

LAMPIRAN

TRANSYT 14
Version: 14.1.2.316 [03-10-12] © Copyright Transport Research Laboratory 2024
For sales and distribution information, program advice and maintenance, contact TRL: Tel: +44 (0)1344 770758 E-mail: software@trl.co.uk Web: http://www.trlsoftware.co.uk
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Last run: 30/06/2024 15:12:45

Analysis Set used for last run: A1 - (untitled)

Filename: KOORDINASI PAGI.t14

Path: E:\KOORDINASI KAK LAMBANG\PAGI

Report generation date: 30/06/2024 15:13:54

- » Network Diagrams
 - « A1 - (untitled) : D1 - (untitled) *
- » Summary
- » Network Options
- » Traffic Nodes
- » Links
- » Signal Timings
- » TRANSYT 12 Tables
- » Final Prediction Table
- » Data Entry: Traffic Stream
- » Results: Traffic Stream
- » Results: Link
- » Data Entry: Signal Timings
- » Link Results
- » Network Results
- » Point to Point Journey Time
- » Offset Data

File summary

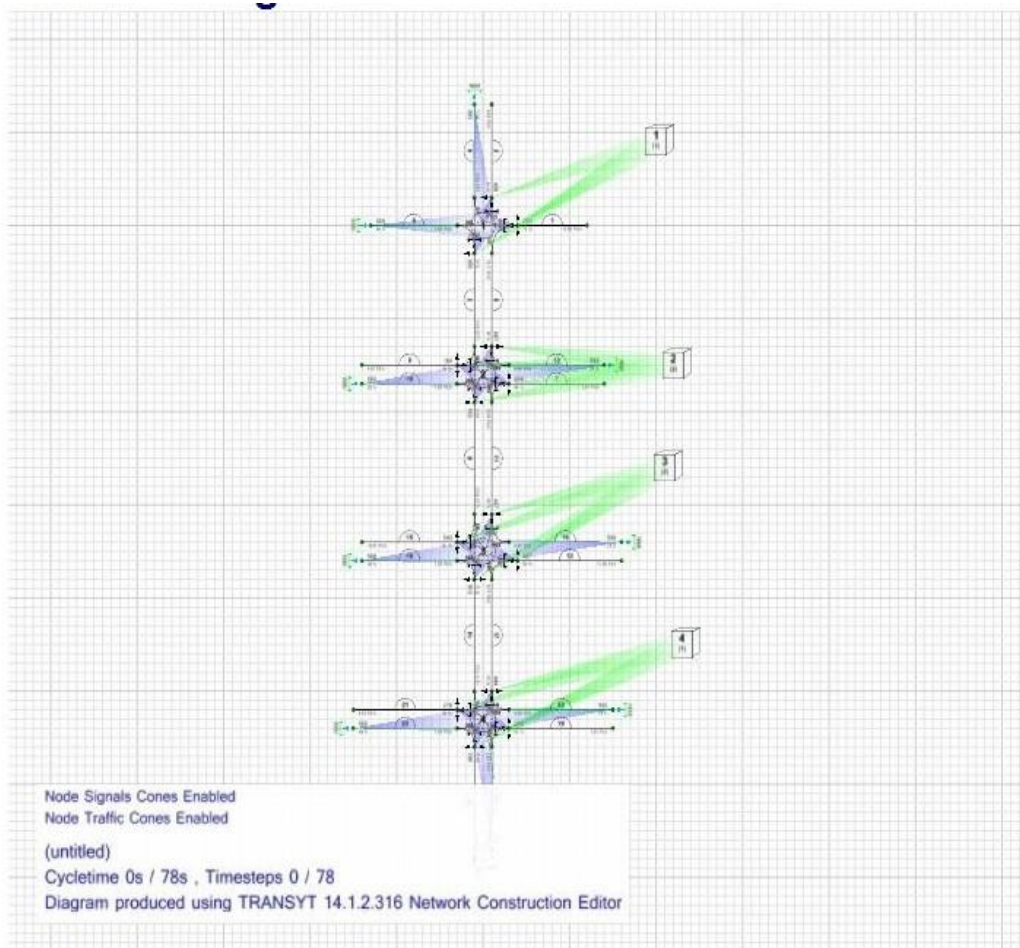
File Description

Title	(untitled)
Location	
Site Number	
UTCRegion	
Driving Side	Left
Date	07/06/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	ADMINISTRATOR\okyhe
Description	

Units

Speed Units	Distance Units	Fuel Economy Units	Fuel Rate Units
kph	m	mpg	l/h

Network Diagrams



A1 - (untitled) : D1 - (untitled) *

Summary

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Link Source Data	Link 7 - Link Flows	Link 7: downstream flow apparent gain = 234,67 (191,67%).
Warning	Link Source Data	Link 9 - Link Flows	Link 9: downstream flow apparent gain = 296,67 (252,92%).
Warning	Link Source Data	Link 19 - Link Flows	Link 19: downstream flow apparent gain = 342,83 (237,13%).
Warning	Link Source Data	Link 20 - Link Flows	Link 20: downstream flow apparent gain = 129,83 (128,04%).
Warning	Link Source Data	Link 21 - Link Flows	Link 21: downstream flow apparent gain = 518,33 (286,45%).
Info	Link Source Data	Link 6 - Link Flows	Link 6: downstream flow apparent loss = 178 (73,31%).

