TRANSYT 15

Filename: M62 JN 28 CRF Scheme_Mar 20- Scenario 4a-PM - Mitigation - 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: 16/07/2021 12:20:26

File summary

File description

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

Model and Results

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

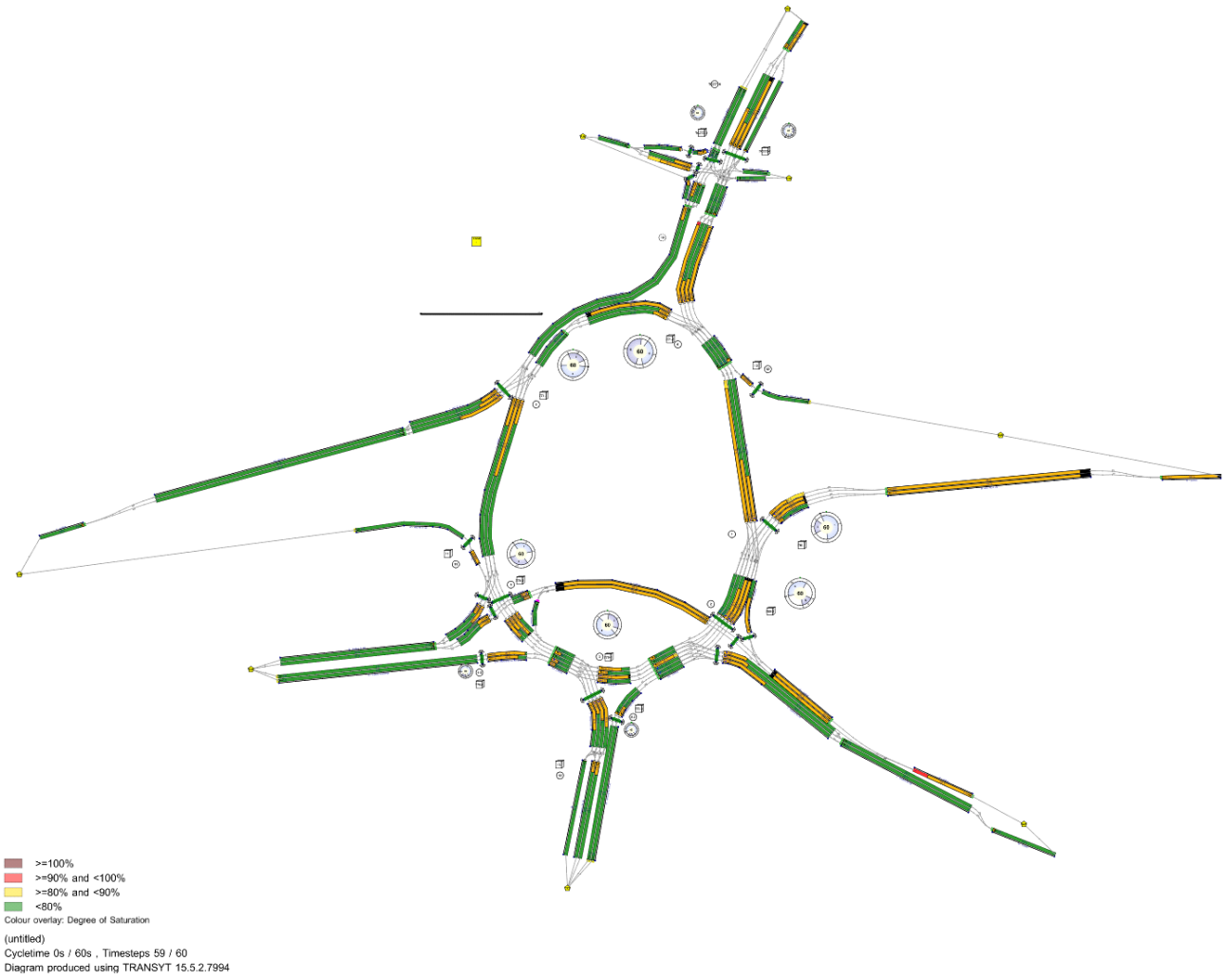
Units

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

Sorting

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

Network Diagrams



A2 - 2019 Base + Committed + Cumulative PM - Mitigation + LCC Scheme
D2 - 2019 Base + Committed + Cumulative PM - Mitigation and 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	16/07/2021 12:19:57	16/07/2021 12:20:08	16:30	60	10885.77	700.01	126.63	53/1	17	11	TC5/4	50/1	TC5

Analysis Set Details

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

Demand Set Details

Name	Description	Composite	Demand sets	Start time (HH:mm)	Locked
2019 Base + Committed + Cumulative PM - Mitigation and 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, 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			4
53			6
55			TC771-6
56			3-2

Traffic Streams

Arm	Traffic Stream	Name	Description	Auto length	Length (m)	Has Saturation Flow	Saturation flow source	Saturation flow (PCU/hr)	Auto-calculate cell saturation flow	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Allow Nearside Turn On Red
A	1	(untitled)	M62E	✓	74.52	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.88	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.61	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.35	✓	Directly entered	2050		2050	✓		Normal	
Ac	1	(untitled)	M62E	✓	95.80	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Wake	✓	92.34	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.95	✓	Directly entered	2263		2263	✓		Normal	
Acf	1	(untitled)		✓	69.59	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	70.42	✓	Directly entered	2263		2263			Normal	
Af	1	(untitled)	M62E/Wake	✓	54.87	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	54.67	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	54.84	✓	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	✓	132.91	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Dews	✓	131.52	✓	Directly entered	2050		2263	✓		Normal	
	3	(untitled)	Brad/M62W	✓	130.13	✓	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	✓	55.91	✓	Directly entered	2250		2250	✓		Normal	
	4	(untitled)	Leeds/M62/Wake	✓	59.65	✓	Directly entered	2250		2250	✓		Normal	
Dc	**1**	(untitled)	Brad	✓	50.27	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.34	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	46.42	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	44.49	✓	Directly entered	2100		2100	✓		Normal	
Dcf	**1**	(untitled)		✓	65.95	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	65.92	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	66.37	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	66.58	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.90	✓	Directly entered	2100		2100			Normal	
	6	(untitled)		✓	67.13	✓	Directly entered	2100		2100			Normal	
Df	**1**	(untitled)			200.00	✓	Sum of lanes	1900			✓		Normal	
	2	(untitled)			200.00	✓	Directly entered	2250			✓		Normal	
Dxp	**1**	(untitled)		✓	46.62	✓	Directly entered	2050			✓		Normal	
	2	(untitled)		✓	48.64	✓	Directly entered	2050			✓		Normal	
Ec	**1**	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal	
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal	
Ecf	**1**	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal	
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	46.93	✓	Directly entered	2263		2263			Normal	
	4	(untitled)		✓	47.50	✓	Directly entered	2300		2300			Normal	
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal	
Ef	**1**	(untitled)		✓	127.54	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal	
Exp	**1**	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal	
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal	
F	**1**	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal	
	1	(untitled)	Leeds	✓	183.21	✓	Directly entered	2263		2263	✓		Normal	

Fc	**2**	(untitled)	Leeds	✓	181.45	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	M62E/Dews	✓	180.28	✓	Directly entered	2263		2263	✓		Normal	
Ff	**1**	(untitled)		✓	275.73	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	275.39	✓	Sum of lanes	1900		1900			Normal	
G	**1**	(untitled)		✓	156.15	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)		✓	152.60	✓	Directly entered	2050		2050	✓		Normal	
Gf	**1**	(untitled)		✓	38.89	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	38.45	✓	Directly entered	2050		2050			Normal	
xA	**1**	(untitled)		✓	229.66	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	230.01	✓	Directly entered	2263		2263			Normal	
xB	**1**	(untitled)		✓	50.23								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)		✓	105.90								Normal	
Cc1	**1**	(untitled)	Wake	✓	95.53	✓	Directly entered	2050		2050	✓		Normal	
E1	**1**	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal	
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal	
Gf1	**1**	(untitled)		✓	47.81							✓	Normal	
Cc2	**2**	(untitled)	Dews	✓	90.18	✓	Directly entered	2150		2100	✓		Normal	
	3	(untitled)	Brad/M62W	✓	88.93	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Dews/Brad	✓	90.38	✓	Directly entered	2150		2100	✓		Normal	
	5	(untitled)	Leeds	✓	87.92	✓	Directly entered	2050		2050	✓		Normal	
	6	(untitled)	Leeds	✓	87.42	✓	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				20.00	✓	Directly entered	1800			✓		Normal	
53	1				25.00	✓	Directly entered	1800			✓		Normal	
55	1				91.00	✓	Sum of lanes	1800			✓		Normal	
56	1				200.00	✓	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)											
	1	1	(untitled)											

Bcf	**2**	**1**	(untitled)												
	3	**1**	(untitled)												
	4	**1**	(untitled)												
Bf	**1**	**1**	(untitled)												1800
	2	**1**	(untitled)												1800
C	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
Cf	**1**	**2**	(untitled)												1965
	2	**1**	(untitled)												1965
D	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
	4	**3**	(untitled)												
Dc	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
	4	**4**	(untitled)												
Dcf	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
	4	**4**	(untitled)												
	5	**5**	(untitled)												
	6	**5**	(untitled)												
Df	**1**	**1**	(untitled)												1900
	2	**2**	(untitled)												
Dxp	**1**	**1**	(untitled)												
	2	**1**	(untitled)												
Ec	**1**	**1**	(untitled)												
	2	**1**	(untitled)												
	3	**1**	(untitled)												
	4	**1**	(untitled)												
Ecf	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
	4	**4**	(untitled)												
	5	**4**	(untitled)												
Ef	**1**	**1**	(untitled)												
	2	**2**	(untitled)												1900
Exp	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
F	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
Fc	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
Ff	**1**	**1**	(untitled)												1900
	2	**2**	(untitled)												1900
G	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
Gf	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
xA	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
xB	**1**	**1**	(untitled)												
xC	**1**	**1**	(untitled)												1900
	2	**2**	(untitled)												1900

xD	1	1	(untitled)											
	2	2	(untitled)											
xE	1	1	(untitled)											
	2	2	(untitled)											
xF	1	1	(untitled)											
Cc1	1	1	(untitled)											
E1	1	1	(untitled)											
	2	2	(untitled)											
Gf1	1	1	(untitled)											
Cc2	2	2	(untitled)											
	3	3	(untitled)											
	4	4	(untitled)											
	5	5	(untitled)											
	6	5	(untitled)											
E2	3	3	(untitled)											
	4	4	(untitled)											
TC5	2	1	(untitled)		✓	N/A	Clearly Good	0	3.50	✓	0	99999.00		2263
	3	1	(untitled)											
	4	1	(untitled)											1800
TC9	1	1	(untitled)											
	2	1	(untitled)		✓	N/A	Average	0	3.70	✓	0	99999.00		1966
	3	1	(untitled)		✓	N/A	Average	0	3.50	✓	0	99999.00		1947
TC35	1	1	(untitled)											
TC36	1	1	(untitled)											1800
TC37	1	1	(untitled)											
TC38	1	1	(untitled)											
TC39	2	1	(untitled)											
	3	1	(untitled)											
TC40	2	1	(untitled)											
	3	1	(untitled)											
TC41	1	1	(untitled)											
	2	1	(untitled)											
TC42	1	1	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771
TC43	1	1	(untitled)											1800
47	1	1	(untitled)											
48	1	1	(untitled)											1965
49	1	2	(untitled)											
	2	1	(untitled)											
50	1	1	(untitled)											1900
51	1	1	(untitled)											1900
52	1	1	(untitled)											
53	1	1	(untitled)											
55	1	1	(untitled)											1800
56	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							
	4	CTM	100	100	100		0.00							
Dc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Dcf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
Df	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Dxp	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Ec	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ecf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Ef	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Exp	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
F	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	1	CTM	100	100	100		0.00							

Fc	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Ff	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00	✓	0.00	0.00	✓	2	0.00	0.00
G	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xA	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xB	**1**	NetworkDefault	100	100	100		0.00							
xC	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xE	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xF	**1**	NetworkDefault	100	100	100		0.00							
Cc1	**1**	CTM	100	100	100		0.00							
E1	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf1	**1**	NetworkDefault	100	100	100		0.00							
Cc2	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
E2	**3**	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC5	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC9	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC35	**1**	CTM	100	100	100		0.00							
TC36	**1**	NetworkDefault	100	100	100		0.00							
TC37	**1**	CTM	100	100	100		0.00							
TC38	**1**	CTM	100	100	100		0.00							
TC39	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC40	**2**	PDM	100	100	100		0.00							
	3	PDM	100	100	100		0.00							
TC41	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
TC42	**1**	NetworkDefault	100	100	100		0.00							
TC43	**1**	NetworkDefault	100	100	100		0.00							
47	**1**	CTM	100	100	100		0.00							
48	**1**	NetworkDefault	100	100	100		0.00							
49	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
50	**1**	NetworkDefault	100	100	100		0.00							
51	**1**	NetworkDefault	100	100	100		0.00							
52	**1**	NetworkDefault	100	100	100		0.00							
53	**1**	NetworkDefault	100	100	100		0.00							
55	**1**	NetworkDefault	100	100	100		0.00							
56	**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	394	394
	3	587	587
	4	928	928
Ac	1	829	829
	2	264	264
	3	530	530
Acf	1	1093	1093
	2	530	530
Af	1	1286	1286
	2	587	587
	3	928	928
B	1	109	109
	2	366	366
	3	454	454
	4	396	396
Bc	1	745	745
	2	850	850
	3	1108	1108
Bcf	1	1721	1721
	2	745	745
	3	850	850
	4	1108	1108
Bf	1	475	475
	2	850	850
C	1	443	443
	2	295	295
	3	269	269
Cf	1	443	443
	2	564	564
D	1	393	393
	2	204	204
	3	296	296
	4	405	405
Dc	1	557	557
	2	1064	1064
	3	240	240
	4	524	524
Dcf	1	1062	1062
	2	855	855
	3	557	557
	4	1064	1064
	5	240	240

	6	524	524
Df	1	585	585
	2	701	701
Dxp	1	1062	1062
	2	855	855
Ec	1	693	693
	2	444	444
	3	800	800
	4	380	380
Ecf	1	650	650
	2	1364	1364
	3	444	444
	4	800	800
	5	425	425
Ef	1	798	798
	2	584	584
Exp	1	650	650
	2	671	671
F	1	219	219
	2	269	269
	3	443	443
Fc	1	598	598
	2	832	832
	3	886	886
Ff	1	488	488
	2	443	443
G	1	315	315
	2	315	315
Gf	1	292	292
	2	292	292
xA	1	752	752
	2	872	872
xB	1	1721	1721
xC	1	684	684
	2	679	679
xD	1	1062	1062
	2	855	855
xE	1	650	650
	2	671	671
xF	1	799	799
Cc1	1	734	734
E1	1	292	292
	2	506	506
Gf1	1	45	45
Cc2	2	970	970
	3	769	769
	4	1061	1061
	5	98	98
	6	396	396
E2	3	292	292
	4	292	292
TC5	2	561	561
	3	872	872
	4	0	0
TC9	1	1076	1076
	2	549	549
	3	714	714
TC35	1	191	191

TC36	**1**	551	551
TC37	**1**	107	107
TC38	**1**	107	107
TC39	**2**	561	561
	3	872	872
TC40	**2**	668	668
	3	872	872
TC41	**1**	196	196
	2	248	248
TC42	**1**	0	0
TC43	**1**	0	0
47	**1**	1363	1363
48	**1**	1007	1007
49	**1**	1094	1094
	2	1263	1263
50	**1**	1325	1325
51	**1**	931	931
52	**1**	799	799
53	**1**	1721	1721
55	**1**	18	18
56	**1**	12	12

Signals

Arm	Traffic Stream	Controller stream	Phase	Second phase enabled
A	**1**	771-2	E	
	2	771-2	E	
	3	771-2	E	
	4	771-2	E	
Ac	**1**	771-2	D	
	2	771-2	D	
	3	771-2	D	
B	**1**	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
Bc	**1**	769-1	A	
	2	769-1	A	
	3	769-1	A	
C	**1**	769-2	G	
	2	769-2	G	
	3	769-2	G	
D	**1**	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	770-1	B	
Dc	**1**	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
Df	**1**	13	B	
	2	13	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	
	6	769-2	D	
E2	3	770-3	H	
	4	770-3	H	
TC5	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	1	TC777-1	A	
TC37	1	TC777-2	J	
TC41	1	TC777-1	D	
	2	TC777-1	D	
TC42	1	TC777-1	E	
52	1	11	A	
53	1	12	A	
55	1	TC777-1	J	
56	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
56	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)
	1	1	Af/1	A/1	5.59	48.00	✓	Straight	Straight Movement

A	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	6.58	30.00	✓	Nearside	10.60
	2	1	TC42/1	Af/2	6.56	30.00	✓	Nearside	10.60
	3	1	TC42/1	Af/3	6.58	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	9.97	48.00	✓	Offside	33.73
	2	1	Bcf/3	Bc/2	9.86	48.00	✓	Offside	30.42
	3	1	Bcf/4	Bc/3	9.76	48.00	✓	Offside	27.10
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	4.19	48.00	✓	Straight	Straight Movement
	4	1	Df/2	D/4	4.47	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	3.77	48.00	✓	Offside	52.98
	2	1	Dcf/4	Dc/2	3.63	48.00	✓	Offside	49.67
	3	1	Dcf/5	Dc/3	3.48	48.00	✓	Offside	46.35
	4	1	Dcf/6	Dc/4	3.34	48.00	✓	Offside	43.04
Dcf	1	1	Cc2/2	Dcf/1	4.95	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.94	48.00	✓	Straight	Straight Movement
	3	1	Cc2/4	Dcf/3	4.98	48.00	✓	Straight	Straight Movement
	4	1	C/2	Dcf/4	4.99	48.00	✓	Nearside	58.86
	5	1	Cc2/5	Dcf/5	5.02	48.00	✓	Straight	Straight Movement
	6	1	C/3	Dcf/6	5.04	48.00	✓	Nearside	62.17

