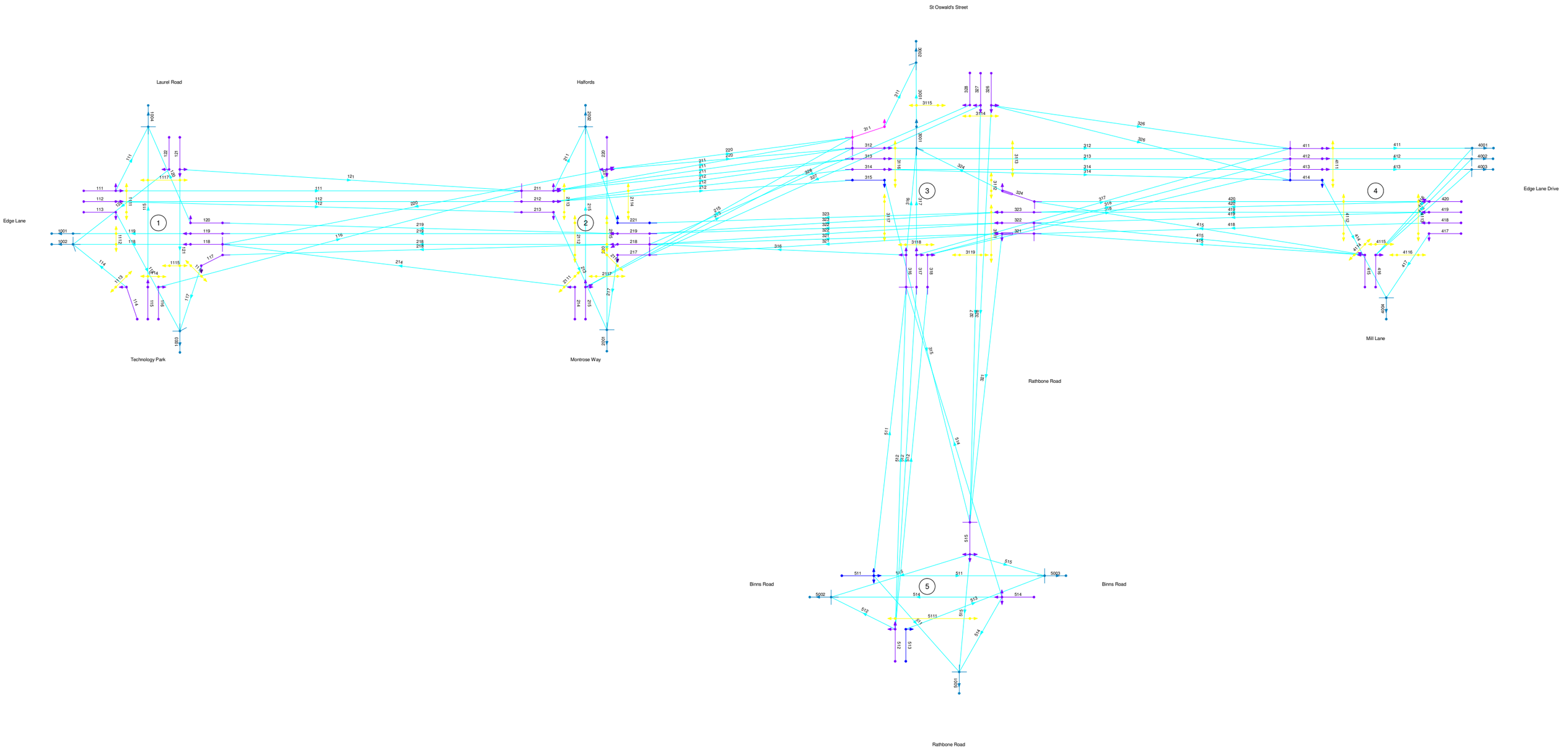
Edge Lane – Transyt Link / Node Diagram - Base



2010 Edge Lane AM Peak - Base

PRT File
2010 AM Peak : 07:45 - 08:45

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1            ________________ T R A N S Y T 12 ________________

                          Traffic Network Study Tool

                    Analysis Program Release 5  (January 2007)
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            RG40 3GA,UK
 -------------------------------------------------------------------------------
 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
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Run with file:- "2010 AM PEAK BASE.DAT"   at 15:55   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
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  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   94
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   23


  CORE REQUESTED =  17563 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-    DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB    VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE     %       %    1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60      2       3       1       1     100     100       1       1       0       0    1420    260
 CARD   CARD                                         LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       0       0       0       0       0       0       0       0       0       0

                                  NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1               9      30      16      18       6
   5)=  10       2              59      23      14
   6)=  10       3              13      34       8      19
   7)=  10       4              71       8      10
   8)=  10       5              14      11      14      32      14

                                  NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   9)=  11       1               7      10       6       7      11
  10)=  11       2              10       8       6
  11)=  11       3               9      11      13      13
  12)=  11       4              13       7      11
  13)=  11       5               7       7       7       7       7

                                  NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  14)=  12       1       1       3      19      59      81     106
  15)=  12       2       1      62      11      42
  16)=  12       3       1      54      76       1      22
  17)=  12       4       1      27     111       6
  18)=  12       5       1     108       9      27      48      87

                                                   LINK CARDS:   GIVEWAY DATA
                      PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY     A1      A2                                          LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                        LENGTH WT.X100   FLOW  WT.X100   X100
  19)=  30     221     211       0       0      50       0       0       0       0       0      40       0    1000       0       0
  20)=  30     311   -3001       0       0      22       0       0       0       0       0      60       0     715       0       0
  21)=  30     315     321       0       0      50       0       0       0       0       0      50       0    1000       0       0
  22)=  30     414     418       0       0      50       0       0       0       0       0      60       0    1000       0       0
  23)=  30     511     514       0       0      50       0       0       0       0       0     100       0    1000       0       0
  24)=  30     513     515       0       0      50       0       0       0       0       0      50       0    1000       0       0