Run Summary

Modelling Start Time (HH:mm)	Cycle Time Used (s)	Total Network Delay (PCU-hr/hr)	Highest DOS (%)	LTSSWith Highest DOS	Number Of Oversaturated LTS	Percentage Of Oversaturated LTS (%)	Network Within Capacity
08:00	78	76,34	88,44	11	0	0	✓

Analysis Set Details

Name	Description	Demand Set	Include In Report	Locked
(untitled)		D1	✓	

Demand Set Details

Name	Description	Composite	Demand Sets	Start Time (HH:mm)	Locked
(untitled)				08:00	

Network Options

Network Timings

Network Cycle Time (s)	Time Segment Length (min)
78	60

Signals Options

Start Displacement (s)	End Displacement (s)
2	3

Traffic Options

Traffic Model	Flow Scaling Factor (%)	Cruise Times Or Speeds
Quick PDM	100	Cruise Speeds

Optimisation Options

Auto Redistribute	Optimisation Type	Optimisation Level
	Hill Climb (Fast)	Offsets And Green Splits

Economics

Unit Of Cost	Monetary Value Of Delay (£ per PCU-hr)	Monetary Value Of Stops (£ per 100 stops)
£	14,20	2,60

Traffic Nodes

Traffic Nodes

Traffic Node	Name	Description
1	(untitled)	
2	(untitled)	
3	(untitled)	
4	(untitled)	

Links

Links

Link	Name	Description	Traffic Node	Length (m)	Traffic Model	Has Restricted Flow	Saturation Flow (PCU/hr)	Is Signal Controlled	Controller Stream	Phase	Phase2 Enabled	Is Give Way	Is Pedestrian	Is Minor Shared	Major Link
1	(untitled)		1	100,00	[QuickPDM]	✓	2808	✓	1	A					N/A
2	(untitled)		1	100,00	[QuickPDM]	✓	3118	✓	1	B					N/A
3	(untitled)		1	400,00	[QuickPDM]	✓	2696	✓	1	C					N/A
4	(untitled)		1	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A

5	(untitled)	1	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
6	(untitled)	2	400,00	[QuickPDM]	✓	2885	✓	2	A					N/A
7	(untitled)	2	100,00	[QuickPDM]	✓	1939	✓	2	B					N/A
8	(untitled)	2	463,00	[QuickPDM]	✓	2945	✓	2	C					N/A
9	(untitled)	2	100,00	[QuickPDM]	✓	1502	✓	2	D					N/A
10	(untitled)	2	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
11	(untitled)	3	463,00	[QuickPDM]	✓	2942	✓	3	A					N/A
12	(untitled)	2	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
13	(untitled)	3	100,00	[QuickPDM]	✓	2831	✓	3	B					N/A
14	(untitled)	3	450,00	[QuickPDM]	✓	2966	✓	3	C					N/A
15	(untitled)	3	100,00	[QuickPDM]	✓	2855	✓	3	D					N/A
16	(untitled)	3	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
17	(untitled)	4	450,00	[QuickPDM]	✓	2874	✓	4	A					N/A
18	(untitled)	3	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
19	(untitled)	4	100,00	[QuickPDM]	✓	2801	✓	4	B					N/A
20	(untitled)	4	100,00	[QuickPDM]	✓	2940	✓	4	C					N/A
21	(untitled)	4	100,00	[QuickPDM]	✓	2933	✓	4	D					N/A
22	(untitled)	4	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
23	(untitled)	4	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A
24	(untitled)	4	100,00	[QuickPDM]	✓	1800		N/A	N/A					N/A

Modelling

Link	Stop Weighting (%)	Delay Weighting (%)	Exclude From Results Calculation	Max Queue Storage (PCU)	Has Queue Limit
1	100	100		0,00	
2	100	100		0,00	
3	100	100		0,00	
4	100	100		0,00	
5	100	100		0,00	
6	100	100		0,00	
7	100	100		0,00	
8	100	100		0,00	
9	100	100		0,00	
10	100	100		0,00	
11	100	100		0,00	
12	100	100		0,00	
13	100	100		0,00	
14	100	100		0,00	
15	100	100		0,00	
16	100	100		0,00	
17	100	100		0,00	
18	100	100		0,00	
19	100	100		0,00	
20	100	100		0,00	
21	100	100		0,00	
22	100	100		0,00	
23	100	100		0,00	
24	100	100		0,00	

Flows

Link	Total Flow (On Link) (PCU/hr)	Upstream Flow (Into Link) (PCU/hr)
1	750	750
2	426	426
3	505	505

4	500	500
5	500	500
6	667	667
7	256	256
8	554	554
9	194	194
10	500	500
11	467	467
12	500	500
13	457	457
14	519	519
15	543	543
16	500	500
17	444	444
18	500	500
19	250	250
20	463	463
21	278	278
22	500	500
23	500	500
24	500	500

Sources - default sources for entry links

Link	Entry Source Traffic Type	Entry Cruise Time (seconds)	Entry Cruise Speed (kph)	Entry Profile Type
1	Normal	12,00	30,00	FLAT
2	Normal	12,00	30,00	FLAT
7	Normal	12,00	30,00	FLAT
9	Normal	12,00	30,00	FLAT
13	Normal	12,00	30,00	FLAT
15	Normal	12,00	30,00	FLAT
19	Normal	12,00	30,00	FLAT
21	Normal	12,00	30,00	FLAT

Sources - sources for internal links

Link	Source	Source Type	Source Link	Source Traffic Type	Source Flow (PCU/hr)	Cruise Time (seconds)	Cruise Speed (kph)
3	1	Link	8	Normal	200	48,00	30,00
3	2	Link	7	Normal	200	48,00	30,00
3	3	Link	9	Normal	200	48,00	30,00
4	1	Link	1	Normal	200	12,00	30,00
4	2	Link	3	Normal	200	12,00	30,00
5	1	Link	1	Normal	200	12,00	30,00
5	2	Link	2	Normal	200	12,00	30,00
5	3	Link	3	Normal	200	12,00	30,00
6	1	Link	1	Normal	200	48,00	30,00
6	2	Link	2	Normal	200	48,00	30,00
8	1	Link	14	Normal	200	55,56	30,00
8	2	Link	13	Normal	200	55,56	30,00
8	3	Link	15	Normal	200	55,56	30,00
10	1	Link	8	Normal	200	12,00	30,00
10	2	Link	7	Normal	200	12,00	30,00
10	3	Link	6	Normal	200	12,00	30,00
11	1	Link	6	Normal	200	55,56	30,00
11	2	Link	7	Normal	200	55,56	30,00