Dxp	**1**	**1**	Dcf/1	Dxp/1	3.50	48.00	✓	Nearside	80.62
	2	**1**	Dcf/2	Dxp/2	3.65	48.00	✓	Nearside	83.93
Ec	**1**	**1**	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	**1**	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	**1**	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	**1**	Ecf/5	Ec/4	3.38	48.00	✓	Offside	66.48
Ecf	**1**	**1**	Dc/1	Ecf/1	3.45	48.00	✓	Offside	76.11
	2	**1**	Dc/2	Ecf/2	3.48	48.00	✓	Offside	72.80
	3	**1**	Dc/3	Ecf/3	3.52	48.00	✓	Offside	69.49
	4	**1**	Dc/4	Ecf/4	3.56	48.00	✓	Offside	66.17
	5	**1**	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	**1**	**1**	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	**1**	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	**1**	**1**	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	**1**	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	**1**	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	**1**	**1**	Ec/2	Fc/1	18.84	35.00	✓	Straight	Straight Movement
	2	**1**	Ec/3	Fc/2	18.66	35.00	✓	Straight	Straight Movement
	3	**1**	Ec/4	Fc/3	18.54	35.00	✓	Straight	Straight Movement
Ff	**1**	**1**	51/1	Ff/1	33.09	30.00	✓	Straight	Straight Movement
	2	**1**	51/1	Ff/2	33.05	30.00	✓	Straight	Straight Movement
G	**1**	**1**	Gf/1	G/1	16.06	35.00	✓	Offside	96.83
	2	**1**	Gf/2	G/2	11.45	48.00	✓	Offside	93.51
Gf	**1**	**1**	E2/3	Gf/1	2.92	48.00	✓	Straight	Straight Movement
	2	**1**	E2/4	Gf/2	2.88	48.00	✓	Straight	Straight Movement
xA	**1**	**1**	F/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**1**	Fc/2	xA/2	17.25	48.00	✓	Straight	Straight Movement
xB	**1**	**1**	53/1	xB/1	6.03	30.00	✓	Nearside	35.35
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**	52/1	xF/1	7.94	48.00	✓	Nearside	24.96
Cc1	**1**	**1**	B/1	Cc1/1	8.60	40.00	✓	Straight	Straight Movement
E1	**1**	**1**	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	**1**	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	**1**	**1**	Ecf/5	Gf1/1	3.59	48.00	✓	Offside	21.77
Cc2	**2**	**1**	B/1	Cc2/2	8.12	40.00	✓	Straight	Straight Movement
	3	**1**	B/3	Cc2/3	8.00	40.00	✓	Straight	Straight Movement
	4	**1**	B/2	Cc2/4	8.13	40.00	✓	Straight	Straight Movement
	5	**1**	B/3	Cc2/5	7.91	40.00	✓	Straight	Straight Movement

	6	1	B/4	Cc2/6	7.87	40.00	✓	Straight	Straight Movement
E2	3	1	Ef/2	E2/3	4.00	48.00	✓	Nearside	43.25
	4	1	Ef/2	E2/4	4.07	48.00	✓	Nearside	43.25
TC5	2	1	xA/1	TC5/2	2.76	30.00	✓	Straight	Straight Movement
	3	1	xA/2	TC5/3	2.76	30.00	✓	Straight	Straight Movement
	4	1	xA/2	TC5/4	2.93	30.00	✓	Straight	Straight Movement
TC9	1	1	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	1	49/2	TC9/2	11.05	30.00	✓	Straight	Straight Movement
	3	1	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
TC35	1	1	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
TC37	1	1	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
TC38	1	1	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
TC39	2	1	TC5/2	TC39/2	2.54	50.00	✓	Straight	Straight Movement
	3	1	TC5/3	TC39/3	2.40	50.00	✓	Straight	Straight Movement
TC40	2	1	TC38/1	TC40/2	4.23	50.00	✓	Nearside	11.92
	3	1	TC39/3	TC40/3	4.02	50.00	✓	Offside	77.43
TC41	1	1	TC36/1	TC41/1	3.93	50.00	✓	Straight	Straight Movement
	2	1	TC36/1	TC41/2	3.97	50.00	✓	Straight	Straight Movement
TC43	1	1	TC9/1	TC43/1	3.74	50.00	✓	Nearside	6.11
47	1	1	xC/1	47/1	16.04	30.00	✓	Straight	Straight Movement
52	1	1	E1/1	52/1	2.40	30.00	✓	Nearside	35.05
53	1	1	Bcf/1	53/1	3.00	30.00	✓	Nearside	61.79
55	1	1	49/1	55/1	10.92	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	6.58	30.00	✓	Straight	Straight Movement
	2	2	TC9/2	Af/2	6.56	30.00	✓	Straight	Straight Movement
	3	2	TC9/3	Af/3	6.58	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	56/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	2	56/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	2	56/1	D/3	4.19	48.00	✓	Straight	Straight Movement
	4	2	56/1	D/4	4.47	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/1	Dcf/3	4.98	48.00	✓	Nearside	55.54
	4	2	Cc2/3	Dcf/4	4.99	48.00	✓	Straight	Straight Movement
	5	2	C/3	Dcf/5	5.02	48.00	✓	Nearside	62.17

	6	2	Cc2/6	Dcf/6	5.04	48.00	✓	Offside	96.74
Ecf	1	2	D/1	Ecf/1	3.45	48.00	✓	Nearside	43.36
	2	2	D/1	Ecf/2	3.48	48.00	✓	Nearside	43.36
	3	2	D/2	Ecf/3	3.52	48.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	3.56	48.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	3.64	48.00	✓	Nearside	53.30
Fc	1	2	E1/1	Fc/1	20.61	32.00	✓	Nearside	58.94
	2	2	E1/1	Fc/2	20.41	32.00	✓	Nearside	60.85
	3	2	E1/2	Fc/3	20.28	32.00	✓	Nearside	64.16
G	1	2	Gf1/1	G/1	16.06	35.00	✓	Offside	17.91
	2	2	Gf1/1	G/2	11.45	48.00	✓	Offside	15.13
xA	1	2	Fc/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	2	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
Cc1	1	2	Bc/1	Cc1/1	6.37	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.82	30.00	✓	Straight	Straight Movement
	3	2	Bc/3	Cc2/3	10.67	30.00	✓	Straight	Straight Movement
	4	2	Bc/3	Cc2/4	10.85	30.00	✓	Straight	Straight Movement
	5	2	Bc/3	Cc2/5	10.55	30.00	✓	Offside	97.42
	6	2	Bc/3	Cc2/6	10.49	30.00	✓	Offside	94.10
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
52	1	2	Ec/1	52/1	2.40	30.00	✓	Straight	Straight Movement
Acf	1	3	Fc/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
Af	1	3	TC41/1	Af/1	6.58	30.00	✓	Offside	6.19
	2	3	TC41/2	Af/2	6.56	30.00	✓	Offside	6.00
	3	3	TC41/2	Af/3	6.58	30.00	✓	Offside	6.00
Bcf	2	3	Ac/3	Bcf/2	3.99	57.00	✓	Offside	86.42
xA	2	3	F/2	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	2	3	Bc/2	Cc2/2	10.82	30.00	✓	Straight	Straight Movement
Af	1	4	55/1	Af/1	6.58	30.00	✓	Straight	Straight Movement
	2	4	55/1	Af/2	6.56	30.00	✓	Straight	Straight Movement
	3	4	55/1	Af/3	6.58	30.00	✓	Straight	Straight Movement

Give Way Data

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

Give Way Data - All Movements - Conflicts

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

Pedestrian Crossings

Pedestrian Crossings

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

Pedestrian Crossings - Signals

Crossing	Controller stream	Phase	Second phase enabled
1	770-2	E	
2	770-1	C	
3	770-4	M	
4	770-3	J	
5	770-3	I	
6	770-3	K	
7	771-1	C	
8	769-1	C	
9	769-2	J	
10	769-2	K	
11	769-2	H	
12	769-2	I	
13	TC777-1	I	
14	TC777-1	F	
15	TC777-1	G	
16	TC777-1	H	
17	TC777-2	K	
18	11	B	
19	12	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, 56/1	xD/1, xD/2	#804000
	D28	(untitled)	51/1	xF/1	#FF00FF
	E28	(untitled)	Ef/2, Ef/1	xE/1, xE/2	#FF8000
	F28	(untitled)	TC36/1	TC35/1	#FFA500
	G28	(untitled)	49/2, 49/1	TC40/2, TC40/3	#0000FF
	H28	(untitled)	TC42/1	TC43/1	#008000

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	N Cal (P
	32	l1	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	
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
	81		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
	82		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	

83		G28	B28	49/1, 55/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	
84		G28	B28	49/1, 55/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Disabled	
85		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
86		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
87		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	
88		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	
89		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
90		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
91	I2	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	
100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Fixed	
102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
104	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	
107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	
109	I3	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
111		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	
113		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	
114		C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	
116		G28	G28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
117		G28	F28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed	
118		G28	G28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	
124		H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
125		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
128		F28	F28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
129		F28	H28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
130		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
131		G28	G28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
132		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
133		F28	H28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
136		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	
138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	
139		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
140		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	
141		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	
142		C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	
144		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	
145		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
146		G28	A28	49/1, 55/1, Af/1, A/1, Bcf/1, 53/1, xB/1	Fixed	
147		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
148		G28	C28	49/1, 55/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
149		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	
151		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	
152		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	
153		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
154		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal	
155		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
156		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal	
157		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
158		F28	D28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal	
159		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
160		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
162		C28	E28	56/1, D/1, Ecf/1, Exp/1, xE/1	Fixed	

1	163		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	164		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	165		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal
	166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal
	167		C28	G28	56/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Disabled
	169		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal
	170		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal
	171		G28	H28	49/1, TC9/1, TC43/1	Normal
	172		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, 53/1, xB/1	Normal
	181		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	183		C28	B28	56/1, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Fixed
	184		C28	B28	56/1, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Disabled
	185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal
	186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal
	196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal
	234	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	235		E28	G28	Ef/1, E1/1, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Disabled
	236		E28	H28	Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1	Normal
	294		C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal
	295		C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal
	296		D28	G28	51/1, Ff/1, F/2, xA/2, TC5/3, TC39/3, TC40/3	Normal
	297		D28	H28	51/1, Ff/1, F/2, xA/2, TC5/4, TC43/1	Normal
	304		C28	D28	Df/1, D/1, Ecf/2, Ec/1, 52/1, xF/1	Normal
	305		E28	D28	Ef/1, E1/1, 52/1, xF/1	Normal
	315		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, 53/1, xB/1	Normal
	320		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Fixed
	321		C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	323		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Fixed
	324		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	325		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	326		H28	A28	TC42/1, Af/1, A/1, Bcf/1, 53/1, xB/1	Normal
	383		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal
	384		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal
	385		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal
	386		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Disabled
	387		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Normal
	391		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal
	392		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	393		B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal
	402		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal
	403		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	423		C28	D28	56/1, D/1, Ecf/2, Ec/1, 52/1, xF/1	Fixed
	424		C28	E28	56/1, D/1, Ecf/2, Exp/2, xE/2	Disabled
	425		C28	G28	56/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed
	426		C28	F28	56/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed
	427		C28	H28	56/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal
	432		C28	G28	56/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Disabled
	433		C28	H28	56/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal
	434		C28	A28	56/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Fixed
	436		C28	A28	56/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 53/1, xB/1	Disabled
	441		B28	E28	48/1, Cf/1, C/1, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed
	448		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	449		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	450		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal
	451		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal
	458		G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	475		G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed

	476		G28	C28	49/1, 55/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	477		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	
	478		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	479		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	480		C28	C28	56/1, 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	
	481		C28	C28	56/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	482		C28	C28	56/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	483		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	
	484		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	
	485		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	
	487		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal	
	488		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	489		G28	D28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Fixed	
	490		G28	E28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Disabled	
	491		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, 52/1, xF/1	Normal	
	492		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	493		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	494		G28	C28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
	495		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	496		G28	C28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
	497		G28	E28	49/1, 55/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
	498		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	499		C28	C28	56/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	500		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	501		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	502		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	
	503		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	504		H28	C28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	505		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	506		F28	C28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	507		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	508		C28	C28	56/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	509		F28	C28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	

Signal Timings

Network Default: 60s cycle time; 60 steps

Controller Stream 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	Blackout Time (s)
11	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)
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	49, 0

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	5	49	44	1	7
	2	✓	2	B	54	0	6	1	6

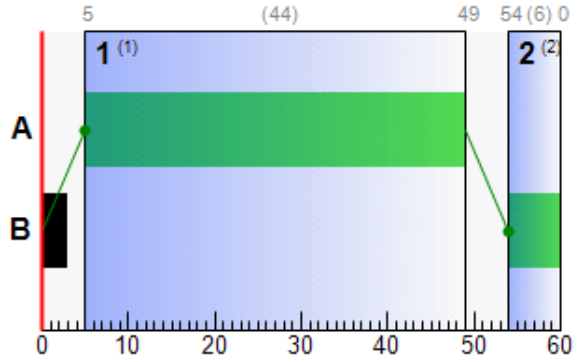
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
11	A	1	✓	5	49	44
	B	1	✓	54	0	6

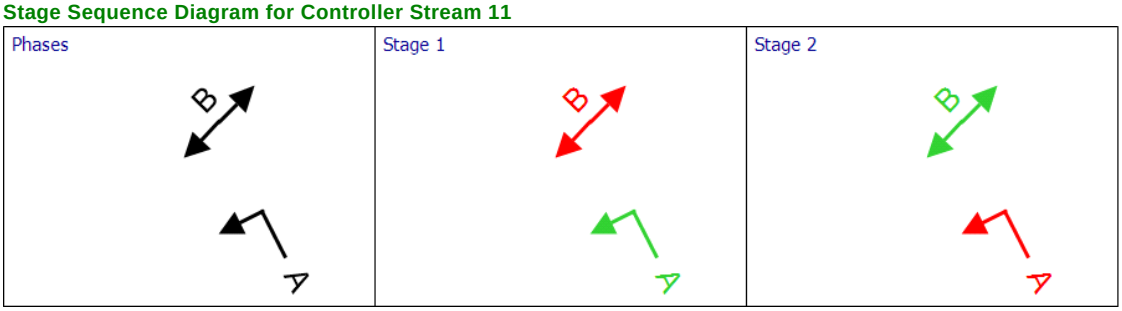
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
52	1	4	11	A	5	49	44

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			None		

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	49, 0

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	5	49	44	1	7
	2	✓	2	B	54	0	6	1	6

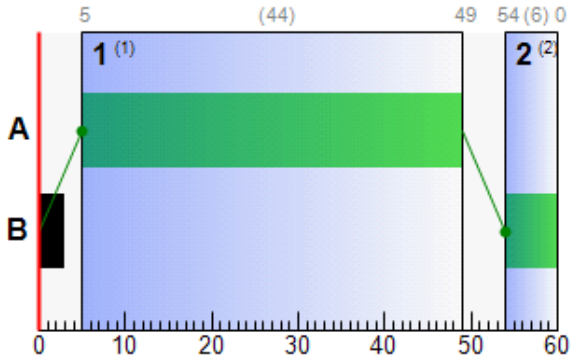
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
12	A	1	✓	5	49	44
	B	1	✓	54	0	6

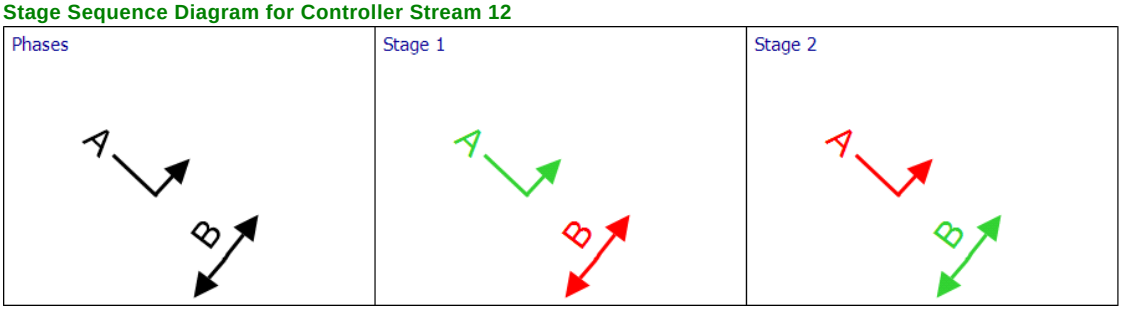
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
53	1	6	12	A	5	49	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
13	(ALL)	(untitled)	7	300	0	0	Traffic

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	7, 55

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	0	7	7	1	7
	2	✓	2	B	12	55	43	1	7

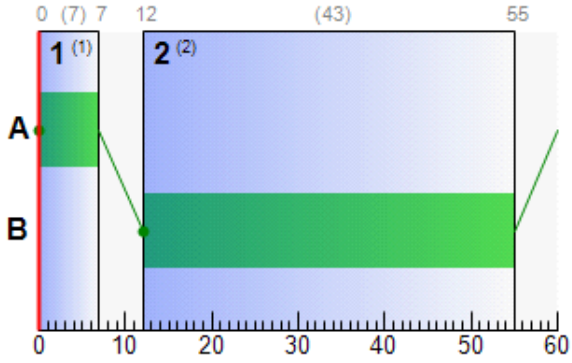
Resultant Phase Green Periods

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

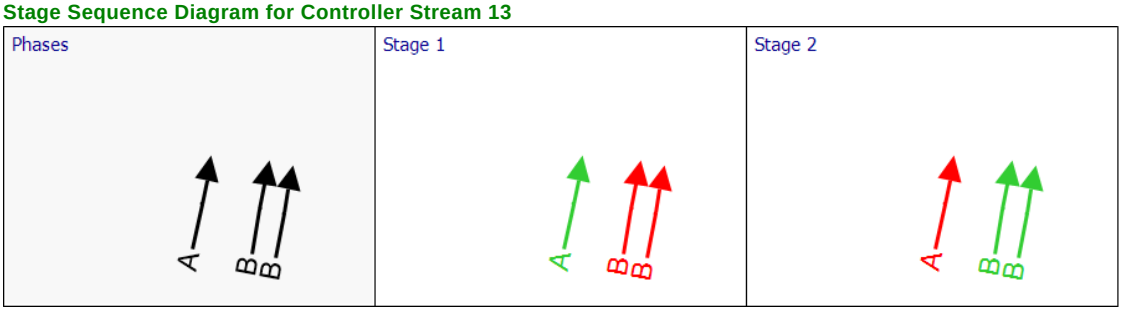
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
Df	1	3-2	13	B	12	55	43
Df	2	3-2	13	B	12	55	43
56	1	3-2	13	A	0	7	7

