

OSCADY 5

Analysis Program: Release 2.0 (Oct 2003)

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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 with file:- "g:\2006\P062028\calcs\oscady\062028 Do Something AM 2008 Junction_1.voi" at 11:46:33 on Thursday, 29 M

FILE PROPERTIES

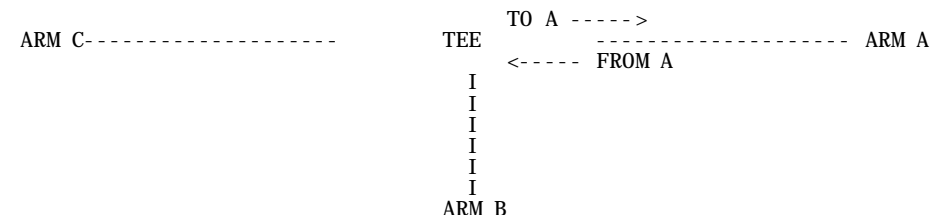
RUN TITLE: 062028 2008 Do Something Junction_1 AM 240806 epf
LOCATION: Leixlip
DATE: 17 August 2006
CLIENT: South Dublin County Council
ENUMERATOR: epf
JOB NUMBER: p062028
STATUS: TIA
DESCRIPTION: Signals in place.

**** ERROR AND WARNING MESSAGES ****

No errors or warnings in the data.

TRAFFIC SIGNAL JUNCTION ANALYSIS

INPUT DATA



ARM A IS R403 (South)
ARM B IS M4 off-ramp
ARM C IS R403 (North)

 GEOMETRIC DATA

I	DATA ITEM	I	ARM A	I	ARM B	I	ARM C	I
I	GRADIENT	I	0.0 %	I	0.0 %	I	0.0 %	I
I	NUMBER OF LANES	I	2	I	2	I	1	I
I	PERMITTED MOVEMENTS	I	S	I	L	I	S	I
I		I	S	I	R	I		I
I	TOTAL EXIT WIDTH FOR STRAIGHT-AHEAD VEHICLES FROM THIS ARM	I	N/A	I	N/A	I	N/A	I
I	LANE WIDTHS	I	4.00 M	I	4.00 M	I	5.00 M	I
I		I	3.00 M	I	4.00 M	I	0.00 M	I
I	LEFT TURN RADI I	I	N/A	I	10.0 M	I	N/A	I
I	RIGHT TURN RADI I	I	N/A	I	12.0 M	I	N/A	I

EXIT WIDTH FOR IMAGINARY ARM D = 50.10

 TRAFFIC DEMAND DATA

DEMAND PROFILES ARE SYNTHESISED USING THE ** ODTAB ** OPTION

DEMAND DATA SUPPLIED BETWEEN TIMES - 07.45 TO 09.15
 PERIOD OF INTEREST (FOR QUEUE AND DELAY CALCULATIONS) - 08.00 TO 09.00

THE FOLLOWING DATA HAS BEEN INPUT

TRAFFIC SCALING FACTOR HAS BEEN SET TO 100 %

062098 2007 Do Something Route 1 Junction_1 AM 240706 epf

I	FROM/TO	I	ARM A	I	ARM B	I	ARM C	I
I	ARM A	I	0.0	I	0.0	I	666.0	I
I	ARM B	I	366.0	I	0.0	I	413.0	I
I	ARM C	I	295.0	I	0.0	I	0.0	I

I	TIME PERIOD	I	ARM	I	CARS AND LIGHT	I	MEDIUM GOODS	I	HEAVY GOODS	I	BUSES AND COACHES	I	MOTOR CYCLES	I	PEDAL CYCLES	I
I	08.00-09.00	I	A	I	1.000	I	0.000	I	0.000	I	0.000	I	0.000	I	0.000	I
I		I	B	I	1.000	I	0.000	I	0.000	I	0.000	I	0.000	I	0.000	I
I		I	C	I	1.000	I	0.000	I	0.000	I	0.000	I	0.000	I	0.000	I

