Junctions 8

ARCADY 8 - Roundabout Module

Version: 8.0.4.487 [15039,24/03/2014]

Filename: Monastery Roundabout rev 4 one hour period.arc8
Path: C:\Users\tanya.whyte\Documents
Report generation date: 12/11/2017 1:04:42 PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
	A1 - Scenario 1							
Arm 1	3.08	16.00	0.77	C	9.37	39.78	0.93	E
Arm 2	0.04	7.70	0.04	A	0.05	4.88	0.05	A
Arm 3	5.29	27.95	0.86	D	0.98	8.46	0.50	A
Arm 4	3.13	19.82	0.77	C	2.90	16.18	0.76	C

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D1 - Scenario 1, AM " model duration: 8:00 AM - 9:30 AM
"D2 - Scenario 1, PM" model duration: 5:00 PM - 6:30 PM

Run using Junctions 8.0.4.487 at 12/11/2017 1:04:39 PM

File summary

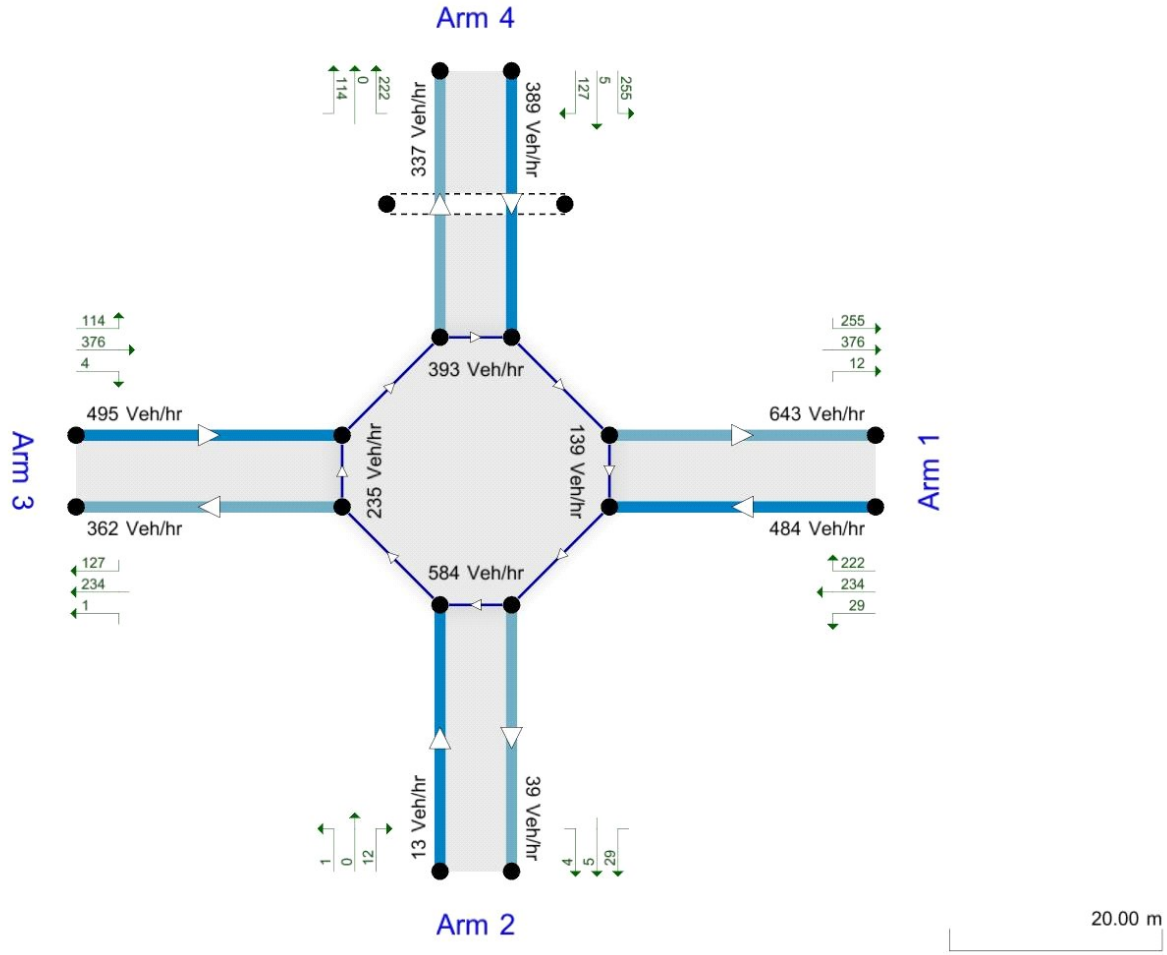
Title	(untitled)
Location	
Site Number	
Date	8/21/2017
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	tanya.whyte
Description	

Analysis Options

Vehicle Length (m)	Do Queue Variations	Calculate Residual Capacity	Residual Capacity Criteria Type	RFC Threshold	Average Delay Threshold (s)	Queue Threshold (PCU)
5.75			N/A	0.85	36.00	20.00

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	s	-Min	perMin



Showing modelled flow through junction (Veh/hr).
Time Segment: (08:00-08:15)
Showing Analysis Set "A1 "; Demand Set "D1 - Scenario 1, AM "

The junction diagram reflects the last run of ARCADY.

(Default Analysis Set) - Scenario 1, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set (s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relations
Scenario 1, AM	Scenario 1	AM		ONE HOUR	08:00	09:30	90	15				✓		

Junction Network

Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	Monastery Road	Roundabout	1,2,3,4				21.15	C

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Arm	Name	Description
1	1	L1019	
2	2	SIAC Access	
3	3	Monastery Road	
4	4	Woodford Close	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
1	0.00	99999.00		0.00
2	0.00	99999.00		0.00
3	0.00	99999.00		0.00
4	0.00	99999.00		0.00

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
1	3.50	4.90	6.00	10.00	36.00	73.00	
2	6.00	6.20	6.00	6.00	36.00	75.00	
3	3.50	4.70	6.00	10.00	36.00	74.00	
4	3.50	4.70	6.00	10.00	36.00	71.00	

Pedestrian Crossings

Arm	Crossing Type
1	None
2	None
3	None
4	Pelican