 | |
| | | 4 | 0.00 | 0.15 | 10.83 | 1.36 | 0.00 | 17.00 | |
| | Bf | 1 | 0.00 | 0.09 | 39.62 | 0.23 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.13 | 39.73 | 0.32 | 0.00 | 0.00 | |
| | C | 1 | 0.00 | 13.06 | 21.07 | 62.01 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 7.30 | 21.28 | 34.30 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 1.97 | 21.63 | 9.11 | 0.00 | 0.00 | |
| | Cf | 1 | 0.00 | 0.04 | 25.15 | 0.15 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 0.05 | 25.37 | 0.21 | 0.00 | 0.00 | |
| | D | 1 | 0.00 | 6.16 | 9.57 | 64.36 | 0.00 | 6.00 | |
| | | 2 | 0.00 | 7.36 | 9.57 | 76.94 | 0.00 | 4.00 | |
| | | 3 | 0.00 | 6.48 | 9.76 | 66.38 | 0.00 | 7.29 | |
| | Dc | 1 | 0.00 | 6.42 | 8.81 | 72.80 | 0.00 | 4.28 | |
| | | 2 | 0.00 | 8.41 | 8.47 | 99.29 | 0.00 | 4.00 | |
| | | 3 | 0.00 | 2.36 | 8.14 | 28.98 | 0.00 | 9.00 | |
| | | 4 | 0.00 | 6.41 | 7.80 | 82.28 | 0.00 | 14.00 | |
| | Dcf | 1 | 0.00 | 0.40 | 11.47 | 3.49 | 0.00 | 12.00 | |
| | | 2 | 0.00 | 3.56 | 11.46 | 31.02 | 0.00 | 14.55 | |
| | | 3 | 0.00 | 5.06 | 11.93 | 42.44 | 0.00 | 20.31 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | | 4 | 0.00 | 0.01 | 11.60 | 0.08 | 0.00 | 25.00 | |
| | | 5 | 0.00 | 2.41 | 11.64 | 20.71 | 0.00 | 39.49 | |
| | Df | 1 | 0.00 | 6.86 | 34.78 | 19.73 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 2.60 | 34.78 | 7.49 | 0.00 | 0.00 | |
| | Dxp | 1 | 0.00 | 3.52 | 8.11 | 43.42 | 0.00 | 1.00 | |
| | | 2 | 0.00 | 0.33 | 8.46 | 3.92 | 0.00 | 4.00 | |
| | Ec | 1 | 0.00 | 7.90 | 8.71 | 90.67 | 0.00 | 17.00 | |
| | | 2 | 0.00 | 5.79 | 8.42 | 68.75 | 0.00 | 3.00 | |
| | | 3 | 0.00 | 7.53 | 8.13 | 92.59 | 0.00 | 0.00 | |
| | | 4 | 0.00 | 2.45 | 7.99 | 30.64 | 0.00 | 7.00 | |
| | Ecf | 1 | 0.00 | 5.47 | 7.99 | 68.42 | 0.00 | 25.11 | |
| | | 2 | 0.00 | 2.77 | 8.06 | 34.32 | 0.00 | 19.49 | |
| | | 3 | 0.00 | 0.06 | 8.16 | 0.70 | 0.00 | 21.00 | |
| | | 4 | 0.00 | 5.42 | 8.76 | 61.92 | 0.00 | 30.61 | |
| | 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 | 7.27 | 9.01 | 80.67 | 0.00 | 6.00 | |
| | | 2 | 0.00 | 7.31 | 9.34 | 78.27 | 0.00 | 22.00 | |
| | 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 | 7.38 | 15.17 | 48.61 | 0.00 | 0.00 | |
| | Fc | 1 | 0.00 | 7.08 | 31.86 | 22.21 | 0.00 | 6.00 | |
| | | 2 | 0.00 | 10.43 | 31.56 | 33.06 | 0.00 | 7.34 | |
| | | 3 | 0.00 | 5.06 | 31.35 | 16.15 | 0.00 | 8.02 | |
| | 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 | 31.76 | 27.16 | 116.96 | 0.00 | 5.92 | |
| | | 2 | 0.00 | 24.23 | 26.54 | 91.29 | 0.00 | 4.65 | |
| | Gf | 1 | 0.00 | 2.33 | 6.76 | 34.52 | 0.00 | 34.02 | |
| | | 2 | 0.00 | 2.37 | 6.69 | 35.51 | 0.00 | 34.15 | |
| | xA | 1 | 0.00 | 0.12 | 39.94 | 0.30 | 0.00 | 14.00 | |
| | | 2 | 0.00 | 0.08 | 39.99 | 0.21 | 0.00 | 24.00 | |
| | xB | 1 | 0.00 | 0.00 | 11.04 | 0.00 | 0.00 | 7.00 | |
| | xC | 1 | 0.00 | 29.97 | 20.10 | 149.10 | 0.00 | 39.47 | |
| | | 2 | 0.00 | 29.92 | 20.17 | 148.35 | 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 | 16.00 | |
| | xE | 1 | 0.00 | 0.00 | 30.24 | 0.00 | 0.00 | 15.00 | |
| | | 2 | 0.00 | 0.00 | 30.23 | 0.00 | 0.00 | 30.00 | |
| | xF | 1 | 0.00 | 0.00 | 17.59 | 0.00 | 0.00 | 9.00 | |
| | Cc1 | 1 | 0.00 | 10.80 | 16.67 | 64.82 | 0.00 | 8.00 | |
| | E1 | 1 | 0.00 | 3.01 | 13.91 | 21.61 | 0.00 | 11.00 | |
| | | 2 | 0.00 | 5.71 | 13.91 | 41.04 | 0.00 | 0.00 | |
| | Gf1 | 1 | 0.00 | 0.01 | 8.57 | 0.11 | 0.00 | 39.00 | |
| | Cc2 | 2 | 0.00 | 18.26 | 15.93 | 114.65 | 0.00 | 1.12 | |
| | | 3 | 0.00 | 3.43 | 15.52 | 22.13 | 0.00 | 6.00 | |
| | | 4 | 0.00 | 20.12 | 15.47 | 130.07 | 0.00 | 0.15 | |
| | | 5 | 0.00 | 0.06 | 15.42 | 0.42 | 0.00 | 22.00 | |
| | E2 | 3 | 0.00 | 3.00 | 9.27 | 32.35 | 0.00 | 0.23 | |
| | | 4 | 0.00 | 3.00 | 9.45 | 31.80 | 0.00 | 0.01 | |
| | TC5 | 2 | 0.00 | 2.96 | 4.01 | 73.81 | 0.00 | 10.00 | |
| | | 3 | 0.00 | 1.68 | 4.00 | 41.94 | 0.00 | 15.00 | |
| | | 4 | 0.00 | 0.00 | 4.25 | 0.00 | 0.00 | 0.00 | |
| | TC9 | 1 | 0.00 | 30.97 | 15.95 | 194.18 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 7.94 | 16.02 | 49.59 | 0.00 | 0.00 | |
| | | 3 | 0.00 | 7.22 | 16.12 | 44.78 | 0.00 | 0.00 | |
| | TC35 | 1 | 0.00 | 1.46 | 4.20 | 34.80 | 0.00 | 17.00 | |
| | 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 | 66.26 | 0.00 | 0.00 | |
| | TC39 | 2 | 0.00 | 0.06 | 6.13 | 1.05 | 0.00 | 29.00 | |
| | | 3 | 0.00 | 0.08 | 5.79 | 1.43 | 0.00 | 34.00 | |
| | 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 | 25.00 | |
| | TC41 | 1 | 0.00 | 6.40 | 9.50 | 67.34 | 0.00 | 0.00 | |
| | | 2 | 0.00 | 6.52 | 9.58 | 68.04 | 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 | 2.80 | 0.00 | 0.00 | |
| | 49 | 1 | 0.00 | 78.12 | 4.56 | 1711.70 | 0.00 | 29.10 | |
| | | 2 | 0.00 | 0.66 | 4.56 | 14.38 | 0.00 | 0.00 | |
| | 50 | 1 | 0.00 | 0.80 | 8.37 | 9.61 | 0.00 | 0.00 | |
| | 51 | 1 | 0.00 | 0.23 | 6.52 | 3.60 | 0.00 | 0.00 | |
| | 52 | 1 | 0.00 | 0.17 | 34.78 | 0.50 | 0.00 | 7.00 | |
| | 53 | 1 | 0.00 | 0.19 | 15.95 | 1.21 | 0.00 | 8.00 | |
| | 54 | 1 | 0.00 | 171.35 | 4.35 | 3941.06 | 0.00 | 0.00 | |
| | 55 | 1 | 0.00 | 12.86 | 3.48 | 369.76 | 0.00 | 3.00 | |

## 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 | ✓ | 9.70 | 1.86 | 9.58 | 1.00 | 0.00 | 91.61 |
| | | 2 | 0.00 | 0.00 | ✓ | 3.62 | 0.11 | 3.62 | 1.00 | 0.00 | 27.04 |
| | | 3 | 0.00 | 0.00 | ✓ | 3.27 | 0.63 | 3.26 | 1.00 | 0.00 | 31.07 |
| | | 4 | 0.00 | 0.00 | ✓ | 9.65 | 2.43 | 8.75 | 1.00 | 0.00 | 80.35 |