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

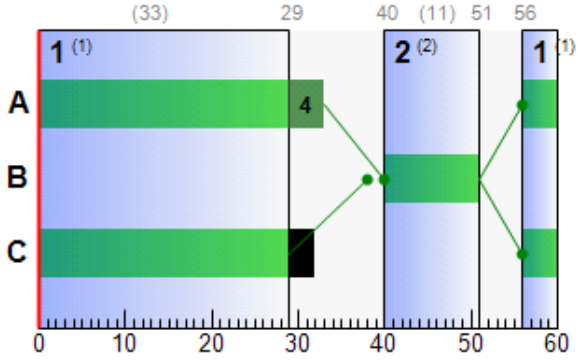
Resultant Phase Green Periods

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

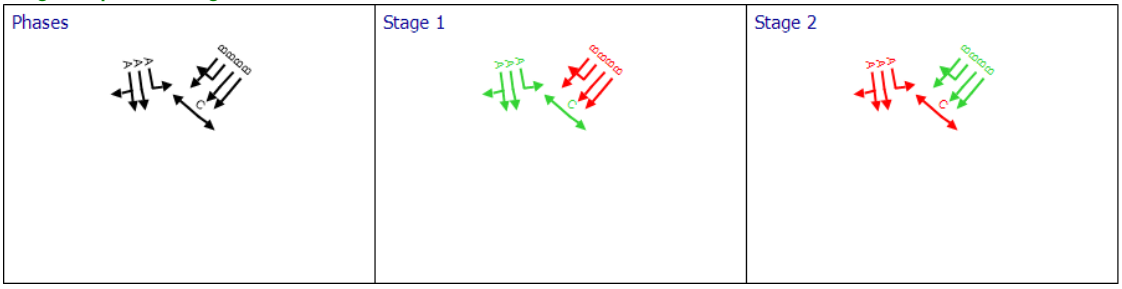
Traffic Stream Green Times

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)	12	300	0	0	Pedestrian	3
	K	(untitled)	5	300	0	0	Pedestrian	3

Library Stages

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

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay	Absolute delay
769-2	1	Losing	I	4	5	2	
	2	Losing	H	4	5	4	
	3	Losing	D	4	5	7	
	4	Losing	E	4	5	8	
	5	Losing	F	5	4	5	
	6	Losing	G	5	4	6	
	7	Losing	K	5	4	7	
	8	Losing	G	6	4	8	
	9	Losing	I	4	6	4	
	10	Losing	H	4	6	6	
	11	Losing	D	4	6	6	
	12	Losing	E	4	6	7	
	13	Losing	F	6	4	6	
	14	Losing	K	6	4	7	
	15	Gaining	G	4	5	0	13
	16	Gaining	F	4	5	0	12
	17	Gaining	D	5	4	0	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, 28		
	2	(untitled)	Single		4, 6, 5	0, 16, 32		
	3	(untitled)	Single		4, 5, 6	0, 29, 38		
	4	(untitled)	Double	✓	4, 6	2, 23	4, 6	62, 83

Intergreen Matrix for Controller Stream 769-2

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

Banned Stage transitions for Controller Stream 769-2

		To		
		4	5	6
From	4			
	5			
	6			

Interstage Matrix for Controller Stream 769-2

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

Resultant Stages

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

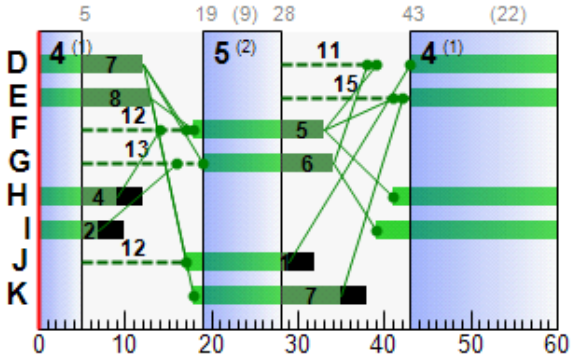
Resultant Phase Green Periods

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

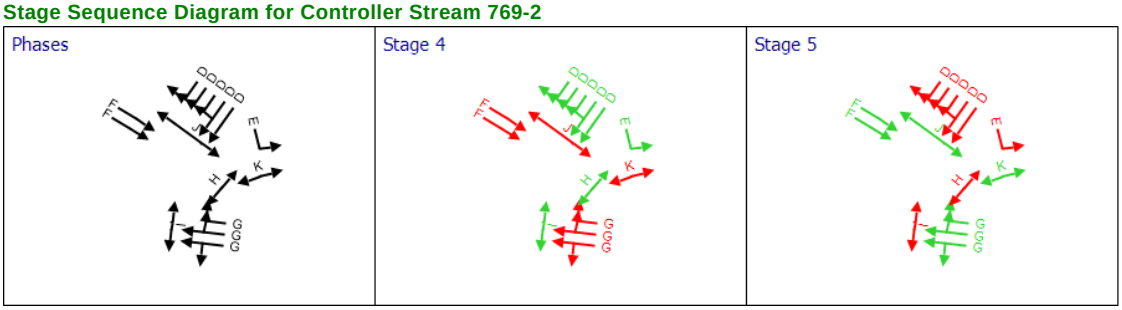
Traffic Stream Green Times

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

Phase Timings Diagram for Controller Stream 769-2



Stage Sequence Diagram for Controller Stream 769-2



Controller Stream 770-1

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

Controller Stream 770-1 - Properties

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

Controller Stream 770-1 - Optimisation

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

Phases

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

Library Stages

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

Losing / Gaining Phase Delays

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

Stage Sequences

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

Intergreen Matrix for Controller Stream 770-1

		To		
		A	B	C
From	A		5	
	B	5		5
	C		9	

Banned Stage transitions for Controller Stream 770-1

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 770-1

		To	
		1	2
From	1	0	9
	2	5	0

Resultant Stages

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

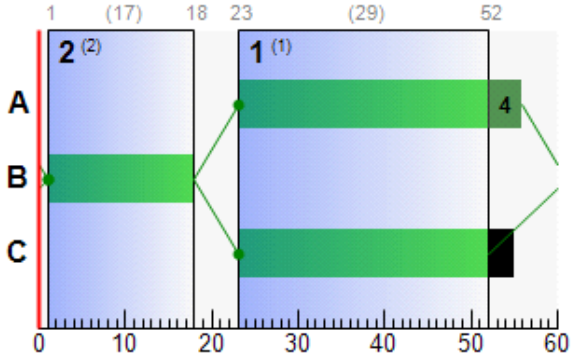
Resultant Phase Green Periods

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

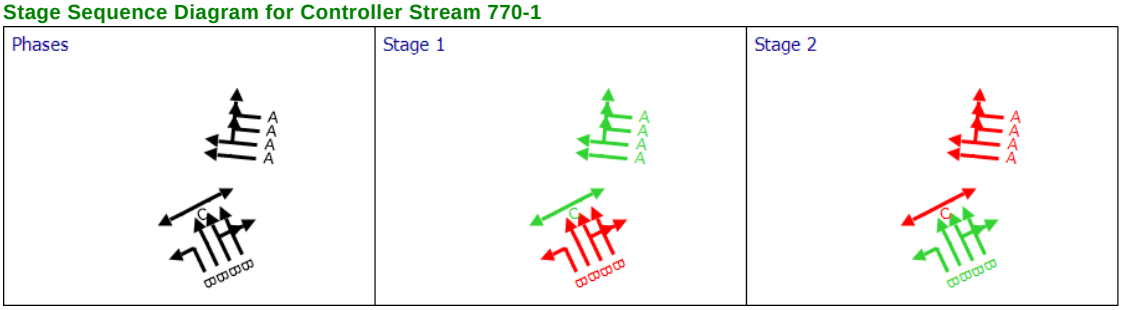
Traffic Stream Green Times

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

Phase Timings Diagram for Controller Stream 770-1



Stage Sequence Diagram for Controller Stream 770-1



Controller Stream 770-2

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

Controller Stream 770-2 - Properties

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

Controller Stream 770-2 - Optimisation

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

Phases

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

Library Stages

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

Stage Sequences

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

Intergreen Matrix for Controller Stream 770-2

		To	
		D	E
From	D		5
	E	7	

Banned Stage transitions for Controller Stream 770-2

		To	
		4	5
From	4		
	5		

Interstage Matrix for Controller Stream 770-2

		To	
		4	5
From	4	0	5
	5	7	0

Resultant Stages

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

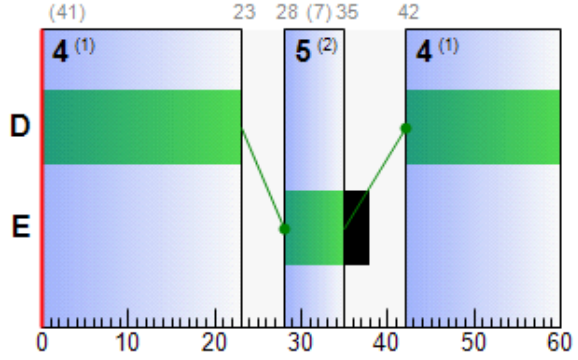
Resultant Phase Green Periods

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

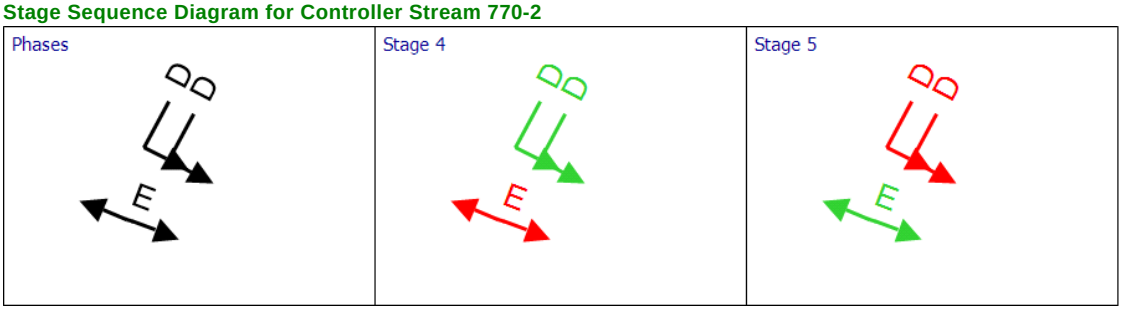
Traffic Stream Green Times

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

Phase Timings Diagram for Controller Stream 770-2



Stage Sequence Diagram for Controller Stream 770-2



Controller Stream 770-3

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

Controller Stream 770-3 - Properties

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

Controller Stream 770-3 - Optimisation

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

Phases

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

Library Stages

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

Losing / Gaining Phase Delays

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

Stage Sequences

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

Intergreen Matrix for Controller Stream 770-3

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

Banned Stage transitions for Controller Stream 770-3

		To		
		7	8	9
From	7			
	8			
	9			

Interstage Matrix for Controller Stream 770-3

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

Resultant Stages

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

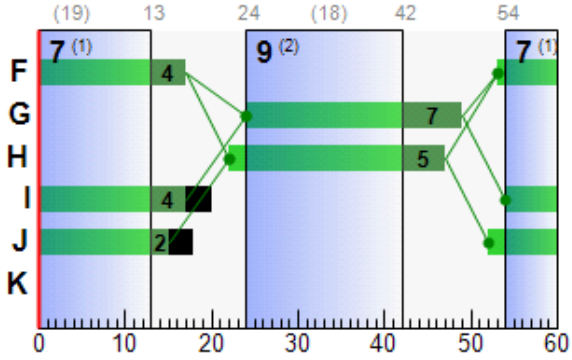
Resultant Phase Green Periods

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

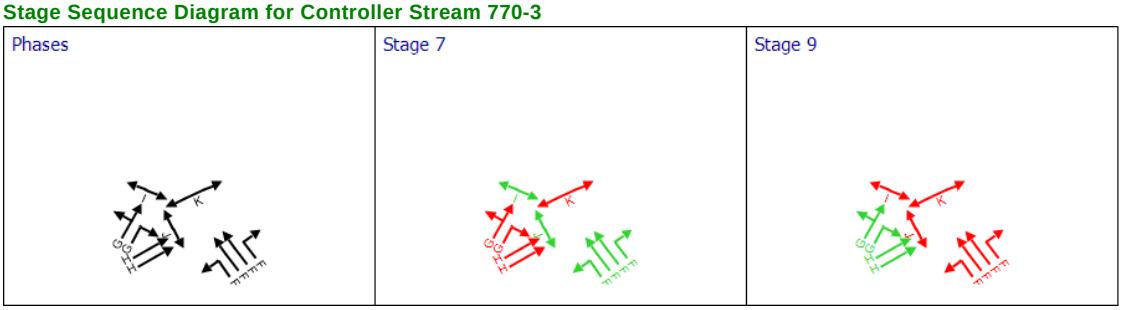
Traffic Stream Green Times

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

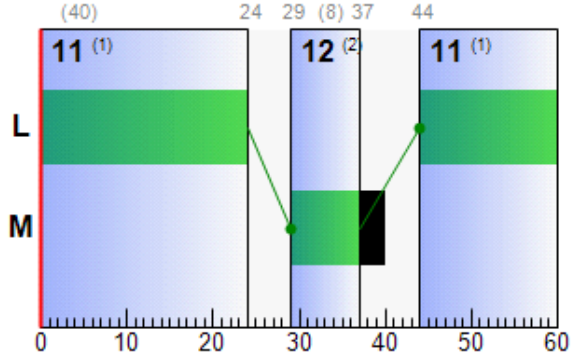
Resultant Phase Green Periods

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

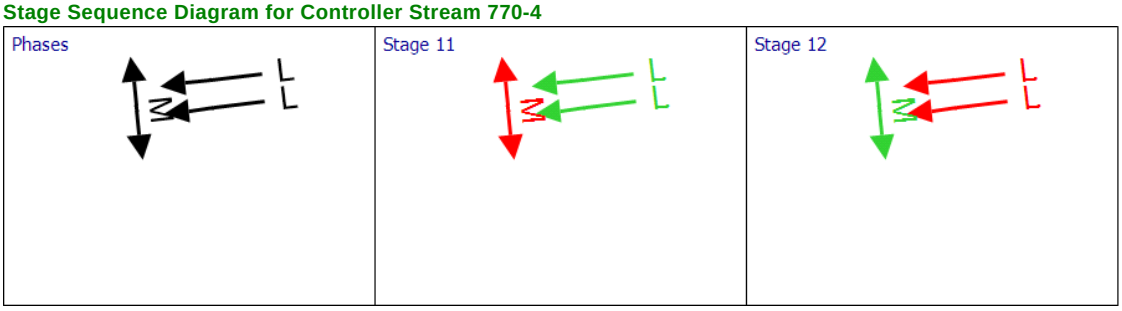
Traffic Stream Green Times

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

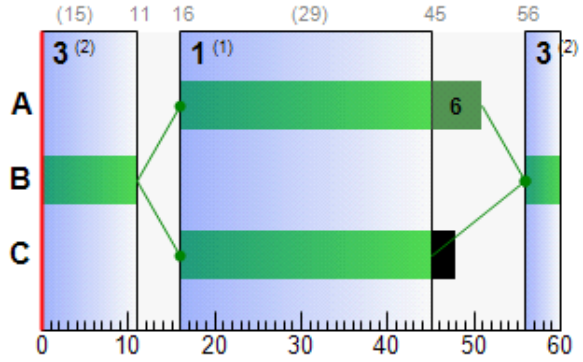
Resultant Phase Green Periods

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

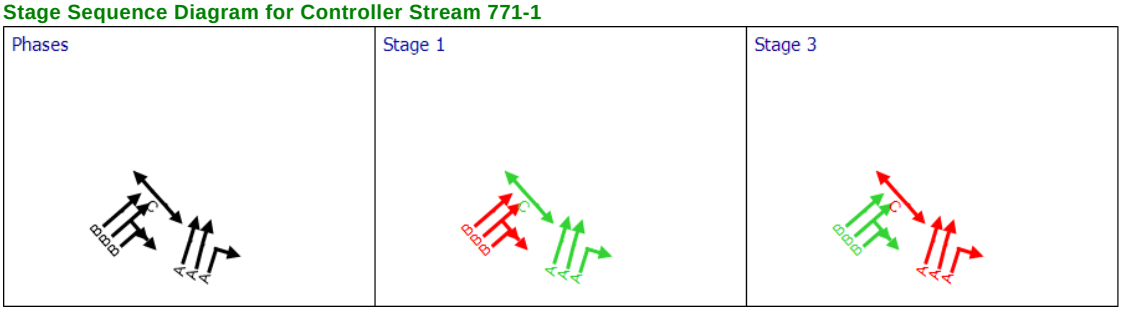
Traffic Stream Green Times

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

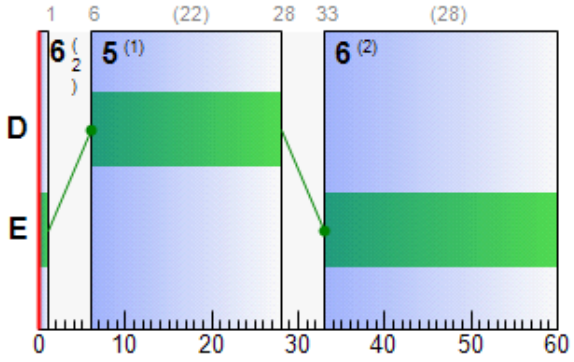
Resultant Phase Green Periods

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

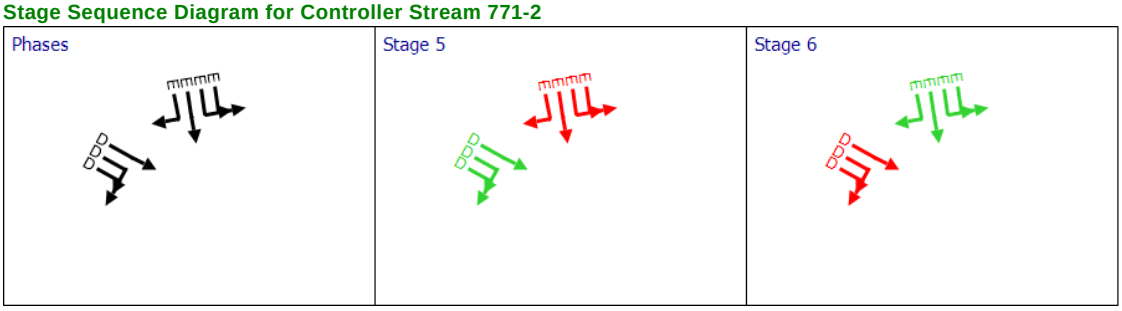
Traffic Stream Green Times

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

Losing / Gaining Phase Delays

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

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
TC777-1	1	(untitled)	Single	1, 5, 7	2, 18, 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	4
	2	✓	5	D,H,I	10	18	8	1	7
	3	✓	7	A,F,J	24	30	6	1	6

