

A R C A D Y 6

ASSESSMENT OF ROUNDABOUT CAPACITY AND DELAY

Analysis Program: Release 3.0 (JUNE 2005)

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Run with file:-
"C:\Esteban\PROYECTOS\2000s\2048_ESTUDIO GLORIETA ESTEPONA\2048_arcady\arcady\con_seg_y_tercer_carril_13a15.vai"
(drive-on-the-right) at 19:29:18 on Wednesday, 14 November 2007

FILE PROPERTIES

RUN TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15
LOCATION: ESTEPONA
DATE: 13/11/2007
CLIENT:
ENUMERATOR: econde [ORD-64]
JOB NUMBER: 2048
STATUS:
DESCRIPTION: Con carril segregado y tercer carril - Estudio de 13:00 h a 15:00 h.

INPUT DATA

ARM A - J.MARTIN
ARM B - GASOLINERA
ARM C - MAR
ARM D - J.CARLOS
ARM E - S.FERNANDO
ARM F - PUERTAS

GEOMETRIC DATA

ARM B IS JUNCTION EXIT ONLY

I	ARM	I	V (M)	I	E (M)	I	L (M)	I	R (M)	I	D (M)	I	PHI (DEG)	I	SLOPE	I	INTERCEPT (PCU/MIN)	I
I	ARM A	I	6.50	I	11.70	I	30.00	I	4.20	I	80.00	I	68.0	I	0.452	I	34.015	I
I	ARM C	I	6.50	I	7.37	I	5.50	I	12.00	I	80.00	I	48.0	I	0.486	I	32.344	I
I	ARM D	I	6.00	I	8.75	I	9.40	I	25.00	I	80.00	I	39.0	I	0.541	I	36.669	I
I	ARM E	I	4.25	I	9.50	I	23.80	I	25.00	I	80.00	I	40.0	I	0.535	I	36.082	I
I	ARM F	I	8.00	I	9.00	I	0.80	I	8.00	I	80.00	I	60.0	I	0.483	I	34.062	I

V = approach half-width L = effective flare length D = inscribed circle diameter
E = entry width R = entry radius PHI = entry angle

TRAFFIC DEMAND DATA

(Only sets included in the current run are shown)

I	ARM	I	FLOW SCALE(%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I
I	D	I	100	I
I	E	I	100	I
I	F	I	100	I

TIME PERIOD BEGINS 13.00 AND ENDS 15.00

LENGTH OF TIME PERIOD - 120 MINUTES.
LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE INPUT DIRECTLY.
DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

I I I I I	TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)												I I I I I
		FROM/TO	ARM A		ARM B		ARM C		ARM D		ARM E		ARM F	
I	13.00 - 13.15													
I		ARM A	0.013	0.000	0.120	0.502	0.309	0.056						
I			0.2	0.0	1.8	7.6	4.7	0.9						
I			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
I														
I		ARM C	0.330	0.014	0.003	0.076	0.220	0.358						
I			2.4	0.1	0.0	0.6	1.6	2.6						
I			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
I														
I		ARM D	0.345	0.061	0.054	0.014	0.122	0.405						
I			2.5	0.4	0.4	0.1	0.9	3.0						
I			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
I														
I		ARM E	0.380	0.082	0.082	0.058	0.000	0.398						
I			3.3	0.7	0.7	0.5	0.0	3.4						
I			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
I														
I		ARM F	0.047	0.040	0.257	0.423	0.229	0.004						
I			0.6	0.5	3.3	5.3	2.9	0.1						
I			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
I														