| | Ac | 1 | 0.00 | 0.00 | ✓ | 22.56 | 8.47 | 21.61 | 1.00 | 0.00 | 239.47 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.02 | 0.09 | 0.09 | 1.00 | 0.00 | 2.79 |
| | | 3 | 0.00 | 0.00 | ✓ | 2.80 | 0.49 | 1.92 | 1.00 | 0.00 | 16.34 |
| | 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 | 0.50 |
| | Af | 1 | 0.00 | 0.00 | ✓ | 0.40 | | | 1.00 | 0.00 | 5.66 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 1.06 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.14 | | | 1.00 | 0.00 | 2.06 |
| | B | 1 | 0.00 | 0.00 | ✓ | 4.30 | 0.62 | 4.23 | 1.00 | 0.00 | 40.04 |
| | | 2 | 0.00 | 0.00 | ✓ | 7.70 | 2.55 | 7.45 | 1.00 | 0.00 | 80.80 |
| | | 3 | 0.00 | 0.00 | ✓ | 7.93 | 2.72 | 7.68 | 1.00 | 0.00 | 83.82 |
| | | 4 | 0.00 | 0.00 | ✓ | 7.61 | 2.36 | 7.32 | 1.00 | 0.00 | 69.50 |
| | Bc | 1 | 0.00 | 0.00 | ✓ | 6.31 | 0.35 | 5.00 | 1.00 | 0.00 | 25.45 |
| | | 2 | 0.00 | 0.00 | ✓ | 5.56 | 1.31 | 5.21 | 1.00 | 0.00 | 39.25 |
| | | 3 | 0.00 | 0.00 | ✓ | 16.60 | 0.95 | 6.36 | 1.00 | 0.00 | 48.53 |
| | Bcf | 1 | 0.00 | 0.00 | ✓ | 0.96 | | | 1.00 | 0.00 | 13.62 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.08 | | | 1.00 | 0.00 | 1.07 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.18 | | | 1.00 | 0.00 | 2.49 |
| | | 4 | 0.00 | 0.00 | ✓ | 0.15 | | | 1.00 | 0.00 | 2.09 |
| | Bf | 1 | 0.00 | 0.00 | ✓ | 0.09 | | | 1.00 | 0.00 | 1.28 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.13 | | | 1.00 | 0.00 | 1.81 |
| | | 1 | 0.00 | 0.00 | ✓ | 14.06 | 6.75 | 13.21 | 1.00 | 0.00 | 132.29 |
| | | 3 | 0.00 | 0.00 | ✓ | 1.97 | 0.06 | 1.93 | 1.00 | 0.00 | 13.09 |
| | Cf | 1 | 0.00 | 0.00 | ✓ | 0.04 | | | 1.00 | 0.00 | 0.52 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.05 | | | 1.00 | 0.00 | 0.75 |
| | D | 1 | 0.00 | 0.00 | ✓ | 6.16 | 0.39 | 6.16 | 1.00 | 0.00 | 55.84 |
| | | 2 | 0.00 | 0.00 | ✓ | 7.37 | 0.94 | 7.37 | 1.00 | 0.00 | 72.29 |
| | | 3 | 0.00 | 0.00 | ✓ | 6.48 | 0.73 | 6.48 | 1.00 | 0.00 | 58.72 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:30-17:30 | Dc | 1 | 0.00 | 0.00 | ✓ | 6.42 | 0.64 | 5.08 | 1.00 | 0.00 | 44.06 |
| | | 2 | 0.00 | 0.00 | ✓ | 8.43 | 1.49 | 8.40 | 1.00 | 0.00 | 75.26 |
| | | 3 | 0.00 | 0.00 | ✓ | 2.36 | 0.04 | 2.09 | 1.00 | 0.00 | 16.07 |
| | | 4 | 0.00 | 0.00 | ✓ | 6.42 | 0.17 | 6.01 | 1.00 | 0.00 | 55.41 |
| | Dcf | 1 | 0.00 | 0.00 | ✓ | 0.40 | | | 1.00 | 0.00 | 5.68 |
| | | 2 | 0.00 | 0.00 | ✓ | 3.56 | | | 1.00 | 0.00 | 19.71 |
| | | 3 | 0.00 | 0.00 | ✓ | 5.06 | | | 1.00 | 0.00 | 18.97 |
| | | 4 | 0.00 | 0.00 | ✓ | 0.01 | | | 1.00 | 0.00 | 0.14 |
| | | 5 | 0.00 | 0.00 | ✓ | 2.41 | | | 1.00 | 0.00 | 4.46 |
| | Df | 1 | 0.00 | 0.00 | ✓ | 6.86 | 0.43 | 4.11 | 1.00 | 0.00 | 23.17 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.60 | 0.05 | 2.09 | 1.00 | 0.00 | 7.38 |
| | Dxp | 1 | 0.00 | 0.00 | ✓ | 3.54 | 1.99 | 3.53 | 1.00 | 0.00 | 38.05 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.33 | 0.25 | 0.33 | 1.00 | 0.00 | 4.40 |
| | Ec | 1 | 0.00 | 0.00 | ✓ | 7.91 | 1.31 | 7.27 | 1.00 | 0.00 | 58.17 |
| | | 2 | 0.00 | 0.00 | ✓ | 5.79 | 0.75 | 5.64 | 1.00 | 0.00 | 48.99 |
| | | 3 | 0.00 | 0.00 | ✓ | 7.53 | 0.58 | 7.53 | 1.00 | 0.00 | 62.87 |
| | | 4 | 0.00 | 0.00 | ✓ | 2.45 | 0.13 | 1.63 | 1.00 | 0.00 | 15.31 |
| | Ecf | 1 | 0.00 | 0.00 | ✓ | 5.47 | | | 1.00 | 0.00 | 29.91 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.77 | | | 1.00 | 0.00 | 9.12 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.06 | | | 1.00 | 0.00 | 0.81 |
| | | 4 | 0.00 | 0.00 | ✓ | 5.43 | | | 1.00 | 0.00 | 26.20 |
| | 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 | ✓ | 7.27 | 0.42 | 7.13 | 1.00 | 0.00 | 45.15 |
| | | 2 | 0.00 | 0.00 | ✓ | 7.31 | 0.10 | 6.15 | 1.00 | 0.00 | 35.26 |
| | 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 | ✓ | 7.40 | 1.45 | 7.10 | 1.00 | 0.00 | 69.94 |
| | Fc | 1 | 0.00 | 0.00 | ✓ | 7.08 | 0.33 | 4.70 | 1.00 | 0.00 | 18.10 |
| | | 2 | 0.00 | 0.00 | ✓ | 10.43 | 0.31 | 5.61 | 1.00 | 0.00 | 28.88 |
| | | 3 | 0.00 | 0.00 | ✓ | 5.06 | 0.58 | 5.05 | 1.00 | 0.00 | 29.69 |
| | 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 | | 42.58 | 32.84 | 39.53 | 1.00 | 0.00 | 402.29 |
| | | 2 | 0.00 | 0.00 | | 32.42 | 23.98 | 29.76 | 1.00 | 0.00 | 313.26 |
| | Gf | 1 | 0.00 | 0.00 | ✓ | 2.33 | | | 1.00 | 0.00 | 0.22 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.37 | | | 1.00 | 0.00 | 0.50 |
| | xA | 1 | 0.00 | 0.00 | ✓ | 0.12 | | | 1.00 | 0.00 | 1.71 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.08 | | | 1.00 | 0.00 | 1.17 |
| | xB | 1 | 0.00 | 0.00 | ✓ | 0.00 | | | 1.00 | 0.00 | 0.00 |
| | xC | 1 | 0.00 | 0.00 | | 35.25 | | | 1.00 | 0.00 | 358.24 |
| | | 2 | 0.00 | 0.00 | | 35.20 | | | 1.00 | 0.00 | 355.21 |
| | 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 | ✓ | 10.81 | 0.52 | 6.55 | 1.00 | 0.00 | 45.68 |
| | 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 | ✓ | 0.01 | | | 1.00 | 0.00 | 0.06 |
| | Cc2 | 2 | 0.00 | 0.00 | ✓ | 18.64 | 5.84 | 13.78 | 1.00 | 0.00 | 169.04 |
| | | 3 | 0.00 | 0.00 | ✓ | 3.44 | 0.44 | 3.41 | 1.00 | 0.00 | 27.84 |
| | | 4 | 0.00 | 0.00 | ✓ | 20.73 | 7.18 | 16.43 | 1.00 | 0.00 | 194.34 |
| | | 5 | 0.00 | 0.00 | ✓ | 0.06 | 0.06 | 0.06 | 1.00 | 0.00 | 0.92 |
| | E2 | 3 | 0.00 | 0.00 | ✓ | 3.00 | 0.07 | 2.91 | 1.00 | 0.00 | 19.74 |
| | | 4 | 0.00 | 0.00 | ✓ | 3.00 | 0.08 | 2.92 | 1.00 | 0.00 | 19.86 |
| | | 2 | 0.00 | 0.00 | ✓ | 2.96 | 0.17 | 2.92 | 1.00 | 0.00 | 11.36 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | TC5 | 3 | 0.00 | 0.00 | ✓ | 1.68 | 0.23 | 0.95 | 1.00 | 0.00 | 6.15 |