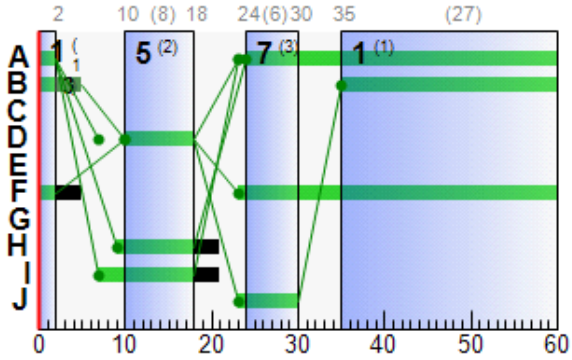
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
TC777-1	A	1	✓	24	2	38
	B	1	✓	35	5	30
	D	1	✓	10	18	8
	F	1	✓	23	2	39
	H	1	✓	9	18	9
	I	1	✓	7	18	11
	J	1	✓	23	30	7

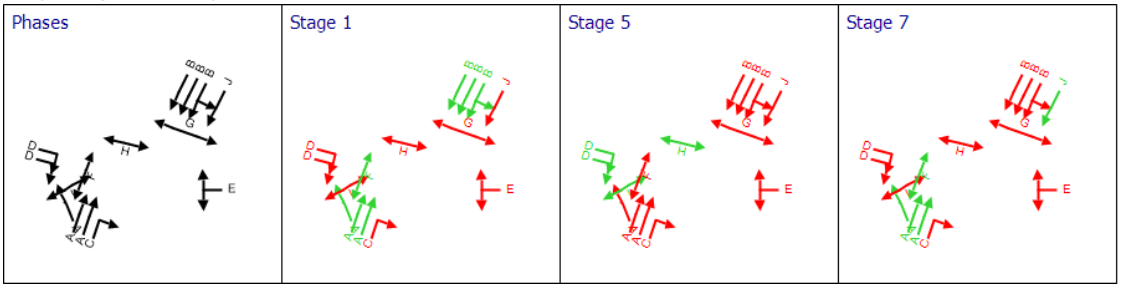
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
TC5	2	TC771-6	TC777-1	A	24	2	38
TC5	3	TC771-6	TC777-1	A	24	2	38
TC5	4	TC771-6	TC777-1	C			
TC9	1	TC771-6	TC777-1	B	35	5	30
TC9	2	TC771-6	TC777-1	B	35	5	30
TC9	3	TC771-6	TC777-1	B	35	5	30
TC35	1	TC771-6	TC777-1	A	24	2	38
TC41	1	TC771-6	TC777-1	D	10	18	8
TC41	2	TC771-6	TC777-1	D	10	18	8
TC42	1	TC771-6	TC777-1	E			
55	1	TC771-6	TC777-1	J	23	30	7

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

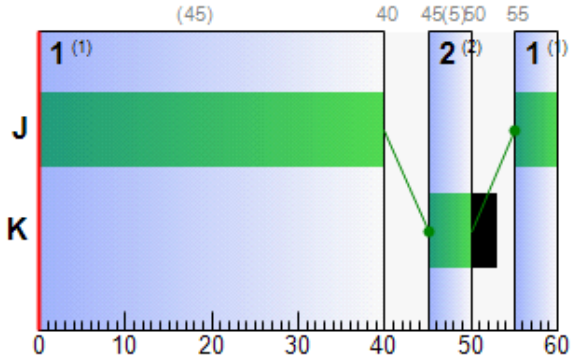
Resultant Phase Green Periods

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

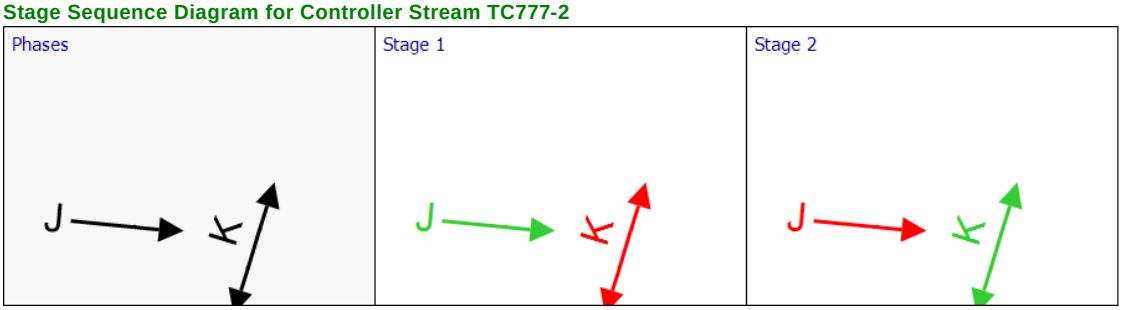
Traffic Stream Green Times

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)
	A	1	(untitled)	E	880	2050	28	991	89	1	29.32	12.69	97.94	34.91
		2	(untitled)	E	390	2050	28	991	39	129	13.93	3.86	28.89	19.70
		3	(untitled)	E	587	2050	28	991	59	52	10.04	3.66	26.73	15.94
		4	(untitled)	E	929	2050	28	991	94	-4	32.55	13.43	96.10	38.58
	Ac	1	(untitled)	D	830	2263	22	867	96	-6	60.55	21.41	128.48	67.74
		2	(untitled)	D	264	2263	22	784	34	167	1.89	2.02	12.59	11.39
		3	(untitled)	D	529	2263	22	867	61	48	5.98	2.79	18.26	12.57
	Acf	1	(untitled)		1094	2263	60	2263	48	86	0.74	0.23	1.87	5.96
		2	(untitled)		529	2263	60	2263	23	285	0.24	0.04	0.29	7.49
	Af	1	(untitled)		1270	2050	60	2050	62	45	1.42	0.50	5.26	8.01
		2	(untitled)		587	2050	60	2050	29	214	0.35	0.06	0.60	6.91
		3	(untitled)		929	2050	60	2050	45	99	0.73	0.19	1.97	7.31
	B	1	(untitled)	B	98	2050	11	410	24	275	30.81	2.36	14.31	37.91
		2	(untitled)	B	328	2150	11	328	100	-10	245.34	24.81	146.79	252.63
		3	(untitled)	B	420	2100	11	420	100	-10	192.78	26.00	149.97	200.25
		4	(untitled)	B	367	2050	11	410	90	0	55.94	9.35	52.47	68.23
	Bc	1	(untitled)	A	741	2050	37	1298	57	58	6.08	7.36	31.84	16.05
		2	(untitled)	A	850	2050	37	1256	68	33	7.44	9.99	43.67	17.30
		3	(untitled)	A	1108	2050	37	1282	86	4	16.89	21.33	94.23	26.65
	Bcf	1	(untitled)		1709	2263	60	2263	76	19	2.44	1.16	10.62	6.78
		2	(untitled)		741	2263	60	2263	33	175	0.39	0.08	0.73	5.79
		3	(untitled)		850	2263	60	2263	38	140	0.48	0.11	1.04	6.26
		4	(untitled)		1108	2263	60	2263	49	84	0.76	0.23	2.17	6.92
	Bf	1	(untitled)		440	1800	60	426	103	-13	276.82	43.87	110.74	304.16
		2	(untitled)		787	1800	60	818	96	-6	130.43	46.85	117.92	157.85
	C	1	(untitled)	G	443	2100	15	560	79	14	32.24	7.86	37.32	46.77
		2	(untitled)	G	295	2200	15	574	51	75	22.07	4.20	19.75	36.75
		3	(untitled)	G	270	2050	15	547	49	82	21.84	3.84	17.75	36.77
	Cf	1	(untitled)		443	1965	60	1965	23	299	0.27	0.03	0.13	17.62
		2	(untitled)		565	1965	60	1965	29	213	0.37	0.06	0.23	17.87
		1	(untitled)	B	393	2050	17	615	64	41	29.90	6.05	63.23	34.03

16:30-17:30	D	2	(untitled)	B	204	1850	17	555	37	145	23.91	2.82	29.46	28.04
		3	(untitled)	B	296	2250	17	675	44	105	25.80	4.31	44.36	29.99
		4	(untitled)	B	406	2250	17	675	60	50	28.74	6.13	59.13	33.21
	Dc	1	(untitled)	A	553	2100	33	1190	46	94	4.73	2.52	28.82	8.50
		2	(untitled)	A	1035	2100	33	1190	87	3	20.10	9.73	115.73	23.72
		3	(untitled)	A	235	2100	33	1190	20	356	6.00	2.34	29.02	9.48
		4	(untitled)	A	495	2100	33	1190	42	116	17.29	5.69	73.53	20.62
	Dcf	1	(untitled)		1055	2050	60	2050	51	75	0.93	0.27	2.37	5.88
		2	(untitled)		821	2100	60	2100	39	130	0.55	0.13	1.09	5.49
		3	(untitled)		553	2100	60	2100	26	242	0.31	0.05	0.41	5.28
		4	(untitled)		1035	2100	60	1199	86	4	13.71	9.83	84.90	18.70
		5	(untitled)		235	2100	60	2100	11	705	0.11	0.01	0.06	5.13
		6	(untitled)		495	2100	60	2097	24	281	0.27	2.36	20.17	5.31
	Df	1	(untitled)	B	585	1900	43	1393	42	114	4.02	3.89	11.18	28.02
		2	(untitled)	B	702	2250	43	1650	43	112	3.91	4.64	13.35	27.91
	Dxp	1	(untitled)	D	1061	2050	41	1435	74	22	4.42	2.60	32.05	7.92
		2	(untitled)	D	821	2050	41	1435	57	57	1.74	0.46	5.49	5.39
	Ec	1	(untitled)	F	692	2150	24	896	77	16	14.55	7.22	82.82	18.31
		2	(untitled)	F	439	2263	24	943	47	93	14.11	4.86	57.69	17.75
		3	(untitled)	F	771	2263	24	943	82	10	22.08	8.74	107.45	25.59
		4	(untitled)	F	380	2250	24	938	41	122	6.70	2.46	31.31	10.08
	Ecf	1	(untitled)		646	2100	60	1687	38	135	1.58	2.44	30.51	5.03
		2	(untitled)		1335	2100	60	2036	66	37	1.73	2.96	36.72	5.21
		3	(untitled)		439	2263	60	2263	19	364	0.19	0.02	0.29	3.71
		4	(untitled)		771	2300	60	1379	56	61	3.09	2.76	33.45	6.65
		5	(untitled)		426	2300	60	2300	19	386	0.18	0.02	0.25	3.82
	Ef	1	(untitled)		797	1900	60	1900	42	115	0.68	0.15	0.68	15.99
		2	(untitled)		584	1900	60	1900	31	193	0.42	0.07	0.31	15.73
	Exp	1	(untitled)	L	646	2050	40	1401	46	95	10.53	7.04	78.09	14.42
		2	(untitled)	L	643	2050	40	1401	46	96	11.65	8.98	96.16	15.68
	F	1	(untitled)	B	219	2100	15	560	39	130	20.08	2.93	19.76	26.46
		2	(untitled)	B	269	2100	15	560	48	87	21.47	3.66	24.54	27.90
		3	(untitled)	B	443	2100	15	560	79	14	32.18	7.41	48.82	38.72
	Fc	1	(untitled)	A	593	2263	35	1358	44	106	4.51	5.61	17.60	23.81
		2	(untitled)	A	803	2263	35	1295	62	45	8.43	15.68	49.68	27.16
		3	(untitled)	A	885	2263	35	1358	65	38	7.11	4.86	15.51	26.65
	Ff	1	(untitled)		488	1900	60	1900	26	250	0.33	0.04	0.09	33.41
		2	(untitled)		443	1900	60	1900	23	286	0.29	0.04	0.07	33.34
	G	1	(untitled)	F	292	2050	15	284	103	-13	406.57	37.39	137.69	422.63
		2	(untitled)	F	315	2050	15	289	109	-17	414.79	41.67	157.02	426.24
	Gf	1	(untitled)		292	2050	60	1158	25	257	13.44	3.06	45.18	16.36
		2	(untitled)		292	2050	60	2036	14	528	0.20	2.35	35.11	3.08
	xA	1	(untitled)		748	2263	60	1916	39	131	1.27	2.44	6.12	18.50
		2	(untitled)		842	2263	60	2263	37	142	0.47	0.11	0.28	17.72
	xB	1	(untitled)		1350	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.03
	xC	1	(untitled)		650	1900	60	650	100	-10	130.67	30.01	149.25	139.34
		2	(untitled)		650	1900	60	650	100	-10	130.51	30.00	148.75	139.21
	xD	1	(untitled)		1061	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
		2	(untitled)		821	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
	xE	1	(untitled)		646	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
		2	(untitled)		643	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	xF	1	(untitled)		798	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	7.94
	Cc1	1	(untitled)	E	727	2050	30	1059	69	31	13.19	11.02	66.35	19.70
	E1	1	(untitled)	G	292	2050	25	888	33	174	12.24	3.01	21.61	18.24
		2	(untitled)	G	505	2200	25	953	53	70	14.64	5.71	41.04	20.64
	Gf1	1	(untitled)		46	647	60	647	7	1166	0.22	0.01	0.07	3.81
		2	(untitled)	D	963	2150	29	1030	93	-4	40.68	17.70	112.87	51.35
		3	(untitled)	D	740	2050	29	1025	72	25	15.42	11.18	72.31	24.81

	Cc2	4	(untitled)	D	1023	2150	29	1075	95	-5	40.07	21.48	136.65	50.04
		5	(untitled)	D	93	2050	29	1025	9	894	4.39	0.34	2.25	13.13
		6	(untitled)	D	367	2050	29	1025	36	151	0.98	0.10	0.66	8.85
	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	561	2263	38	1509	37	142	4.92	3.01	75.12	7.68
		3	(untitled)	A	842	2263	38	1509	56	61	1.57	0.40	10.05	4.33
		4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC9	1	(untitled)	B	1059	1925	30	1059	100	-10	77.91	31.73	198.93	88.91
		2	(untitled)	B	549	1966	30	1081	51	77	10.15	5.33	33.25	21.20
		3	(untitled)	B	714	1947	30	1071	67	35	12.93	8.24	51.14	24.06
	TC35	1	(untitled)	A	187	1900	38	1267	15	511	2.30	1.46	34.80	5.20
	TC36	1	(untitled)		553	1800	60	1800	31	193	0.44	0.07	1.55	3.47
	TC37	1	(untitled)	J	107	1850	45	1418	8	1093	1.85	0.42	5.44	5.04
	TC38	1	(untitled)		107	424	60	424	25	257	2.44	2.46	66.29	3.97
	TC39	2	(untitled)		561	2263	60	2263	25	263	0.26	0.04	0.67	2.80
		3	(untitled)		842	2263	60	2263	37	142	0.47	0.11	1.90	2.87
	TC40	2	(untitled)		668	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		842	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	197	1850	8	278	71	27	39.55	3.74	39.38	43.48
		2	(untitled)	D	249	1850	8	278	90	0	69.41	6.73	70.31	73.38
	TC42	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC43	1	(untitled)		0	1800	60	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		1300	1300	60	1300	100	-10	48.58	17.54	75.48	64.61
	48	1	(untitled)		1008	1965	60	1965	51	75	0.96	0.27	2.81	7.58
	49	1	(untitled)		1095	1900	60	1076	102	-12	80.93	38.98	853.96	84.08
		2	(untitled)		1263	1900	60	1900	66	35	1.87	0.66	14.38	5.02
	50	1	(untitled)		1327	1900	60	1228	108	-17	157.81	75.27	898.99	163.59
	51	1	(untitled)		931	1900	60	1900	49	84	0.91	0.24	3.61	5.41
	52	1		A	798	1800	44	1350	59	52	10.95	12.53	360.23	13.35
	53	1		A	1710	1800	44	1350	127	-29	399.05	203.67	4684.44	402.05
	55	1		J	18	1800	7	240	7	1121	17.45	0.23	1.44	28.37
	56	1		A	12	1800	7	240	5	1700	23.36	0.17	0.50	47.36

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	5	49	44	1	7
	2	✓	2	B	54	0	6	1	6
12	1	✓	1	A	5	49	44	1	7
	2	✓	2	B	54	0	6	1	6
13	1	✓	1	A	0	7	7	1	7
	2	✓	2	B	12	55	43	1	7
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	43	5	22	1	1
	2	✓	5	F,G,J,K	19	28	9	1	9
770-1	1	✓	1	A,C	23	52	29	1	7
	2	✓	2	B	1	18	17	1	7
770-2	1	✓	4	D	42	23	41	1	7
	2	✓	5	E	28	35	7	1	5
770-3	1	✓	7	F,I,J	54	13	19	1	2
	2	✓	9	G,H	24	42	18	1	1
770-4	1	✓	11	L	44	24	40	1	7
	2	✓	12	M	29	37	8	1	6
771-1	1	✓	1	A,C	16	45	29	1	9
	2	✓	3	B	56	11	15	1	7
771-2	1	✓	5	D	6	28	22	1	7
	2	✓	6	E	33	1	28	1	7
TC777-1	1	✓	1	A,B,F	35	2	27	1	4
	2	✓	5	D,H,I	10	18	8	1	7
	3	✓	7	A,F,J	24	30	6	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	6	300	0	0	Pedestrian
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	7	300	0	0	Traffic
769-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	7	300	0	0	Pedestrian
769-2	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	4	300	0	0	Traffic
	G	G	4	300	0	0	Traffic
	H	H	5	300	0	0	Pedestrian
	I	I	7	300	0	0	Pedestrian
	J	J	12	300	0	0	Pedestrian
	K	K	5	300	0	0	Pedestrian
770-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	7	300	0	0	Pedestrian
770-2	D	D	7	300	0	0	Traffic
	E	E	5	300	0	0	Pedestrian
770-3	F	F	7	300	0	0	Traffic
	G	G	4	300	0	0	Traffic
	H	H	4	300	0	0	Traffic
	I	I	5	300	0	0	Pedestrian
	J	J	5	300	0	0	Pedestrian
	K	K	10	300	0	0	Pedestrian
770-4	L	L	7	300	0	0	Traffic
	M	M	6	300	0	0	Pedestrian
771-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	9	300	0	0	Pedestrian
771-2	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
TC777-1	A	A	7	300	0	1	Traffic
	B	B	7	300	0	2	Traffic
	C	C	7	300	0	0	Traffic
	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	5	300	0	0	Pedestrian
	G	G	7	300	0	0	Pedestrian
	H	H	6	300	0	0	Pedestrian
	I	I	5	300	0	0	Pedestrian
	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	✓	54.87	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	54.67	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	54.84	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	✓	132.91	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	131.52	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	130.13	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
	1		55.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100