11	3	Link	9	Normal	200	55,56	30,00
12	1	Link	6	Normal	200	12,00	30,00
12	2	Link	8	Normal	200	12,00	30,00
12	3	Link	9	Normal	200	12,00	30,00
14	1	Link	20	Normal	200	54,00	30,00
14	2	Link	19	Normal	200	54,00	30,00
16	1	Link	11	Normal	200	12,00	30,00
16	2	Link	14	Normal	200	12,00	30,00
16	3	Link	15	Normal	200	12,00	30,00
17	1	Link	11	Normal	200	54,00	30,00
17	2	Link	13	Normal	200	54,00	30,00
17	3	Link	15	Normal	200	54,00	30,00
18	1	Link	11	Normal	200	12,00	30,00
18	2	Link	14	Normal	200	12,00	30,00
18	3	Link	13	Normal	200	12,00	30,00
20	1	Link	21	Normal	200	12,00	30,00
22	1	Link	17	Normal	200	12,00	30,00
22	2	Link	21	Normal	200	12,00	30,00
22	3	Link	20	Normal	200	12,00	30,00
23	1	Link	17	Normal	200	12,00	30,00
23	2	Link	20	Normal	200	12,00	30,00
23	3	Link	19	Normal	200	12,00	30,00
24	1	Link	17	Normal	200	12,00	30,00
24	2	Link	21	Normal	200	12,00	30,00
24	3	Link	19	Normal	200	12,00	30,00

Signal Timings

78s cycle time; 78 steps

Controller Stream

Controller Stream	Name	Description	Multiple Cycling	Auto Redistribute	Use Sequence
1	(untitled)		Single		1
2	(untitled)		Single		1
3	(untitled)		Single		1
4	(untitled)		Single		1

Phases

Controller Stream	Phase	Name	Minimum Green (s)	Relative Start Displacement (s)	Relative End Displacement (s)
1	A	(untitled)	7	0	0
1	B	(untitled)	7	0	0
1	C	(untitled)	7	0	0
2	A	(untitled)	7	0	0
2	B	(untitled)	7	0	0
2	C	(untitled)	7	0	0
2	D	(untitled)	7	0	0
3	A	(untitled)	7	0	0
3	B	(untitled)	7	0	0
3	C	(untitled)	7	0	0
3	D	(untitled)	7	0	0
4	A	(untitled)	7	0	0
4	B	(untitled)	7	0	0

4	C	(untitled)	7	0	0
4	D	(untitled)	7	0	0

Library Stages

Controller Stream	Library Stage	Phases In Stage	User Stage Minimum (s)
1	1	A	1
1	2	B	1
1	3	C	1
2	1	A	1
2	2	B	1
2	3	C	1
2	4	D	1
3	1	A	1
3	2	B	1
3	3	C	1
3	4	D	1
4	1	A	1
4	2	B	1
4	3	C	1
4	4	D	1

Stage Sequences

Controller Stream	Stage Sequence	Name	Stage IDs	Multiple Cycling Stage IDs
1	1	(untitled)	1,2,3	
2	1	(untitled)	1,2,3,4	
3	1	(untitled)	1,2,3,4	
4	1	(untitled)	1,2,3,4	

Resultant Stages

Controller Stream	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)
1	1	✓	1	A	53	3	28	1	7
1	2	✓	2	B	8	23	15	1	7
1	3	✓	3	C	28	48	20	1	7
2	1	✓	1	A	46	66	20	1	7
2	2	✓	2	B	71	4	11	1	7
2	3	✓	3	C	9	25	16	1	7
2	4	✓	4	D	30	41	11	1	7
3	1	✓	1	A	52	65	13	1	7
3	2	✓	2	B	70	6	14	1	7
3	3	✓	3	C	11	26	15	1	7
3	4	✓	4	D	31	47	16	1	7
4	1	✓	1	A	74	15	19	1	7
4	2	✓	2	B	20	30	10	1	7
4	3	✓	3	C	35	53	18	1	7
4	4	✓	4	D	58	69	11	1	7

Resultant Phase Green Periods

Controller Stream	Phase	Green Period	Is Base Green Period	Start Time (s)	End Time (s)	Duration (s)
1	A	1	✓	53	3	28
1	B	1	✓	8	23	15
1	C	1	✓	28	48	20
2	A	1	✓	46	66	20

2	B	1	✓	71	4	11
2	C	1	✓	9	25	16
2	D	1	✓	30	41	11
3	A	1	✓	52	65	13
3	B	1	✓	70	6	14
3	C	1	✓	11	26	15
3	D	1	✓	31	47	16
4	A	1	✓	74	15	19
4	B	1	✓	20	30	10
4	C	1	✓	35	53	18
4	D	1	✓	58	69	11

Intergreen Matrix for Controller Stream 1

	To			
		A	B	C
From	A	-	5	5
	B	5	-	5
	C	5	5	-

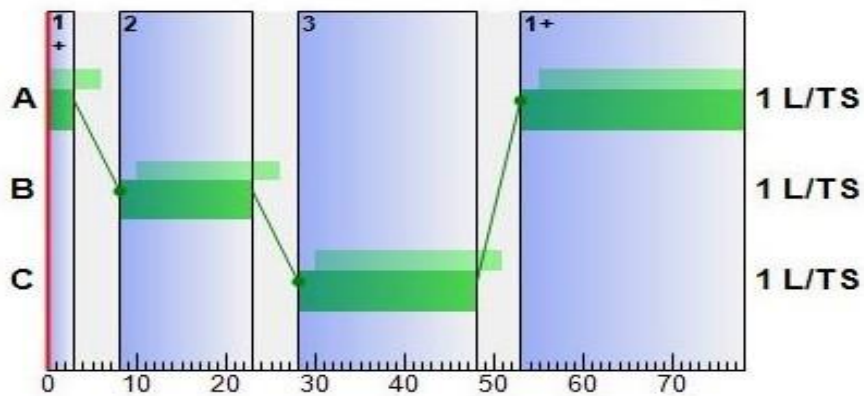
Interstage Matrix for Controller Stream 1

