

ARCADY 6				
GUI Version: 6.2 AF Analysis Program: Release 5.0 (JANUARY 2009) (c) Copyright TRL Limited, 2004 Adapted from ARCADY/3 which is Crown Copyright by permission of the controller of HMSO				
For sales and distribution information, program advice and maintenance, contact:				
The user of this computer program for the solution of an engineering problem is in no way relieved of their responsibility for the correctness of the solution.				

Run Information

Run with file:- I:\Projects\sprust 110601\Modelling\2011-07-21\2011 Weekday Observed+Committed+Proposals.vai

At: 14:30:48 on Tuesday, July 19, 2011

Mode: Drive On The Left

Units: Metric

Arm Labelling

Arm	Full Arm Names
Arm A	Site Access (Golfers Lane)
Arm B	New Road (east)
Arm C	Mill Lane
Arm D	New Road (west)

Flow Scaling Factor

Arm	Flow Scaling Factor (%)
Arm A	100
Arm B	100
Arm C	100
Arm D	100

File Properties

Run Title	Rustington Golf and Leisure Club -2011 Observed+Committed+Proposal- Weekday Peak
Location	
Date	06/07/2011
Client	
Enumerator	JessicaShannon [TECHNICIAN-2]
Job Number	110601
Status	
Description	

Geometric Data

Data Item	Arm A	Arm B	Arm C	Arm D
Approach Road Half-Width (m)	3.50	8.00 *	7.50	7.50
Entry Width (m)	5.00	8.00	10.00	11.50
Flare Length (m)	3.00	68.00	14.00	32.00

Entry Radius (m)	10.00	20.00	25.00	35.00
Inscribed Circle Diameter (m)	56.00	56.00	56.00	56.00
Entry Angle (degrees)	28.00	26.00	22.00	26.50
Slope	0.475	0.719	0.798	0.866
Intercept (PCU/Min)	19.725	40.961	47.633	54.035

Demand Data

Demand Profiles are Synthesised using **DIRECT** Data

Period of interest (for Queue and Delay calculations): 17:00 to 18:00

Length of Time Period: 60 min

Length of Time Segment: 15 min

Direct Data for Demand Set: Rustington Golf and Leisure Club - 2011 Observed+Committed+Proposal - Weekday Pe

Time Period	Arm	Demand Data (Veh/Min)
Segment : 1 - 17:00 to 17:15	A	2.33
	B	30.80
	C	11.48
	D	19.78
Segment : 2 - 17:15 to 17:30	A	2.33
	B	34.47
	C	13.22
	D	19.12
Segment : 3 - 17:30 to 17:45	A	1.87
	B	31.13
	C	11.68
	D	16.38
Segment : 4 - 17:45 to 18:00	A	2.73
	B	33.00
	C	11.62
	D	17.98

Turning Proportions for Demand Set: Rustington Golf and Leisure Club - 2011 Observed+Committed+Proposal - Weekday Pe

Turning proportions vary over time and entry and calculated from turning count data (shaded)

Time Period	From/To	Arm A	Arm B	Arm C	Arm D
Segment : 1 - 17:00 to 17:15	Arm A	0.000	0.611	0.167	0.222
		0.0	22.0	6.0	8.0
	Arm B	0.032	0.039	0.404	0.525
		15.0	18.0	187.0	243.0
	Arm C	0.041	0.890	0.000	0.070
		7.0	153.0	0.0	12.0
	Arm D	0.044	0.906	0.051	0.000
		13.0	269.0	15.0	0.0
Segment : 2 - 17:15 to 17:30	Arm A	0.000	0.583	0.139	0.278
		0.0	21.0	5.0	10.0
	Arm B	0.050	0.035	0.376	0.539
		26.0	18.0	195.0	279.0
	Arm C	0.066	0.869	0.000	0.066

	Arm D	13.0	172.0	0.0	13.0
		0.066	0.868	0.066	0.000
		19.0	249.0	19.0	0.0
Segment : 3 - 17:30 to 17:45	Arm A	0.000	0.552	0.241	0.207
		0.0	16.0	7.0	6.0
	Arm B	0.028	0.038	0.397	0.536
		13.0	18.0	186.0	251.0
	Arm C	0.057	0.891	0.000	0.051
		10.0	156.0	0.0	9.0
	Arm D	0.024	0.915	0.061	0.000
		6.0	225.0	15.0	0.0
Segment : 4 - 17:45 to 18:00	Arm A	0.000	0.548	0.190	0.262
		0.0	23.0	8.0	11.0
	Arm B	0.036	0.036	0.413	0.514
		18.0	18.0	205.0	255.0
	Arm C	0.046	0.885	0.000	0.069
		8.0	154.0	0.0	12.0
	Arm D	0.033	0.911	0.056	0.000
		9.0	246.0	15.0	0.0

Heavy Vehicle Percentages for Demand Set: Rustington Golf and Leisure Club - 2011
Observed+Committed+Proposal - Weekday Pe

Vary over entry

Time Period	From/To	Arm A	Arm B	Arm C	Arm D
17:00 to 17:15	Arm A	0.0	22.0	6.0	8.0
	Arm B	15.0	18.0	187.0	243.0
	Arm C	7.0	153.0	0.0	12.0
	Arm D	13.0	269.0	15.0	0.0

Queues and Delay:

Segment	Arm	Demand (Veh / Min)	Capacity (Veh / Min)	Demand / Capacity (RFC)	Ped Flow (Ped / Min)	Start Queue (Veh)	End Queue (Veh)	Delay (Veh.Min / Time Segment)	Geometric Delay (Veh.Min / Time Segment)	Arrival Delay (Min / Veh)
Segment : 1 - 17:00 to 17:15	A	2.33	5.17	0.451	-	0.0	0.8	10.7	-	0.340
	B	30.80	38.95	0.791	-	0.0	3.6	50.2	-	0.116
	C	11.48	32.01	0.359	-	0.0	0.6	8.2	-	0.049
	D	19.78	42.31	0.467	-	0.0	0.9	12.8	-	0.044
Segment : 2 - 17:15 to 17:30	A	2.33	5.04	0.463	-	0.8	0.8	12.3	-	0.368
	B	34.47	38.71	0.890	-	3.6	7.2	95.8	-	0.211
	C	13.22	29.42	0.449	-	0.6	0.8	11.9	-	0.062
	D	19.12	40.23	0.475	-	0.9	0.9	13.4	-	0.047
Segment : 3 - 17:30 to 17:45	A	1.87	6.42	0.291	-	0.8	0.4	6.7	-	0.222
	B	31.13	38.97	0.799	-	7.2	4.1	66.5	-	0.134
	C	11.68	31.56	0.370	-	0.8	0.6	9.0	-	0.050
	D	16.38	42.02	0.390	-	0.9	0.6	9.8	-	0.039
Segment : 4 - 17:45 to 18:00	A	2.73	5.83	0.468	-	0.4	0.8	11.8	-	0.316
	B	33.00	38.71	0.852	-	4.1	5.4	76.3	-	0.169
	C	11.62	30.97	0.375	-	0.6	0.6	8.9	-	0.052
	D	17.98	41.99	0.428	-	0.6	0.7	11.0	-	0.042

