

A R C A D Y 6

ASSESSMENT OF ROUNDABOUT CAPACITY AND DELAY

Analysis Program: Release 3.0 (JUNE 2005)

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program advice and maintenance, contact:

TRL Limited	Tel: +44 (0) 1344 770018
Crowthorne House	Fax: +44 (0) 1344 770864
Nine Mile Ride	Email: softwarebureau@trl.co.uk
Wokingham, Berks.	Web: www.trlsoftware.co.uk
RG40 3GA, UK	

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Run with file:-
"C:\Esteban\PROYECTOS\2000s\2048_ESTUDIO GLORIETA ESTEPONA\2048_arcady\arcady\con_seg_Y_tercer_carril_18a20.vai"
(drive-on-the-right) at 19:14:44 on Wednesday, 14 November 2007

FILE PROPERTIES

RUN TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20
LOCATION: ESTEPONA
DATE: 13/11/2007
CLIENT:
ENUMERATOR: econde [ORD-64]
JOB NUMBER: 2048
STATUS:
DESCRIPTION: Con carril segregado y tercer carril en J.Martin - Estudio de
18:00 h a 20:00 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)

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

TIME PERIOD BEGINS 18.00 AND ENDS 20.00

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 - 18 a 20

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

		TURNING PROPORTIONS									
		TURNING COUNTS									
		(PERCENTAGE OF H.V.S)									
TIME		FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.00 - 18.15	ARM A	0.000	0.000	0.173	0.422	0.368	0.036				
		0.0	0.0	2.8	6.9	6.1	0.6				
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)				
	ARM C	0.270	0.012	0.000	0.025	0.307	0.387				
		2.2	0.1	0.0	0.2	2.5	3.2				
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)				
	ARM D	0.312	0.021	0.021	0.021	0.163	0.461				
		2.2	0.2	0.2	0.2	1.1	3.3				
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)				
	ARM E	0.308	0.059	0.114	0.092	0.000	0.427				
		2.8	0.6	1.0	0.9	0.0	4.0				
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)				
ARM F	0.027	0.024	0.192	0.396	0.361	0.000					
	0.4	0.4	3.2	6.6	6.0	0.0					
	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)					

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

		TURNING PROPORTIONS									
		TURNING COUNTS									
		(PERCENTAGE OF H.V.S)									
TIME		FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.15 - 18.30		ARM A	0.000	0.000	0.173	0.422	0.368	0.036			
			0.0	0.0	2.8	6.9	6.1	0.6			
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
		ARM C	0.270	0.012	0.000	0.025	0.307	0.387			
			2.2	0.1	0.0	0.2	2.5	3.2			
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
		ARM D	0.312	0.021	0.021	0.021	0.163	0.461			
			2.2	0.2	0.2	0.2	1.1	3.3			
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
		ARM E	0.308	0.059	0.114	0.092	0.000	0.427			
			2.8	0.6	1.0	0.9	0.0	4.0			
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
		ARM F	0.027	0.024	0.192	0.396	0.361	0.000			
			0.4	0.4	3.2	6.6	6.0	0.0			
			(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.30 - 18.45	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.173 2.8 (10.0)	0.422 6.9 (10.0)	0.368 6.1 (10.0)	0.036 0.6 (10.0)			
	ARM C	0.270 2.2 (10.0)	0.012 0.1 (10.0)	0.000 0.0 (10.0)	0.025 0.2 (10.0)	0.307 2.5 (10.0)	0.387 3.2 (10.0)			
	ARM D	0.312 2.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.163 1.1 (10.0)	0.461 3.3 (10.0)			
	ARM E	0.308 2.8 (10.0)	0.059 0.6 (10.0)	0.114 1.0 (10.0)	0.092 0.9 (10.0)	0.000 0.0 (10.0)	0.427 4.0 (10.0)			
	ARM F	0.027 0.4 (10.0)	0.024 0.4 (10.0)	0.192 3.2 (10.0)	0.396 6.6 (10.0)	0.361 6.0 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.45 - 19.00	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.173 2.8 (10.0)	0.422 6.9 (10.0)	0.368 6.1 (10.0)	0.036 0.6 (10.0)			
	ARM C	0.270 2.2 (10.0)	0.012 0.1 (10.0)	0.000 0.0 (10.0)	0.025 0.2 (10.0)	0.307 2.5 (10.0)	0.387 3.2 (10.0)			
	ARM D	0.312 2.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.163 1.1 (10.0)	0.461 3.3 (10.0)			
	ARM E	0.308 2.8 (10.0)	0.059 0.6 (10.0)	0.114 1.0 (10.0)	0.092 0.9 (10.0)	0.000 0.0 (10.0)	0.427 4.0 (10.0)			
	ARM F	0.027 0.4 (10.0)	0.024 0.4 (10.0)	0.192 3.2 (10.0)	0.396 6.6 (10.0)	0.361 6.0 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.00 - 19.15	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.15 - 19.30	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.30 - 19.45	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPOÑA - CON CARRIL SEGREGADO Y TERCER CARRIL - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.45 - 20.00	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (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)
18.00-18.15									
ARM A	16.45	22.31	0.737		0.0	2.7	36.9		0.16
ARM C	8.15	16.30	0.500		0.0	1.0	14.0		0.12
ARM D	7.05	22.29	0.316		0.0	0.5	6.7		0.07
ARM E	9.25	26.45	0.350		0.0	0.5	7.8		0.06
ARM F	16.63	26.04	0.639		0.0	1.7	24.6		0.10
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		0.117	0.112	0.047	-1.242				
ARM C		0.149	0.119	0.071	-0.686				
ARM D		0.106	0.289	0.060	-0.868				
ARM E		0.150	0.233	0.035	-1.034				
ARM F		0.015	0.748	0.027	-1.206				