	To			
		1	2	3
From	1	-	5	5
	2	5	-	5
	3	5	5	-

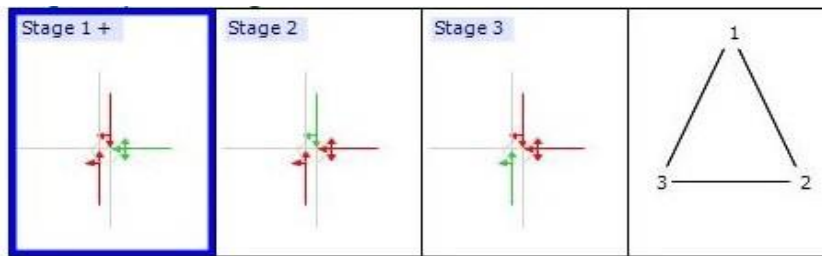
Banned Stage transitions for Controller Stream 1

	To			
		1	2	3
From	1	-		
	2		-	
	3			-

Phase Timings Diagram for Controller Stream 1



Stage Sequence Diagram for Controller Stream 1



Intergreen Matrix for Controller Stream 2

From	To				
	A	B	C	D	
	A	-	5	5	5
	B	5	-	5	5
	C	5	5	-	5
	D	5	5	5	-

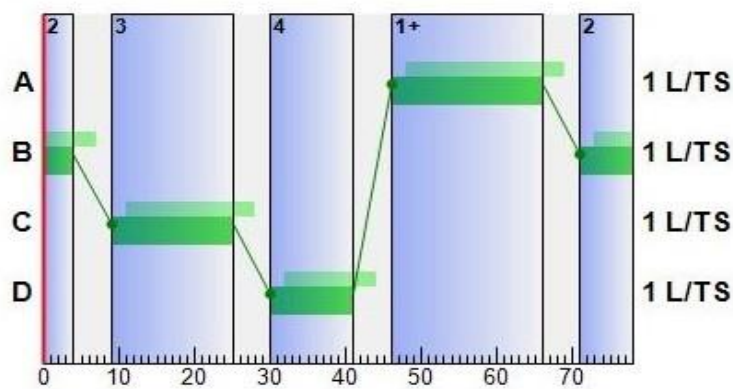
Interstage Matrix for Controller Stream 2

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

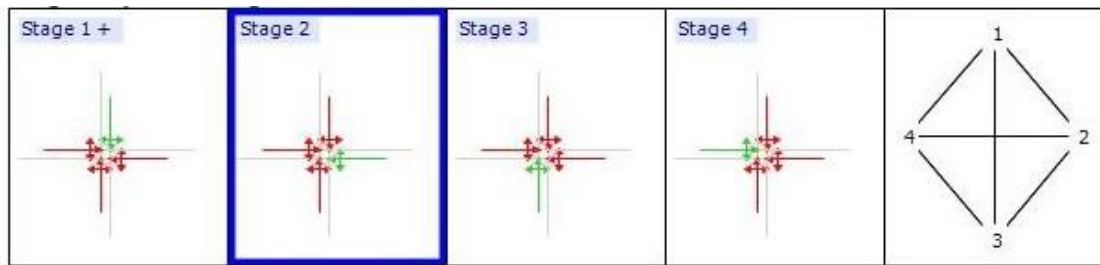
Banned Stage transitions for Controller Stream 2

From	To			
	1	2	3	4
	1	-		
	2		-	
	3			-
	4			

Phase Timings Diagram for Controller Stream 2



Stage Sequence Diagram for Controller Stream 2



Intergreen Matrix for Controller Stream 3

		To			
		A	B	C	D
From	A	-	5	5	5
	B	5	-	5	5
	C	5	5	-	5
	D	5	5	5	-

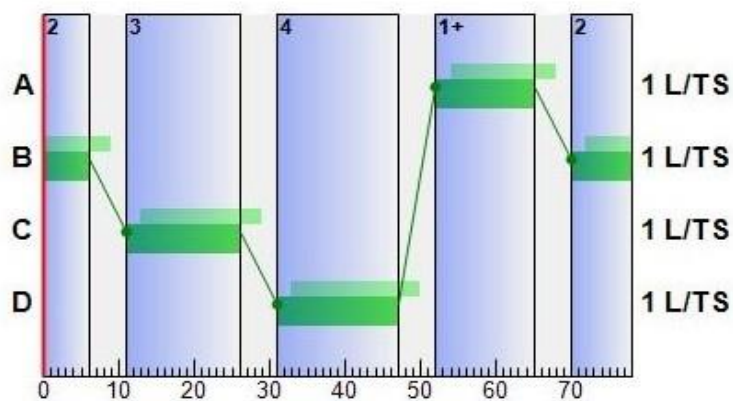
Interstage Matrix for Controller Stream 3

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

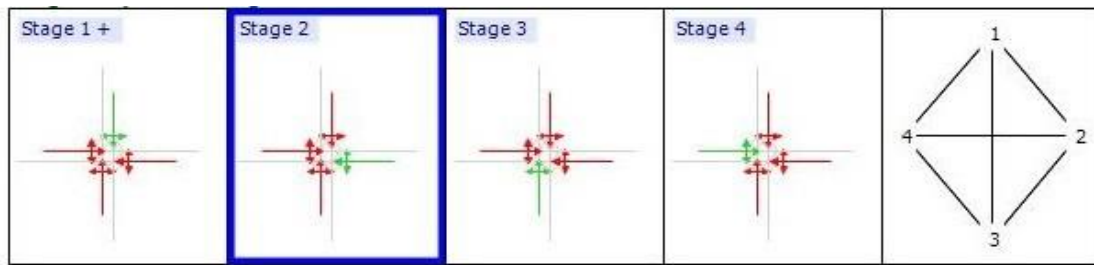
Banned Stage transitions for Controller Stream 3