                                                   LINK  CARDS:   FIXED  DATA
                                    FIRST   GREEN                        SECOND  GREEN
 CARD   CARD   LINK     EXIT         START           END             START            END         LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE     STAGE     LAG   STAGE     LAG   STAGE     LAG   STAGE     LAG  LENGTH  WT.X100  FLOW  WT.X100   X100
  25)=  31     111       1       1       6       3       0       0       0       0       0     200       0    1975       0       0
  26)=  31     112       1       1       6       3       0       0       0       0       0     200       0    2095       0       0
  27)=  31     113       1       1       7       2       0       0       0       0       0      60       0    1955       0       0
  28)=  31     114       1       5      10       2       0       0       0       0       0     200       0    1955       0       0
  29)=  31     115       1       5       8       1       0       0       0       0       0     200       0    1955       0       0
  30)=  31     116       1       5       8       1       0       0       0       0       0     200       0    1955       0       0
  31)=  31     117       1       2       9       4       0       0       0       0       0      70       0    2055       0       0
  32)=  31     118       1       2       9       4       0       0       0       0       0     830       0    2250       0       0
```

33)=	31	119	1	2	9	4	0	0	0	0	0	830	0	2095	0	0
34)=	31	120	1	3	6	4	0	0	0	0	0	70	0	2000	0	0
35)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
36)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
37)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
38)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
39)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
40)=	31	214	2	2	8	1	5	0	0	0	0	200	0	1967	0	0
41)=	31	215	2	3	6	1	3	0	0	0	0	200	0	2015	0	0
42)=	31	217	2	1	6	2	1	0	0	0	0	40	0	1832	0	0
43)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
44)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
45)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
46)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
47)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
48)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
49)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
50)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
51)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
52)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
53)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
54)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
56)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
57)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
58)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
60)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
61)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
62)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
64)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
65)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
66)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
67)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
68)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
69)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
70)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
71)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
72)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
73)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
74)=	31	515	5	1	7	2	0	4	7	5	0	215	0	4010	0	0
75)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
76)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
80)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
84)=	31	-1116	1	4	6	2	0	0	0	0	0	10	0	10000	0	0
85)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
86)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2111	2	1	10	2	0	0	0	0	0	10	0	10000	0	0
88)=	31	-2112	2	3	0	1	3	0	0	0	0	10	0	10000	0	0
89)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
90)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2116	2	2	6	1	0	0	0	0	0	10	0	10000	0	0
92)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
93)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
94)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
95)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
96)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
97)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
98)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
99)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
100)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
101)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
102)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
103)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
104)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
105)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
109)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
115)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
118)=	32	111	580	0	0	0	48	0	0	0	0	0	0	0	0	0
119)=	32	112	580	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	113	36	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	114	10	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	115	10	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	116	10	0	0	0	48	0	0	0	0	0	0	0	0	0
124)=	32	117	19	0	218	19	48	0	0	0	0	0	0	0	0	0
125)=	32	118	967	0	214	62	48	218	895	48	0	0	0	0	0	0
126)=	32	119	337	0	219	709	48	0	0	0	0	0	0	0	0	0
127)=	32	120	205	0	219	205	48	0	0	0	0	0	0	0	0	0
128)=	32	121	201	0	0	0	48	0	0	0	0	0	0	0	0	0
129)=	32	122	148	0	0	0	48	0	0	0	0	0	0	0	0	0
130)=	32	211	598	0	111	554	48	116	10	48	121	186	48	0	0	0
131)=	32	212	598	0	112	505	48	0	0	0	0	0	0	0	0	0
132)=	32	213	75	0	112	75	48	0	0	0	0	0	0	0	0	0
133)=	32	214	62	0	0	0	48	0	0	0	0	0	0	0	0	0
134)=	32	215	93	0	0	0	48	0	0	0	0	0	0	0	0	0
135)=	32	217	124	0	321	113	48	327	11	48	0	0	0	0	0	0
136)=	32	218	914	0	316	47	48	321	180	48	322	530	48	328	157	48
137)=	32	219	914	0	322	341	48	323	571	48	0	0	0	0	0	0
138)=	32	221	10	0	323	10	48	0	0	0	0	0	0	0	0	0
139)=	32	311	151	0	211	131	48	215	10	48	0	0	0	0	0	0
140)=	32	312	398	0	211	315	48	215	73	48	0	0	0	0	0	0
141)=	32	313	398	0	211	142	48	212	261	48	0	0	0	0	0	0
142)=	32	314	266	0	212	266	48	0	0	0	0	0	0	0	0	0
143)=	32	315	71	0	212	71	48	0	0	0	0	0	0	0	0	0
144)=	32	316	198	0	511	10	48	512	148	48	514	40	48	0	0	0
145)=	32	317	286	0	512	286	48	0	0	0	0	0	0	0	0	0
146)=	32	318	135	0	512	189	48	0	0	0	0	0	0	0	0	0
147)=	32	321	871	0	415	104	48	418	767	48	0	0	0	0	0	0
148)=	32	322	871	0	415	70	48	419	801	48	0	0	0	0	0	0
149)=	32	323	581	0	419	349	48	420	232	48	0	0	0	0	0	0
150)=	32	324	407	0	415	175	48	420	232	48	0	0	0	0	0	0

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151)=  32     326     418       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     327     428       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     328     157       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     411     627       0     312     398      48     317     135      48     326      94      48       0       0       0
155)=  32     412     479       0     313     398      48     318      81      48       0       0       0       0       0       0
156)=  32     413     249       0     314     195      48     318      54      48       0       0       0       0       0       0
157)=  32     414     164       0     314      71      48     326      93      48       0       0       0       0       0       0
158)=  32     415     349       0       0       0      48       0       0       0       0       0       0       0       0       0
159)=  32     416     326       0       0       0      48       0       0       0       0       0       0       0       0       0
160)=  32     417     535       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     418     767       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     419    1150       0       0       0      48       0       0       0       0       0       0       0       0       0
163)=  32     420     464       0       0       0      48       0       0       0       0       0       0       0       0       0
164)=  32     511      31       0       0       0      48       0       0       0       0       0       0       0       0       0
165)=  32     512     633       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     513      41       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     514     366       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     515    1426       0     315      71      48     321     578      48     326     231      48     327     417      48
169)=  32   -1001     337       0     119     337      48       0       0       0       0       0       0       0       0       0
170)=  32   -1002    1125       0     114      10      48     118     967      48     122     148      48       0       0       0
171)=  32   -1003      70       0     113      36      48     117      19      48     121      15      48       0       0       0
172)=  32   -1004     241       0     111      26      48     115      10      48     120     205      48       0       0       0
173)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
174)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
175)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
176)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
177)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
178)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
179)=  32   -2001     134       0     213      75      48     217     124      48       0       0       0       0       0       0
180)=  32   -2002      30       0     211      10      48     215      10      48     221      10      48       0       0       0
181)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
182)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
183)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
184)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
185)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
186)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
187)=  32   -3001     709       0     316     151      48     317     151      48     324     407      48       0       0       0
188)=  32   -3002     860       0     311     151      48   -3001     709      48       0       0       0       0       0       0
189)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
190)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
191)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
192)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
193)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
194)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
195)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
196)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
197)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
198)=  32   -4001     790       0     411     627      48     416     163      48       0       0       0       0       0       0
199)=  32   -4002     588       0     412     479      48     416     109      48       0       0       0       0       0       0
200)=  32   -4003     303       0     413     249      48     416      54      48       0       0       0       0       0       0
201)=  32   -4004     699       0     414     164      48     417     535      48       0       0       0       0       0       0
202)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
203)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
204)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
205)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
206)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
207)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
208)=  32   -5001    1707       0     511      11      48     514     316      48     515    1380      48       0       0       0
209)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
210)=  32   -5003      87       0     511      10      48     513      41      48     515      36      48       0       0       0
211)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                      LINK CARDS : FLARE SATURATION FLOW DATA
                     ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
      TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
212)= 33     321    2100       2     0       0       0       0
213)= 33     324    1900       4     0       0       0       0

*****END OF SUBROUTINE TINPUT*****
.

    120 SECOND CYCLE  60 STEPS

INITIAL SETTINGS
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5       6       7       8       9      10

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

 LINK    FLOW   SAT   DEGREE  MEAN TIMES  -------DELAY--------   ----STOPS----   ----QUEUE----  PERFORMANCE   EXIT   GREEN TIMES
NUMBER   INTO   FLOW    OF     PER PCU    UNIFORM RANDOM+ COST    MEAN    COST    MEAN              INDEX.      NODE   START  START
         LINK          SAT     CRUISE              OVERSAT  OF    STOPS    OF     MAX.  AVERAGE  WEIGHTED SUM              END    END
                              DELAY   (U+R+O=MEAN Q) DELAY    /PCU   STOPS          EXCESS  OF ( ) VALUES          1ST    2ND
       (PCU/H) (PCU/H)  (%)  (SEC) (SEC)   (PCU-H/H)  ($/H)    (%)   ($/H)   (PCU)  (PCU)     ($/H)                (SECONDS)

  111     580   1975     69  15.0  35.0    4.5 +  1.1  ( 80.0)     83  ( 15.4)      17               95.4      1      9  59
  112     580   2095     65  15.0  33.2    4.4 +  0.9  ( 75.9)     80  ( 15.0)      16               90.9      1      9  59
  113      36   1955     22   4.5  65.5    0.5 +  0.1  (  9.3)    102  (  1.2)       1               10.5      1     10  19
  114      10   1955      3  15.0  43.9    0.1 +  0.0  (  1.7)     82  (  0.3)       0                2.0      1    116  19
  115      10   1955      6  15.0  63.1    0.1 +  0.0  (  2.5)     99  (  0.3)       0                2.8      1    114   3
  116      10   1955      6  15.0  63.1    0.1 +  0.0  (  2.5)     99  (  0.3)       0                2.8      1    114   3
  117      18   2055      2   5.3  40.3    0.2 +  0.0  (  2.9)     89  (  0.5)       1                3.4      1     28  81
  118     966   2250     95  62.2  46.9    4.8 +  7.8  (178.6)    114  ( 35.4)      39              214.0      1     28  81
  119     336   2095     36  62.3  10.7    0.7 +  0.3  ( 14.2)     37  (  4.0)       5               18.1      1     28  81
  120     205   2000     72   5.3  94.4    4.1 +  1.3  ( 76.4)    107  (  7.1)       7               83.4      1     65  81
  121     201   1895     67  15.0  65.4    2.7 +  1.0  ( 51.8)    105  (  6.8)       7               58.6      1     88 106
  122     148   1915     49   4.9  57.6    1.9 +  0.5  ( 33.6)     98  (  4.6)       5               38.3      1     88 106
  211     598   1932     41  62.3   5.3    0.5 +  0.3  ( 12.6)     30  (  5.8)       8               18.3      2     72  42
  212     599   2075     38  62.2   3.6    0.3 +  0.3  (  8.5)     27  (  5.1)       9               13.6      2     72  42
  213      75   1741     20   2.6  20.7    0.3 +  0.1  (  6.1)     35  (  0.8)       1                7.0      2     17  42
  214      62   1967      8  15.0  24.1    0.4 +  0.0  (  5.9)     60  (  1.2)       1                7.1      2     19  67
  215      93   2015     31  15.0  54.1    1.2 +  0.2  ( 19.9)     93  (  2.8)       3               22.6      2     48  65
  217     123   1832     12   3.0   4.1    0.1 +  0.1  (  2.0)     15  (  0.6)       1                2.6      2     68  12
  218     913   2000     91  26.3  33.3    3.7 +  4.7  (119.9)     70  ( 20.5)      26              140.5      2     72  11
  219     913   2400     76  26.3  16.8    2.7 +  1.6  ( 60.7)     25  (  7.3)       8               67.9      2     72  11
  221      10   1915      4   3.0  10.8    0.0 +  0.0  (  0.4)     52  (  0.2)       0                0.6      2     72  13
  311     151    715     26   4.5   4.7    0.0 +  0.2  (  2.8)     14  (  0.7)       2                3.5
  312     398   1925     56  26.3  27.1    2.4 +  0.6  ( 42.5)     59  (  7.6)       8               50.1      3     81   4
  313     399   2085     52  26.3  28.2    2.6 +  0.5  ( 44.3)     45  (  5.7)       6               50.0      3     81   4
  314     266   2085     35  11.3  13.8    0.8 +  0.3  ( 14.5)     22  (  1.9)       2               16.4      3     81   4
  315      71   1837     41   3.7  38.4    0.4 +  0.3  ( 10.8)     96  (  2.2)       2               12.9      3     81   6
  316     198   2100     81  16.1  77.5    2.3 +  2.0  ( 60.5)    119  (  7.6)       8               68.1      3     11  24
  317     286   2100    136  16.1 570.5    5.5 + 39.9  (643.6)    249  ( 22.8)      50     +        666.4      3     11  22
  318     135   2053     66   2.6  71.2    1.7 +  0.9  ( 37.9)    119  (  5.2)       5               43.1      3     11  22
  321     871   2220f    78  15.0  21.5    3.4 +  1.8  ( 74.0)     84  ( 23.5)      26               97.5      3     63   2
  322     870   2100     83  15.0  19.3    2.3 +  2.4  ( 66.4)     64  ( 17.9)      23               84.2      3     63   2
```