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)
18.15-18.30									
ARM A	16.45	22.25	0.739		2.7	2.8	41.1		0.17
ARM C	8.15	16.19	0.503		1.0	1.0	15.0		0.12
ARM D	7.05	22.20	0.318		0.5	0.5	6.9		0.07
ARM E	9.25	26.41	0.350		0.5	0.5	8.0		0.06
ARM F	16.63	26.01	0.639		1.7	1.8	26.2		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.116	0.112	0.047	-1.239				
ARM C		0.148	0.119	0.072	-0.681				
ARM D		0.106	0.289	0.061	-0.864				
ARM E		0.150	0.233	0.035	-1.032				
ARM F		0.015	0.748	0.027	-1.205				

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)
18.30-18.45									
ARM A	16.45	22.25	0.739		2.8	2.8	41.7		0.17
ARM C	8.15	16.18	0.504		1.0	1.0	15.1		0.12
ARM D	7.05	22.19	0.318		0.5	0.5	7.0		0.07
ARM E	9.25	26.41	0.350		0.5	0.5	8.1		0.06
ARM F	16.63	26.01	0.639		1.8	1.8	26.4		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.116	0.112	0.047	-1.239				
ARM C		0.148	0.119	0.072	-0.681				
ARM D		0.106	0.289	0.061	-0.864				
ARM E		0.150	0.233	0.035	-1.032				
ARM F		0.015	0.748	0.027	-1.205				

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)
18.45-19.00									
ARM A	16.45	22.25	0.739		2.8	2.8	42.0		0.17
ARM C	8.15	16.18	0.504		1.0	1.0	15.1		0.12
ARM D	7.05	22.19	0.318		0.5	0.5	7.0		0.07
ARM E	9.25	26.41	0.350		0.5	0.5	8.1		0.06
ARM F	16.63	26.01	0.639		1.8	1.8	26.4		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.116	0.112	0.047	-1.239				
ARM C		0.148	0.119	0.072	-0.681				
ARM D		0.106	0.289	0.061	-0.864				
ARM E		0.150	0.233	0.035	-1.032				
ARM F		0.015	0.748	0.027	-1.205				