DATA DETERMINED FOR USE IN SYNTHESIS OF DEMAND PROFILES ARE AS FOLLOWS-

I	ENTRY FLOWS	I	ARM	I	TIME WHEN FLOW STARTS TO RISE	I	TIME WHEN IS REACHED	I	TIME WHEN FLOW STOPS FALLING	I	RATE OF FLOW BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK	I
I	ENTRY	I	A	I	08.00	I	08.30	I	09.00	I	8.32	I	12.49	I	8.32	I
I		I	B	I	08.00	I	08.30	I	09.00	I	9.74	I	14.61	I	9.74	I
I		I	C	I	08.00	I	08.30	I	09.00	I	3.69	I	5.53	I	3.69	I

SIGNAL TIMING DETAILS FOR SIGNAL SET 1

TIMING OPTION- VEHICLE ACTUATED MODE

MAXIMUM CYCLE TIME-

60.0 SECONDS

GLOBAL EFFECTIVE GREEN DISPLACEMENTS - START = 1.4
 END = 2.9

DATA ITEM	STAGE 1	STAGE 2
LANES ON GREEN: ARM A	1 2	
B		1 2
C	1	
MINIMUM GREEN TIME (SECS)	5.0	5.0
PRECEDING INTERSTAGE	5.0	5.0

DEMAND AND CAPACITY INFORMATION FOR EACH 15 MINUTE TIME SEGMENT BETWEEN 08.00 AND 09.00

TIME	MOVEMENT	DEMAND (VEHS/MIN)	SAT FLOW (PCU/HR)	SAT FLOW (VEHS/MIN)	EFFECTIVE GREEN-TIME TRUE (SECS)	EFFECTIVE GREEN-TIME FLARE+NOTIONL (SECS)	CAPACITY (VEHS/MIN)
08.00-08.15							
A 12	S	9.94	4070.0	67.83	7.0		20.90
B 1	L	6.16	1752.2	29.20	8.8		11.24
2	R	5.46	1915.6	31.93	8.8		12.29
C 1	S	4.40	2115.0	35.25	7.0		10.86
08.15-08.30							
A 12	S	12.18	4070.0	67.83	8.3		21.76
B 1	L	7.55	1752.2	29.20	10.6		11.96
2	R	6.69	1915.6	31.93	10.6		13.08
C 1	S	5.39	2115.0	35.25	8.3		11.31
08.30-08.45							
A 12	S	12.18	4070.0	67.83	8.3		21.76
B 1	L	7.55	1752.2	29.20	10.6		11.96
2	R	6.69	1915.6	31.93	10.6		13.08
C 1	S	5.39	2115.0	35.25	8.3		11.31
08.45-09.00							
A 12	S	9.94	4070.0	67.83	7.0		20.90
B 1	L	6.16	1752.2	29.20	8.8		11.24
2	R	5.46	1915.6	31.93	8.8		12.29
C 1	S	4.40	2115.0	35.25	7.0		10.86

QUEUE AND DELAY INFORMATION FOR EACH 15 MINUTE TIME SEGMENT BETWEEN 08.00 AND 09.00

TIME	MOVEMENT	DEMAND EXCL 2-WHEEL (VEHS/MIN)	CAPACITY (VEHS/MIN)	DEGREE OF SAT (RFC)	QUEUE AT END OF SEGMENT MEAN (PHASE AVERAGED) (VEHS/LANE)	QUEUE AT END OF SEGMENT MAXIMUM (END OF RED) (VEHS/LANE)	QUEUEING DELAY (VEH. MIN/TIME SEGMENT)	GEOMETRIC DELAY (VEH. MIN/TIME SEGMENT)
08.00-08.15								
A 12	S	9.94	20.90	0.476	0.7	1.4	19.7	
B 1	L	6.16	11.24	0.548	1.0	1.8	14.3	
2	R	5.46	12.29	0.444	0.7	1.5	10.3	
C 1	S	4.40	10.86	0.406	0.6	1.3	9.3	
08.15-08.30								
A 12	S	12.18	21.76	0.560	1.0	2.0	28.6	
B 1	L	7.55	11.96	0.631	1.4	2.6	21.1	
2	R	6.69	13.08	0.512	1.0	2.0	14.4	
C 1	S	5.39	11.31	0.477	0.9	1.8	13.4	