		To			
		1	2	3	4
From	1	-			
	2		-		
	3			-	
	4				-

Phase Timings Diagram for Controller Stream 3



Stage Sequence Diagram for Controller Stream 3



Intergreen Matrix for Controller Stream 4

		To			
		A	B	C	D
From	A	-	5	5	5
	B	5	-	5	5
	C	5	5	-	5
	D	5	5	5	-

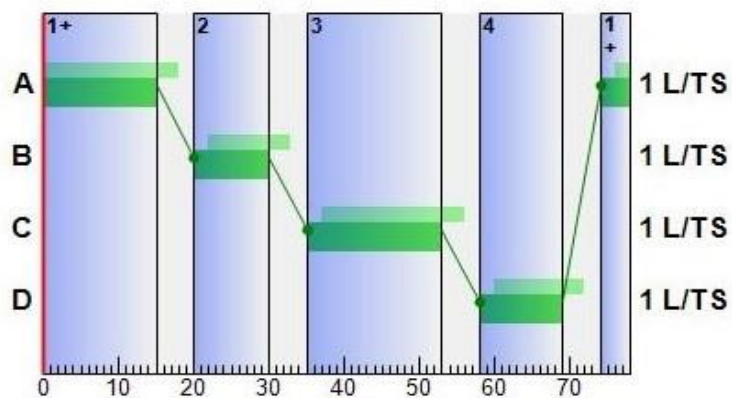
Interstage Matrix for Controller Stream 4

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

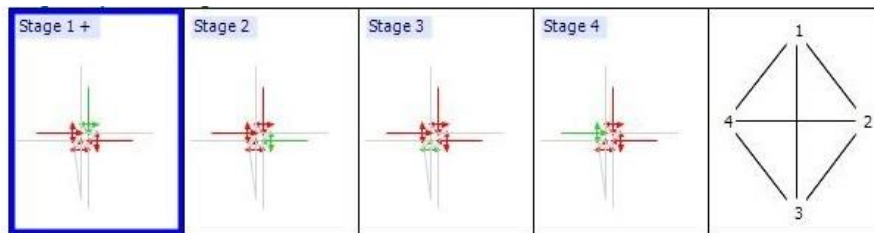
Banned Stage transitions for Controller Stream 4

		To			
		1	2	3	4
From	1	-			
	2		-		
	3			-	
	4				-

Phase Timings Diagram for Controller Stream 4



Stage Sequence Diagram for Controller Stream 4



TRANSYT 12 Tables

Resultant Stages

Controller Stream	Stage	Is Base Stage	Library Stage ID	Phases In This Stage
1	1	✓	1	A
1	2	✓	2	B
1	3	✓	3	C
2	1	✓	1	A
2	2	✓	2	B
2	3	✓	3	C
2	4	✓	4	D
3	1	✓	1	A
3	2	✓	2	B
3	3	✓	3	C
3	4	✓	4	D
4	1	✓	1	A
4	2	✓	2	B
4	3	✓	3	C
4	4	✓	4	D

Signals

Controller Stream	Stage	Is Base Stage	Library Stage ID	Phases In This Stage	TRANSYT Stage Start (s)	TRANSYT Preceding Interstage (s)	TRANSYT Stage Minimum (s)
1	1	✓	1	A	48	5	12
1	2	✓	2	B	3	5	12
1	3	✓	3	C	23	5	12
2	1	✓	1	A	41	5	12
2	2	✓	2	B	66	5	12
2	3	✓	3	C	4	5	12
2	4	✓	4	D	25	5	12
3	1	✓	1	A	47	5	12
3	2	✓	2	B	65	5	12
3	3	✓	3	C	6	5	12
3	4	✓	4	D	26	5	12
4	1	✓	1	A	69	5	12
4	2	✓	2	B	15	5	12
4	3	✓	3	C	30	5	12
4	4	✓	4	D	53	5	12

Resultant Phase Green Periods

Controller Stream	Phase	Green Period	TRANSYT Starting Stage (s)	TRANSYT Ending Stage (s)	TRANSYT Start Lag (s)	TRANSYT End Lag (s)
1	A	1	1	2	5	0
1	B	1	2	3	5	0

1	C	1	3	1	5	0
2	A	1	1	2	5	0
2	B	1	2	3	5	0
2	C	1	3	4	5	0
2	D	1	4	1	5	0
3	A	1	1	2	5	0
3	B	1	2	3	5	0
3	C	1	3	4	5	0
3	D	1	4	1	5	0
4	A	1	1	2	5	0
4	B	1	2	3	5	0
4	C	1	3	4	5	0
4	D	1	4	1	5	0

Stage Timings (TRANSYT 12 timings)

78s cycle time; 78 steps

Controller Stream	Number of Stages	Stage 1	Stage 2	Stage 3	Stage 4
1	3	48	3	23	
2	4	41	66	4	25
3	4	47	65	6	26
4	4	69	15	30	53

Link Green Times

Link	Traffic Node	Controller Stream	Phase	Amber	Green Period 1			Green Period 2			Green Period 3			Green Period 4		
					Start	End	Duration	Start	End	Duration	Start	End	Duration	Start	End	Duration
1	1	1	A	0	53	3	28									
2	1	1	B	0	8	23	15									
3	1	1	C	0	28	48	20									
6	2	2	A	0	46	66	20									
7	2	2	B	0	71	4	11									
8	2	2	C	0	9	25	16									
9	2	2	D	0	30	41	11									
11	3	3	A	0	52	65	13									
13	3	3	B	0	70	6	14									
14	3	3	C	0	11	26	15									
15	3	3	D	0	31	47	16									
17	4	4	A	0	74	15	19									
19	4	4	B	0	20	30	10									
20	4	4	C	0	35	53	18									
21	4	4	D	0	58	69	11									