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

		TURNING PROPORTIONS												
		TURNING COUNTS												
		(PERCENTAGE OF H.V.S)												
	TIME	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F						
	13.15 - 13.30													
		ARM A	0.013	0.000	0.120	0.502	0.309	0.056						
			0.2	0.0	1.8	7.6	4.7	0.9						
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
		ARM C	0.330	0.014	0.003	0.076	0.220	0.358						
			2.4	0.1	0.0	0.6	1.6	2.6						
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
		ARM D	0.345	0.061	0.054	0.014	0.122	0.405						
			2.5	0.4	0.4	0.1	0.9	3.0						
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
		ARM E	0.380	0.082	0.082	0.058	0.000	0.398						
			3.3	0.7	0.7	0.5	0.0	3.4						
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)						
	ARM F	0.047	0.040	0.257	0.423	0.229	0.004							
		0.6	0.5	3.3	5.3	2.9	0.1							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
13.30 - 13.45	ARM A	0.013 0.2 (10.0)	0.000 0.0 (10.0)	0.120 1.8 (10.0)	0.502 7.6 (10.0)	0.309 4.7 (10.0)	0.056 0.9 (10.0)			
	ARM C	0.330 2.4 (10.0)	0.014 0.1 (10.0)	0.003 0.0 (10.0)	0.076 0.6 (10.0)	0.220 1.6 (10.0)	0.358 2.6 (10.0)			
	ARM D	0.345 2.5 (10.0)	0.061 0.4 (10.0)	0.054 0.4 (10.0)	0.014 0.1 (10.0)	0.122 0.9 (10.0)	0.405 3.0 (10.0)			
	ARM E	0.380 3.3 (10.0)	0.082 0.7 (10.0)	0.082 0.7 (10.0)	0.058 0.5 (10.0)	0.000 0.0 (10.0)	0.398 3.4 (10.0)			
	ARM F	0.047 0.6 (10.0)	0.040 0.5 (10.0)	0.257 3.3 (10.0)	0.423 5.3 (10.0)	0.229 2.9 (10.0)	0.004 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
13.45 - 14.00	ARM A	0.013 0.2 (10.0)	0.000 0.0 (10.0)	0.120 1.8 (10.0)	0.502 7.6 (10.0)	0.309 4.7 (10.0)	0.056 0.9 (10.0)			
	ARM C	0.330 2.4 (10.0)	0.014 0.1 (10.0)	0.003 0.0 (10.0)	0.076 0.6 (10.0)	0.220 1.6 (10.0)	0.358 2.6 (10.0)			
	ARM D	0.345 2.5 (10.0)	0.061 0.4 (10.0)	0.054 0.4 (10.0)	0.014 0.1 (10.0)	0.122 0.9 (10.0)	0.405 3.0 (10.0)			
	ARM E	0.380 3.3 (10.0)	0.082 0.7 (10.0)	0.082 0.7 (10.0)	0.058 0.5 (10.0)	0.000 0.0 (10.0)	0.398 3.4 (10.0)			
	ARM F	0.047 0.6 (10.0)	0.040 0.5 (10.0)	0.257 3.3 (10.0)	0.423 5.3 (10.0)	0.229 2.9 (10.0)	0.004 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.00 - 14.15	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.15 - 14.30	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.30 - 14.45	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPOÑA - CON CARRIL SEGREGADO Y TERCER CARRIL - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.45 - 15.00	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
13.00-13.15									
ARM A	15.05	24.17	0.623		0.0	1.6	23.0		0.11
ARM C	7.27	18.70	0.389		0.0	0.6	9.1		0.09
ARM D	7.40	25.07	0.295		0.0	0.4	6.1		0.06
ARM E	8.55	26.03	0.328		0.0	0.5	7.1		0.06
ARM F	12.65	25.49	0.496		0.0	1.0	14.1		0.08
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:		ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
ARM A		0.122	0.117	0.037	-1.346				
ARM C		0.158	0.127	0.058	-0.787				
ARM D		0.112	0.307	0.045	-0.976				
ARM E		0.148	0.231	0.037	-1.017				
ARM F		0.015	0.739	0.030	-1.181				