323	582	2075	56	15.0	9.3	0.9 + 0.6	(21.3)	42	(7.9)	10		29.1	3	63	2		
324	407	3000f	102	4.1	152.5	5.2 + 12.0	(244.9)	169	(22.1)	26	+	267.0	3	63	78		
326	418	2150	106	15.0	206.4	6.2 + 17.8	(340.4)	188	(25.2)	32		365.6	3	34	55		
327	428	2150	109	15.0	238.4	6.5 + 21.8	(402.4)	199	(27.3)	36		429.8	3	34	55		
328	157	1999	43	3.0	52.0	1.9 + 0.4	(32.2)	93	(4.7)	5		36.9	3	34	55		
411	585<	1965	41	15.0	7.8	0.9 + 0.3	(18.0)	29	(5.7)	6		23.8	4	39	6		
412	480	2105	31	15.0	10.2	1.1 + 0.2	(19.3)	39	(6.0)	6		25.3	4	39	6		
413	249	2105	16	15.0	7.5	0.4 + 0.1	(7.4)	35	(2.8)	3		10.1	4	39	6		
414	158	2000	73	4.5	77.8	2.1 + 1.3	(48.5)	115	(6.1)	6		54.5	4	116	8		
415	349	1807	64	15.0	45.7	3.5 + 0.9	(62.9)	91	(10.1)	11		73.0	4	118	33		
416	326	1915	89	15.0	84.9	4.3 + 3.4	(109.1)	123	(12.9)	14		122.0	4	11	33		
417	535	1786	50	3.8	17.1	2.0 + 0.5	(36.0)	56	(9.6)	11	+	45.6	4	40	111		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY	MEAN /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST	END 1ST	START 2ND	END 2ND
															(SECONDS)			
418	767	2200	58	15.0	18.0	3.1 + 0.7	(54.4)	60	(14.7)	16			69.1	4	40	111		
419	1150	2095	91	15.0	36.7	6.8 + 4.9	(166.4)	95	(35.0)	39			201.4	4	40	111		
420	464	2095	37	6.0	14.6	1.6 + 0.3	(26.7)	49	(7.4)	8			34.1	4	40	111		
511	31	1854	24	7.5	39.1	0.2 + 0.2	(4.8)	139	(1.4)	1			6.2	5	34	50	94	110
512	633	2113	75	15.0	24.7	2.9 + 1.5	(61.8)	91	(18.5)	13			80.2	5	115	9	55	87
513	41	1800	56	3.8	84.9	0.3 + 0.6	(13.7)	212	(2.8)	1			16.5	5	115	11	55	89
514	366	1769	83	15.0	43.6	2.2 + 2.3	(62.9)	121	(14.2)	8			77.1	5	34	48	94	108
515	1376<	4010	86	16.1	17.6	3.8 + 2.9	(95.3)	83	(38.0)	26			133.2	5	115	9	55	87
-1001	336	4000	8	15.0	0.5	0.0 + 0.0	(0.7)	0	(0.0)	0			0.7					
-1002	1124	4000	28	15.0	0.6	0.0 + 0.2	(2.8)	1	(0.2)	0			3.0					
-1003	69	4000	2	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0			0.1					
-1004	240	4000	6	15.0	0.5	0.0 + 0.0	(0.5)	0	(0.0)	0			0.5					
-1111	10	10000	0	3.6	25.9	0.1 + 0.0	(1.0)	64	(0.0)	0			1.0	1	65	106		
-1112	10	10000	1	3.6	40.1	0.1 + 0.0	(1.6)	80	(0.0)	0			1.6	1	117	19		
-1113	10	10000	0	3.6	6.3	0.0 + 0.0	(0.2)	30	(0.0)	0			0.3	1	25	106		
-1114	10	10000	0	3.6	2.2	0.0 + 0.0	(0.1)	17	(0.0)	0			0.1	1	9	106		
-1115	10	10000	0	3.6	7.5	0.0 + 0.0	(0.3)	45	(0.0)	0			0.3	1	29	81	115	3
-1116	10	10000	0	3.6	19.1	0.1 + 0.0	(0.8)	54	(0.0)	0			0.8	1	87	19		
-2001	134	4000	3	15.0	0.5	0.0 + 0.0	(0.2)	0	(0.0)	0			0.3					
-2002	30	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0			0.1					
-2111	10	10000	0	3.6	15.9	0.0 + 0.0	(0.6)	49	(0.0)	0			0.6	2	72	11		
-2112	10	10000	1	3.6	40.1	0.1 + 0.0	(1.6)	80	(0.0)	0			1.6	2	42	65		
-2113	10	10000	1	3.6	46.4	0.1 + 0.0	(1.8)	86	(0.0)	0			1.8	2	47	62		
-2115	10	10000	0	3.6	23.3	0.1 + 0.0	(0.9)	60	(0.0)	0			0.9	2	16	62		
-2116	10	10000	0	3.6	23.3	0.1 + 0.0	(0.9)	60	(0.0)	0			0.9	2	17	62		
-2117	10	10000	0	3.6	14.8	0.0 + 0.0	(0.6)	48	(0.0)	0			0.6	2	70	11		
-3001	662<	4000	17	3.8	0.5	0.0 + 0.1	(1.4)	0	(0.1)	0			1.5					
-3002	813<	4000	20	15.0	0.6	0.0 + 0.1	(1.8)	0	(0.1)	0			1.9					
-3111	10	10000	0	3.6	37.7	0.1 + 0.0	(1.5)	77	(0.0)	0			1.5	3	7	32		
-3112	10	10000	0	3.6	2.6	0.0 + 0.0	(0.1)	18	(0.0)	0			0.1	3	81	56		
-3113	10	10000	0	3.6	36.0	0.1 + 0.0	(1.4)	76	(0.0)	0			1.4	3	35	62		
-3114	10	10000	0	3.6	5.7	0.0 + 0.0	(0.2)	28	(0.0)	0			0.2	3	60	24		
-3115	10	10000	0	3.6	7.9	0.0 + 0.0	(0.3)	47	(0.0)	0			0.3	3	87	3	33	55
-3116	10	10000	0	3.6	19.7	0.1 + 0.0	(0.8)	55	(0.0)	0			0.8	3	9	60		
-3117	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0			1.9	3	12	27		
-3118	10	10000	0	3.6	2.8	0.0 + 0.0	(0.1)	19	(0.0)	0			0.1	3	27	1		
-3119	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0			1.9	3	14	29		
-4001	748<	4000	19	15.0	0.6	0.0 + 0.1	(1.6)	0	(0.1)	0			1.7					
-4002	589	4000	15	15.0	0.5	0.0 + 0.1	(1.2)	0	(0.1)	0			1.3					
-4003	303	4000	8	15.0	0.5	0.0 + 0.0	(0.6)	0	(0.0)	0			0.6					
-4004	693	4000	17	15.0	0.5	0.0 + 0.1	(1.5)	0	(0.1)	0			1.6					
-4111	10	10000	1	3.6	45.5	0.1 + 0.0	(1.8)	85	(0.0)	0			1.8	4	11	27		
-4112	10	10000	1	3.6	49.4	0.1 + 0.0	(1.9)	89	(0.0)	0			2.0	4	15	27		
-4113	10	10000	1	3.6	41.8	0.1 + 0.0	(1.6)	82	(0.0)	0			1.7	4	6	27		
-4114	10	10000	0	3.6	9.5	0.0 + 0.0	(0.4)	38	(0.0)	0			0.4	4	38	111		
-4115	10	10000	0	3.6	4.5	0.0 + 0.0	(0.2)	25	(0.0)	0			0.2	4	38	6		
-4116	10	10000	1	3.6	51.5	0.1 + 0.0	(2.0)	91	(0.0)	0			2.0	4	17	27		
-5001	1659<	4000	41	15.0	0.8	0.0 + 0.4	(5.0)	1	(0.3)	0			5.4					
-5002	31	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0			0.1					
-5003	87	4000	2	15.0	0.5	0.0 + 0.0	(0.2)	0	(0.0)	0			0.2					
-5111	10	10000	1	3.6	51.3	0.1 + 0.0	(2.0)	91	(0.0)	0			2.0	5	16	27		

