

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\sin_seg_13a15.vai"
(drive-on-the-right) at 19:25:40 on wednesday, 14 November 2007

FILE PROPERTIES

RUN TITLE: GLORIETA ESTEPONA - SIN CARRIL SEGREGADO - 13h a 15h
LOCATION: ESTEPONA
DATE: 13/11/2007
CLIENT:
ENUMERATOR: econde [ORD-64]
JOB NUMBER: 2048
STATUS:
DESCRIPTION: Sin carril segregado - 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	6.50	I	0.00	I	4.20	I	80.00	I	68.0	I	0.350	I	22.458	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 - SIN CARRIL SEGREGADO - 13 a 15

DEMAND SET TITLE: GLORIETA ESTEPONA - SIN CARRIL SEGREGADO - 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			
13.00 - 13.15	ARM A	0.013	0.041	0.115	0.481	0.296	0.054			
		0.2	0.6	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 - SIN CARRIL SEGREGADO - 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			
13.15 - 13.30	ARM A	0.013	0.041	0.115	0.481	0.296	0.054			
		0.2	0.6	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 - SIN CARRIL SEGREGADO - 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)	0.041 0.6 (10.0)	0.115 1.8 (10.0)	0.481 7.6 (10.0)	0.296 4.7 (10.0)	0.054 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 - SIN CARRIL SEGREGADO - 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)	0.041 0.6 (10.0)	0.115 1.8 (10.0)	0.481 7.6 (10.0)	0.296 4.7 (10.0)	0.054 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 - SIN CARRIL SEGREGADO - 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)	0.043 0.7 (10.0)	0.186 3.0 (10.0)	0.497 8.0 (10.0)	0.255 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 - SIN CARRIL SEGREGADO - 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)	0.043 0.7 (10.0)	0.186 3.0 (10.0)	0.497 8.0 (10.0)	0.255 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 - SIN CARRIL SEGREGADO - 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)	0.043 0.7 (10.0)	0.186 3.0 (10.0)	0.497 8.0 (10.0)	0.255 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 - SIN CARRIL SEGREGADO - 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)	0.043 0.7 (10.0)	0.186 3.0 (10.0)	0.497 8.0 (10.0)	0.255 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	15.70	15.18	1.034		0.0	19.1	176.9		0.88
ARM C	7.27	19.17	0.379		0.0	0.6	8.8		0.08
ARM D	7.40	25.30	0.293		0.0	0.4	6.0		0.06
ARM E	8.55	26.07	0.328		0.0	0.5	7.1		0.06
ARM F	12.65	25.50	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		0.295	0.000	0.029	-0.845				
ARM C		0.160	0.128	0.056	-0.807				
ARM D		0.113	0.309	0.044	-0.985				
ARM E		0.149	0.231	0.037	-1.019				
ARM F		0.015	0.739	0.030	-1.181				

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)
13.15-13.30									
ARM A	15.70	15.16	1.036		19.1	30.4	373.9		1.86
ARM C	7.27	18.94	0.384		0.6	0.6	9.2		0.09
ARM D	7.40	25.17	0.294		0.4	0.4	6.2		0.06
ARM E	8.55	26.02	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.48	0.497		1.0	1.0	14.7		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	0.295	0.000	0.029	-0.844				
	ARM C	0.159	0.128	0.057	-0.797				
	ARM D	0.113	0.308	0.044	-0.980				
	ARM E	0.148	0.231	0.037	-1.017				
	ARM F	0.015	0.739	0.030	-1.180				

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)
13.30-13.45									
ARM A	15.70	15.16	1.036		30.4	40.6	533.6		2.54
ARM C	7.27	18.91	0.385		0.6	0.6	9.3		0.09
ARM D	7.40	25.15	0.294		0.4	0.4	6.2		0.06
ARM E	8.55	26.02	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.48	0.497		1.0	1.0	14.7		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	0.295	0.000	0.029	-0.844				
	ARM C	0.159	0.127	0.057	-0.796				
	ARM D	0.112	0.308	0.045	-0.979				
	ARM E	0.148	0.231	0.037	-1.017				
	ARM F	0.015	0.739	0.030	-1.180				