Final Prediction Table

Link Results

Link	Name	Major Link	Traffic Node	Controller Stream	Phase	Calculated Flow Entering LTS (PCU/hr)	Calculated Sat Flow (PCU/hr)	Actual Green (s per cycle)	Degree Of Saturation (%)	Practical Reserve Capacity (%)	Journey Time Per PCU (s)	Mean Delay Per PCU (s)	Mean Stops Per PCU (%)	Mean Max Queue (PCU)	Delay Weighting (%)	Stop Weighting (%)
1	(untitled)	N/A	1	1	A	750	2808	28,00	72	25	37,35	25,35	88,18	14,66	100	100
2	(untitled)	N/A	1	1	B	426	3118	15,00	67	35	46,09	34,09	96,41	9,06	100	100
3	(untitled)	N/A	1	1	C	505	2696	20,00	70	29	83,85	35,85	91,99	10,29	100	100

4	(untitled)	N/A	1	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
5	(untitled)	N/A	1	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
6	(untitled)	N/A	2	2	A	667	2885	20,00	86	5	80,04	32,04	103,60	15,72	100	100
7	(untitled)	N/A	2	2	B	256	1939	11,00	86	5	76,00	64,00	131,70	7,67	100	100
8	(untitled)	N/A	2	2	C	554	2945	16,00	86	4	97,91	42,35	115,96	14,23	100	100
9	(untitled)	N/A	2	2	D	194	1502	11,00	84	7	79,57	67,57	135,27	5,95	100	100
10	(untitled)	N/A	2	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
11	(untitled)	N/A	3	3	A	467	2942	13,00	88	2	107,84	52,28	125,00	12,98	100	100
12	(untitled)	N/A	2	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
13	(untitled)	N/A	3	3	B	457	2831	14,00	84	7	58,55	46,55	113,50	11,58	100	100
14	(untitled)	N/A	3	3	C	519	2966	15,00	85	6	88,96	34,96	112,83	13,14	100	100
15	(untitled)	N/A	3	3	D	543	2855	16,00	87	3	59,63	47,63	116,06	14,05	100	100
16	(untitled)	N/A	3	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
17	(untitled)	N/A	4	4	A	444	2874	19,00	60	49	87,38	33,38	89,77	8,79	100	100
18	(untitled)	N/A	3	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
19	(untitled)	N/A	4	4	B	250	2801	10,00	63	42	51,34	39,34	101,68	5,61	100	100
20	(untitled)	N/A	4	4	C	463	2940	18,00	65	39	60,49	48,49	105,75	10,62	100	100
21	(untitled)	N/A	4	4	D	278	2933	11,00	62	46	49,17	37,17	98,73	6,05	100	100
22	(untitled)	N/A	4	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
23	(untitled)	N/A	4	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100
24	(untitled)	N/A	4	N/A	N/A	500	1800	78,00	28	224	12,38	0,38	0,00	0,05	100	100

Network Results

	Distance Travelled (PCU-km/hr)	Time Spent (PCU-hr/hr)	Mean Journey Speed (kph)	Uniform Delay (PCU-hr/hr)	Random Plus Oversat 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)
TOTAL	2186,57	149,23	14,65	52,18	24,17	1084,06	90,34	0,00	1174,40
BUSES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRAMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER (NORMAL)	2186,57	149,23	14,65	52,18	24,17	1084,06	90,34	0,00	1174,40

- B = at least one source for this link carries buses
- T = at least one source for this link carries trams
- P = this link is a pedestrian link
- < = adjusted flow warning (upstream links are over-saturated)
- ! = DOS threshold exceeded
- f = average saturation flow for flared link
- * = 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 excess queue is greater than 0
- P.I. = PERFORMANCE INDEX

Data Entry: Traffic Stream

Results: Traffic Stream

Results: Link

Results

					Calculated Flow	Calculated	Actual	Wasted Time		Calculated	Degree Of	Practical	Mean	Max End Of	Mean Delay	Journey
--	--	--	--	--	-----------------	------------	--------	-------------	--	------------	-----------	-----------	------	------------	------------	---------

Time Segment	Link	Name	Phase	Phase2	Entering LTS (PCU/hr)	Sat Flow (PCU/hr)	Green (s (per cycle))	Blocking Back (s (per cycle))	Capacity (PCU/hr)	Saturation (%)	Reserve Capacity (%)	Max Queue (PCU)	Red Queue (PCU)	Per PCU (s)	Time Per PCU (s)
08:00-09:00	1	(untitled)	A	N/A	750	2808	28,00	0,00	1044	72	25	14,66	11,11	25,35	37,35
08:00-09:00	2	(untitled)	B	N/A	426	3118	15,00	0,00	640	67	35	9,06	7,99	34,09	46,09
08:00-09:00	3	(untitled)	C	N/A	505	2696	20,00	0,00	726	70	29	10,29	9,11	35,85	83,85
08:00-09:00	4	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	5	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	6	(untitled)	A	N/A	667	2885	20,00	0,00	777	86	5	15,72	10,74	32,04	80,04
08:00-09:00	7	(untitled)	B	N/A	256	1939	11,00	0,00	298	86	5	7,67	6,96	64,00	76,00
08:00-09:00	8	(untitled)	C	N/A	554	2945	16,00	0,00	642	86	4	14,23	11,88	42,35	97,91
08:00-09:00	9	(untitled)	D	N/A	194	1502	11,00	0,00	231	84	7	5,95	5,47	67,57	79,57
08:00-09:00	10	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	11	(untitled)	A	N/A	467	2942	13,00	0,00	528	88	2	12,98	11,68	52,28	107,84
08:00-09:00	12	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	13	(untitled)	B	N/A	457	2831	14,00	0,00	544	84	7	11,58	10,06	46,55	58,55
08:00-09:00	14	(untitled)	C	N/A	519	2966	15,00	0,00	608	85	6	13,14	10,08	34,96	88,96
08:00-09:00	15	(untitled)	D	N/A	543	2855	16,00	0,00	622	87	3	14,05	11,94	47,63	59,63
08:00-09:00	16	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	17	(untitled)	A	N/A	444	2874	19,00	0,00	737	60	49	8,79	7,91	33,38	87,38
08:00-09:00	18	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	19	(untitled)	B	N/A	250	2801	10,00	0,00	395	63	42	5,61	5,19	39,34	51,34
08:00-09:00	20	(untitled)	C	N/A	463	2940	18,00	0,00	716	65	39	10,62	10,62	48,49	60,49
08:00-09:00	21	(untitled)	D	N/A	278	2933	11,00	0,00	451	62	46	6,05	5,58	37,17	49,17
08:00-09:00	22	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	23	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38
08:00-09:00	24	(untitled)	N/A	N/A	500	1800	78,00	0,00	1800	28	224	0,05	N/A	0,38	12,38