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5536.5	368.2	15.0	110.7	142.2	(3591.0)	+ (502.5)	+ (0.0)	= 4093.5	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	372.0	+	294.6	+	229.6	=	896.2

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 94

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	3	19	59	81	106
2	3	62	11	42		
3	4	54	76	1	22	
4	3	27	111	6		
5	5	108	9	27	48	87

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5536.5	368.2	15.0	110.7	142.2	(3591.0)	+ (502.5)	+ (0.0)	= 4093.5	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 502

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

```
    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  498
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18
 - (SECONDS)

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  549
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48
 - (SECONDS)

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  548
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18
 - (SECONDS)

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  574
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18   1
 - (SECONDS)

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
    5       5     108       9      27      48      87

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  560
.

    120 SECOND CYCLE  60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   18  48  18  48  18   1   1
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       5       3      19      59      81     106
    2       3      62      11      42
    3       4      54      76       1      22
    4       3      27     111       6
```

5 5 108 9 27 48 87

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST	START END 2ND	END (SECONDS)
111	580	1975	69	15.0	35.0	4.5 + 1.1	(80.0)	83	(15.4)	17		95.4	1	9	59	
112	580	2095	65	15.0	33.2	4.4 + 0.9	(75.9)	80	(15.0)	16		90.9	1	9	59	
113	36	1955	22	4.5	65.5	0.5 + 0.1	(9.3)	102	(1.2)	1		10.5	1	10	19	
114	10	1955	3	15.0	43.9	0.1 + 0.0	(1.7)	82	(0.3)	0		2.0	1	116	19	
115	10	1955	6	15.0	63.1	0.1 + 0.0	(2.5)	99	(0.3)	0		2.8	1	114	3	
116	10	1955	6	15.0	63.1	0.1 + 0.0	(2.5)	99	(0.3)	0		2.8	1	114	3	
117	18	2055	2	5.3	40.3	0.2 + 0.0	(2.9)	89	(0.5)	1		3.4	1	28	81	
118	966	2250	95	62.2	46.9	4.8 + 7.8	(178.6)	114	(35.4)	39		214.0	1	28	81	
119	336	2095	36	62.3	10.7	0.7 + 0.3	(14.2)	37	(4.0)	5		18.1	1	28	81	
120	205	2000	72	5.3	94.4	4.1 + 1.3	(76.4)	107	(7.1)	7		83.4	1	65	81	
121	201	1895	67	15.0	65.4	2.7 + 1.0	(51.8)	105	(6.8)	7		58.6	1	88	106	
122	148	1915	49	4.9	57.6	1.9 + 0.5	(33.6)	98	(4.6)	5		38.3	1	88	106	
211	598	1932	41	62.3	5.3	0.5 + 0.3	(12.6)	30	(5.8)	8		18.3	2	72	42	
212	599	2075	38	62.2	3.6	0.3 + 0.3	(8.5)	27	(5.1)	9		13.6	2	72	42	
213	75	1741	20	2.6	20.7	0.3 + 0.1	(6.1)	35	(0.8)	1		7.0	2	17	42	
214	62	1967	8	15.0	24.1	0.4 + 0.0	(5.9)	60	(1.2)	1		7.1	2	19	67	
215	93	2015	31	15.0	54.1	1.2 + 0.2	(19.9)	93	(2.8)	3		22.6	2	48	65	
217	123	1832	12	3.0	4.1	0.1 + 0.1	(2.0)	15	(0.6)	1		2.6	2	68	12	
218	913	2000	91	26.3	33.3	3.7 + 4.7	(119.9)	70	(20.5)	26		140.5	2	72	11	
219	913	2400	76	26.3	16.8	2.7 + 1.6	(60.7)	25	(7.3)	8		67.9	2	72	11	
221	10	1915	4	3.0	10.8	0.0 + 0.0	(0.4)	52	(0.2)	0		0.6	2	72	13	
311	151	715	26	4.5	4.7	0.0 + 0.2	(2.8)	14	(0.7)	2		3.5				
312	398	1925	56	26.3	27.1	2.4 + 0.6	(42.5)	59	(7.6)	8		50.1	3	81	4	
313	399	2085	52	26.3	28.2	2.6 + 0.5	(44.3)	45	(5.7)	6		50.0	3	81	4	
314	266	2085	35	11.3	13.8	0.8 + 0.3	(14.5)	22	(1.9)	2		16.4	3	81	4	
315	71	1837	41	3.7	38.4	0.4 + 0.3	(10.8)	96	(2.2)	2		12.9	3	81	6	
316	198	2100	81	16.1	77.5	2.3 + 2.0	(60.5)	119	(7.6)	8		68.1	3	11	24	
317	286	2100	136	16.1	570.5	5.5 + 39.9	(643.6)	249	(22.8)	50	+	666.4	3	11	22	
318	135	2053	66	2.6	71.2	1.7 + 0.9	(37.9)	119	(5.2)	5		43.1	3	11	22	
321	871	2220f	78	15.0	21.5	3.4 + 1.8	(74.0)	84	(23.5)	26		97.5	3	63	2	
322	870	2100	83	15.0	19.3	2.3 + 2.4	(66.4)	64	(17.9)	23		84.2	3	63	2	
323	582	2075	56	15.0	9.3	0.9 + 0.6	(21.3)	42	(7.9)	10		29.1	3	63	2	
324	407	3000f	102	4.1	152.5	5.2 + 12.0	(244.9)	169	(22.1)	26	+	267.0	3	63	78	
326	418	2150	106	15.0	206.4	6.2 + 17.8	(340.4)	188	(25.2)	32		365.6	3	34	55	
327	428	2150	109	15.0	238.4	6.5 + 21.8	(402.4)	199	(27.3)	36		429.8	3	34	55	
328	157	1999	43	3.0	52.0	1.9 + 0.4	(32.2)	93	(4.7)	5		36.9	3	34	55	
411	585<	1965	41	15.0	7.8	0.9 + 0.3	(18.0)	29	(5.7)	6		23.8	4	39	6	
412	480	2105	31	15.0	10.2	1.1 + 0.2	(19.3)	39	(6.0)	6		25.3	4	39	6	
413	249	2105	16	15.0	7.5	0.4 + 0.1	(7.4)	35	(2.8)	3		10.1	4	39	6	
414	158	2000	73	4.5	77.8	2.1 + 1.3	(48.5)	115	(6.1)	6		54.5	4	116	8	
415	349	1807	64	15.0	45.7	3.5 + 0.9	(62.9)	91	(10.1)	11		73.0	4	118	33	
416	326	1915	89	15.0	84.9	4.3 + 3.4	(109.1)	123	(12.9)	14		122.0	4	11	33	
417	535	1786	50	3.8	17.1	2.0 + 0.5	(36.0)	56	(9.6)	11	+	45.6	4	40	111	

.