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)
13.45-14.00									
ARM A	15.70	15.16	1.036		40.6	50.1	680.6		3.17
ARM C	7.27	18.89	0.385		0.6	0.6	9.3		0.09
ARM D	7.40	25.15	0.294		0.4	0.4	6.2		0.06
ARM E	8.55	26.02	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.48	0.497		1.0	1.0	14.7		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	0.295	0.000	0.029	-0.844				
	ARM C	0.159	0.127	0.057	-0.795				
	ARM D	0.112	0.308	0.045	-0.979				
	ARM E	0.148	0.231	0.037	-1.017				
	ARM F	0.015	0.739	0.030	-1.180				

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)
14.00-14.15									
ARM A	16.10	15.22	1.058		50.1	64.2	857.5		3.92
ARM C	5.90	19.01	0.310		0.6	0.5	6.9		0.08
ARM D	7.40	26.26	0.282		0.4	0.4	6.0		0.05
ARM E	7.35	26.85	0.274		0.5	0.4	5.8		0.05
ARM F	12.70	26.43	0.481		1.0	0.9	14.1		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	0.296	0.000	0.028	-0.847				
	ARM C	0.160	0.128	0.057	-0.800				
	ARM D	0.115	0.315	0.039	-1.022				
	ARM E	0.151	0.235	0.032	-1.049				
	ARM F	0.015	0.755	0.025	-1.224				

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	16.10	15.22	1.058		64.2	78.0	1066.2		4.82
ARM C	5.90	19.08	0.309		0.5	0.4	6.8		0.08
ARM D	7.40	26.36	0.281		0.4	0.4	5.9		0.05
ARM E	7.35	26.91	0.273		0.4	0.4	5.7		0.05
ARM F	12.70	26.44	0.480		0.9	0.9	14.0		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	0.296	0.000	0.028	-0.847				
	ARM C	0.160	0.128	0.056	-0.803				
	ARM D	0.115	0.316	0.038	-1.026				
	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	16.10	15.22	1.058		78.0	91.6	1271.9		5.71
ARM C	5.90	19.09	0.309		0.4	0.4	6.7		0.08
ARM D	7.40	26.38	0.281		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	0.296	0.000	0.028	-0.847				
	ARM C	0.160	0.128	0.056	-0.803				
	ARM D	0.115	0.316	0.038	-1.027				
	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	16.10	15.22	1.058		91.6	105.2	1476.0		6.59
ARM C	5.90	19.09	0.309		0.4	0.4	6.7		0.08
ARM D	7.40	26.38	0.280		0.4	0.4	5.9		0.05
ARM E	7.35	26.93	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	0.296	0.000	0.028	-0.847				
	ARM C	0.160	0.128	0.056	-0.803				
	ARM D	0.115	0.316	0.038	-1.027				
	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	19.1	*****
13.30	30.4	*****
13.45	40.6	*****
14.00	50.1	*****
14.15	64.2	*****
14.30	78.0	*****
14.45	91.6	*****
15.00	105.2	*****

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	0.4	
14.45	0.4	
15.00	0.4	

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	DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I		I			I	* DELAY *	I	* DELAY *	I
I		I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)
I		I			I			I	(MIN/VEH)
I	A	I	1908.0	I 954.0	I 6436.7	I 3.37	I 6800.2	I 3.56	I
I	C	I	790.2	I 395.1	I 63.8	I 0.08	I 63.8	I 0.08	I
I	D	I	888.0	I 444.0	I 48.3	I 0.05	I 48.3	I 0.05	I
I	E	I	954.0	I 477.0	I 51.8	I 0.05	I 51.8	I 0.05	I
I	F	I	1521.0	I 760.5	I 114.2	I 0.08	I 114.2	I 0.08	I
I	ALL	I	6061.2	I 3030.6	I 6714.7	I 1.11	I 7078.3	I 1.17	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 =====

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