D	**2**		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
	3	✓	55.91	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
	4	✓	59.65	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dc	**1**	✓	50.27	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	48.34	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	46.42	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	44.49	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Dcf	**1**	✓	65.95	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.92	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	66.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	66.58	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.90	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	67.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
Df	**1**		200.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1900	100	100
	2		200.00	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dxp	**1**	✓	46.62	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.64	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	**1**	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Ecf	**1**	✓	45.94	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	2	✓	46.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	46.93	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.50	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	**1**	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	**1**	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	**1**	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100

Fc	**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	✓	230.01	CTM	0.00	Normal	✓			Directly entered	2263	100	100
xB	**1**	✓	50.23	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**	✓	105.90	NetworkDefault	0.00	Normal						100	100
Cc1	**1**	✓	95.53	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E1	**1**		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
Gf1	**1**	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	**2**	✓	90.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	88.93	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	90.38	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	5	✓	87.92	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	6	✓	87.42	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**		20.00	NetworkDefault	0.00	Normal	✓	✓		Directly entered	1800	100	100
53	**1**		25.00	NetworkDefault	0.00	Normal	✓	✓		Directly entered	1800	100	100
55	**1**		91.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
56	**1**		200.00	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	12	0.00	0.00
		2	0	0	12	0.00	0.00
	10	1	0	0	17	0.00	0.00
		2	0	0	17	0.00	0.00
	11	1	0	0	28	0.00	0.00
		2	0	0	28	0.00	0.00
	12	1	0	0	28	0.00	0.00
		2	0	0	28	0.00	0.00
	13	1	0	0	11	0.00	0.00
		2	0	0	11	0.00	0.00
	14	1	0	0	39	0.00	0.00
		2	0	0	39	0.00	0.00
	15	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	16	1	0	0	9	0.00	0.00
		2	0	0	9	0.00	0.00
	17	1	0	0	5	0.00	0.00
		2	0	0	5	0.00	0.00
	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	89	1	880	2050	28	29.32	12.69	97.94	101.71	23.44	125.15
		2	39	129	390	2050	28	13.93	3.86	28.89	21.43	7.48	28.91
		3	59	52	587	2050	28	10.04	3.66	26.73	23.26	7.10	30.36

		4	94	-4	929	2050	28	32.55	13.43	96.10	119.27	24.87	144.14
	Ac	1	96	-6	830	2263	22	60.55	21.41	128.48	198.17	39.25	237.42
		2	34	167	264	2263	22	1.89	2.02	12.59	1.97	0.81	2.78
		3	61	48	529	2263	22	5.98	2.79	18.26	12.47	3.66	16.13
	Acf	1	48	86	1094	2263	60	0.74	0.23	1.87	3.21	0.00	3.21
		2	23	285	529	2263	60	0.24	0.04	0.29	0.51	0.00	0.51
	Af	1	62	45	1270	2050	60	1.42	0.50	5.26	7.13	0.00	7.13
		2	29	214	587	2050	60	0.35	0.06	0.60	0.82	0.00	0.82
		3	45	99	929	2050	60	0.73	0.19	1.97	2.66	0.00	2.66
	B	1	24	275	98	2050	11	30.81	2.36	14.31	11.97	3.23	15.20
		2	100	-10	328	2150	11	245.34	24.81	146.79	317.16	33.47	350.63
		3	100	-10	420	2100	11	192.78	26.00	149.97	319.37	40.94	360.31
		4	90	0	367	2050	11	55.94	9.35	52.47	81.04	6.74	87.78
	Bc	1	57	58	741	2050	37	6.08	7.36	31.84	17.78	10.35	28.13
		2	68	33	850	2050	37	7.44	9.99	43.67	24.93	11.07	36.00
		3	86	4	1108	2050	37	16.89	21.33	94.23	73.81	30.31	104.13
	Bcf	1	76	19	1709	2263	60	2.44	1.16	10.62	16.44	0.00	16.44
		2	33	175	741	2263	60	0.39	0.08	0.73	1.13	0.00	1.13
		3	38	140	850	2263	60	0.48	0.11	1.04	1.60	0.00	1.60
		4	49	84	1108	2263	60	0.76	0.23	2.17	3.33	0.00	3.33
	Bf	1	103	-13	440	1800	60	276.82	43.87	110.74	480.82	25.14	505.96
		2	96	-6	787	1800	60	130.43	46.85	117.92	405.04	33.38	438.42
	C	1	79	14	443	2100	15	32.24	7.86	37.32	56.33	5.86	62.19
		2	51	75	295	2200	15	22.07	4.20	19.75	25.68	3.17	28.85
		3	49	82	270	2050	15	21.84	3.84	17.75	23.26	2.89	26.15
	Cf	1	23	299	443	1965	60	0.27	0.03	0.13	0.47	0.00	0.47
		2	29	213	565	1965	60	0.37	0.06	0.23	0.82	0.00	0.82
	D	1	64	41	393	2050	17	29.90	6.05	63.23	46.36	11.63	57.99
		2	37	145	204	1850	17	23.91	2.82	29.46	19.24	5.42	24.66
		3	44	105	296	2250	17	25.80	4.31	44.36	30.12	8.30	38.43
		4	60	50	406	2250	17	28.74	6.13	59.13	46.02	11.80	57.82
	Dc	1	46	94	553	2100	33	4.73	2.52	28.82	10.31	4.18	14.49
		2	87	3	1035	2100	33	20.10	9.73	115.73	82.06	18.53	100.59
		3	20	356	235	2100	33	6.00	2.34	29.02	5.56	2.20	7.76
		4	42	116	495	2100	33	17.29	5.69	73.53	33.77	11.63	45.40
	Dcf	1	51	75	1055	2050	60	0.93	0.27	2.37	3.86	0.00	3.86
		2	39	130	821	2100	60	0.55	0.13	1.09	1.78	0.00	1.78
		3	26	242	553	2100	60	0.31	0.05	0.41	0.67	0.00	0.67
		4	86	4	1035	2100	60	13.71	9.83	84.90	55.99	16.79	72.78
		5	11	705	235	2100	60	0.11	0.01	0.06	0.10	0.00	0.10
		6	24	281	495	2100	60	0.27	2.36	20.17	0.53	0.14	0.67
	Df	1	42	114	585	1900	43	4.02	3.89	11.18	9.27	2.64	11.91
		2	43	112	702	2250	43	3.91	4.64	13.35	10.83	3.17	14.00
	Dxp	1	74	22	1061	2050	41	4.42	2.60	32.05	18.50	4.81	23.32
		2	57	57	821	2050	41	1.74	0.46	5.49	5.63	0.88	6.51
	Ec	1	77	16	692	2150	24	14.55	7.22	82.82	39.73	13.80	53.53
		2	47	93	439	2263	24	14.11	4.86	57.69	24.43	8.31	32.74
		3	82	10	771	2263	24	22.08	8.74	107.45	67.20	16.72	83.92
		4	41	122	380	2250	24	6.70	2.46	31.31	10.03	2.74	12.78
	Ecf	1	38	135	646	2100	60	1.58	2.44	30.51	4.03	2.04	6.07
		2	66	37	1335	2100	60	1.73	2.96	36.72	9.13	3.43	12.56
		3	19	364	439	2263	60	0.19	0.02	0.29	0.33	0.00	0.33
		4	56	61	771	2300	60	3.09	2.76	33.45	9.41	3.78	13.19
		5	19	386	426	2300	60	0.18	0.02	0.25	0.30	0.00	0.30
	Ef	1	42	115	797	1900	60	0.68	0.15	0.68	2.15	0.00	2.15
		2	31	193	584	1900	60	0.42	0.07	0.31	0.97	0.00	0.97
	Exp	1	46	95	646	2050	40	10.53	7.04	78.09	26.82	13.48	40.30
16:30-		2	46	96	643	2050	40	11.65	8.98	96.16	29.55	16.80	46.35

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	443	2100	15	32.18	7.41	48.82	56.22	14.13	70.35
	Fc	1	44	106	593	2263	35	4.51	5.61	17.60	10.54	5.27	15.81
		2	62	45	803	2263	35	8.43	15.68	49.68	26.71	12.36	39.07
		3	65	38	885	2263	35	7.11	4.86	15.51	24.83	4.51	29.34
	Ff	1	26	250	488	1900	60	0.33	0.04	0.09	0.63	0.00	0.63
		2	23	286	443	1900	60	0.29	0.04	0.07	0.50	0.00	0.50
	G	1	103	-13	292	2050	15	406.57	37.39	137.69	468.74	22.33	491.07
		2	109	-17	315	2050	15	414.79	41.67	157.02	515.38	42.06	557.44
	Gf	1	25	257	292	2050	60	13.44	3.06	45.18	15.49	5.92	21.40
		2	14	528	292	2050	60	0.20	2.35	35.11	0.23	0.21	0.44
	xA	1	39	131	748	2263	60	1.27	2.44	6.12	3.76	2.33	6.09
		2	37	142	842	2263	60	0.47	0.11	0.28	1.56	0.00	1.56
	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	130.67	30.01	149.25	335.04	25.23	360.26
		2	100	-10	650	1900	60	130.51	30.00	148.75	334.62	25.23	359.85
	xD	1	0	Unrestricted	1061	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	821	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	xE	1	0	Unrestricted	646	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	643	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	xF	1	0	Unrestricted	798	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	69	31	727	2050	30	13.19	11.02	66.35	37.82	19.33	57.14
	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	1166	46	647	60	0.22	0.01	0.07	0.04	0.01	0.05
	Cc2	2	93	-4	963	2150	29	40.68	17.70	112.87	154.49	13.80	168.29
		3	72	25	740	2050	29	15.42	11.18	72.31	45.03	7.88	52.90
		4	95	-5	1023	2150	29	40.07	21.48	136.65	161.63	19.35	180.97
		5	9	894	93	2050	29	4.39	0.34	2.25	1.61	0.40	2.00
		6	36	151	367	2050	29	0.98	0.10	0.66	1.42	0.00	1.42
	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	37	142	561	2263	38	4.92	3.01	75.12	10.89	2.26	13.15
		3	56	61	842	2263	38	1.57	0.40	10.05	5.21	0.30	5.51
		4	0	-100	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	100	-10	1059	1925	30	77.91	31.73	198.93	325.35	21.57	346.92
		2	51	77	549	1966	30	10.15	5.33	33.25	21.97	4.00	25.97
		3	67	35	714	1947	30	12.93	8.24	51.14	36.43	6.05	42.48
	TC35	1	15	511	187	1900	38	2.30	1.46	34.80	1.69	0.55	2.25
	TC36	1	31	193	553	1800	60	0.44	0.07	1.55	0.97	0.00	0.97
	TC37	1	8	1093	107	1850	45	1.85	0.42	5.44	0.78	0.88	1.66
	TC38	1	25	257	107	424	60	2.44	2.46	66.29	1.03	1.17	2.20
	TC39	2	25	263	561	2263	60	0.26	0.04	0.67	0.58	0.00	0.58
		3	37	142	842	2263	60	0.47	0.11	1.90	1.56	0.00	1.56
	TC40	2	0	Unrestricted	668	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		3	0	Unrestricted	842	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	71	27	197	1850	8	39.55	3.74	39.38	30.73	7.70	38.43
		2	90	0	249	1850	8	69.41	6.73	70.31	68.17	13.02	81.19
	TC42	1	0	-100	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	TC43	1	0	Unrestricted	0	1800	60	0.00	0.00	0.00	0.00	0.00	0.00
	47	1	100	-10	1300	1300	60	48.58	17.54	75.48	249.09	0.00	249.09
	48	1	51	75	1008	1965	60	0.96	0.27	2.81	3.83	0.00	3.83
	49	1	102	-12	1095	1900	60	80.93	38.98	853.96	349.55	24.49	374.05
		2	66	35	1263	1900	60	1.87	0.66	14.38	9.32	0.00	9.32
	50	1	108	-17	1327	1900	60	157.81	75.27	898.99	826.03	38.41	864.44
	51	1	49	84	931	1900	60	0.91	0.24	3.61	3.34	0.00	3.34
	52	1	59	52	798	1800	44	10.95	12.53	360.23	34.47	9.23	43.70

	53	1	127	-29	1710	1800	44	399.05	203.67	4684.44	2690.89	58.03	2748.92
	55	1	7	1121	18	1800	7	17.45	0.23	1.44	1.22	0.16	1.38
	56	1	5	1700	12	1800	7	23.36	0.17	0.50	1.11	0.13	1.23

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	880	880	12	✓	2050	991	89		1	0.68	28
		2	390	390	4	✓	2050	991	39		129	0.65	28
		3	587	587	0		2050	991	59		52	0.82	28
		4	929	929	-1		2050	991	94	✓	-4	0.75	28
	Ac	1	830	830	-1		2263	867	96	✓	-6	1.14	22
		2	264	264	0		2263	784	34		167	1.47	22
		3	529	529	0		2263	867	61		48	1.16	22
	Acf	1	1094	1094	-1		2263	2263	48		86	0.85	60
		2	529	529	0		2263	2263	23		285	1.16	60
	Af	1	1270	1270	16	✓	2050	2050	62		45	0.66	60
		2	587	587	0		2050	2050	29		214	0.82	60
		3	929	929	-1		2050	2050	45		99	0.75	60
	B	1	98	98	11	✓	2050	410	24		275	1.07	11
		2	328	328	38	✓	2150	328	100	✓	-10	1.07	11
		3	420	420	34	✓	2100	420	100	✓	-10	0.92	11
		4	367	367	29	✓	2050	410	90		0	0.92	11
	Bc	1	741	741	4	✓	2050	1298	57		58	0.87	37
		2	850	850	0		2050	1256	68		33	0.81	37
		3	1108	1108	-1		2050	1282	86		4	0.74	37
	Bcf	1	1709	1709	12	✓	2263	2263	76		19	0.37	60
		2	741	741	4	✓	2263	2263	33		175	0.87	60
		3	850	850	0		2263	2263	38		140	0.81	60
		4	1108	1108	-1		2263	2263	49		84	0.74	60
	Bf	1	440	426	35	✓	1800	426	103	✓	-13	0.56	60
		2	787	787	63	✓	1800	818	96	✓	-6	0.56	60
	C	1	443	443	0		2100	560	79		14	0.00	15
		2	295	295	0		2200	574	51		75	0.00	15
		3	270	270	-1		2050	547	49		82	0.00	15
	Cf	1	443	443	0		1965	1965	23		299	0.00	60
		2	565	565	-1		1965	1965	29		213	0.00	60
	D	1	393	393	0		2050	615	64		41	0.53	17
		2	204	204	0		1850	555	37		145	0.55	17
		3	296	296	0		2250	675	44		105	0.53	17
		4	406	406	-1	✓	2250	675	60		50	0.53	17
	Dc	1	553	553	4	✓	2100	1190	46		94	0.85	33
		2	1035	1035	28	✓	2100	1190	87		3	0.78	33
		3	235	235	5	✓	2100	1190	20		356	1.08	33
		4	495	495	28	✓	2100	1190	42		116	1.32	33
	Dcf	1	1055	1055	7	✓	2050	2050	51		75	0.88	60
		2	821	821	34	✓	2100	2100	39		130	1.00	60
		3	553	553	4	✓	2100	2100	26		242	0.85	60
		4	1035	1035	28	✓	2100	1199	86		4	0.86	60
		5	235	235	5	✓	2100	2100	11		705	1.08	60
		6	495	495	28	✓	2100	2097	24		281	1.32	60
	Df	1	585	585	0		1900	1393	42		114	0.00	43
		2	702	702	-1	✓	2250	1650	43		112	0.00	43
	Dxp	1	1061	1061	1	✓	2050	1435	74		22	0.78	41
		2	821	821	34	✓	2050	1435	57		57	0.96	41
		1	692	692	1	✓	2150	896	77		16	0.81	24

16:30-17:30	Ec	2	439	439	5	✓	2263	943	47		93	1.24	24
		3	771	771	29	✓	2263	943	82		10	1.01	24
		4	380	380	0		2250	938	41		122	1.48	24
	Ecf	1	646	646	4	✓	2100	1687	38		135	0.92	60
		2	1335	1335	28	✓	2100	2036	66		37	0.60	60
		3	439	439	5	✓	2263	2263	19		364	1.24	60
		4	771	771	29	✓	2300	1379	56		61	1.16	60
		5	426	426	-1	✓	2300	2300	19		386	1.49	60
	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	646	646	4	✓	2050	1401	46		95	0.79	40
		2	643	643	27	✓	2050	1401	46		96	0.96	40
	F	1	219	219	0		2100	560	39		130	0.00	15
		2	269	269	0		2100	560	48		87	0.00	15
		3	443	443	0		2100	560	79		14	0.00	15
	Fc	1	593	593	5	✓	2263	1358	44		106	1.17	35
		2	803	803	29	✓	2263	1295	62		45	1.22	35
		3	885	885	0		2263	1358	65		38	0.97	35
	Ff	1	488	488	0		1900	1900	26		250	0.00	60
		2	443	443	0		1900	1900	23		286	0.00	60
	G	1	292	284	22	✓	2050	284	103	✓	-13	1.14	15
		2	315	289	-1	✓	2050	289	109	✓	-17	1.05	15
	Gf	1	292	269	0		2050	1158	25		257	1.13	60
		2	292	292	0		2050	2036	14		528	1.13	60
	xA	1	748	748	4	✓	2263	1916	39		131	1.01	60
		2	842	842	30	✓	2263	2263	37		142	1.22	60
	xB	1	1350	1350	371	✓	Unrestricted	Unrestricted	0		Unrestricted	0.45	60
	xC	1	650	650	34	✓	1900	650	100	✓	-10	0.69	60
		2	650	650	29	✓	1900	650	100	✓	-10	0.69	60
	xD	1	1061	1061	1	✓	Unrestricted	Unrestricted	0		Unrestricted	0.69	60
		2	821	821	34	✓	Unrestricted	Unrestricted	0		Unrestricted	0.88	60
	xE	1	646	646	4	✓	Unrestricted	Unrestricted	0		Unrestricted	0.89	60
		2	643	643	27	✓	Unrestricted	Unrestricted	0		Unrestricted	1.09	60
	xF	1	798	798	1	✓	Unrestricted	Unrestricted	0		Unrestricted	0.92	60
	Cc1	1	727	727	7	✓	2050	1059	69		31	0.98	30
	E1	1	292	292	0		2050	888	33		174	0.00	25
		2	505	505	0		2200	953	53		70	0.00	25
	Gf1	1	46	46	-1	✓	647	647	7		1166	1.41	60
	Cc2	2	963	963	7	✓	2150	1030	93	✓	-4	0.80	29
		3	740	740	28	✓	2050	1025	72		25	0.70	29
		4	1023	1023	38	✓	2150	1075	95	✓	-5	0.50	29
		5	93	93	5	✓	2050	1025	9		894	0.98	29
		6	367	367	29	✓	2050	1025	36		151	1.63	29
	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	561	561	-1		2263	1509	37		142	1.07	38
		3	842	842	30	✓	2263	1509	56		61	1.22	38
		4	0	0	0		0	0	0		-100	0.00	0
	TC9	1	1059	1059	17	✓	1925	1059	100	✓	-10	0.72	30
		2	549	549	0		1966	1081	51		77	0.00	30
		3	714	714	0		1947	1071	67		35	0.00	30
	TC35	1	187	187	4	✓	1900	1267	15		511	1.20	38
	TC36	1	553	553	-2		1800	1800	31		193	0.00	60
	TC37	1	107	107	0		1850	1418	8		1093	0.00	45
	TC38	1	107	107	0		424	424	25		257	0.47	60
	TC39	2	561	561	-1		2263	2263	25		263	1.26	60
		3	842	842	30	✓	2263	2263	37		142	1.22	60