I	08.30-08.45									I
I	A	12	S	12.18	21.76	0.560	1.0	2.0	28.6	I
I	B	1	L	7.55	11.96	0.631	1.4	2.6	21.2	I
I		2	R	6.69	13.08	0.512	1.0	2.0	14.4	I
I	C	1	S	5.39	11.31	0.477	0.9	1.8	13.4	I
I	08.45-09.00									I
I	A	12	S	9.94	20.90	0.476	0.7	1.4	19.8	I
I	B	1	L	6.16	11.24	0.548	1.0	1.8	14.5	I
I		2	R	5.46	12.29	0.444	0.7	1.5	10.3	I
I	C	1	S	4.40	10.86	0.406	0.6	1.3	9.4	I

QUEUES FOR ARM A

TIME SEGMENT ENDING	LANE	NUMBER OF MEAN (PHASE AVERAGED)	VEHICLES MAXIMUM (AT END OF RED)	IN QUEUE
		*	+	
08.15	2	0.7	1.4	*
	1	0.7	1.4	*
08.30	2	1.0	2.0	*+
	1	1.0	2.0	*+
08.45	2	1.0	2.0	*+
	1	1.0	2.0	*+
09.00	2	0.7	1.4	*
	1	0.7	1.4	*

QUEUES FOR ARM B

TIME SEGMENT ENDING	LANE	NUMBER OF MEAN (PHASE AVERAGED)	VEHICLES MAXIMUM (AT END OF RED)	IN QUEUE
		*	+	
08.15	2	0.7	1.5	*
	1	1.0	1.8	*+
08.30	2	1.0	2.0	*+
	1	1.4	2.6	*++
08.45	2	1.0	2.0	*+
	1	1.4	2.6	*++
09.00	2	0.7	1.5	*
	1	1.0	1.8	*+

QUEUES FOR ARM C

TIME SEGMENT ENDING	LANE	NUMBER OF MEAN (PHASE AVERAGED)	VEHICLES MAXIMUM (AT END OF RED)	IN QUEUE
		*	+	
08.15	1	0.6	1.3	*
08.30	1	0.9	1.8	*+
08.45	1	0.9	1.8	*+
09.00	1	0.6	1.3	*

 QUEUEING DELAY INFORMATION OVER WHOLE PERIOD (08.00-09.00)

STREAM	TOTAL DEMAND (EXCL 2-WHEEL)	* QUEUEING * * DELAY *	* INCLUSIVE QUEUEING * * DELAY *
(VEH)	(VEH/H)	(MIN)	(MIN/VEH)
A-B	0.0	0.0	0.00
A-C	663.5	663.5	96.7
B-C	411.4	411.4	71.1
B-A	364.6	364.6	49.4
C-A	293.9	293.9	45.6
C-B	0.0	0.0	0.00
ALL	1733.4	1733.4	262.7

* 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 BE SIGNIFICANTLY DIFFERENT ONLY IF THERE IS A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

* TOTAL GEOMETRIC DELAY INCLUDES DELAY SUFFERED BY VEHICLES STILL QUEUEING AT THE END OF THE WHOLE TIME PERIOD.
 * THE SUM OF DELAYS FOR EACH SEGMENT AND THE TOTAL GEOMETRIC DELAY WILL BE SIGNIFICANTLY DIFFERENT ONLY IF THERE IS
 * A LARGE QUEUE AT THE END OF THE TIME PERIOD.

***** OSCADY 5 run completed
 ===== end of file =====

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