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)
19.00-19.15									
ARM A	17.80	21.74	0.819		2.8	4.2	57.7		0.24
ARM C	5.78	15.53	0.372		1.0	0.6	9.3		0.10
ARM D	6.10	25.23	0.242		0.5	0.3	4.9		0.05
ARM E	7.60	28.09	0.271		0.5	0.4	5.7		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.0		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.115	0.110	0.050	-1.210				
ARM C		0.146	0.117	0.076	-0.653				
ARM D		0.113	0.308	0.044	-0.982				
ARM E		0.155	0.241	0.026	-1.098				
ARM F		0.015	0.757	0.024	-1.229				

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)
19.15-19.30									
ARM A	17.80	21.74	0.819		4.2	4.3	64.1		0.25
ARM C	5.78	15.50	0.373		0.6	0.6	9.0		0.10
ARM D	6.10	25.25	0.242		0.3	0.3	4.8		0.05
ARM E	7.60	28.11	0.270		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.3		0.11
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	0.115	0.110	0.050	-1.210				
	ARM C	0.146	0.117	0.076	-0.652				
	ARM D	0.113	0.309	0.044	-0.983				
	ARM E	0.155	0.241	0.026	-1.098				
	ARM F	0.015	0.757	0.024	-1.230				

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)
19.30-19.45									
ARM A	17.80	21.74	0.819		4.3	4.4	65.5		0.25
ARM C	5.78	15.50	0.373		0.6	0.6	9.0		0.10
ARM D	6.10	25.25	0.242		0.3	0.3	4.8		0.05
ARM E	7.60	28.11	0.270		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.4		0.11
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	0.115	0.110	0.050	-1.210				
	ARM C	0.146	0.117	0.076	-0.652				
	ARM D	0.113	0.309	0.044	-0.983				
	ARM E	0.155	0.241	0.026	-1.098				
	ARM F	0.015	0.757	0.024	-1.230				

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)
19.45-20.00									
ARM A	17.80	21.74	0.819		4.4	4.4	66.1		0.25
ARM C	5.78	15.49	0.373		0.6	0.6	8.9		0.10
ARM D	6.10	25.25	0.242		0.3	0.3	4.8		0.05
ARM E	7.60	28.11	0.270		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.5		0.11
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	0.115	0.110	0.050	-1.210				
	ARM C	0.146	0.117	0.076	-0.652				
	ARM D	0.113	0.309	0.044	-0.983				
	ARM E	0.155	0.241	0.026	-1.098				
	ARM F	0.015	0.757	0.024	-1.230				

QUEUE AT ARM A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
18.15	2.7 ***
18.30	2.8 ***
18.45	2.8 ***
19.00	2.8 ***
19.15	4.2 ****
19.30	4.3 ****
19.45	4.4 ****
20.00	4.4 ****

QUEUE AT ARM C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	1.0	*
18.30	1.0	*
18.45	1.0	*
19.00	1.0	*
19.15	0.6	*
19.30	0.6	*
19.45	0.6	*
20.00	0.6	*

QUEUE AT ARM D

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	0.5	
18.30	0.5	
18.45	0.5	
19.00	0.5	
19.15	0.3	
19.30	0.3	
19.45	0.3	
20.00	0.3	

QUEUE AT ARM E

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	0.5	*
18.30	0.5	*
18.45	0.5	*
19.00	0.5	*
19.15	0.4	
19.30	0.4	
19.45	0.4	
20.00	0.4	

QUEUE AT ARM F

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	1.7	**
18.30	1.8	**
18.45	1.8	**
19.00	1.8	**
19.15	1.8	**
19.30	1.8	**
19.45	1.8	**
20.00	1.8	**

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

ARM	TOTAL DEMAND	* QUEUEING * * DELAY *	* INCLUSIVE QUEUEING * * DELAY *
(VEH)	(VEH/H)	(MIN)	(MIN/VEH)
A	2055.0	415.1	0.20
C	835.8	95.4	0.11
D	789.0	46.8	0.06
E	1011.0	54.4	0.05
F	2029.8	212.9	0.10
ALL	6720.6	824.6	0.12

* 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

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