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST	START END 2ND	END (SECONDS)
418	767	2200	58	15.0	18.0	3.1 + 0.7	(54.4)	60	(14.7)	16		69.1	4	40	111	
419	1150	2095	91	15.0	36.7	6.8 + 4.9	(166.4)	95	(35.0)	39		201.4	4	40	111	
420	464	2095	37	6.0	14.6	1.6 + 0.3	(26.7)	49	(7.4)	8		34.1	4	40	111	
511	31	1854	24	7.5	39.1	0.2 + 0.2	(4.8)	139	(1.4)	1		6.2	5	34	50	94 110
512	633	2113	75	15.0	24.7	2.9 + 1.5	(61.8)	91	(18.5)	13		80.2	5	115	9	55 87
513	41	1800	56	3.8	84.9	0.3 + 0.6	(13.7)	212	(2.8)	1		16.5	5	115	11	55 89
514	366	1769	83	15.0	43.6	2.2 + 2.3	(62.9)	121	(14.2)	8		77.1	5	34	48	94 108
515	1376<	4010	86	16.1	17.6	3.8 + 2.9	(95.3)	83	(38.0)	26		133.2	5	115	9	55 87
-1001	336	4000	8	15.0	0.5	0.0 + 0.0	(0.7)	0	(0.0)	0		0.7				
-1002	1124	4000	28	15.0	0.6	0.0 + 0.2	(2.8)	1	(0.2)	0		3.0				
-1003	69	4000	2	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1				
-1004	240	4000	6	15.0	0.5	0.0 + 0.0	(0.5)	0	(0.0)	0		0.5				
-1111	10	10000	0	3.6	25.9	0.1 + 0.0	(1.0)	64	(0.0)	0		1.0	1	65	106	
-1112	10	10000	1	3.6	40.1	0.1 + 0.0	(1.6)	80	(0.0)	0		1.6	1	117	19	
-1113	10	10000	0	3.6	6.3	0.0 + 0.0	(0.2)	30	(0.0)	0		0.3	1	25	106	
-1114	10	10000	0	3.6	2.2	0.0 + 0.0	(0.1)	17	(0.0)	0		0.1	1	9	106	
-1115	10	10000	0	3.6	7.5	0.0 + 0.0	(0.3)	45	(0.0)	0		0.3	1	29	81	115 3
-1116	10	10000	0	3.6	19.1	0.1 + 0.0	(0.8)	54	(0.0)	0		0.8	1	87	19	
-2001	134	4000	3	15.0	0.5	0.0 + 0.0	(0.2)	0	(0.0)	0		0.3				
-2002	30	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1				
-2111	10	10000	0	3.6	15.9	0.0 + 0.0	(0.6)	49	(0.0)	0		0.6	2	72	11	
-2112	10	10000	1	3.6	40.1	0.1 + 0.0	(1.6)	80	(0.0)	0		1.6	2	42	65	
-2113	10	10000	1	3.6	46.4	0.1 + 0.0	(1.8)	86	(0.0)	0		1.8	2	47	62	
-2115	10	10000	0	3.6	23.3	0.1 + 0.0	(0.9)	60	(0.0)	0		0.9	2	16	62	
-2116	10	10000	0	3.6	23.3	0.1 + 0.0	(0.9)	60	(0.0)	0		0.9	2	17	62	
-2117	10	10000	0	3.6	14.8	0.0 + 0.0	(0.6)	48	(0.0)	0		0.6	2	70	11	
-3001	662<	4000	17	3.8	0.5	0.0 + 0.1	(1.4)	0	(0.1)	0		1.5				
-3002	813<	4000	20	15.0	0.6	0.0 + 0.1	(1.8)	0	(0.1)	0		1.9				
-3111	10	10000	0	3.6	37.7	0.1 + 0.0	(1.5)	77	(0.0)	0		1.5	3	7	32	
-3112	10	10000	0	3.6	2.6	0.0 + 0.0	(0.1)	18	(0.0)	0		0.1	3	81	56	
-3113	10	10000	0	3.6	36.0	0.1 + 0.0	(1.4)	76	(0.0)	0		1.4	3	35	62	
-3114	10	10000	0	3.6	5.7	0.0 + 0.0	(0.2)	28	(0.0)	0		0.2	3	60	24	
-3115	10	10000	0	3.6	7.9	0.0 + 0.0	(0.3)	47	(0.0)	0		0.3	3	87	3	33 55
-3116	10	10000	0	3.6	19.7	0.1 + 0.0	(0.8)	55	(0.0)	0		0.8	3	9	60	
-3117	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0		1.9	3	12	27	
-3118	10	10000	0	3.6	2.8	0.0 + 0.0	(0.1)	19	(0.0)	0		0.1	3	27	1	
-3119	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0		1.9	3	14	29	
-4001	748<	4000	19	15.0	0.6	0.0 + 0.1	(1.6)	0	(0.1)	0		1.7				
-4002	589	4000	15	15.0	0.5	0.0 + 0.1	(1.2)	0	(0.1)	0		1.3				
-4003	303	4000	8	15.0	0.5	0.0 + 0.0	(0.6)	0	(0.0)	0		0.6				
-4004	693	4000	17	15.0	0.5	0.0 + 0.1	(1.5)	0	(0.1)	0		1.6				
-4111	10	10000	1	3.6	45.5	0.1 + 0.0	(1.8)	85	(0.0)	0		1.8	4	11	27	
-4112	10	10000	1	3.6	49.4	0.1 + 0.0	(1.9)	89	(0.0)	0		2.0	4	15	27	
-4113	10	10000	1	3.6	41.8	0.1 + 0.0	(1.6)	82	(0.0)	0		1.7	4	6	27	
-4114	10	10000	0	3.6	9.5	0.0 + 0.0	(0.4)	38	(0.0)	0		0.4	4	38	111	
-4115	10	10000	0	3.6	4.5	0.0 + 0.0	(0.2)	25	(0.0)	0		0.2	4	38	6	
-4116	10	10000	1	3.6	51.5	0.1 + 0.0	(2.0)	91	(0.0)	0		2.0	4	17	27	
-5001	1659<	4000	41	15.0	0.8	0.0 + 0.4	(5.0)	1	(0.3)	0		5.4				
-5002	31	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1				
-5003	87	4000	2	15.0	0.5	0.0 + 0.0	(0.2)	0	(0.0)	0		0.2				
-5111	10	10000	1	3.6	51.3	0.1 + 0.0	(2.0)	91	(0.0)	0		2.0	5	16	27	

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)

```
  5536.5         368.2       15.0        110.7    142.2    (3591.0) + (  502.5)  +  (   0.0)   =    4093.5      TOTALS
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE

*************************************************************************************************************************
                                    CRUISE              DELAY              STOPS              TOTALS
                                LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR

FUEL CONSUMPTION PREDICTIONS        372.0         +     294.6         +     229.6         =     896.2

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  560

PROGRAM TRANSYT FINISHED
```

2010 Edge Lane PM Peak - Base

PRT File
2010 PM Peak Base : 16:30 - 17:30

```
1           ________________ T R A N S Y T 12 ________________

                          Traffic Network Study Tool

                    Analysis Program Release 5  (January 2007)
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            _____________________________________________________


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 -------------------------------------------------------------------------------
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 -------------------------------------------------------------------------------

Run with file:- "2010 PM PEAK BASE.DAT"   at 16:02   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                   =    5
  NUMBER OF LINKS                   =   95
  NUMBER OF OPTIMISED NODES         =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS   =    0
  NUMBER OF STEPS IN CYCLE          =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =   0
  MAXIMUM NUMBER OF TIMING POINTS   =    5
  MAXIMUM LINKS AT ANY NODE         =   23


  CORE REQUESTED =  17698 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD    CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE    TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                         PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
                (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE     %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1      120      60      60       2       3       1       1     100     100       1       1       0       0   1420    260
 CARD   CARD                                         LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2        1       2       3       4       5       0       0       0       0       0       0       0       0       0       0

                                 NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1                7      22      22      18      10
   5)=  10       2               46      20      14       9
   6)=  10       3               12      30      14      18
   7)=  10       4               70       8      11
   8)=  10       5               80      11       8

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   9)=  11       1                7      10       6       7      11
  10)=  11       2               10       8       6       7
  11)=  11       3                9      11      13      13
  12)=  11       4               13       7      11
  13)=  11       5                7       7       7

                                 NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl    S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  14)=  12       1       1       88     102      14      42      67
  15)=  12       2       1       33      89     117      17
  16)=  12       3       1       30      51      92     119
  17)=  12       4       1       11      94     109
  18)=  12       5       1       39       6      24

                                                   LINK CARDS:   GIVEWAY DATA
                   PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY     A1      A2                                     LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                   LENGTH WT.X100   FLOW  WT.X100   X100
  19)=  30     221     211       0       0       0       0       0       0       0       0      40       0    1000       0       0
  20)=  30     311   -3001       0       0      22       0       0       0       0       0      60       0     715       0       0
  21)=  30     315     321       0       0      50       0       0       0       0       0      50       0    1000       0       0
  22)=  30     414     418       0       0      50       0       0       0       0       0      60       0    1000       0       0
  23)=  30     511     514       0       0      50       0       0       0       0       0     100       0    1000       0       0
  24)=  30     513     515       0       0      50       0       0       0       0       0      50       0    1000       0       0

                                                   LINK  CARDS:   FIXED  DATA
                                       FIRST   GREEN                      SECOND  GREEN
 CARD   CARD   LINK     EXIT        START           END             START           END         LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE     STAGE    LAG    STAGE    LAG     STAGE    LAG    STAGE    LAG  LENGTH  WT.X100  FLOW  WT.X100   X100
  25)=  31     111       1        1       6       3       0       0       0       0       0     200       0    1975       0       0
  26)=  31     112       1        1       6       3       0       0       0       0       0     200       0    2095       0       0
  27)=  31     113       1        1       7       2       0       0       0       0       0      60       0    1955       0       0
  28)=  31     114       1        5      10       2       0       0       0       0       0     200       0    1955       0       0
  29)=  31     115       1        5       8       1       0       0       0       0       0     200       0    1955       0       0
  30)=  31     116       1        5       8       1       0       0       0       0       0     200       0    1955       0       0
  31)=  31     117       1        2       9       4       0       0       0       0       0      70       0    2055       0       0
  32)=  31     118       1        2       9       4       0       0       0       0       0     830       0    2250       0       0
```