| | | 4 | 0.00 | 0.00 | ✓ | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| | TC9 | 1 | 0.00 | 0.00 | ✓ | 37.39 | 21.54 | 37.38 | 1.00 | 0.00 | 347.76 |
| | | 2 | 0.00 | 0.00 | ✓ | 7.95 | 0.61 | 6.65 | 1.00 | 0.00 | 42.57 |
| | | 3 | 0.00 | 0.00 | ✓ | 7.22 | 0.56 | 6.36 | 1.00 | 0.00 | 40.32 |
| | TC35 | 1 | 0.00 | 0.00 | ✓ | 1.46 | 0.01 | 0.95 | 1.00 | 0.00 | 2.47 |
| | TC36 | 1 | 0.00 | 0.00 | ✓ | 0.07 | | | 1.00 | 0.00 | 0.96 |
| | 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 | 2.61 |
| | TC39 | 2 | 0.00 | 0.00 | ✓ | 0.06 | | | 1.00 | 0.00 | 0.92 |
| | | 3 | 0.00 | 0.00 | ✓ | 0.08 | | | 1.00 | 0.00 | 1.17 |
| | 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 | ✓ | 6.78 | 3.44 | 6.71 | 1.00 | 0.00 | 78.18 |
| | | 2 | 0.00 | 0.00 | ✓ | 6.93 | 3.58 | 6.86 | 1.00 | 0.00 | 79.95 |
| | 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 | 3.82 |
| | 49 | 1 | 0.00 | 0.00 | ✓ | 136.48 | | | 1.00 | 0.00 | 963.23 |
| | | 2 | 0.00 | 0.00 | ✓ | 0.66 | | | 1.00 | 0.00 | 9.32 |
| | 50 | 1 | 0.00 | 0.00 | ✓ | 0.81 | | | 1.00 | 0.00 | 11.42 |
| | 51 | 1 | 0.00 | 0.00 | ✓ | 0.23 | | | 1.00 | 0.00 | 3.33 |
| | 52 | 1 | 0.00 | 0.00 | ✓ | 0.17 | 0.00 | 0.17 | 1.00 | 0.00 | 1.23 |
| | 53 | 1 | 0.00 | 0.00 | ✓ | 0.19 | 0.00 | 0.19 | 1.00 | 0.00 | 1.00 |
| | 54 | 1 | 0.00 | 0.00 | ✓ | 318.30 | 296.13 | 299.98 | 1.00 | 0.00 | 2267.83 |
| | 55 | 1 | 0.00 | 0.00 | ✓ | 12.86 | 0.43 | 8.65 | 1.00 | 0.00 | 59.40 |

# 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 | 33 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 33 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 9 | 1 | 0 | 0 | 11000 | 10 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 10 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 10 | 1 | 0 | 0 | 11000 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 11 | 1 | 0 | 0 | 11000 | 30 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 30 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12 | 1 | 0 | 0 | 11000 | 30 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 30 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 13 | 1 | 0 | 0 | 11000 | 10 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 10 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 14 | 1 | 0 | 0 | 11000 | 40 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 40 | 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 | 8 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 8 | 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 |
| | 18 | 1 | 0 | 0 | 11000 | 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 19 | 1 | 0 | 0 | 11000 | 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | 0 | 0 | 11000 | 6 | 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 | 6600 | 0 | | Unrestricted | 0.00 | 33 |
| | | 2 | 0 | 0 | 0 | | 11000 | 6600 | 0 | | Unrestricted | 0.00 | 33 |
| | 9 | 1 | 0 | 0 | 0 | | 11000 | 2383 | 0 | | Unrestricted | 0.00 | 10 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2383 | 0 | | Unrestricted | 0.00 | 10 |
| | 10 | 1 | 0 | 0 | 0 | | 11000 | 3300 | 0 | | Unrestricted | 0.00 | 15 |
| | | 2 | 0 | 0 | 0 | | 11000 | 3300 | 0 | | Unrestricted | 0.00 | 15 |
| | 11 | 1 | 0 | 0 | 0 | | 11000 | 6050 | 0 | | Unrestricted | 0.00 | 30 |
| | | 2 | 0 | 0 | 0 | | 11000 | 6050 | 0 | | Unrestricted | 0.00 | 30 |
| | 12 | 1 | 0 | 0 | 0 | | 11000 | 6050 | 0 | | Unrestricted | 0.00 | 30 |
| | | 2 | 0 | 0 | 0 | | 11000 | 6050 | 0 | | Unrestricted | 0.00 | 30 |
| | 13 | 1 | 0 | 0 | 0 | | 11000 | 2383 | 0 | | Unrestricted | 0.00 | 10 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2383 | 0 | | Unrestricted | 0.00 | 10 |
| | 14 | 1 | 0 | 0 | 0 | | 11000 | 7883 | 0 | | Unrestricted | 0.00 | 40 |
| | | 2 | 0 | 0 | 0 | | 11000 | 7883 | 0 | | Unrestricted | 0.00 | 40 |
| | 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 | 2017 | 0 | | Unrestricted | 0.00 | 8 |
| | | 2 | 0 | 0 | 0 | | 11000 | 2017 | 0 | | Unrestricted | 0.00 | 8 |
| | 17 | 1 | 0 | 0 | 0 | | 11000 | 1467 | 0 | | Unrestricted | 0.00 | 5 |
| | | 2 | 0 | 0 | 0 | | 11000 | 1467 | 0 | | Unrestricted | 0.00 | 5 |
| | 18 | 1 | 0 | 0 | 0 | | 11000 | 1650 | 0 | | Unrestricted | 0.00 | 6 |
| | | 2 | 0 | 0 | 0 | | 11000 | 1650 | 0 | | Unrestricted | 0.00 | 6 |
| | 19 | 1 | 0 | 0 | 0 | | 11000 | 1650 | 0 | | Unrestricted | 0.00 | 6 |
| | | 2 | 0 | 0 | 0 | | 11000 | 1650 | 0 | | Unrestricted | 0.00 | 6 |

## 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 | 22/07/2021 16:03:05 | 22/07/2021 16:03:18 | 16:30 | 60 | 8306.44 | 526.80 | 121.77 | 54/1 | 13 | 8 | TC5/4 | 49/1 | 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 | 122 | -100 | 76661 | 4817 | 24.74 | 7480.50 | 825.95 | 8306.44 |

## 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 | 624 | 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 | 76661 | 76217 | 1116 | ✓ | 122 | ✓ | -100 | 5441 |

## 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 | 8.19 | 24.74 | 526.80 | 7480.50 | 47.17 | 34757.95 | 825.95 |

## Network Results: Queues and blocking

| Time Segment | Utilised storage (%) | Excess queue penalty (£ per hr) | Wasted time total (s (per cycle)) |
|---|---|---|---|
| 16:30-17:30 | 3941.06 | 0.00 | 1225.37 |

## 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 | 8306.44 |

# Point to Point Journey Time

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