I	TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)	I
I	13.15-13.30										I
I	ARM A	15.05	24.13	0.624		1.6	1.6	24.5		0.11	I
I	ARM C	7.27	18.63	0.390		0.6	0.6	9.5		0.09	I
I	ARM D	7.40	25.02	0.296		0.4	0.4	6.3		0.06	I
I	ARM E	8.55	26.00	0.329		0.5	0.5	7.3		0.06	I
I	ARM F	12.65	25.47	0.497		1.0	1.0	14.7		0.08	I
I											I
I			EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:			I
I			MARGINAL	ENTRY	FLARE	INSCRIBED		ENTRY			I
I			CHANGE:	WIDTH	LENGTH	CIRC DIAM		ANGLE			I
I				(.1M)	(M)	(M)		(10 DEGS)			I
I			ARM A	0.122	0.117	0.037		-1.344			I
I			ARM C	0.158	0.127	0.059		-0.784			I
I			ARM D	0.112	0.307	0.045		-0.974			I
I			ARM E	0.148	0.231	0.037		-1.016			I
I			ARM F	0.015	0.739	0.030		-1.180			I

I	TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)	I
I	13.30-13.45										I
I	ARM A	15.05	24.13	0.624		1.6	1.6	24.6		0.11	I
I	ARM C	7.27	18.63	0.390		0.6	0.6	9.6		0.09	I
I	ARM D	7.40	25.02	0.296		0.4	0.4	6.3		0.06	I
I	ARM E	8.55	26.00	0.329		0.5	0.5	7.3		0.06	I
I	ARM F	12.65	25.47	0.497		1.0	1.0	14.7		0.08	I
I											I
I			EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:			I
I			MARGINAL	ENTRY	FLARE	INSCRIBED		ENTRY			I
I			CHANGE:	WIDTH	LENGTH	CIRC DIAM		ANGLE			I
I				(.1M)	(M)	(M)		(10 DEGS)			I
I			ARM A	0.122	0.117	0.037		-1.344			I
I			ARM C	0.158	0.127	0.059		-0.784			I
I			ARM D	0.112	0.307	0.045		-0.974			I
I			ARM E	0.148	0.231	0.037		-1.016			I
I			ARM F	0.015	0.739	0.030		-1.180			I

I	TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)	I
I	13.45-14.00										I
I	ARM A	15.05	24.13	0.624		1.6	1.6	24.7		0.11	I
I	ARM C	7.27	18.63	0.390		0.6	0.6	9.6		0.09	I
I	ARM D	7.40	25.02	0.296		0.4	0.4	6.3		0.06	I
I	ARM E	8.55	26.00	0.329		0.5	0.5	7.3		0.06	I
I	ARM F	12.65	25.47	0.497		1.0	1.0	14.8		0.08	I
I											I
I			EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:			I
I			MARGINAL	ENTRY	FLARE	INSCRIBED		ENTRY			I
I			CHANGE:	WIDTH	LENGTH	CIRC DIAM		ANGLE			I
I				(.1M)	(M)	(M)		(10 DEGS)			I
I			ARM A	0.122	0.117	0.037		-1.344			I
I			ARM C	0.158	0.127	0.059		-0.784			I
I			ARM D	0.112	0.307	0.045		-0.974			I
I			ARM E	0.148	0.231	0.037		-1.016			I
I			ARM F	0.015	0.739	0.030		-1.180			I

I	TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)	I
I	14.00-14.15										I
I	ARM A	15.40	24.21	0.636		1.6	1.7	25.5		0.11	I
I	ARM C	5.90	18.75	0.315		0.6	0.5	7.1		0.08	I
I	ARM D	7.40	26.24	0.282		0.4	0.4	6.0		0.05	I
I	ARM E	7.35	26.91	0.273		0.5	0.4	5.7		0.05	I
I	ARM F	12.70	26.44	0.480		1.0	0.9	14.1		0.07	I
I											I
I			EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:			I
I			MARGINAL	ENTRY	FLARE	INSCRIBED		ENTRY			I
I			CHANGE:	WIDTH	LENGTH	CIRC DIAM		ANGLE			I
I				(.1M)	(M)	(M)		(10 DEGS)			I
I			ARM A	0.122	0.118	0.037		-1.348			I
I			ARM C	0.159	0.127	0.058		-0.789			I
I			ARM D	0.115	0.315	0.039		-1.022			I
I			ARM E	0.151	0.235	0.032		-1.052			I
I			ARM F	0.015	0.755	0.025		-1.225			I