33)=	31	119	1	2	9	4	0	0	0	0	0	830	0	2095	0	0
34)=	31	120	1	3	6	4	0	0	0	0	0	70	0	2000	0	0
35)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
36)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
37)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
38)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
39)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
40)=	31	214	2	2	8	4	2	0	0	0	0	200	0	1967	0	0
41)=	31	215	2	3	6	4	0	0	0	0	0	200	0	3000	0	0
42)=	31	217	2	1	8	2	1	0	0	0	0	40	0	1832	0	0
43)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
44)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
45)=	31	220	2	4	7	1	0	0	0	0	0	100	0	1882	0	0
46)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
47)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
48)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
49)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
50)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
51)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
52)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
53)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
54)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
56)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
57)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
58)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
60)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
61)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
62)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
64)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
65)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
66)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
67)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
68)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
69)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
70)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
71)=	31	511	5	3	7	1	2	0	0	0	0	100	0	1854	0	0
72)=	31	512	5	1	7	2	0	0	0	0	0	200	0	2113	0	0
73)=	31	513	5	1	7	2	2	0	0	0	0	50	0	1800	0	0
74)=	31	514	5	3	7	1	0	0	0	0	0	200	0	1769	0	0
75)=	31	515	5	1	7	2	0	0	0	0	0	215	0	4010	0	0
76)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
80)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
84)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
85)=	31	-1116	1	4	6	2	0	0	0	0	0	10	0	10000	0	0
86)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
88)=	31	-2111	2	4	7	2	0	0	0	0	0	10	0	10000	0	0
89)=	31	-2112	2	3	0	4	1	0	0	0	0	10	0	10000	0	0
90)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
92)=	31	-2116	2	2	6	1	2	0	0	0	0	10	0	10000	0	0
93)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
94)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
95)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
96)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
97)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
98)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
99)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
100)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
101)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
102)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
103)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
104)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
105)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
114)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
115)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
118)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD	CARD	LINK	TOTAL	UNIFORM	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE
NO.	TYPE	NO.	FLOW	FLOW	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED
119)=	32	111	711	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	112	710	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	113	10	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	114	27	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	115	20	0	0	0	48	0	0	0	0	0	0	0	0	0
124)=	32	116	17	0	0	0	48	0	0	0	0	0	0	0	0	0
125)=	32	117	13	0	218	13	48	0	0	0	0	0	0	0	0	0
126)=	32	118	586	0	214	61	48	218	515	48	220	10	48	0	0	0
127)=	32	119	414	0	219	284	48	0	0	0	0	0	0	0	0	0
128)=	32	120	243	0	219	243	48	0	0	0	0	0	0	0	0	0
129)=	32	121	183	0	0	0	48	0	0	0	0	0	0	0	0	0
130)=	32	122	118	0	0	0	48	0	0	0	0	0	0	0	0	0
131)=	32	211	929	0	111	667	48	116	17	48	121	173	48	0	0	0
132)=	32	212	619	0	112	619	48	0	0	0	0	0	0	0	0	0
133)=	32	213	91	0	112	91	48	0	0	0	0	0	0	0	0	0
134)=	32	214	61	0	0	0	48	0	0	0	0	0	0	0	0	0
135)=	32	215	214	0	0	0	48	0	0	0	0	0	0	0	0	0
136)=	32	217	108	0	321	95	48	327	13	48	0	0	0	0	0	0
137)=	32	218	528	0	316	36	48	321	158	48	322	208	48	328	126	48
138)=	32	219	527	0	322	236	48	323	281	48	0	0	0	0	0	0
139)=	32	220	47	0	0	0	48	0	0	0	0	0	0	0	0	0
140)=	32	221	14	0	323	14	48	0	0	0	0	0	0	0	0	0
141)=	32	311	308	0	211	261	48	215	37	48	220	10	48	0	0	0
142)=	32	312	530	0	211	346	48	215	167	48	220	17	48	0	0	0
143)=	32	313	530	0	211	312	48	212	213	48	0	0	0	0	0	0
144)=	32	314	354	0	212	354	48	0	0	0	0	0	0	0	0	0
145)=	32	315	52	0	212	52	48	0	0	0	0	0	0	0	0	0
146)=	32	316	335	0	511	10	48	512	331	48	514	13	48	0	0	0
147)=	32	317	443	0	512	443	48	0	0	0	0	0	0	0	0	0
148)=	32	318	244	0	512	244	48	0	0	0	0	0	0	0	0	0
149)=	32	321	444	0	415	81	48	418	363	48	0	0	0	0	0	0
150)=	32	322	444	0	415	54	48	419	390	48	0	0	0	0	0	0

151)=	32	323	295	0	419	177	48	420	118	48	0	0	0	0	0	0
152)=	32	324	437	0	415	136	48	420	301	48	0	0	0	0	0	0
153)=	32	326	312	0	0	0	48	0	0	0	0	0	0	0	0	0
154)=	32	327	325	0	0	0	48	0	0	0	0	0	0	0	0	0
155)=	32	328	126	0	0	0	48	0	0	0	0	0	0	0	0	0
156)=	32	411	891	0	312	530	48	317	244	48	326	117	48	0	0	0
157)=	32	412	676	0	313	530	48	318	146	48	0	0	0	0	0	0
158)=	32	413	373	0	314	275	48	318	98	48	0	0	0	0	0	0
159)=	32	414	195	0	314	79	48	326	116	48	0	0	0	0	0	0
160)=	32	415	271	0	0	0	48	0	0	0	0	0	0	0	0	0
161)=	32	416	341	0	0	0	48	0	0	0	0	0	0	0	0	0
162)=	32	417	326	0	0	0	48	0	0	0	0	0	0	0	0	0
163)=	32	418	363	0	0	0	43	0	0	0	0	0	0	0	0	0
164)=	32	419	567	0	0	0	48	0	0	0	0	0	0	0	0	0
165)=	32	420	419	0	0	0	48	0	0	0	0	0	0	0	0	0
166)=	32	511	30	0	0	0	48	0	0	0	0	0	0	0	0	0
167)=	32	512	1028	0	0	0	48	0	0	0	0	0	0	0	0	0
168)=	32	513	408	0	0	0	48	0	0	0	0	0	0	0	0	0
169)=	32	514	44	0	0	0	48	0	0	0	0	0	0	0	0	0
170)=	32	515	728	0	315	52	48	321	191	48	326	79	48	327	312	48
171)=	32	-1001	414	0	119	414	48	0	0	0	0	0	0	0	0	0
172)=	32	-1002	731	0	114	27	48	118	586	48	122	118	48	0	0	0
173)=	32	-1003	33	0	113	10	48	117	13	48	121	10	48	0	0	0
174)=	32	-1004	307	0	111	44	48	115	20	48	120	243	48	0	0	0
175)=	32	-1111	10	0	0	0	10	0	0	0	0	0	0	0	0	0
176)=	32	-1112	10	0	0	0	10	0	0	0	0	0	0	0	0	0
177)=	32	-1113	10	0	0	0	10	0	0	0	0	0	0	0	0	0
178)=	32	-1114	10	0	0	0	10	0	0	0	0	0	0	0	0	0
179)=	32	-1115	10	0	0	0	10	0	0	0	0	0	0	0	0	0
180)=	32	-1116	10	0	0	0	10	0	0	0	0	0	0	0	0	0
181)=	32	-2001	209	0	213	91	48	217	108	48	220	10	48	0	0	0
182)=	32	-2002	34	0	211	10	48	215	10	48	221	14	48	0	0	0
183)=	32	-2111	10	0	0	0	10	0	0	0	0	0	0	0	0	0
184)=	32	-2112	10	0	0	0	10	0	0	0	0	0	0	0	0	0
185)=	32	-2113	10	0	0	0	10	0	0	0	0	0	0	0	0	0
186)=	32	-2115	10	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	-2116	10	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-2117	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3001	935	0	316	299	48	317	199	48	324	437	48	0	0	0
190)=	32	-3002	1243	0	311	308	48	-3001	935	48	0	0	0	0	0	0
191)=	32	-3111	10	0	0	0	10	0	0	0	0	0	0	0	0	0
192)=	32	-3112	10	0	0	0	10	0	0	0	0	0	0	0	0	0
193)=	32	-3113	10	0	0	0	10	0	0	0	0	0	0	0	0	0
194)=	32	-3114	10	0	0	0	10	0	0	0	0	0	0	0	0	0
195)=	32	-3115	10	0	0	0	10	0	0	0	0	0	0	0	0	0
196)=	32	-3116	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-3117	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-3118	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	-3119	10	0	0	0	10	0	0	0	0	0	0	0	0	0
200)=	32	-4001	1062	0	411	891	48	416	171	48	0	0	0	0	0	0
201)=	32	-4002	790	0	412	676	48	416	114	48	0	0	0	0	0	0
202)=	32	-4003	429	0	413	373	48	416	56	48	0	0	0	0	0	0
203)=	32	-4004	521	0	414	195	48	417	326	48	0	0	0	0	0	0
204)=	32	-4111	10	0	0	0	10	0	0	0	0	0	0	0	0	0
205)=	32	-4112	10	0	0	0	10	0	0	0	0	0	0	0	0	0
206)=	32	-4113	10	0	0	0	10	0	0	0	0	0	0	0	0	0
207)=	32	-4114	10	0	0	0	10	0	0	0	0	0	0	0	0	0
208)=	32	-4115	10	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	-4116	10	0	0	0	10	0	0	0	0	0	0	0	0	0
210)=	32	-5001	716	0	511	10	48	514	21	48	515	685	48	0	0	0
211)=	32	-5002	30	0	512	10	48	514	10	48	515	10	48	0	0	0
212)=	32	-5003	451	0	511	10	48	513	408	48	515	33	48	0	0	0
213)=	32	-5111	10	0	0	0	10	0	0	0	0	0	0	0	0	0