| | | To | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A28 | B28 | C28 | D28 | E28 | F28 | G28 | H28 |
| From | A28 | 641.2 | 292.7 | 138.9 | 209.9 | 188.9 | 222.1 | 233.3 | 0.0 |
| | B28 | 568.6 | 0.0 | 141.3 | 158.4 | 155.2 | 159.7 | 168.0 | 0.0 |
| | C28 | 534.3 | 492.3 | 0.0 | 112.5 | 85.7 | 124.3 | 132.5 | 0.0 |
| | D28 | 481.6 | 329.5 | 181.5 | 0.0 | 230.8 | 91.5 | 100.6 | 0.0 |
| | E28 | 491.9 | 525.2 | 190.4 | 54.1 | 0.0 | 90.1 | 96.9 | 0.0 |
| | F28 | 488.5 | 351.2 | 200.1 | 256.6 | 236.6 | 0.0 | 17.5 | 0.0 |
| | G28 | 709.9 | 582.9 | 163.6 | 191.7 | 181.0 | 208.4 | 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) |
|---|---|---|---|---|---|---|
| 24 | C28 | C28 | 0 | 0.00 | 0 | 0.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **25** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **32** | C28 | E28 | 91 | 85.75 | 91 | 85.75 |
| **36** | C28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **42** | E28 | C28 | 43 | 188.61 | 43 | 188.61 |
| **43** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **44** | E28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **45** | E28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **68** | E28 | G28 | 85 | 97.83 | 85 | 97.83 |
| **91** | C28 | F28 | 21 | 124.26 | 21 | 124.26 |
| **92** | E28 | F28 | 10 | 90.15 | 10 | 90.15 |
| **96** | A28 | C28 | 71 | 148.37 | 71 | 148.37 |
| **98** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **99** | C28 | B28 | 41 | 480.77 | 41 | 480.77 |
| **100** | E28 | B28 | 292 | 466.69 | 292 | 466.69 |
| **101** | E28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **102** | A28 | C28 | 215 | 131.13 | 215 | 131.13 |
| **103** | F28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **104** | C28 | G28 | 304 | 131.91 | 304 | 131.91 |
| **105** | D28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **106** | G28 | C28 | 460 | 142.17 | 460 | 142.17 |
| **107** | A28 | B28 | 25 | 292.58 | 25 | 292.58 |
| **108** | B28 | G28 | 125 | 168.56 | 125 | 168.56 |
| **109** | C28 | G28 | 64 | 130.57 | 64 | 130.57 |
| **110** | E28 | G28 | 67 | 95.61 | 67 | 95.61 |
| **111** | B28 | G28 | 19 | 167.20 | 19 | 167.20 |
| **112** | F28 | G28 | 107 | 17.49 | 107 | 17.49 |
| **114** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **115** | B28 | C28 | 4 | 137.36 | 4 | 137.36 |
| **117** | H28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **122** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **123** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **124** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **126** | D28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **127** | D28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **128** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **129** | F28 | C28 | 26 | 189.69 | 26 | 189.69 |
| **130** | G28 | C28 | 99 | 141.95 | 99 | 141.95 |
| **131** | G28 | E28 | 72 | 175.98 | 72 | 175.98 |
| **132** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **133** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **135** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **136** | E28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **137** | H28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **138** | H28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **139** | D28 | E28 | 1 | 235.82 | 1 | 235.82 |
| **141** | D28 | E28 | 1 | 241.09 | 1 | 241.09 |
| **142** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **143** | E28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **145** | H28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **149** | C28 | B28 | 4 | 610.51 | 4 | 610.51 |
| **150** | E28 | B28 | 292 | 583.76 | 292 | 583.76 |
| **152** | H28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **153** | F28 | B28 | 39 | 351.24 | 39 | 351.24 |
| **155** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **156** | C28 | G28 | 60 | 138.98 | 60 | 138.98 |
| **157** | H28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **159** | B28 | E28 | 108 | 127.57 | 108 | 127.57 |
| **160** | B28 | G28 | 94 | 167.39 | 94 | 167.39 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **161** | B28 | F28 | 13 | 159.74 | 13 | 159.74 |
| **162** | B28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **164** | B28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **165** | B28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **166** | B28 | C28 | 92 | 141.44 | 92 | 141.44 |
| **167** | B28 | E28 | 369 | 163.32 | 369 | 163.32 |
| **169** | G28 | B28 | 146 | 584.55 | 146 | 584.55 |
| **170** | G28 | B28 | 146 | 583.41 | 146 | 583.41 |
| **171** | G28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **173** | F28 | E28 | 44 | 227.01 | 44 | 227.01 |
| **174** | F28 | F28 | 0 | 0.00 | 0 | 0.00 |
| **175** | G28 | C28 | 314 | 154.35 | 314 | 154.35 |
| **176** | G28 | E28 | 103 | 192.57 | 103 | 192.57 |
| **178** | G28 | E28 | 57 | 158.98 | 57 | 158.98 |
| **179** | F28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **181** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **182** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **183** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **184** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **185** | A28 | B28 | 25 | 292.91 | 25 | 292.91 |
| **186** | A28 | C28 | 100 | 148.74 | 100 | 148.74 |
| **187** | A28 | E28 | 130 | 200.28 | 130 | 200.28 |