Data Entry: Signal Timings

Green Period

Controller Stream	Phase	Green Period	Start Time (s)	End Time (s)	Duration (s)	Minimum Green (s)	Relative Start Displacement (s)	Relative End Displacement (s)
1	A	1	53	3	28	7	0	0
1	B	1	8	23	15	7	0	0
1	C	1	28	18	28	7	0	0

1	C	1	28	48	20	7	0	0
2	A	1	46	66	20	7	0	0
2	B	1	71	4	11	7	0	0
2	C	1	9	25	16	7	0	0
2	D	1	30	41	11	7	0	0
3	A	1	52	65	13	7	0	0
3	B	1	70	6	14	7	0	0
3	C	1	11	26	15	7	0	0
3	D	1	31	47	16	7	0	0
4	A	1	74	15	19	7	0	0
4	B	1	20	30	10	7	0	0
4	C	1	35	53	18	7	0	0
4	D	1	58	69	11	7	0	0

Link Results

Link Results: Summary

Time Segment	Link	Major Link	Calculated Flow Entering LTS (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 (%)	Actual Green (s per cycle)	Effective Green (s per cycle)	Cost Of Penalties (£ per hr)	Performance Index (£ per hr)
08:00-09:00	1	N/A	750	0		2808	1044	72		25	28,00	29,00	0,00	83,29
08:00-09:00	2	N/A	426	0		3118	640	67		35	15,00	16,00	0,00	62,43
08:00-09:00	3	N/A	505	0		2696	726	70		29	20,00	21,00	0,00	77,23
08:00-09:00	4	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	5	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	6	N/A	667	0		2885	777	86		5	20,00	21,00	0,00	92,95
08:00-09:00	7	N/A	256	0		1939	298	86		5	11,00	12,00	0,00	68,85
08:00-09:00	8	N/A	554	0		2945	642	86		4	16,00	17,00	0,00	100,60
08:00-09:00	9	N/A	194	0		1502	231	84		7	11,00	12,00	0,00	55,00
08:00-09:00	10	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	11	N/A	467	0		2942	528	88		2	13,00	14,00	0,00	103,63
08:00-09:00	12	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	13	N/A	457	0		2831	544	84		7	14,00	15,00	0,00	90,42
08:00-09:00	14	N/A	519	0		2966	608	85		6	15,00	16,00	0,00	78,91
08:00-09:00	15	N/A	543	0		2855	622	87		3	16,00	17,00	0,00	109,91
08:00-09:00	16	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	17	N/A	444	0		2874	737	60		49	19,00	20,00	0,00	63,45
08:00-09:00	18	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	19	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76

09:00	19	N/A	250	0		2601	395	63		42	10,00	11,00	0,00	41,96
08:00-09:00	20	N/A	463	0		2940	716	65		39	18,00	19,00	0,00	94,70
08:00-09:00	21	N/A	278	0		2933	451	62		46	11,00	12,00	0,00	44,20
08:00-09:00	22	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	23	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76
08:00-09:00	24	N/A	500	0		1800	1800	28		224	78,00	78,00	0,00	0,76

Link Results: Stops And Delays

Time Segment	Link	Major Link	Mean Cruise Time Per PCU (s)	Signalled LoS	Mean Delay Per PCU (s)	Uniform Delay (PCU-hr/hr)	Weighted Cost Of Delay (£ per hr)	Mean Stops Per PCU (%)	Uniform Stops (Stops per hr)	Random Stops (Stops per hr)	Weighted Cost Of Stops (£ per hr)
08:00-09:00	1	N/A	12,00	C	25,35	4,38	75,00	88,18	620,08	41,25	8,29
08:00-09:00	2	N/A	12,00	C	34,09	3,38	57,28	96,41	380,94	29,75	5,15
08:00-09:00	3	N/A	48,00	D	35,85	4,24	71,41	91,99	428,99	35,59	5,83
08:00-09:00	4	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	5	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	6	N/A	48,00	C	32,04	3,47	84,29	103,60	582,14	108,89	8,66
08:00-09:00	7	N/A	12,00	E	64,00	2,29	64,62	131,70	242,66	94,49	4,23
08:00-09:00	8	N/A	55,56	D	42,35	3,99	92,54	115,96	531,75	110,68	8,06
08:00-09:00	9	N/A	12,00	E	67,57	1,73	51,71	135,27	183,44	78,97	3,29
08:00-09:00	10	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	11	N/A	55,56	D	52,28	3,78	96,31	125,00	455,03	128,73	7,32
08:00-09:00	12	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	13	N/A	12,00	D	46,55	3,85	83,92	113,50	428,50	90,21	6,50
08:00-09:00	14	N/A	54,00	C	34,96	2,73	71,57	112,83	484,17	101,42	7,34
08:00-09:00	15	N/A	12,00	D	47,63	4,44	102,01	116,06	510,82	119,39	7,90
08:00-09:00	16	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	17	N/A	54,00	C	33,38	3,66	58,46	89,77	377,88	20,68	5,00
08:00-09:00	18	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	19	N/A	12,00	D	39,34	2,20	38,80	101,68	230,03	24,18	3,19
08:00-09:00	20	N/A	12,00	D	48,49	5,65	88,56	105,75	463,00	26,63	6,14
08:00-09:00	21	N/A	12,00	D	37,17	2,38	40,76	98,73	252,39	22,08	3,44
08:00-09:00	22	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
08:00-09:00	23	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00