LINK CARDS : FLARE SATURATION FLOW DATA

		CARD TYPE	LINK NO.	..LANE 1.. SAT. FLOW	CAPAC VEH.	..LANE 2.. SAT. FLOW	CAPAC VEH.	..LANE 3.. SAT. FLOW	CAPAC VEH.
214)=		33	321	1900	2	0	0	0	0
215)=		33	324	2100	4	0	0	0	0

*****END OF SUBROUTINE TINPUT*****

.

120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	88	102	14	42	67					
2	4	33	89	117	17						
3	4	30	51	92	119						
4	3	11	94	109							
5	3	39	6	24							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST	START END 2ND
															END (SECONDS)	
111	711	1975	105	15.0	173.3	9.1 + 25.2	(486.0)	176	(40.3)	49	+	526.2	1	94	14	
112	710	2095	99	15.0	100.0	7.8 + 12.0	(279.9)	140	(31.9)	36		311.8	1	94	14	
113	10	1955	8	4.5	67.2	0.1 + 0.0	(2.7)	103	(0.3)	0		3.0	1	95	102	
114	27	1955	6	15.0	41.7	0.3 + 0.0	(4.4)	81	(0.7)	1		5.1	1	77	102	
115	20	1955	9	15.0	55.6	0.3 + 0.0	(4.4)	94	(0.6)	1		5.0	1	75	88	
116	17	1955	7	15.0	55.3	0.2 + 0.0	(3.7)	92	(0.5)	1		4.2	1	75	88	
117	13	2055	1	5.3	44.1	0.2 + 0.0	(2.3)	99	(0.4)	0		2.7	1	111	42	
118	586	2250	60	62.3	15.9	1.8 + 0.8	(36.7)	58	(11.0)	13		47.7	1	111	42	
119	414	2095	46	62.3	11.0	0.8 + 0.4	(17.9)	33	(4.4)	5		22.3	1	111	42	
120	244	2000	64	5.3	88.5	5.1 + 0.9	(85.2)	111	(8.6)	9		93.8	1	20	42	
121	183	1895	61	15.0	62.2	2.4 + 0.8	(44.9)	102	(6.0)	6		50.9	1	49	67	
122	118	1915	39	4.9	55.0	1.5 + 0.3	(25.6)	94	(3.6)	4		29.1	1	49	67	
211	891<	1932	74	62.3	18.7	3.2 + 1.4	(65.7)	79	(23.7)	26		89.3	2	43	117	
212	619	2075	48	62.3	7.1	0.8 + 0.5	(17.3)	51	(10.1)	14		27.4	2	43	117	
213	91	1741	27	2.6	49.6	1.1 + 0.2	(17.8)	55	(1.6)	2		19.4	2	95	117	
214	61	1967	9	15.0	28.3	0.4 + 0.0	(6.8)	65	(1.3)	1		8.1	2	97	19	
215	214	3000	57	15.0	60.6	2.9 + 0.7	(51.1)	100	(6.9)	7		58.0	2	3	17	
217	108	1832	14	3.0	7.4	0.1 + 0.1	(3.1)	20	(0.7)	1		3.8	2	41	90	
218	528	2000	67	26.3	23.2	2.4 + 1.0	(48.4)	52	(8.8)	9		57.2	2	43	89	
219	527	2400	56	26.3	22.1	2.6 + 0.6	(45.9)	32	(5.5)	6		51.4	2	43	89	
220	47	1882	30	7.5	68.2	0.7 + 0.2	(12.6)	104	(1.6)	2		14.2	2	24	33	
221	14	1915	3	3.0	7.4	0.0 + 0.0	(0.4)	10	(0.0)	0		0.5	2	43	91	
311	296<	715	55	4.5	10.0	0.2 + 0.6	(11.7)	50	(4.9)	5	+	16.6				
312	516<	1925	80	26.3	50.1	5.2 + 2.0	(102.0)	90	(15.3)	16		117.3	3	56	95	
313	519<	2085	75	26.3	40.2	4.3 + 1.4	(82.3)	55	(9.4)	10		91.7	3	56	95	
314	354	2085	51	11.3	13.6	0.8 + 0.5	(19.0)	30	(3.4)	5		22.5	3	56	95	
315	52	1837	16	3.8	12.5	0.1 + 0.1	(2.6)	31	(0.5)	1		3.1	3	56	97	
316	334	2100	96	16.1	103.8	3.6 + 6.0	(136.8)	143	(15.4)	17		152.2	3	102	1	
317	442	2100	140	16.1	606.6	9.3 + 65.2	(999.9)	249	(35.4)	84	+	1093.0	3	102	119	

318	245	2053	79	2.6	63.7	2.5 +	1.8	(61.5)	114	(9.0)	10	+	70.5	3	102	119			
321	444	2230f	43	15.0	17.4	1.8 +	0.4	(30.5)	59	(8.4)	10		38.8	3	39	93			
322	444	2100	46	15.0	16.5	1.6 +	0.4	(28.9)	52	(7.4)	10		36.3	3	39	93			
323	295	2075	31	15.0	11.2	0.7 +	0.2	(13.1)	24	(2.3)	3		15.4	3	39	93			
324	437	3060f	114	4.1	304.1	6.2 +	30.8	(524.2)	218	(30.5)	45	+	554.8	3	39	53			
326	312	2150	83	15.0	73.9	4.1 +	2.3	(91.0)	114	(11.4)	12		102.3	3	11	31			
327	325	2150	86	15.0	79.7	4.3 +	2.9	(102.2)	119	(12.4)	13		114.6	3	11	31			
328	126	1999	36	3.0	51.6	1.5 +	0.3	(25.6)	91	(3.7)	4		29.3	3	11	31			
411	806<	1965	57	15.0	8.9	1.3 +	0.7	(28.2)	30	(8.6)	10		36.8	4	23	109			
412	665<	2105	44	15.0	8.5	1.2 +	0.4	(22.2)	27	(6.0)	6		28.1	4	23	109			
413	373	2105	24	15.0	7.6	0.6 +	0.2	(11.2)	29	(3.5)	4		14.8	4	23	109			
414	195	2000	90	4.5	123.4	3.2 +	3.5	(94.9)	147	(9.2)	10		104.1	4	99	111			
415	271	1807	49	15.0	40.0	2.5 +	0.5	(42.8)	83	(7.2)	8		50.0	4	101	17			
416	341	1915	89	15.0	83.5	4.4 +	3.5	(112.3)	122	(13.4)	14		125.7	4	114	17			