| **188** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **190** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **192** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **193** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **194** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **195** | D28 | G28 | 140 | 100.82 | 140 | 100.82 |
| **196** | D28 | F28 | 59 | 91.51 | 59 | 91.51 |
| **197** | D28 | G28 | 20 | 98.82 | 20 | 98.82 |
| **198** | G28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **199** | D28 | B28 | 132 | 326.92 | 132 | 326.92 |
| **200** | D28 | B28 | 132 | 326.58 | 132 | 326.58 |
| **201** | D28 | C28 | 229 | 181.34 | 229 | 181.34 |
| **202** | G28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **203** | G28 | C28 | 10 | 343.90 | 10 | 343.90 |
| **204** | D28 | C28 | 80 | 181.44 | 80 | 181.44 |
| **205** | D28 | E28 | 12 | 233.87 | 12 | 233.87 |
| **206** | C28 | D28 | 300 | 112.50 | 300 | 112.50 |
| **207** | D28 | E28 | 1 | 188.21 | 1 | 188.21 |
| **208** | G28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **209** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **210** | A28 | G28 | 346 | 233.94 | 346 | 233.94 |
| **211** | A28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **212** | H28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **213** | A28 | E28 | 230 | 178.47 | 230 | 178.47 |
| **214** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **215** | G28 | F28 | 27 | 193.24 | 27 | 193.24 |
| **216** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **217** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **218** | A28 | G28 | 47 | 229.77 | 47 | 229.77 |
| **219** | A28 | F28 | 59 | 222.13 | 59 | 222.13 |
| **220** | H28 | F28 | 0 | 0.00 | 0 | 0.00 |
| **221** | A28 | A28 | 2 | 640.51 | 2 | 640.51 |
| **223** | A28 | E28 | 53 | 206.08 | 53 | 206.08 |
| **225** | D28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **227** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **228** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **229** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **230** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **231** | A28 | G28 | 10 | 229.58 | 10 | 229.58 |
| **232** | A28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **233** | B28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **234** | C28 | G28 | 41 | 131.72 | 41 | 131.72 |
| **235** | E28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **236** | E28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **238** | D28 | B28 | 44 | 337.93 | 44 | 337.93 |
| **239** | D28 | B28 | 43 | 337.58 | 43 | 337.58 |
| **240** | G28 | C28 | 50 | 425.20 | 50 | 425.20 |
| **241** | E28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **242** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **244** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **245** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **246** | E28 | C28 | 43 | 192.21 | 43 | 192.21 |
| **247** | E28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **248** | D28 | C28 | 31 | 182.96 | 31 | 182.96 |
| **249** | H28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **250** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **251** | H28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **256** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **257** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **259** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **261** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **262** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **263** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **264** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **265** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **266** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **267** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **268** | F28 | C28 | 50 | 205.45 | 50 | 205.45 |
| **269** | F28 | E28 | 44 | 246.13 | 44 | 246.13 |
| **271** | F28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **272** | F28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **273** | F28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **274** | F28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **275** | F28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **276** | F28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **277** | C28 | E28 | 2 | 82.84 | 2 | 82.84 |
| **279** | C28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **280** | C28 | G28 | 10 | 126.01 | 10 | 126.01 |
| **281** | C28 | F28 | 0 | 0.00 | 0 | 0.00 |
| **282** | C28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **283** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **284** | C28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **285** | C28 | H28 | 0 | 0.00 | 0 | 0.00 |
| **287** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **289** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **290** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **291** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **292** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **293** | C28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **294** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **295** | C28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **296** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **297** | C28 | B28 | 0 | 0.00 | 0 | 0.00 |