	TC40	2	668	668	-1		Unrestricted	Unrestricted	0		Unrestricted	0.77	60
		3	842	842	30	✓	Unrestricted	Unrestricted	0		Unrestricted	1.15	60
	TC41	1	197	197	-1		1850	278	71		27	0.00	8
		2	249	249	-1		1850	278	90		0	0.00	8
	TC42	1	0	0	0		0	0	0		-100	0.00	0
	TC43	1	0	0	0		1800	1800	0		Unrestricted	0.00	60
	47	1	1300	1300	63	✓	1300	1300	100	✓	-10	0.00	60
	48	1	1008	1008	-1		1965	1965	51		75	0.00	60
	49	1	1095	1076	-1		1900	1076	102	✓	-12	0.00	60
		2	1263	1263	0		1900	1900	66		35	0.00	60
	50	1	1327	1228	-2	✓	1900	1228	108	✓	-17	0.00	60
	51	1	931	931	0		1900	1900	49		84	0.00	60
	52	1	798	798	1	✓	1800	1350	59		52	0.91	44
	53	1	1710	1350	11	✓	1800	1350	127	✓	-29	0.31	44
	55	1	18	18	0		1800	240	7		1121	0.66	7
	56	1	12	12	0		1800	240	5		1700	0.00	7

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	29.32	7.16	101.71	83.02	730.17	23.44
		2	5.77	13.93	1.51	21.43	59.79	233.15	7.48
		3	5.90	10.04	1.64	23.26	37.70	221.29	7.10
		4	6.03	32.55	8.40	119.27	83.42	774.93	24.87
	Ac	1	7.19	60.55	13.96	198.17	147.39	1222.89	39.25
		2	9.50	1.89	0.14	1.97	18.07	47.71	0.81
		3	6.60	5.98	0.88	12.47	21.56	114.03	3.66
	Acf	1	5.22	0.74	0.23	3.21	0.00	0.00	0.00
		2	7.24	0.24	0.04	0.51	0.00	0.00	0.00
	Af	1	6.58	1.42	0.50	7.13	0.00	0.00	0.00
		2	6.56	0.35	0.06	0.82	0.00	0.00	0.00
		3	6.58	0.73	0.19	2.66	0.00	0.00	0.00
	B	1	7.10	30.81	0.84	11.97	102.22	100.69	3.23
		2	7.29	245.34	22.34	317.16	318.14	1042.67	33.47
		3	7.48	192.78	22.49	319.37	303.70	1275.55	40.94
		4	12.29	55.94	5.71	81.04	146.29	537.28	6.74
	Bc	1	9.97	6.08	1.25	17.78	43.51	322.38	10.35
		2	9.86	7.44	1.76	24.93	40.57	344.86	11.07
		3	9.76	16.89	5.20	73.81	85.24	944.40	30.31
	Bcf	1	4.34	2.44	1.16	16.44	0.00	0.00	0.00
		2	5.41	0.39	0.08	1.13	0.00	0.00	0.00
		3	5.78	0.48	0.11	1.60	0.00	0.00	0.00
		4	6.16	0.76	0.23	3.33	0.00	0.00	0.00
	Bf	1	27.34	276.82	33.86	480.82	470.40	2005.00	25.14
		2	27.41	130.43	28.52	405.04	338.17	2662.34	33.38
	C	1	14.54	32.24	3.97	56.33	105.53	467.52	5.86
		2	14.68	22.07	1.81	25.68	85.58	252.46	3.17
		3	14.92	21.84	1.64	23.26	85.26	230.19	2.89
	Cf	1	17.35	0.27	0.03	0.47	0.00	0.00	0.00
		2	17.50	0.37	0.06	0.82	0.00	0.00	0.00
	D	1	4.13	29.90	3.26	46.36	92.20	362.33	11.63
		2	4.13	23.91	1.35	19.24	82.79	168.89	5.42
		3	4.19	25.80	2.12	30.12	87.40	258.72	8.30
		4	4.47	28.74	3.24	46.02	90.53	367.57	11.80
	Dc	1	3.77	4.73	0.73	10.31	23.57	130.29	4.18
		2	3.63	20.10	5.78	82.06	55.77	577.27	18.53
		3	3.48	6.00	0.39	5.56	29.19	68.53	2.20
		4	3.34	17.29	2.38	33.77	73.15	362.30	11.63

	Dcf	1	4.95	0.93	0.27	3.86	0.00	0.00	0.00
		2	4.94	0.55	0.13	1.78	0.00	0.00	0.00
		3	4.98	0.31	0.05	0.67	0.00	0.00	0.00
		4	4.99	13.71	3.94	55.99	50.54	523.17	16.79
		5	5.02	0.11	0.01	0.10	0.00	0.00	0.00
		6	5.04	0.27	0.04	0.53	0.90	4.48	0.14
	Df	1	24.00	4.02	0.65	9.27	35.92	210.16	2.64
		2	24.00	3.91	0.76	10.83	36.05	253.08	3.17
	Dxp	1	3.50	4.42	1.30	18.50	14.13	149.98	4.81
		2	3.65	1.74	0.40	5.63	3.34	27.38	0.88
	Ec	1	3.76	14.55	2.80	39.73	62.13	430.00	13.80
		2	3.63	14.11	1.72	24.43	59.00	258.88	8.31
		3	3.51	22.08	4.73	67.20	67.51	520.82	16.72
		4	3.38	6.70	0.71	10.03	22.49	85.42	2.74
	Ecf	1	3.45	1.58	0.28	4.03	9.84	63.55	2.04
		2	3.48	1.73	0.64	9.13	8.00	106.83	3.43
		3	3.52	0.19	0.02	0.33	0.00	0.00	0.00
		4	3.56	3.09	0.66	9.41	15.27	117.80	3.78
		5	3.64	0.18	0.02	0.30	0.00	0.00	0.00
	Ef	1	15.31	0.68	0.15	2.15	0.00	0.00	0.00
		2	15.31	0.42	0.07	0.97	0.00	0.00	0.00
	Exp	1	3.89	10.53	1.89	26.82	65.04	420.00	13.48
		2	4.03	11.65	2.08	29.55	81.41	523.52	16.80
16:30-17:30	F	1	6.38	20.08	1.22	17.34	79.99	175.18	5.62
		2	6.43	21.47	1.60	22.79	81.53	219.32	7.04
		3	6.54	32.18	3.96	56.22	99.35	440.14	14.13
	Fc	1	19.30	4.51	0.74	10.54	54.40	322.50	5.27
		2	18.73	8.43	1.88	26.71	90.71	728.79	12.36
		3	19.54	7.11	1.75	24.83	32.93	291.40	4.51
	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	406.57	33.01	468.74	461.57	1308.70	22.33
		2	11.45	414.79	36.29	515.38	471.39	1310.24	42.06
	Gf	1	2.92	13.44	1.09	15.49	68.43	184.28	5.92
		2	2.88	0.20	0.02	0.23	2.23	6.50	0.21
	xA	1	17.22	1.27	0.26	3.76	9.71	72.60	2.33
		2	17.25	0.47	0.11	1.56	0.00	0.00	0.00
	xB	1	6.03	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	8.67	130.67	23.59	335.04	121.02	785.98	25.23
		2	8.70	130.51	23.56	334.62	122.05	786.01	25.23
	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	7.94	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	6.51	13.19	2.66	37.82	67.33	489.32	19.33
	E1	1	6.00	12.24	0.99	14.09	61.51	179.61	5.77
		2	6.00	14.64	2.05	29.16	67.37	340.19	10.92
	Gf1	1	3.59	0.22	0.00	0.04	0.60	0.28	0.01
	Cc2	2	10.67	40.68	10.88	154.49	109.56	1054.76	13.80
		3	9.39	15.42	3.17	45.03	61.78	457.28	7.88
		4	9.98	40.07	11.38	161.63	120.76	1235.02	19.35
		5	8.74	4.39	0.11	1.61	22.28	20.67	0.40
		6	7.87	0.98	0.10	1.42	0.00	0.00	0.00
	E2	3	4.00	12.15	0.99	13.99	61.40	179.27	5.75
		4	4.07	12.24	0.99	14.09	61.54	179.71	5.77
	TC5	2	2.76	4.92	0.77	10.89	32.17	180.49	2.26
		3	2.76	1.57	0.37	5.21	2.85	24.00	0.30

		4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	11.00	77.91	22.91	325.35	162.47	1720.10	21.57
		2	11.05	10.15	1.55	21.97	58.12	319.09	4.00
		3	11.12	12.93	2.57	36.43	67.56	482.35	6.05
	TC35	1	2.90	2.30	0.12	1.69	23.63	44.09	0.55
	TC36	1	3.03	0.44	0.07	0.97	0.00	0.00	0.00
	TC37	1	3.19	1.85	0.06	0.78	23.51	25.15	0.88
	TC38	1	1.53	2.44	0.07	1.03	31.48	33.68	1.17
	TC39	2	2.54	0.26	0.04	0.58	0.00	0.00	0.00
		3	2.40	0.47	0.11	1.56	0.00	0.00	0.00
	TC40	2	4.23	0.00	0.00	0.00	0.00	0.00	0.00
		3	4.02	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	3.93	39.55	2.16	30.73	112.15	220.94	7.70
		2	3.97	69.41	4.80	68.17	150.14	373.84	13.02
	TC42	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TC43	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	47	1	16.04	48.58	17.54	249.09	0.00	0.00	0.00
	48	1	6.61	0.96	0.27	3.83	0.00	0.00	0.00
	49	1	3.15	80.93	24.62	349.55	181.46	1953.34	24.49
		2	3.15	1.87	0.66	9.32	0.00	0.00	0.00
	50	1	5.78	157.81	58.17	826.03	249.53	3063.32	38.41
	51	1	4.50	0.91	0.24	3.34	0.00	0.00	0.00
	52	1	2.40	10.95	2.43	34.47	92.27	736.39	9.23
	53	1	3.00	399.05	189.50	2690.89	342.81	4627.92	58.03
	55	1	10.92	17.45	0.09	1.22	74.04	13.10	0.16
	56	1	24.00	23.36	0.08	1.11	85.35	10.24	0.13

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	12.69	12.96	97.94	0.00	0.00	
		2	0.00	3.86	13.37	28.89	0.00	6.00	
		3	0.00	3.66	13.67	26.73	0.00	7.00	
		4	0.00	13.43	13.97	96.10	0.00	1.00	
	Ac	1	0.00	21.41	16.66	128.48	0.00	1.00	
		2	0.00	2.02	16.06	12.59	0.00	9.21	
		3	0.00	2.79	15.30	18.26	0.00	4.00	
	Acf	1	0.00	0.23	12.10	1.87	0.00	17.00	
		2	0.00	0.04	12.25	0.29	0.00	30.00	
	Af	1	0.00	0.50	9.54	5.26	0.00	17.00	
		2	0.00	0.06	9.51	0.60	0.00	19.00	
		3	0.00	0.19	9.54	1.97	0.00	17.00	
	B	1	0.00	2.36	16.46	14.31	0.00	9.00	
		2	0.00	24.81	16.90	146.79	0.00	2.85	
		3	0.00	26.00	17.34	149.97	0.00	0.00	
		4	0.00	9.35	17.81	52.47	0.00	1.00	
	Bc	1	0.00	7.36	23.11	31.84	0.00	7.00	
		2	0.00	9.99	22.87	43.67	0.00	5.22	
		3	0.00	21.33	22.63	94.23	0.00	0.49	
	Bcf	1	0.00	1.16	10.90	10.62	0.00	60.00	
		2	0.00	0.08	10.98	0.73	0.00	20.00	
		3	0.00	0.11	10.84	1.04	0.00	19.00	
		4	0.00	0.23	10.83	2.17	0.00	13.00	
	Bf	1	0.00	43.87	39.62	110.74	0.00	45.79	
		2	0.00	46.85	39.73	117.92	0.00	32.72	
	C	1	0.00	7.86	21.07	37.32	0.00	0.00	
		2	0.00	4.20	21.28	19.75	0.00	0.34	
		3	0.00	3.84	21.63	17.75	0.00	0.00	

	Cf	1	0.00	0.03	25.15	0.13	0.00	0.00	
		2	0.00	0.06	25.37	0.23	0.00	0.00	
	D	1	0.00	6.05	9.57	63.23	0.00	5.00	
		2	0.00	2.82	9.57	29.46	0.00	9.00	
		3	0.00	4.31	9.72	44.36	0.00	8.00	
		4	0.00	6.13	10.37	59.13	0.00	5.00	
	Dc	1	0.00	2.52	8.74	28.82	0.00	8.00	
		2	0.00	9.73	8.41	115.73	0.00	4.00	
		3	0.00	2.34	8.07	29.02	0.00	14.00	
		4	0.00	5.69	7.74	73.53	0.00	12.00	
	Dcf	1	0.00	0.27	11.47	2.37	0.00	15.00	
		2	0.00	0.13	11.46	1.09	0.00	30.00	
		3	0.00	0.05	11.54	0.41	0.00	14.00	
		4	0.00	9.83	11.58	84.90	0.00	29.75	
		5	0.00	0.01	11.64	0.06	0.00	25.00	
		6	0.00	2.36	11.68	20.17	0.00	33.09	
	Df	1	0.00	3.89	34.78	11.18	0.00	0.00	
		2	0.00	4.64	34.78	13.35	0.00	0.00	
	Dxp	1	0.00	2.60	8.11	32.05	0.00	5.00	
		2	0.00	0.46	8.46	5.49	0.00	7.00	
	Ec	1	0.00	7.22	8.71	82.82	0.00	18.00	
		2	0.00	4.86	8.42	57.69	0.00	11.00	
		3	0.00	8.74	8.13	107.45	0.00	4.00	
		4	0.00	2.46	7.85	31.31	0.00	12.00	
	Ecf	1	0.00	2.44	7.99	30.51	0.00	24.79	
		2	0.00	2.96	8.06	36.72	0.00	15.84	
		3	0.00	0.02	8.16	0.29	0.00	31.00	
		4	0.00	2.76	8.26	33.45	0.00	36.03	
		5	0.00	0.02	8.44	0.25	0.00	43.00	
	Ef	1	0.00	0.15	22.18	0.68	0.00	0.00	
		2	0.00	0.07	22.18	0.31	0.00	0.00	
	Exp	1	0.00	7.04	9.01	78.09	0.00	9.00	
		2	0.00	8.98	9.34	96.16	0.00	20.00	
16:30-17:30	F	1	0.00	2.93	14.80	19.76	0.00	0.00	
		2	0.00	3.66	14.91	24.54	0.00	0.00	
		3	0.00	7.41	15.17	48.82	0.00	0.00	
	Fc	1	0.00	5.61	31.86	17.60	0.00	12.00	
		2	0.00	15.68	31.56	49.68	0.00	8.66	
		3	0.00	4.86	31.35	15.51	0.00	10.00	
	Ff	1	0.00	0.04	47.95	0.09	0.00	0.00	
		2	0.00	0.04	47.89	0.07	0.00	0.00	
	G	1	0.00	37.39	27.16	137.69	0.00	7.68	
		2	0.00	41.67	26.54	157.02	0.00	7.54	
	Gf	1	0.00	3.06	6.76	45.18	0.00	52.12	
		2	0.00	2.35	6.69	35.11	0.00	34.40	
	xA	1	0.00	2.44	39.94	6.12	0.00	29.19	
		2	0.00	0.11	40.00	0.28	0.00	37.00	
	xB	1	0.00	0.00	8.74	0.00	0.00	8.00	
	xC	1	0.00	30.01	20.10	149.25	0.00	39.47	
		2	0.00	30.00	20.17	148.75	0.00	39.47	
	xD	1	0.00	0.00	21.17	0.00	0.00	11.00	
		2	0.00	0.00	21.35	0.00	0.00	18.00	
	xE	1	0.00	0.00	30.24	0.00	0.00	14.00	
		2	0.00	0.00	30.23	0.00	0.00	27.00	
	xF	1	0.00	0.00	18.42	0.00	0.00	14.00	
	Cc1	1	0.00	11.02	16.61	66.35	0.00	6.00	
	E1	1	0.00	3.01	13.91	21.61	0.00	5.00	
		2	0.00	5.71	13.91	41.04	0.00	0.00	