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.15-14.30									
ARM A	15.40	24.21	0.636		1.7	1.7	25.9		0.11
ARM C	5.90	18.75	0.315		0.5	0.5	6.9		0.08
ARM D	7.40	26.25	0.282		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.7		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.122	0.118	0.037	-1.348				
	ARM C	0.159	0.127	0.058	-0.789				
	ARM D	0.115	0.315	0.039	-1.022				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.30-14.45									
ARM A	15.40	24.21	0.636		1.7	1.7	26.0		0.11
ARM C	5.90	18.75	0.315		0.5	0.5	6.9		0.08
ARM D	7.40	26.25	0.282		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.6		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.122	0.118	0.037	-1.348				
	ARM C	0.159	0.127	0.058	-0.789				
	ARM D	0.115	0.315	0.039	-1.022				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.45-15.00									
ARM A	15.40	24.21	0.636		1.7	1.7	26.1		0.11
ARM C	5.90	18.75	0.315		0.5	0.5	6.9		0.08
ARM D	7.40	26.25	0.282		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.6		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.122	0.118	0.037	-1.348				
	ARM C	0.159	0.127	0.058	-0.789				
	ARM D	0.115	0.315	0.039	-1.022				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

QUEUE AT ARM A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
13.15	1.6 **
13.30	1.6 **
13.45	1.6 **
14.00	1.6 **
14.15	1.7 **
14.30	1.7 **
14.45	1.7 **
15.00	1.7 **

QUEUE AT ARM C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.6	*
13.30	0.6	*
13.45	0.6	*
14.00	0.6	*
14.15	0.5	
14.30	0.5	
14.45	0.5	
15.00	0.5	

QUEUE AT ARM D

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.4	
13.30	0.4	
13.45	0.4	
14.00	0.4	
14.15	0.4	
14.30	0.4	
14.45	0.4	
15.00	0.4	

QUEUE AT ARM E

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.5	
13.30	0.5	
13.45	0.5	
14.00	0.5	
14.15	0.4	
14.30	0.4	
14.45	0.4	
15.00	0.4	

QUEUE AT ARM F

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	1.0	*
13.30	1.0	*
13.45	1.0	*
14.00	1.0	*
14.15	0.9	*
14.30	0.9	*
14.45	0.9	*
15.00	0.9	*

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	ARM	I	TOTAL	I	DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I		I		I		I	* DELAY *	I	* DELAY *	I
I		I	(VEH)	I	(VEH/H)	I	(MIN)	I	(MIN)	I
I		I		I		I	(MIN/VEH)	I	(MIN/VEH)	I
I	A	I	1827.0	I	913.5	I	200.4	I	0.11	I
I	C	I	790.2	I	395.1	I	65.6	I	0.08	I
I	D	I	888.0	I	444.0	I	48.6	I	0.05	I
I	E	I	954.0	I	477.0	I	51.8	I	0.05	I
I	F	I	1521.0	I	760.5	I	114.2	I	0.08	I
I	ALL	I	5980.2	I	2990.1	I	480.5	I	0.08	I

* DELAY IS THAT OCCURRING ONLY WITHIN THE TIME PERIOD.
* INCLUSIVE DELAY INCLUDES DELAY SUFFERED BY VEHICLES WHICH ARE STILL QUEUEING AFTER THE END OF THE TIME PERIOD.
* THESE WILL ONLY BE SIGNIFICANTLY DIFFERENT IF THERE IS A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

END OF JOB

===== end of file =====

[Printed at 19:29:38 on 14/11/2007]