| **299** | G28 | C28 | 0 | 0.00 | 0 | 0.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **300** | G28 | B28 | 4 | 502.44 | 4 | 502.44 |
| **301** | G28 | C28 | 0 | 0.00 | 0 | 0.00 |
| **302** | G28 | E28 | 2 | 388.33 | 2 | 388.33 |
| **304** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **306** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **308** | G28 | E28 | 0 | 0.00 | 0 | 0.00 |
| **309** | G28 | G28 | 0 | 0.00 | 0 | 0.00 |
| **310** | G28 | F28 | 2 | 413.32 | 2 | 413.32 |
| **311** | G28 | A28 | 735 | 709.90 | 735 | 709.90 |
| **312** | G28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **313** | A28 | A28 | 2 | 641.90 | 2 | 641.90 |
| **314** | B28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **315** | B28 | A28 | 18 | 568.61 | 18 | 568.61 |
| **316** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **317** | C28 | A28 | 350 | 534.03 | 350 | 534.03 |
| **318** | C28 | A28 | 10 | 543.59 | 10 | 543.59 |
| **319** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **320** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **321** | C28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **322** | E28 | A28 | 24 | 479.10 | 24 | 479.10 |
| **323** | E28 | A28 | 419 | 492.58 | 419 | 492.58 |
| **324** | D28 | A28 | 5 | 481.58 | 5 | 481.58 |
| **325** | H28 | A28 | 0 | 0.00 | 0 | 0.00 |
| **326** | F28 | A28 | 157 | 488.53 | 157 | 488.53 |
| **327** | G28 | D28 | 11 | 208.75 | 11 | 208.75 |
| **328** | G28 | D28 | 120 | 190.19 | 120 | 190.19 |
| **329** | G28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **330** | G28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **331** | G28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **332** | A28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **333** | A28 | D28 | 12 | 209.91 | 12 | 209.91 |
| **334** | B28 | D28 | 165 | 158.40 | 165 | 158.40 |
| **335** | C28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **336** | E28 | D28 | 106 | 54.11 | 106 | 54.11 |
| **337** | D28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **338** | D28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **339** | D28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **340** | H28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **341** | H28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **342** | F28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **343** | F28 | D28 | 0 | 0.00 | 0 | 0.00 |
| **344** | F28 | D28 | 85 | 256.64 | 85 | 256.64 |

# 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 | 814 | 2050 | 28 | 0.00 | 82 | 10 | 28.24 | 22.65 | 72.37 | 9.67 |
| | **2** | (untitled) | 6 | 771-2 | E | 374 | 2050 | 28 | 6.00 | 38 | 138 | 19.21 | 13.44 | 59.97 | 3.62 |
| | **3** | (untitled) | 6 | 771-2 | E | 653 | 2050 | 28 | 8.00 | 66 | 37 | 15.45 | 9.55 | 30.96 | 3.27 |
| | **4** | (untitled) | 6 | 771-2 | E | 846 | 2050 | 28 | 2.00 | 85 | 5 | 24.92 | 18.89 | 63.77 | 9.60 |
| **Ac** | **1** | (untitled) | 6 | 771-2 | D | 830 < | 2263 | 22 | 1.00 | 96 | -6 | 68.48 | 61.29 | 145.66 | 21.44 + |
| | **2** | (untitled) | 6 | 771-2 | D | 264 | 2263 | 22 | 9.21 | 34 | 167 | 11.39 | 1.89 | 18.11 | 2.02 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | (untitled) | 6 | 771-2 | D | 528 | 2263 | 22 | 4.19 | 61 | 47 | 12.68 | 6.08 | 21.72 | 2.80 |
| Acf | 1 | (untitled) | 6 | | | 1094 | 2263 | 60 | 15.00 | 48 | 86 | 5.96 | 0.74 | 0.00 | 0.23 |
| | 2 | (untitled) | 6 | | | 528 | 2263 | 60 | 30.00 | 23 | 286 | 7.49 | 0.24 | 0.00 | 0.04 |
| Af | 1 | (untitled) | 6 | | | 1188 | 2050 | 60 | 21.00 | 58 | 55 | 7.87 | 1.21 | 0.00 | 0.40 |
| | 2 | (untitled) | 6 | | | 653 | 2050 | 60 | 29.00 | 32 | 183 | 7.05 | 0.41 | 0.00 | 0.07 |
| | 3 | (untitled) | 6 | | | 846 | 2050 | 60 | 21.00 | 41 | 118 | 7.29 | 0.62 | 0.00 | 0.14 |
| B | 1 | (untitled) | 1 | 769-1 | B | 265 | 2050 | 11 | 0.18 | 66 | 37 | 37.53 | 30.43 | 96.76 | 4.29 |
| | 2 | (untitled) | 1 | 769-1 | B | 354 | 2150 | 11 | 0.55 | 86 | 4 | 54.95 | 47.66 | 125.40 | 7.57 |
| | 3 | (untitled) | 1 | 769-1 | B | 358 | 2100 | 11 | 0.24 | 87 | 3 | 56.60 | 49.13 | 125.76 | 7.78 |
| | 4 | (untitled) | 1 | 769-1 | B | 350 | 2050 | 11 | 0.00 | 85 | 5 | 58.66 | 46.37 | 125.17 | 7.51 |
| Bc | 1 | (untitled) | 1 | 769-1 | A | 725 | 2050 | 37 | 7.00 | 56 | 61 | 18.37 | 6.41 | 44.03 | 6.31 |
| | 2 | (untitled) | 1 | 769-1 | A | 1001 | 2050 | 37 | 4.12 | 77 | 16 | 19.89 | 8.06 | 33.31 | 5.55 |
| | 3 | (untitled) | 1 | 769-1 | A | 939 | 2050 | 37 | 4.09 | 72 | 24 | 20.83 | 9.13 | 70.42 | 16.59 |
| Bcf | 1 | (untitled) | 1 | | | 1644 | 2263 | 60 | 60.00 | 73 | 24 | 6.43 | 2.10 | 0.00 | 0.96 |
| | 2 | (untitled) | 1 | | | 725 | 2263 | 60 | 20.00 | 32 | 181 | 5.75 | 0.37 | 0.00 | 0.08 |
| | 3 | (untitled) | 1 | | | 1001 | 2263 | 60 | 20.00 | 44 | 104 | 6.31 | 0.63 | 0.00 | 0.18 |
| | 4 | (untitled) | 1 | | | 939 | 2263 | 60 | 17.00 | 41 | 117 | 6.89 | 0.56 | 0.00 | 0.15 |
| Bf | 1 | (untitled) | 1 | | | 619 | 1800 | 60 | 0.00 | 34 | 162 | 27.86 | 0.52 | 0.00 | 0.09 |
| | 2 | (untitled) | 1 | | | 708 | 1800 | 60 | 0.00 | 39 | 129 | 28.06 | 0.65 | 0.00 | 0.13 |
| C | 1 | (untitled) | 2 | 769-2 | G | 465 | 2100 | 13 | 0.00 | 95 | -5 | 81.79 | 67.25 | 153.20 | 13.06 |
| | 2 | (untitled) | 2 | 769-2 | G | 399 | 2200 | 13 | 0.00 | 78 | 16 | 48.16 | 33.48 | 108.11 | 7.30 |
| | 3 | (untitled) | 2 | 769-2 | G | 143 | 2050 | 13 | 0.00 | 30 | 201 | 35.51 | 20.58 | 82.65 | 1.97 |