	Gf1	1	0.00	0.01	8.32	0.07	0.00	43.00	
	Cc2	2	0.00	17.70	15.68	112.87	0.00	2.26	
		3	0.00	11.18	15.47	72.31	0.00	2.00	
		4	0.00	21.48	15.72	136.65	0.00	0.00	
		5	0.00	0.34	15.29	2.25	0.00	11.00	
		6	0.00	0.10	15.20	0.66	0.00	19.00	
	E2	3	0.00	3.00	9.27	32.35	0.00	0.24	
		4	0.00	3.00	9.45	31.80	0.00	0.00	
	TC5	2	0.00	3.01	4.01	75.12	0.00	16.00	
		3	0.00	0.40	4.00	10.05	0.00	16.00	
		4	0.00	0.00	4.25	0.00	0.00	0.00	
	TC9	1	0.00	31.73	15.95	198.93	0.00	0.00	
		2	0.00	5.33	16.02	33.25	0.00	0.00	
		3	0.00	8.24	16.12	51.14	0.00	0.00	
	TC35	1	0.00	1.46	4.20	34.80	0.00	18.00	
	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	66.29	0.00	9.00	
	TC39	2	0.00	0.04	6.13	0.67	0.00	36.00	
		3	0.00	0.11	5.79	1.90	0.00	36.00	
	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	30.00	
	TC41	1	0.00	3.74	9.50	39.38	0.00	0.00	
		2	0.00	6.73	9.58	70.31	0.00	0.00	
	TC42	1	0.00	0.00	4.06	0.00	0.00	0.00	
	TC43	1	0.00	0.00	9.04	0.00	0.00	60.00	
	47	1	0.00	17.54	23.24	75.48	0.00	0.00	
	48	1	0.00	0.27	9.59	2.81	0.00	0.00	
	49	1	0.00	38.98	4.56	853.96	0.00	26.01	
		2	0.00	0.66	4.56	14.38	0.00	0.00	
	50	1	0.00	75.27	8.37	898.99	0.00	21.23	
	51	1	0.00	0.24	6.52	3.61	0.00	0.00	
	52	1	0.00	12.53	3.48	360.23	0.00	0.00	
	53	1	0.00	203.67	4.35	4684.44	0.00	0.00	
	55	1	0.00	0.23	15.83	1.44	0.00	7.00	
	56	1	0.00	0.17	34.78	0.50	0.00	7.00	

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	✓	12.81	3.38	12.20	1.00	0.00	125.15
		2	0.00	0.00	✓	3.86	0.13	3.68	1.00	0.00	28.91
		3	0.00	0.00	✓	3.66	0.43	3.66	1.00	0.00	30.36
		4	0.00	0.00	✓	13.95	6.30	13.63	1.00	0.00	144.14
	Ac	1	0.00	0.00	✓	22.51	8.42	21.56	1.00	0.00	237.42
		2	0.00	0.00	✓	2.02	0.09	0.09	1.00	0.00	2.78
		3	0.00	0.00	✓	2.79	0.48	1.91	1.00	0.00	16.13
	Acf	1	0.00	0.00	✓	0.23			1.00	0.00	3.21
		2	0.00	0.00	✓	0.04			1.00	0.00	0.51
	Af	1	0.00	0.00	✓	0.50			1.00	0.00	7.13
		2	0.00	0.00	✓	0.06			1.00	0.00	0.82
		3	0.00	0.00	✓	0.19			1.00	0.00	2.66
	B	1	0.00	0.00	✓	2.36	0.04	1.68	1.00	0.00	15.20
		2	0.00	0.00	✓	28.55	21.29	28.55	1.00	0.00	350.63
		3	0.00	0.00	✓	30.24	21.13	30.24	1.00	0.00	360.31
		4	0.00	0.00	✓	9.61	3.49	9.60	1.00	0.00	87.78
		1	0.00	0.00	✓	7.36	0.38	4.69	1.00	0.00	28.13

	Bc	2	0.00	0.00	✓	9.99	0.70	4.40	1.00	0.00	36.00
		3	0.00	0.00	✓	21.38	2.70	9.57	1.00	0.00	104.13
	Bcf	1	0.00	0.00	✓	1.16			1.00	0.00	16.44
		2	0.00	0.00	✓	0.08			1.00	0.00	1.13
		3	0.00	0.00	✓	0.11			1.00	0.00	1.60
		4	0.00	0.00	✓	0.23			1.00	0.00	3.33
	Bf	1	0.00	0.00		52.76			1.00	0.00	505.96
		2	0.00	0.00	✓	48.23			1.00	0.00	438.42
	C	1	0.00	0.00	✓	7.89	1.47	7.34	1.00	0.00	62.19
		2	0.00	0.00	✓	4.20	0.27	4.04	1.00	0.00	28.85
		3	0.00	0.00	✓	3.84	0.24	3.69	1.00	0.00	26.15
	Cf	1	0.00	0.00	✓	0.03			1.00	0.00	0.47
		2	0.00	0.00	✓	0.06			1.00	0.00	0.82
		1	0.00	0.00	✓	6.05	0.56	6.02	1.00	0.00	57.99
		3	0.00	0.00	✓	4.31	0.17	4.31	1.00	0.00	38.43
		4	0.00	0.00	✓	6.14	0.45	6.13	1.00	0.00	57.82
	Dc	1	0.00	0.00	✓	2.52	0.20	2.17	1.00	0.00	14.49
		2	0.00	0.00	✓	9.79	2.84	9.79	1.00	0.00	100.59
		3	0.00	0.00	✓	2.34	0.02	1.14	1.00	0.00	7.76
		4	0.00	0.00	✓	5.69	0.15	5.13	1.00	0.00	45.40
	Dcf	1	0.00	0.00	✓	0.27			1.00	0.00	3.86
		2	0.00	0.00	✓	0.13			1.00	0.00	1.78
		3	0.00	0.00	✓	0.05			1.00	0.00	0.67
		4	0.00	0.00	✓	9.88			1.00	0.00	72.78
		5	0.00	0.00	✓	0.01			1.00	0.00	0.10
		6	0.00	0.00	✓	2.36			1.00	0.00	0.67
	Df	1	0.00	0.00	✓	3.89	0.15	2.75	1.00	0.00	11.91
		2	0.00	0.00	✓	4.64	0.16	3.28	1.00	0.00	14.00
	Dxp	1	0.00	0.00	✓	2.60	1.04	2.58	1.00	0.00	23.32
		2	0.00	0.00	✓	0.47	0.38	0.47	1.00	0.00	6.51
	Ec	1	0.00	0.00	✓	7.23	1.30	6.25	1.00	0.00	53.53
		2	0.00	0.00	✓	4.86	0.20	4.21	1.00	0.00	32.74
		3	0.00	0.00	✓	8.77	1.81	8.77	1.00	0.00	83.92
		4	0.00	0.00	✓	2.46	0.14	1.42	1.00	0.00	12.78
	Ecf	1	0.00	0.00	✓	2.44			1.00	0.00	6.07
		2	0.00	0.00	✓	2.96			1.00	0.00	12.56
		3	0.00	0.00	✓	0.02			1.00	0.00	0.33
		4	0.00	0.00	✓	2.76			1.00	0.00	13.19
		5	0.00	0.00	✓	0.02			1.00	0.00	0.30
	Ef	1	0.00	0.00	✓	0.15			1.00	0.00	2.15
		2	0.00	0.00	✓	0.07			1.00	0.00	0.97
	Exp	1	0.00	0.00	✓	7.04	0.20	6.89	1.00	0.00	40.30
16:30-17:30		2	0.00	0.00	✓	8.98	0.19	7.69	1.00	0.00	46.35
	F	1	0.00	0.00	✓	2.93	0.13	2.86	1.00	0.00	22.97
		2	0.00	0.00	✓	3.66	0.22	3.58	1.00	0.00	29.83
		3	0.00	0.00	✓	7.43	1.47	7.13	1.00	0.00	70.35
	Fc	1	0.00	0.00	✓	5.61	0.17	4.84	1.00	0.00	15.81
		2	0.00	0.00	✓	15.68	0.51	5.37	1.00	0.00	39.07
		3	0.00	0.00	✓	4.87	0.61	4.85	1.00	0.00	29.34
	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		43.38	36.34	41.82	1.00	0.00	491.07
		2	0.00	0.00		55.19	48.48	51.21	1.00	0.00	557.44
	Gf	1	0.00	0.00		3.06			1.00	0.00	21.40
		2	0.00	0.00		2.35			1.00	0.00	0.44
	xA	1	0.00	0.00	✓	2.44			1.00	0.00	6.09
		2	0.00	0.00	✓	0.11			1.00	0.00	1.56

	xB	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
	xC	1	0.00	0.00		35.28			1.00	0.00	360.26
		2	0.00	0.00		35.28			1.00	0.00	359.85
	xD	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
		2	0.00	0.00	✓	0.00			1.00	0.00	0.00
	xE	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
		2	0.00	0.00	✓	0.00			1.00	0.00	0.00
	xF	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
	Cc1	1	0.00	0.00	✓	11.03	0.75	7.09	1.00	0.00	57.14
	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	0.05
	Cc2	2	0.00	0.00	✓	18.16	6.19	17.22	1.00	0.00	168.29
		3	0.00	0.00	✓	11.19	0.93	5.86	1.00	0.00	52.90
		4	0.00	0.00	✓	22.32	7.95	16.87	1.00	0.00	180.97
		5	0.00	0.00	✓	0.34	0.00	0.34	1.00	0.00	2.00
		6	0.00	0.00	✓	0.10	0.10	0.10	1.00	0.00	1.42
	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
	TC5	2	0.00	0.00	✓	3.01	0.11	3.01	1.00	0.00	13.15
		3	0.00	0.00	✓	0.40	0.35	0.40	1.00	0.00	5.51
		4	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC9	1	0.00	0.00	✓	38.46	22.52	38.41	1.00	0.00	346.92
		2	0.00	0.00	✓	5.33	0.26	4.81	1.00	0.00	25.97
		3	0.00	0.00	✓	8.25	0.66	6.79	1.00	0.00	42.48
	TC35	1	0.00	0.00	✓	1.46	0.01	0.73	1.00	0.00	2.25
	TC36	1	0.00	0.00	✓	0.07			1.00	0.00	0.97
	TC37	1	0.00	0.00	✓	0.42	0.00	0.42	1.00	0.00	1.66
	TC38	1	0.00	0.00	✓	2.46			1.00	0.00	2.20
	TC39	2	0.00	0.00	✓	0.04			1.00	0.00	0.58
		3	0.00	0.00	✓	0.11			1.00	0.00	1.56
	TC40	2	0.00	0.00	✓	0.00			1.00	0.00	0.00
		3	0.00	0.00	✓	0.00			1.00	0.00	0.00
	TC41	1	0.00	0.00	✓	3.76	0.85	3.70	1.00	0.00	38.43
		2	0.00	0.00	✓	7.07	3.41	7.00	1.00	0.00	81.19
	TC42	1	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC43	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
	47	1	0.00	0.00		25.00			1.00	0.00	249.09
	48	1	0.00	0.00	✓	0.27			1.00	0.00	3.83
	49	1	0.00	0.00	✓	51.60			1.00	0.00	374.05
		2	0.00	0.00	✓	0.66			1.00	0.00	9.32
	50	1	0.00	0.00	✓	125.28			1.00	0.00	864.44
	51	1	0.00	0.00	✓	0.24			1.00	0.00	3.34
	52	1	0.00	0.00	✓	12.53	0.43	6.08	1.00	0.00	43.70
	53	1	0.00	0.00	✓	383.46	361.41	367.31	1.00	0.00	2748.92
	55	1	0.00	0.00	✓	0.23	0.00	0.23	1.00	0.00	1.38
	56	1	0.00	0.00	✓	0.17	0.00	0.17	1.00	0.00	1.23

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	12	0.00	0.00	0.00	0.00
		2	0	0	11000	12	0.00	0.00	0.00	0.00
	10	1	0	0	11000	17	0.00	0.00	0.00	0.00
		2	0	0	11000	17	0.00	0.00	0.00	0.00
	11	1	0	0	11000	28	0.00	0.00	0.00	0.00
		2	0	0	11000	28	0.00	0.00	0.00	0.00
	12	1	0	0	11000	28	0.00	0.00	0.00	0.00
		2	0	0	11000	28	0.00	0.00	0.00	0.00
	13	1	0	0	11000	11	0.00	0.00	0.00	0.00
		2	0	0	11000	11	0.00	0.00	0.00	0.00
	14	1	0	0	11000	39	0.00	0.00	0.00	0.00
		2	0	0	11000	39	0.00	0.00	0.00	0.00
	15	1	0	0	0	0	0.00	0.00	0.00	0.00
		2	0	0	0	0	0.00	0.00	0.00	0.00
	16	1	0	0	11000	9	0.00	0.00	0.00	0.00
		2	0	0	11000	9	0.00	0.00	0.00	0.00
	17	1	0	0	11000	5	0.00	0.00	0.00	0.00
		2	0	0	11000	5	0.00	0.00	0.00	0.00
	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	2750	0		Unrestricted	0.00	12
		2	0	0	0		11000	2750	0		Unrestricted	0.00	12
	10	1	0	0	0		11000	3667	0		Unrestricted	0.00	17
		2	0	0	0		11000	3667	0		Unrestricted	0.00	17
	11	1	0	0	0		11000	5683	0		Unrestricted	0.00	28
		2	0	0	0		11000	5683	0		Unrestricted	0.00	28
	12	1	0	0	0		11000	5683	0		Unrestricted	0.00	28
		2	0	0	0		11000	5683	0		Unrestricted	0.00	28
	13	1	0	0	0		11000	2567	0		Unrestricted	0.00	11
		2	0	0	0		11000	2567	0		Unrestricted	0.00	11
	14	1	0	0	0		11000	7700	0		Unrestricted	0.00	39
		2	0	0	0		11000	7700	0		Unrestricted	0.00	39
	15	1	0	0	0		0	0	0		-100	0.00	0
		2	0	0	0		0	0	0		-100	0.00	0
	16	1	0	0	0		11000	2200	0		Unrestricted	0.00	9
		2	0	0	0		11000	2200	0		Unrestricted	0.00	9
	17	1	0	0	0		11000	1467	0		Unrestricted	0.00	5
		2	0	0	0		11000	1467	0		Unrestricted	0.00	5
	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	16/07/2021 12:19:57	16/07/2021 12:20:08	16:30	60	10885.77	700.01	126.63	53/1	17	11	TC5/4	50/1	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	127	-100	76309	4984	33.02	9940.21	945.56	10885.77

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	626	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	76309	75761	1468	✓	127	✓	-100	5610

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	8.14	33.02	700.01	9940.21	60.20	44116.27	945.56

Network Results: Queues and blocking

Time Segment	Utilised storage (%)	Excess queue penalty (£ per hr)	Wasted time total (s (per cycle))
16:30-17:30	4684.44	0.00	1533.41

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	10885.77

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	980.4	731.7	749.3	647.0	645.1	635.9	526.2	0.0
	B28	619.1	0.0	103.8	150.4	122.5	146.0	161.6	0.0
	C28	585.8	706.5	0.0	104.5	84.3	112.7	129.8	0.0
	D28	538.2	331.9	189.3	0.0	239.0	93.6	102.6	0.0
	E28	547.8	671.8	200.2	47.4	0.0	90.2	97.8	0.0
	F28	514.2	318.4	221.9	279.9	261.6	0.0	16.7	0.0
	G28	632.7	442.6	168.8	227.0	210.5	212.9	0.0	0.0
	H28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	Calculated Total Flow (PCU/hr)	Avg journey time (s)
32	C28	E28	91	84.28	91	84.28

36	C28	E28	0	0.00	0	0.00
68	E28	G28	144	97.78	144	97.78
81	G28	B28	146	443.58	146	443.58
82	G28	B28	146	443.43	146	443.43
83	G28	B28	4	373.62	4	373.62
84	G28	B28	0	0.00	0	0.00
85	D28	B28	132	329.24	132	329.24
86	D28	B28	132	329.21	132	329.21
87	D28	B28	44	340.16	44	340.16
88	D28	B28	43	340.13	43	340.13
89	H28	B28	0	0.00	0	0.00
90	H28	B28	0	0.00	0	0.00
91	C28	F28	21	112.65	21	112.65
92	E28	F28	10	90.21	10	90.21
100	E28	B28	292	665.56	292	665.56
102	A28	C28	60	568.49	60	568.49
104	C28	G28	137	120.01	137	120.01
107	A28	B28	25	731.68	25	731.68
109	C28	G28	296	136.03	296	136.03
110	E28	G28	8	97.24	8	97.24
111	G28	G28	0	0.00	0	0.00
112	F28	G28	107	16.72	107	16.72
113	G28	G28	0	0.00	0	0.00
114	C28	H28	0	0.00	0	0.00
115	B28	C28	4	100.97	4	100.97
116	G28	G28	0	0.00	0	0.00
117	G28	F28	2	295.63	2	295.63
118	G28	G28	0	0.00	0	0.00
124	H28	F28	0	0.00	0	0.00
125	H28	H28	0	0.00	0	0.00
128	F28	F28	0	0.00	0	0.00
129	F28	H28	0	0.00	0	0.00
130	G28	G28	0	0.00	0	0.00
131	G28	G28	0	0.00	0	0.00
132	H28	H28	0	0.00	0	0.00
133	F28	H28	0	0.00	0	0.00
136	A28	G28	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	A28	H28	0	0.00	0	0.00
140	E28	C28	0	0.00	0	0.00
141	E28	C28	0	0.00	0	0.00
142	C28	H28	0	0.00	0	0.00
143	E28	H28	0	0.00	0	0.00
144	D28	C28	0	0.00	0	0.00
145	H28	C28	0	0.00	0	0.00
146	G28	A28	0	0.00	0	0.00
147	G28	C28	549	149.35	549	149.35
148	G28	C28	0	0.00	0	0.00
149	A28	E28	40	824.96	40	824.96
150	E28	B28	292	677.99	292	677.99
151	E28	C28	43	196.67	43	196.67
152	D28	C28	220	187.05	220	187.05
153	H28	C28	0	0.00	0	0.00
154	D28	D28	0	0.00	0	0.00
155	D28	E28	8	237.55	8	237.55
156	H28	D28	0	0.00	0	0.00
157	H28	E28	0	0.00	0	0.00