08:00-09:00	24	N/A	12,00	N/A	0,38	0,00	0,76	0,00	0,00	0,00	0,00
-------------	----	-----	-------	-----	------	------	------	------	------	------	------

Link Results: Queues And Blocking

Time Segment	Link	Major Link	Mean Max Queue (PCU)	Max Queue Storage (PCU)	Average Link Excess Queue (PCU)	Average Limit Excess Queue (PCU)	Excess Queue Penalty (£ per hr)
08:00-09:00	1	N/A	14,66	26,40	0,00	0,00	0,00
08:00-09:00	2	N/A	9,06	29,31	0,00	0,00	0,00
08:00-09:00	3	N/A	10,29	101,38	0,00	0,00	0,00
08:00-09:00	4	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	5	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	6	N/A	15,72	108,48	0,00	0,00	0,00
08:00-09:00	7	N/A	7,67	18,23	0,00	0,00	0,00
08:00-09:00	8	N/A	14,23	128,18	0,00	0,00	0,00
08:00-09:00	9	N/A	5,95	14,12	0,00	0,00	0,00
08:00-09:00	10	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	11	N/A	12,98	128,05	0,00	0,00	0,00
08:00-09:00	12	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	13	N/A	11,58	26,61	0,00	0,00	0,00
08:00-09:00	14	N/A	13,14	125,47	0,00	0,00	0,00
08:00-09:00	15	N/A	14,05	26,84	0,00	0,00	0,00
08:00-09:00	16	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	17	N/A	8,79	121,58	0,00	0,00	0,00
08:00-09:00	18	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	19	N/A	5,61	26,33	0,00	0,00	0,00
08:00-09:00	20	N/A	10,62	27,64	0,00	0,00	0,00
08:00-09:00	21	N/A	6,05	27,57	0,00	0,00	0,00
08:00-09:00	22	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	23	N/A	0,05	16,92	0,00	0,00	0,00
08:00-09:00	24	N/A	0,05	16,92	0,00	0,00	0,00

Link Results: Journey Times

Time Segment	Link	Major Link	Distance Travelled (PCU-km/hr)	Time Spent (PCU-hr/hr)	Mean Journey Speed (kph)	Journey Time Per PCU (s)
08:00-09:00	1	N/A	75,00	7,78	9,64	37,35
08:00-09:00	2	N/A	42,60	5,45	7,81	46,09
08:00-09:00	3	N/A	202,00	11,76	17,17	83,85
08:00-09:00	4	N/A	50,00	1,72	29,07	12,38
08:00-09:00	5	N/A	50,00	1,72	29,07	12,38
08:00-09:00	6	N/A	266,80	14,83	17,99	80,04
08:00-09:00	7	N/A	25,60	5,40	4,74	76,00
08:00-09:00	8	N/A	256,50	15,07	17,02	97,91
08:00-09:00	9	N/A	19,40	4,29	4,52	79,57
08:00-09:00	10	N/A	50,00	1,72	29,07	12,38
08:00-09:00	11	N/A	216,22	13,99	15,46	107,84
08:00-09:00	12	N/A	50,00	1,72	29,07	12,38
08:00-09:00	13	N/A	45,70	7,43	6,15	58,55
08:00-09:00	14	N/A	233,55	12,83	18,21	88,96
08:00-09:00	15	N/A	54,30	8,99	6,04	59,63
08:00-09:00	16	N/A	50,00	1,72	29,07	12,38
08:00-09:00	17	N/A	199,80	10,78	18,54	87,38
08:00-09:00	18	N/A	50,00	1,72	29,07	12,38
08:00-09:00	19	N/A	25,00	3,57	7,01	51,34
08:00-09:00	20	N/A	46,30	7,78	5,95	60,49

08:00-09:00	21	N/A	27,80	3,80	7,32	49,17
08:00-09:00	22	N/A	50,00	1,72	29,07	12,38
08:00-09:00	23	N/A	50,00	1,72	29,07	12,38
08:00-09:00	24	N/A	50,00	1,72	29,07	12,38

Network Results

Run Summary

Time Segment	Modelling Start Time (HH:mm)	Cycle Time Used (s)	Total Network Delay (PCU-hr/hr)	Highest DOS (%)	LTSWith Highest DOS	Number Of Oversaturated LTS	Percentage Of Oversaturated LTS (%)	Network Within Capacity
08:00-09:00	08:00	78	76,34	88,44	11	0	0	✓

Network Results: Summary

Time Segment	Calculated Flow Entering LTS (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 (%)	Actual Green (s (per cycle))	Effective Green (s (per cycle))	Cost Of Penalties (£ per hr)	Performance Index (£ per hr)
08:00-09:00	11273	0		0	0	88		2	939,00	954,00	0,00	1174,40

Network Results: Stops And Delays

Time Segment	Mean Cruise Time Per PCU (s)	Signalled LoS	Mean Delay Per PCU (s)	Uniform Delay (PCU-hr/hr)	Weighted Cost Of Delay (£ per hr)	Mean Stops Per PCU (%)	Uniform Stops (Stops per hr)	Random Stops (Stops per hr)	Weighted Cost Of Stops (£ per hr)
08:00-09:00	23,28	D	24,38	52,18	1084,06	63,91	6171,83	1032,93	90,34

Network Results: Queues And Blocking

Time Segment	Mean Max Queue (PCU)	Max Queue Storage (PCU)	Average Link Excess Queue (PCU)	Average Limit Excess Queue (PCU)	Excess Queue Penalty (£ per hr)
08:00-09:00	0,00	1088,49	0,00	0,00	0,00

Network Results: Journey Times

Time Segment	Distance Travelled (PCU-km/hr)	Time Spent (PCU-hr/hr)	Mean Journey Speed (kph)	Journey Time Per PCU (s)
08:00-09:00	2186,57	149,23	14,65	47,66

Point to Point Journey Time

No Local Matrices present.

Offset Data