| Cf | 1 | (untitled) | 2 | | | 465 | 1965 | 60 | 0.00 | 24 | 280 | 17.64 | 0.28 | 0.00 | 0.04 |
| | 2 | (untitled) | 2 | | | 542 | 1965 | 60 | 0.00 | 28 | 226 | 17.85 | 0.35 | 0.00 | 0.05 |
| D | 1 | (untitled) | 3 | 770-1 | B | 393 | 2050 | 19 | 6.00 | 58 | 56 | 32.50 | 28.38 | 93.89 | 6.16 |
| | 2 | (untitled) | 3 | 770-1 | B | 446 | 1850 | 19 | 4.00 | 72 | 24 | 37.17 | 33.05 | 98.83 | 7.36 |
| | 3 | (untitled) | 3 | 770-1 | B | 459 | 2250 | 19 | 7.29 | 65 | 38 | 29.73 | 25.52 | 84.95 | 6.48 |
| Dc | 1 | (untitled) | 3 | 770-1 | A | 733 | 2100 | 31 | 4.28 | 66 | 36 | 14.78 | 10.98 | 52.36 | 6.42 |
| | 2 | (untitled) | 3 | 770-1 | A | 887 | 2100 | 31 | 4.00 | 79 | 14 | 20.52 | 16.87 | 57.08 | 8.41 |
| | 3 | (untitled) | 3 | 770-1 | A | 271 | 2100 | 31 | 9.00 | 24 | 272 | 14.79 | 11.28 | 46.27 | 2.36 |
| | 4 | (untitled) | 3 | 770-1 | A | 493 | 2100 | 31 | 14.00 | 44 | 104 | 25.30 | 21.94 | 80.60 | 6.41 |
| Dcf | 1 | (untitled) | 3 | | | 1190 | 2050 | 60 | 12.00 | 58 | 55 | 6.16 | 1.21 | 0.00 | 0.40 |
| | 2 | (untitled) | 3 | | | 1454 | 2100 | 60 | 14.55 | 74 | 22 | 7.72 | 2.78 | 8.08 | 3.56 |
| | 3 | (untitled) | 3 | | | 887 | 2100 | 60 | 20.31 | 57 | 59 | 8.81 | 3.44 | 25.54 | 5.06 |
| | 4 | (untitled) | 3 | | | 271 | 2100 | 60 | 25.00 | 13 | 598 | 6.74 | 0.13 | 0.00 | 0.01 |
| | 5 | (untitled) | 3 | | | 493 | 2100 | 60 | 39.49 | 26 | 248 | 5.95 | 0.93 | 16.74 | 2.41 |
| Df | 1 | (untitled) | 3-2 | 11 | B | 827 | 1900 | 43 | 0.00 | 59 | 52 | 29.66 | 5.66 | 45.37 | 6.86 |
| | 2 | (untitled) | 3-2 | 11 | B | 459 | 2250 | 43 | 0.00 | 28 | 224 | 27.10 | 3.10 | 30.57 | 2.60 |
| Dxp | 1 | (untitled) | 3-2 | 770-2 | D | 1190 | 2050 | 41 | 1.00 | 83 | 9 | 10.22 | 6.72 | 17.06 | 3.52 |
| | 2 | (untitled) | 3-2 | 770-2 | D | 721 | 2050 | 41 | 4.00 | 50 | 79 | 4.98 | 1.33 | 2.68 | 0.33 |
| Ec | 1 | (untitled) | 4 | 770-3 | F | 693 | 2150 | 24 | 17.00 | 77 | 16 | 19.43 | 15.67 | 68.94 | 7.90 |
| | 2 | (untitled) | 4 | 770-3 | F | 647 | 2263 | 24 | 3.00 | 69 | 31 | 18.38 | 14.75 | 54.71 | 5.79 |
| | 3 | (untitled) | 4 | 770-3 | F | 607 | 2263 | 24 | 0.00 | 64 | 40 | 23.71 | 20.20 | 74.37 | 7.53 |
| | 4 | (untitled) | 4 | 770-3 | F | 370 | 2250 | 24 | 7.00 | 39 | 128 | 11.78 | 8.34 | 26.44 | 2.45 |
| Ecf | 1 | (untitled) | 4 | | | 826 | 2100 | 60 | 25.11 | 53 | 71 | 9.56 | 6.12 | 37.67 | 5.47 |
| | 2 | (untitled) | 4 | | | 1187 | 2100 | 60 | 19.49 | 60 | 50 | 4.95 | 1.47 | 5.88 | 2.77 |
| | 3 | (untitled) | 4 | | | 647 | 2263 | 60 | 21.00 | 29 | 215 | 3.84 | 0.32 | 0.00 | 0.06 |
| | 4 | (untitled) | 4 | | | 1022 | 2300 | 60 | 30.61 | 71 | 26 | 9.12 | 5.19 | 16.77 | 5.42 |
| 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 | 826 | 2050 | 40 | 6.00 | 59 | 53 | 13.47 | 9.59 | 52.53 | 7.27 |
| | 2 | (untitled) | 4-2 | 770-4 | L | 494 | 2050 | 40 | 22.00 | 35 | 155 | 15.31 | 11.28 | 83.74 | 7.31 |
| 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 | 442 | 2100 | 15 | 0.00 | 79 | 14 | 38.59 | 32.05 | 99.17 | 7.38 |
| Fc | 1 | (untitled) | 5 | 771-1 | A | 742 | 2263 | 35 | 6.00 | 55 | 65 | 23.28 | 4.21 | 46.73 | 7.08 |
| | 2 | (untitled) | 5 | 771-1 | A | 698 | 2263 | 35 | 7.34 | 53 | 69 | 26.10 | 7.21 | 77.44 | 10.43 |
| | 3 | (untitled) | 5 | 771-1 | A | 875 | 2263 | 35 | 8.02 | 64 | 40 | 26.79 | 7.24 | 34.75 | 5.06 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ff** | **1** | (untitled) | 5 | | | 488 | 1900 | 60 | 0.00 | 26 | 250 | 33.41 | 0.33 | 0.00 | 0.04 |
| | **2** | (untitled) | 5 | | | 442 | 1900 | 60 | 0.00 | 23 | 287 | 33.33 | 0.29 | 0.00 | 0.04 |
| **G** | **1** | (untitled) | 2 | 769-2 | F | 296 < | 2050 | 13 | 5.92 | 107 | -16 | 344.56 | 328.50 | 398.31 | 31.76 + |
| | **2** | (untitled) | 2 | 769-2 | F | 333 | 2050 | 13 | 4.65 | 104 | -14 | 227.59 | 216.15 | 286.22 | 24.23 |
| **Gf** | **1** | (untitled) | 4 | | | 292 | 2050 | 60 | 34.02 | 14 | 532 | 3.07 | 0.15 | 0.47 | 2.33 |
| | **2** | (untitled) | 4 | | | 292 | 2050 | 60 | 34.15 | 14 | 530 | 3.11 | 0.22 | 2.58 | 2.37 |
| **xA** | **1** | (untitled) | 10 | | | 871 | 2263 | 60 | 14.00 | 38 | 134 | 17.72 | 0.50 | 0.00 | 0.12 |
| | **2** | (untitled) | 10 | | | 752 | 2263 | 60 | 24.00 | 33 | 171 | 17.64 | 0.40 | 0.00 | 0.08 |
| **xB** | **1** | (untitled) | | | | 1350 | Unrestricted | 60 | 7.00 | 0 | Unrestricted | 7.61 | 0.00 | 0.00 | 0.00 |
| **xC** | **1** | (untitled) | | | | 650 < | 1900 | 60 | 39.47 | 100 | -10 | 138.19 | 129.52 | 125.44 | 29.97 + |
| | **2** | (untitled) | | | | 650 < | 1900 | 60 | 39.47 | 100 | -10 | 136.83 | 128.13 | 127.94 | 29.92 + |
| **xD** | **1** | (untitled) | | | | 1190 | Unrestricted | 60 | 11.00 | 0 | Unrestricted | 9.13 | 0.00 | 0.00 | 0.00 |
| | **2** | (untitled) | | | | 721 | Unrestricted | 60 | 16.00 | 0 | Unrestricted | 9.21 | 0.00 | 0.00 | 0.00 |
| **xE** | **1** | (untitled) | | | | 826 | Unrestricted | 60 | 15.00 | 0 | Unrestricted | 13.04 | 0.00 | 0.00 | 0.00 |
| | **2** | (untitled) | | | | 494 | Unrestricted | 60 | 30.00 | 0 | Unrestricted | 13.04 | 0.00 | 0.00 | 0.00 |
| **xF** | **1** | (untitled) | | | | 799 | Unrestricted | 60 | 9.00 | 0 | Unrestricted | 12.14 | 0.00 | 0.00 | 0.00 |
| **Cc1** | **1** | (untitled) | 2 | 769-2 | E | 705 | 2050 | 32 | 8.00 | 62 | 44 | 16.93 | 10.38 | 60.76 | 10.80 |
| **E1** | **1** | (untitled) | 4 | 770-3 | G | 292 | 2050 | 25 | 11.00 | 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 | | | 45 | 649 | 60 | 39.00 | 7 | 1197 | 3.94 | 0.24 | 1.03 | 0.01 |