158	F28	D28	85	279.92	85	279.92
159	F28	E28	44	261.34	44	261.34
160	F28	E28	44	261.90	44	261.90
162	C28	E28	2	84.29	2	84.29
163	A28	A28	2	985.22	2	985.22
164	A28	A28	2	975.51	2	975.51
165	B28	G28	110	171.14	110	171.14
166	B28	C28	92	103.94	92	103.94
167	C28	G28	0	0.00	0	0.00
169	B28	B28	0	0.00	0	0.00
170	B28	B28	0	0.00	0	0.00
171	G28	H28	0	0.00	0	0.00
172	F28	A28	157	514.21	157	514.21
181	B28	F28	13	146.04	13	146.04
183	C28	B28	0	0.00	0	0.00
184	C28	B28	0	0.00	0	0.00
185	A28	B28	25	731.78	25	731.78
186	A28	C28	326	782.57	326	782.57
195	D28	G28	160	102.56	160	102.56
196	D28	F28	59	93.56	59	93.56
234	C28	G28	36	120.56	36	120.56
235	E28	G28	0	0.00	0	0.00
236	E28	H28	0	0.00	0	0.00
294	C28	B28	23	676.11	23	676.11
295	C28	B28	23	736.90	23	736.90
296	D28	G28	0	0.00	0	0.00
297	D28	H28	0	0.00	0	0.00
304	C28	D28	300	104.54	300	104.54
305	E28	D28	106	47.41	106	47.41
315	G28	A28	735	632.65	735	632.65
320	C28	A28	0	0.00	0	0.00
321	C28	A28	360	585.84	360	585.84
323	E28	A28	24	537.12	24	537.12
324	E28	A28	419	548.38	419	548.38
325	D28	A28	5	538.18	5	538.18
326	H28	A28	0	0.00	0	0.00
383	A28	G28	393	523.21	393	523.21
384	A28	H28	0	0.00	0	0.00
385	B28	H28	0	0.00	0	0.00
386	B28	A28	0	0.00	0	0.00
387	B28	A28	18	619.09	18	619.09
391	B28	G28	110	153.40	110	153.40
392	B28	G28	19	153.95	19	153.95
393	B28	H28	0	0.00	0	0.00
402	B28	D28	165	150.38	165	150.38
403	B28	E28	130	133.19	130	133.19
423	C28	D28	0	0.00	0	0.00
424	C28	E28	0	0.00	0	0.00
425	C28	G28	10	112.23	10	112.23
426	C28	F28	0	0.00	0	0.00
427	C28	H28	0	0.00	0	0.00
432	C28	G28	0	0.00	0	0.00
433	C28	H28	0	0.00	0	0.00
434	C28	A28	0	0.00	0	0.00
436	C28	A28	0	0.00	0	0.00
441	B28	E28	347	118.49	347	118.49
448	A28	F28	59	635.92	59	635.92
449	A28	G28	10	643.82	10	643.82

450	F28	B28	20	318.52	20	318.52
451	F28	B28	20	318.33	20	318.33
458	G28	F28	27	206.77	27	206.77
475	G28	C28	50	294.04	50	294.04
476	G28	C28	10	235.74	10	235.74
477	C28	C28	0	0.00	0	0.00
478	C28	C28	0	0.00	0	0.00
479	C28	C28	0	0.00	0	0.00
480	C28	C28	0	0.00	0	0.00
481	C28	C28	0	0.00	0	0.00
482	C28	C28	0	0.00	0	0.00
483	E28	C28	0	0.00	0	0.00
484	D28	C28	0	0.00	0	0.00
485	F28	C28	0	0.00	0	0.00
487	G28	D28	131	227.00	131	227.00
488	G28	E28	116	207.71	116	207.71
489	G28	D28	0	0.00	0	0.00
490	G28	E28	0	0.00	0	0.00
491	A28	D28	12	646.96	12	646.96
492	A28	E28	373	625.85	373	625.85
493	E28	E28	1	0.00	1	0.00
494	G28	C28	324	180.23	324	180.23
495	G28	E28	116	211.95	116	211.95
496	G28	C28	0	0.00	0	0.00
497	G28	E28	2	288.48	2	288.48
498	C28	C28	0	0.00	0	0.00
499	C28	C28	0	0.00	0	0.00
500	E28	C28	43	203.64	43	203.64
501	E28	E28	1	0.00	1	0.00
502	D28	C28	120	193.31	120	193.31
503	D28	E28	8	240.37	8	240.37
504	H28	C28	0	0.00	0	0.00
505	H28	E28	0	0.00	0	0.00
506	F28	C28	38	246.70	38	246.70
507	C28	C28	0	0.00	0	0.00
508	C28	C28	0	0.00	0	0.00
509	F28	C28	38	197.18	38	197.18

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	880	2050	28	0.00	89	1	34.91	29.32	83.02	12.69
	2	(untitled)	6	771-2	E	390	2050	28	6.00	39	129	19.70	13.93	59.79	3.86
	3	(untitled)	6	771-2	E	587	2050	28	7.00	59	52	15.94	10.04	37.70	3.66
	4	(untitled)	6	771-2	E	929	2050	28	1.00	94	-4	38.58	32.55	83.42	13.43
Ac	**1**	(untitled)	6	771-2	D	830 <	2263	22	1.00	96	-6	67.74	60.55	147.39	21.41 +
	2	(untitled)	6	771-2	D	264	2263	22	9.21	34	167	11.39	1.89	18.07	2.02
	3	(untitled)	6	771-2	D	529	2263	22	4.00	61	48	12.57	5.98	21.56	2.79
Acf	**1**	(untitled)	6			1094	2263	60	17.00	48	86	5.96	0.74	0.00	0.23
	2	(untitled)	6			529	2263	60	30.00	23	285	7.49	0.24	0.00	0.04
Af	**1**	(untitled)	6			1270	2050	60	17.00	62	45	8.01	1.42	0.00	0.50
	2	(untitled)	6			587	2050	60	19.00	29	214	6.91	0.35	0.00	0.06

	3	(untitled)	6			929	2050	60	17.00	45	99	7.31	0.73	0.00	0.19
B	1	(untitled)	1	769-1	B	98	2050	11	9.00	24	275	37.91	30.81	102.22	2.36
	2	(untitled)	1	769-1	B	328 <	2150	11	2.85	100	-10	252.63	245.34	318.14	24.81 +
	3	(untitled)	1	769-1	B	420 <	2100	11	0.00	100	-10	200.25	192.78	303.70	26.00 +
	4	(untitled)	1	769-1	B	367	2050	11	1.00	90	0	68.23	55.94	146.29	9.35
Bc	1	(untitled)	1	769-1	A	741	2050	37	7.00	57	58	16.05	6.08	43.51	7.36
	2	(untitled)	1	769-1	A	850	2050	37	5.22	68	33	17.30	7.44	40.57	9.99
	3	(untitled)	1	769-1	A	1108	2050	37	0.49	86	4	26.65	16.89	85.24	21.33
Bcf	1	(untitled)	1			1709	2263	60	60.00	76	19	6.78	2.44	0.00	1.16
	2	(untitled)	1			741	2263	60	20.00	33	175	5.79	0.39	0.00	0.08
	3	(untitled)	1			850	2263	60	19.00	38	140	6.26	0.48	0.00	0.11
	4	(untitled)	1			1108	2263	60	13.00	49	84	6.92	0.76	0.00	0.23
Bf	1	(untitled)	1			440 <	1800	60	45.79	103	-13	304.16	276.82	470.40	43.87 +
	2	(untitled)	1			787 <	1800	60	32.72	96	-6	157.85	130.43	338.17	46.85 +
C	1	(untitled)	2	769-2	G	443	2100	15	0.00	79	14	46.77	32.24	105.53	7.86
	2	(untitled)	2	769-2	G	295	2200	15	0.34	51	75	36.75	22.07	85.58	4.20
	3	(untitled)	2	769-2	G	270	2050	15	0.00	49	82	36.77	21.84	85.26	3.84
Cf	1	(untitled)	2			443	1965	60	0.00	23	299	17.62	0.27	0.00	0.03
	2	(untitled)	2			565	1965	60	0.00	29	213	17.87	0.37	0.00	0.06
D	1	(untitled)	3	770-1	B	393	2050	17	5.00	64	41	34.03	29.90	92.20	6.05
	2	(untitled)	3	770-1	B	204	1850	17	9.00	37	145	28.04	23.91	82.79	2.82
	3	(untitled)	3	770-1	B	296	2250	17	8.00	44	105	29.99	25.80	87.40	4.31
	4	(untitled)	3	770-1	B	406	2250	17	5.00	60	50	33.21	28.74	90.53	6.13
Dc	1	(untitled)	3	770-1	A	553	2100	33	8.00	46	94	8.50	4.73	23.57	2.52
	2	(untitled)	3	770-1	A	1035 <	2100	33	4.00	87	3	23.72	20.10	55.77	9.73 +
	3	(untitled)	3	770-1	A	235	2100	33	14.00	20	356	9.48	6.00	29.19	2.34
	4	(untitled)	3	770-1	A	495	2100	33	12.00	42	116	20.62	17.29	73.15	5.69
Dcf	1	(untitled)	3			1055	2050	60	15.00	51	75	5.88	0.93	0.00	0.27
	2	(untitled)	3			821	2100	60	30.00	39	130	5.49	0.55	0.00	0.13
	3	(untitled)	3			553	2100	60	14.00	26	242	5.28	0.31	0.00	0.05
	4	(untitled)	3			1035	2100	60	29.75	86	4	18.70	13.71	50.54	9.83
	5	(untitled)	3			235	2100	60	25.00	11	705	5.13	0.11	0.00	0.01
	6	(untitled)	3			495	2100	60	33.09	24	281	5.31	0.27	0.90	2.36
Df	1	(untitled)	3-2	13	B	585	1900	43	0.00	42	114	28.02	4.02	35.92	3.89
	2	(untitled)	3-2	13	B	702	2250	43	0.00	43	112	27.91	3.91	36.05	4.64
Dxp	1	(untitled)	3-2	770-2	D	1061	2050	41	5.00	74	22	7.92	4.42	14.13	2.60
	2	(untitled)	3-2	770-2	D	821	2050	41	7.00	57	57	5.39	1.74	3.34	0.46
Ec	1	(untitled)	4	770-3	F	692	2150	24	18.00	77	16	18.31	14.55	62.13	7.22
	2	(untitled)	4	770-3	F	439	2263	24	11.00	47	93	17.75	14.11	59.00	4.86
	3	(untitled)	4	770-3	F	771 <	2263	24	4.00	82	10	25.59	22.08	67.51	8.74 +
	4	(untitled)	4	770-3	F	380	2250	24	12.00	41	122	10.08	6.70	22.49	2.46
Ecf	1	(untitled)	4			646	2100	60	24.79	38	135	5.03	1.58	9.84	2.44
	2	(untitled)	4			1335	2100	60	15.84	66	37	5.21	1.73	8.00	2.96
	3	(untitled)	4			439	2263	60	31.00	19	364	3.71	0.19	0.00	0.02
	4	(untitled)	4			771	2300	60	36.03	56	61	6.65	3.09	15.27	2.76
	5	(untitled)	4			426	2300	60	43.00	19	386	3.82	0.18	0.00	0.02
Ef	1	(untitled)	4			797	1900	60	0.00	42	115	15.99	0.68	0.00	0.15
	2	(untitled)	4			584	1900	60	0.00	31	193	15.73	0.42	0.00	0.07
Exp	1	(untitled)	4-2	770-4	L	646	2050	40	9.00	46	95	14.42	10.53	65.04	7.04
	2	(untitled)	4-2	770-4	L	643	2050	40	20.00	46	96	15.68	11.65	81.41	8.98
F	1	(untitled)	5	771-1	B	219	2100	15	0.00	39	130	26.46	20.08	79.99	2.93
	2	(untitled)	5	771-1	B	269	2100	15	0.00	48	87	27.90	21.47	81.53	3.66
	3	(untitled)	5	771-1	B	443	2100	15	0.00	79	14	38.72	32.18	99.35	7.41
Fc	1	(untitled)	5	771-1	A	593	2263	35	12.00	44	106	23.81	4.51	54.40	5.61
	2	(untitled)	5	771-1	A	803	2263	35	8.66	62	45	27.16	8.43	90.71	15.68
	3	(untitled)	5	771-1	A	885	2263	35	10.00	65	38	26.65	7.11	32.93	4.86
Ff	1	(untitled)	5			488	1900	60	0.00	26	250	33.41	0.33	0.00	0.04
	2	(untitled)	5			443	1900	60	0.00	23	286	33.34	0.29	0.00	0.04

G	1	(untitled)	2	769-2	F	292 <	2050	15	7.68	103	-13	422.63	406.57	461.57	37.39 +
	2	(untitled)	2	769-2	F	315 <	2050	15	7.54	109	-17	426.24	414.79	471.39	41.67 +
Gf	1	(untitled)	4			292	2050	60	52.12	25	257	16.36	13.44	68.43	3.06
	2	(untitled)	4			292	2050	60	34.40	14	528	3.08	0.20	2.23	2.35
xA	1	(untitled)	10			748	2263	60	29.19	39	131	18.50	1.27	9.71	2.44
	2	(untitled)	10			842	2263	60	37.00	37	142	17.72	0.47	0.00	0.11
xB	1	(untitled)				1350	Unrestricted	60	8.00	0	Unrestricted	6.03	0.00	0.00	0.00
xC	1	(untitled)				650 <	1900	60	39.47	100	-10	139.34	130.67	121.02	30.01 +
	2	(untitled)				650 <	1900	60	39.47	100	-10	139.21	130.51	122.05	30.00 +
xD	1	(untitled)				1061	Unrestricted	60	11.00	0	Unrestricted	9.13	0.00	0.00	0.00
	2	(untitled)				821	Unrestricted	60	18.00	0	Unrestricted	9.21	0.00	0.00	0.00
xE	1	(untitled)				646	Unrestricted	60	14.00	0	Unrestricted	13.04	0.00	0.00	0.00
	2	(untitled)				643	Unrestricted	60	27.00	0	Unrestricted	13.04	0.00	0.00	0.00
xF	1	(untitled)				798	Unrestricted	60	14.00	0	Unrestricted	7.94	0.00	0.00	0.00
Cc1	1	(untitled)	2	769-2	E	727	2050	30	6.00	69	31	19.70	13.19	67.33	11.02
E1	1	(untitled)	4	770-3	G	292	2050	25	5.00	33	174	18.24	12.24	61.51	3.01
	2	(untitled)	4	770-3	G	505	2200	25	0.00	53	70	20.64	14.64	67.37	5.71
Gf1	1	(untitled)	4			46	647	60	43.00	7	1166	3.81	0.22	0.60	0.01
Cc2	2	(untitled)	2	769-2	D	963 <	2150	29	2.26	93	-4	51.35	40.68	109.56	17.70 +
	3	(untitled)	2	769-2	D	740	2050	29	2.00	72	25	24.81	15.42	61.78	11.18
	4	(untitled)	2	769-2	D	1023 <	2150	29	0.00	95	-5	50.04	40.07	120.76	21.48 +
	5	(untitled)	2	769-2	D	93	2050	29	11.00	9	894	13.13	4.39	22.28	0.34
	6	(untitled)	2	769-2	D	367	2050	29	19.00	36	151	8.85	0.98	0.00	0.10
E2	3	(untitled)	4	770-3	H	292	2150	25	0.24	32	185	16.14	12.15	61.40	3.00
	4	(untitled)	4	770-3	H	292	2050	25	0.00	33	174	16.31	12.24	61.54	3.00
TC5	2	(untitled)	TC771-6	TC777-1	A	561	2263	38	16.00	37	142	7.68	4.92	32.17	3.01
	3	(untitled)	TC771-6	TC777-1	A	842	2263	38	16.00	56	61	4.33	1.57	2.85	0.40
	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	1059 <	1925	30	0.00	100	-10	88.91	77.91	162.47	31.73 +
	2	(untitled)	TC771-6	TC777-1	B	549	1966	30	0.00	51	77	21.20	10.15	58.12	5.33
	3	(untitled)	TC771-6	TC777-1	B	714	1947	30	0.00	67	35	24.06	12.93	67.56	8.24
TC35	1	(untitled)	TC771-6	TC777-1	A	187	1900	38	18.00	15	511	5.20	2.30	23.63	1.46
TC36	1	(untitled)	TC771-6			553	1800	60	0.00	31	193	3.47	0.44	0.00	0.07
TC37	1	(untitled)	TC771-6	TC777-2	J	107	1850	45	0.00	8	1093	5.04	1.85	23.51	0.42
TC38	1	(untitled)	TC771-6			107	424	60	9.00	25	257	3.97	2.44	31.48	2.46
TC39	2	(untitled)	TC771-6			561	2263	60	36.00	25	263	2.80	0.26	0.00	0.04
	3	(untitled)	TC771-6			842	2263	60	36.00	37	142	2.87	0.47	0.00	0.11
TC40	2	(untitled)	TC771-6			668	Unrestricted	60	0.00	0	Unrestricted	4.23	0.00	0.00	0.00
	3	(untitled)	TC771-6			842	Unrestricted	60	30.00	0	Unrestricted	4.02	0.00	0.00	0.00
TC41	1	(untitled)	TC771-6	TC777-1	D	197	1850	8	0.00	71	27	43.48	39.55	112.15	3.74
	2	(untitled)	TC771-6	TC777-1	D	249	1850	8	0.00	90	0	73.38	69.41	150.14	6.73
TC42	1	(untitled)	TC771-6	TC777-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00
TC43	1	(untitled)				0	1800	60	60.00	0	Unrestricted	0.00	0.00	0.00	0.00
47	1	(untitled)	2			1300	1300	60	0.00	100	-10	64.61	48.58	0.00	17.54
48	1	(untitled)	2			1008	1965	60	0.00	51	75	7.58	0.96	0.00	0.27

49	1	(untitled)	TC771-6			1095 <	1900	60	26.01	102	-12	84.08	80.93	181.46	38.98 +
	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	21.23	108	-17	163.59	157.81	249.53	75.27 +
51	1	(untitled)	4-2			931	1900	60	0.00	49	84	5.41	0.91	0.00	0.24
52	1		4	11	A	798 <	1800	44	0.00	59	52	13.35	10.95	92.27	12.53 +
53	1		6	12	A	1710 <	1800	44	0.00	127	-29	402.05	399.05	342.81	203.67 +
55	1		TC771-6	TC777-1	J	18	1800	7	7.00	7	1121	28.37	17.45	74.04	0.23
56	1		3-2	13	A	12	1800	7	7.00	5	1700	47.36	23.36	85.35	0.17

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	12	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	J	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	
10	1	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	
11	1	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
12	1	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
13	1	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
14	1	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	
15	1	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	
16	1	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	
17	1	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
18	1	(untitled)	11	11	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	11	11	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	
19	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	

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	6590.08	872.49	7.55	700.01	9940.21	945.56	0.00	10885.77
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	6590.08	872.49	7.55	700.01	9940.21	945.56	0.00	10885.77

- *< = 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***