

ARCADY 6				
GUI Version: 6.2 AF				
Analysis Program: Release 5.0 (JANUARY 2009)				
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Run Information

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

At: **16:34:08 on Friday, July 29, 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 - 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 - Weekday Peak

Time Period	Arm	Demand Data (Veh/Min)
Segment : 1 - 17:00 to 17:15	A	1.33
	B	28.07
	C	10.93
	D	19.07
Segment : 2 - 17:15 to 17:30	A	1.33
	B	31.73
	C	12.67
	D	18.40
Segment : 3 - 17:30 to 17:45	A	0.87
	B	28.40
	C	11.13
	D	15.67
Segment : 4 - 17:45 to 18:00	A	1.73
	B	30.27
	C	11.07
	D	17.27

Turning Proportions for Demand Set: Rustington Golf and Leisure Club - 2011 Observed - Weekday Peak

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	0.700	0.150	0.150
		0.0	14.0	3.0	3.0
	Arm B	0.019	0.000	0.428	0.553
		8.0	0.0	180.0	233.0
	Arm C	0.024	0.902	0.000	0.073
		4.0	148.0	0.0	12.0
	Arm D	0.035	0.913	0.052	0.000
		10.0	261.0	15.0	0.0
Segment : 2 - 17:15 to 17:30	Arm A	0.000	0.650	0.100	0.250
		0.0	13.0	2.0	5.0
	Arm B	0.040	0.000	0.395	0.565
		19.0	0.0	188.0	269.0
	Arm C	0.053	0.879	0.000	0.068
		10.0	167.0	0.0	13.0
	Arm D	0.058	0.873	0.069	0.000

		16.0	241.0	19.0	0.0
Segment : 3 - 17:30 to 17:45	Arm A	0.000	0.615	0.308	0.077
		0.0	8.0	4.0	1.0
		0.014	0.000	0.420	0.566
	Arm B	6.0	0.0	179.0	241.0
		0.042	0.904	0.000	0.054
	Arm C	7.0	151.0	0.0	9.0
		0.013	0.923	0.064	0.000
		3.0	217.0	15.0	0.0
Segment : 4 - 17:45 to 18:00	Arm A	0.000	0.577	0.192	0.231
		0.0	15.0	5.0	6.0
		0.024	0.000	0.436	0.540
	Arm B	11.0	0.0	198.0	245.0
		0.030	0.898	0.000	0.072
	Arm C	5.0	149.0	0.0	12.0
		0.023	0.919	0.058	0.000
		6.0	238.0	15.0	0.0

Heavy Vehicle Percentages for Demand Set: Rustington Golf and Leisure Club - 2011 Observed - Weekday Peak

Vary over entry

Time Period	From/To	Arm A	Arm B	Arm C	Arm D
17:00 to 17:15	Arm A	0.0	14.0	3.0	3.0
	Arm B	8.0	0.0	180.0	233.0
	Arm C	4.0	148.0	0.0	12.0
	Arm D	10.0	261.0	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	1.33	6.08	0.219	-	0.0	0.3	3.9	-	0.209
	B	28.07	39.24	0.715	-	0.0	2.5	34.9	-	0.087
	C	10.93	33.97	0.322	-	0.0	0.5	7.0	-	0.043
	D	19.07	44.13	0.432	-	0.0	0.8	11.1	-	0.040
Segment : 2 - 17:15 to 17:30	A	1.33	5.96	0.223	-	0.3	0.3	4.2	-	0.216
	B	31.73	39.01	0.813	-	2.5	4.2	58.2	-	0.133
	C	12.67	31.37	0.404	-	0.5	0.7	9.9	-	0.053
	D	18.40	42.04	0.438	-	0.8	0.8	11.6	-	0.042
Segment : 3 - 17:30 to 17:45	A	0.87	7.35	0.118	-	0.3	0.1	2.1	-	0.155
	B	28.40	39.27	0.723	-	4.2	2.7	42.0	-	0.094
	C	11.13	33.63	0.331	-	0.7	0.5	7.6	-	0.045
	D	15.67	43.88	0.357	-	0.8	0.6	8.5	-	0.035
Segment : 4 - 17:45 to 18:00	A	1.73	6.76	0.256	-	0.1	0.3	4.8	-	0.198
	B	30.27	39.01	0.776	-	2.7	3.4	48.4	-	0.113
	C	11.07	32.96	0.336	-	0.5	0.5	7.5	-	0.046
	D	17.27	43.83	0.394	-	0.6	0.6	9.6	-	0.038