| **Cc2** | **2** | (untitled) | 2 | 769-2 | D | 1098 < | 2150 | 33 | 1.12 | 93 | -3 | 35.47 | 28.81 | 112.64 | 18.26 + |
| | **3** | (untitled) | 2 | 769-2 | D | 694 | 2050 | 33 | 6.00 | 60 | 51 | 14.85 | 7.83 | 29.71 | 3.43 |
| | **4** | (untitled) | 2 | 769-2 | D | 1146 < | 2150 | 33 | 0.15 | 94 | -5 | 40.58 | 34.14 | 96.81 | 20.12 + |
| | **5** | (untitled) | 2 | 769-2 | D | 350 | 2050 | 33 | 22.00 | 30 | 199 | 8.65 | 0.67 | 0.00 | 0.06 |
| **E2** | **3** | (untitled) | 4 | 770-3 | H | 292 | 2150 | 25 | 0.23 | 32 | 185 | 16.14 | 12.15 | 61.39 | 3.00 |
| | **4** | (untitled) | 4 | 770-3 | H | 292 | 2050 | 25 | 0.01 | 33 | 174 | 16.31 | 12.24 | 61.55 | 3.00 |
| **TC5** | **2** | (untitled) | TC771-6 | TC777-1 | A | 680 | 2263 | 39 | 10.00 | 44 | 105 | 6.17 | 3.41 | 26.08 | 2.96 |
| | **3** | (untitled) | TC771-6 | TC777-1 | A | 752 | 2263 | 39 | 15.00 | 49 | 85 | 4.60 | 1.83 | 7.54 | 1.68 |
| | **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 | 963 < | 1925 | 27 | 0.00 | 100 | -10 | 97.07 | 86.06 | 174.18 | 30.97 + |
| | **2** | (untitled) | TC771-6 | TC777-1 | B | 642 | 1966 | 27 | 0.00 | 65 | 38 | 25.62 | 14.56 | 70.72 | 7.94 |
| | **3** | (untitled) | TC771-6 | TC777-1 | B | 621 | 1947 | 27 | 0.00 | 64 | 41 | 25.37 | 14.25 | 69.60 | 7.22 |
| **TC35** | **1** | (untitled) | TC771-6 | TC777-1 | A | 191 | 1900 | 39 | 17.00 | 15 | 512 | 5.24 | 2.34 | 29.73 | 1.46 |
| **TC36** | **1** | (untitled) | TC771-6 | | | 552 | 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 | 429 | 60 | 0.00 | 25 | 261 | 4.75 | 3.21 | 33.65 | 2.46 |
| **TC39** | **2** | (untitled) | TC771-6 | | | 680 | 2263 | 60 | 29.00 | 30 | 200 | 2.88 | 0.34 | 0.00 | 0.06 |
| | **3** | (untitled) | TC771-6 | | | 752 | 2263 | 60 | 34.00 | 33 | 171 | 2.79 | 0.40 | 0.00 | 0.08 |
| **TC40** | **2** | (untitled) | TC771-6 | | | 787 | Unrestricted | 60 | 0.00 | 0 | Unrestricted | 4.23 | 0.00 | 0.00 | 0.00 |
| | **3** | (untitled) | TC771-6 | | | 752 | Unrestricted | 60 | 25.00 | 0 | Unrestricted | 4.02 | 0.00 | 0.00 | 0.00 |
| **TC41** | **1** | (untitled) | TC771-6 | TC777-1 | D | 222 | 1850 | 7 | 0.00 | 90 | 0 | 79.28 | 75.34 | 157.84 | 6.40 |
| | **2** | (untitled) | TC771-6 | TC777-1 | D | 223 | 1850 | 7 | 0.00 | 90 | 0 | 80.78 | 76.82 | 159.44 | 6.52 |
| **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 | | | 1007 | 1965 | 60 | 0.00 | 51 | 76 | 7.58 | 0.96 | 0.00 | 0.27 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1 | (untitled) | TC771-6 | | | 1095 < | 1900 | 60 | 29.10 | 112 | -20 | 218.23 | 215.09 | 279.05 | 78.12 + |
| | 2 | (untitled) | TC771-6 | | | 1263 | 1900 | 60 | 0.00 | 66 | 35 | 5.02 | 1.87 | 0.00 | 0.66 |
| 50 | 1 | (untitled) | 1 | | | 1327 | 1900 | 60 | 0.00 | 70 | 29 | 7.96 | 2.18 | 0.00 | 0.80 |
| 51 | 1 | (untitled) | 4-2 | | | 930 | 1900 | 60 | 0.00 | 49 | 84 | 5.40 | 0.91 | 0.00 | 0.23 |
| 52 | 1 | | 3-2 | 11 | A | 12 | 1800 | 7 | 7.00 | 5 | 1700 | 47.36 | 23.36 | 85.35 | 0.17 |
| 53 | 1 | | TC771-6 | TC777-1 | J | 16 | 1800 | 8 | 8.00 | 6 | 1411 | 24.64 | 13.64 | 68.00 | 0.19 |
| 54 | 1 | | 6 | 12 | A | 1644 < | 1800 | 44 | 0.00 | 122 | -26 | 344.20 | 341.20 | 327.53 | 171.35 + |
| 55 | 1 | | 4 | 13 | A | 799 < | 1800 | 44 | 3.00 | 59 | 52 | 18.21 | 15.81 | 95.65 | 12.86 + |

## 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 (%) | p ( |
| 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 | 33 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 1 | 769-1 | C | 0 | 11000 | 33 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 9 | 1 | (untitled) | 2 | 769-2 | J | 0 | 11000 | 10 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | J | 0 | 11000 | 10 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 10 | 1 | (untitled) | 2 | 769-2 | K | 0 | 11000 | 15 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | K | 0 | 11000 | 15 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 11 | 1 | (untitled) | | 769-2 | H | 0 | 11000 | 30 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | 769-2 | H | 0 | 11000 | 30 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 12 | 1 | (untitled) | 2 | 769-2 | I | 0 | 11000 | 30 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 2 | 769-2 | I | 0 | 11000 | 30 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 13 | 1 | (untitled) | | TC777-1 | I | 0 | 11000 | 10 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | I | 0 | 11000 | 10 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 14 | 1 | (untitled) | | TC777-1 | F | 0 | 11000 | 40 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | F | 0 | 11000 | 40 | 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 | 8 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | | TC777-1 | H | 0 | 11000 | 8 | 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 | |
| 18 | 1 | (untitled) | 12 | 12 | B | 0 | 11000 | 6 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 12 | 12 | B | 0 | 11000 | 6 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| 19 | 1 | (untitled) | 13 | 13 | B | 0 | 11000 | 6 | 0 | Unrestricted | 0.00 | 0.00 | 0.00 | 100 | |
| | 2 | (untitled) | 13 | 13 | B | 0 | 11000 | 6 | 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** | 6662.17 | 701.16 | 9.50 | 526.80 | 7480.50 | 825.95 | 0.00 | 8306.44 |
| **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** | 6662.17 | 701.16 | 9.50 | 526.80 | 7480.50 | 825.95 | 0.00 | 8306.44 |

- *< = 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***