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	UNIFORM RANDOM+ COST OVERSAT OF DELAY (U+R+O=MEAN Q)			MEAN STOPS /PCU	COST OF STOPS	MEAN MAX. QUEUE	AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN TIMES START 1ST	END	START 2ND	END
	(PCU/H)	(PCU/H)	(%)	(SEC)	(SEC)	(PCU-H/H)		($/H)	(%)	($/H)	(PCU)	(PCU)	($/H)		(SECONDS)			
417	326	1786	31	3.8	14.7	1.1 +	0.2	(18.9)	49	(5.1)	6		24.0	4	24	94		
418	363	2200	28	16.7	13.9	1.2 +	0.2	(19.9)	47	(4.4)	6		24.3	4	24	94		
419	567	2095	46	15.0	16.4	2.2 +	0.4	(36.7)	54	(9.9)	11		46.5	4	24	94		
420	419	2095	34	6.0	14.7	1.5 +	0.3	(24.3)	49	(6.6)	7		30.9	4	24	94		
511	30	1854	36	7.5	86.5	0.4 +	0.3	(10.2)	119	(1.1)	1		11.4	5	31	41		
512	1028	2113	72	15.0	16.8	3.5 +	1.3	(68.3)	61	(20.3)	23		88.6	5	46	6		
513	408	1800	86	3.8	51.3	3.0 +	2.8	(82.5)	105	(13.8)	15	+	96.3	5	46	8		
514	44	1769	33	15.0	72.7	0.6 +	0.2	(12.6)	107	(1.5)	2		14.1	5	31	39		
515	728	4010	27	16.1	11.6	2.2 +	0.2	(33.2)	68	(15.9)	17		49.1	5	46	6		
-1001	414	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.9					
-1002	731	4000	18	15.0	0.6	0.0 +	0.1	(1.6)	0	(0.1)	0		1.7					
-1003	33	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	305	4000	8	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
-1111	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	20	67		
-1112	10	10000	0	3.6	39.3	0.1 +	0.0	(1.5)	79	(0.0)	0		1.6	1	78	102		
-1113	10	10000	0	3.6	7.3	0.0 +	0.0	(0.3)	33	(0.0)	0		0.3	1	108	67		
-1114	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	1	94	67		
-1115	10	10000	0	3.6	7.6	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	1	112	42	76	88
-1116	10	10000	0	3.6	18.5	0.1 +	0.0	(0.7)	54	(0.0)	0		0.7	1	48	102		
-2001	209	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-2002	33	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	12.9	0.0 +	0.0	(0.5)	44	(0.0)	0		0.5	2	24	89		
-2112	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	2	117	18		
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	2	33		
-2115	10	10000	0	3.6	15.9	0.0 +	0.0	(0.6)	49	(0.0)	0		0.6	2	94	33		
-2116	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	95	35		
-2117	10	10000	0	3.6	21.4	0.1 +	0.0	(0.8)	58	(0.0)	0		0.9	2	41	89		
-3001	822<	4000	21	3.8	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		2.0					
-3002	1119<	4000	28	15.0	0.6	0.0 +	0.2	(2.8)	0	(0.2)	0		2.9					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	98	9		
-3112	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	3	56	32		
-3113	10	10000	0	3.6	37.6	0.1 +	0.0	(1.5)	77	(0.0)	0		1.5	3	12	38		
-3114	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	3	36	1		
-3115	10	10000	0	3.6	9.8	0.0 +	0.0	(0.4)	53	(0.0)	0		0.4	3	62	94	10	31
-3116	10	10000	0	3.6	17.4	0.0 +	0.0	(0.7)	52	(0.0)	0		0.7	3	100	36		
-3117	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	103	4		
-3118	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	3	4	92		
-3119	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	105	6		
-4001	977<	4000	24	15.0	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.5					
-4002	779<	4000	19	15.0	0.6	0.0 +	0.1	(1.7)	0	(0.1)	0		1.8					
-4003	429	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-4004	521	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-4111	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	4	114	11		
-4112	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	118	11		
-4113	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	4	109	11		
-4114	10	10000	0	3.6	9.9	0.0 +	0.0	(0.4)	38	(0.0)	0		0.4	4	22	94		
-4115	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	4	22	109		
-4116	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	4	0	11		
-5001	715	4000	18	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-5002	31	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	452	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-5111	10	10000	1	3.6	50.4	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	5	13	24		

*** f - average saturation flow for flared link ***

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120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (464.3)	+ (0.0)	= 4634.5	TOTALS	

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	CRUISE LITRES PER HOUR	DELAY LITRES PER HOUR	STOPS LITRES PER HOUR	TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	347.8	+ 341.2	+ 212.2	= 901.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 95

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120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (464.3)	+ (0.0)	= 4634.5	TOTALS	

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 492

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120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (	464.3) + (	0.0) =	4634.5	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 503

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 18
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (	464.3) + (	0.0) =	4634.5	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 549

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 18 48
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (	464.3) + (	0.0) =	4634.5	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 556

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 18 48 18
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (	464.3) + (	0.0) =	4634.5	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 562

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 18 48 18 1
- (SECONDS)

1	5	88	102	14	42	67
2	4	33	89	117	17	
3	4	30	51	92	119	
4	3	11	94	109		
5	3	39	6	24		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2) + (	464.3) + (	0.0) =	4634.5	TOTALS

NO. OF ENTRIES TO SUBPT = 12
NO. OF LINKS RECALCULATED= 650

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 18 48 18 1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	88	102	14	42	67					

2	4	33	89	117	17
3	4	30	51	92	119
4	3	11	94	109	
5	3	39	6	24	

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	711	1975	105	15.0	173.3	9.1 +	25.2	(486.0)	176	(40.3)	49	+	526.2	1	94	14		
112	710	2095	99	15.0	100.0	7.8 +	12.0	(279.9)	140	(31.9)	36		311.8	1	94	14		
113	10	1955	8	4.5	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	95	102		
114	27	1955	6	15.0	41.7	0.3 +	0.0	(4.4)	81	(0.7)	1		5.1	1	77	102		
115	20	1955	9	15.0	55.6	0.3 +	0.0	(4.4)	94	(0.6)	1		5.0	1	75	88		
116	17	1955	7	15.0	55.3	0.2 +	0.0	(3.7)	92	(0.5)	1		4.2	1	75	88		
117	13	2055	1	5.3	44.1	0.2 +	0.0	(2.3)	99	(0.4)	0		2.7	1	111	42		
118	586	2250	60	62.3	15.9	1.8 +	0.8	(36.7)	58	(11.0)	13		47.7	1	111	42		
119	414	2095	46	62.3	11.0	0.8 +	0.4	(17.9)	33	(4.4)	5		22.3	1	111	42		
120	244	2000	64	5.3	88.5	5.1 +	0.9	(85.2)	111	(8.6)	9		93.8	1	20	42		
121	183	1895	61	15.0	62.2	2.4 +	0.8	(44.9)	102	(6.0)	6		50.9	1	49	67		
122	118	1915	39	4.9	55.0	1.5 +	0.3	(25.6)	94	(3.6)	4		29.1	1	49	67		
211	891<	1932	74	62.3	18.7	3.2 +	1.4	(65.7)	79	(23.7)	26		89.3	2	43	117		
212	619	2075	48	62.3	7.1	0.8 +	0.5	(17.3)	51	(10.1)	14		27.4	2	43	117		
213	91	1741	27	2.6	49.6	1.1 +	0.2	(17.8)	55	(1.6)	2		19.4	2	95	117		
214	61	1967	9	15.0	28.3	0.4 +	0.0	(6.8)	65	(1.3)	1		8.1	2	97	19		
215	214	3000	57	15.0	60.6	2.9 +	0.7	(51.1)	100	(6.9)	7		58.0	2	3	17		
217	108	1832	14	3.0	7.4	0.1 +	0.1	(3.1)	20	(0.7)	1		3.8	2	41	90		
218	528	2000	67	26.3	23.2	2.4 +	1.0	(48.4)	52	(8.8)	9		57.2	2	43	89		
219	527	2400	56	26.3	22.1	2.6 +	0.6	(45.9)	32	(5.5)	6		51.4	2	43	89		
220	47	1882	30	7.5	68.2	0.7 +	0.2	(12.6)	104	(1.6)	2		14.2	2	24	33		
221	14	1915	3	3.0	7.4	0.0 +	0.0	(0.4)	10	(0.0)	0		0.5	2	43	91		
311	296<	715	55	4.5	10.0	0.2 +	0.6	(11.7)	50	(4.9)	5	+	16.6					
312	516<	1925	80	26.3	50.1	5.2 +	2.0	(102.0)	90	(15.3)	16		117.3	3	56	95		
313	519<	2085	75	26.3	40.2	4.3 +	1.4	(82.3)	55	(9.4)	10		91.7	3	56	95		
314	354	2085	51	11.3	13.6	0.8 +	0.5	(19.0)	30	(3.4)	5		22.5	3	56	95		
315	52	1837	16	3.8	12.5	0.1 +	0.1	(2.6)	31	(0.5)	1		3.1	3	56	97		
316	334	2100	96	16.1	103.8	3.6 +	6.0	(136.8)	143	(15.4)	17		152.2	3	102	1		
317	442	2100	140	16.1	606.6	9.3 +	65.2	(999.9)	249	(35.4)	84	+	1093.0	3	102	119		
318	245	2053	79	2.6	63.7	2.5 +	1.8	(61.5)	114	(9.0)	10	+	70.5	3	102	119		
321	444	2230f	43	15.0	17.4	1.8 +	0.4	(30.5)	59	(8.4)	10		38.8	3	39	93		
322	444	2100	46	15.0	16.5	1.6 +	0.4	(28.9)	52	(7.4)	10		36.3	3	39	93		
323	295	2075	31	15.0	11.2	0.7 +	0.2	(13.1)	24	(2.3)	3		15.4	3	39	93		
324	437	3060f	114	4.1	304.1	6.2 +	30.8	(524.2)	218	(30.5)	45	+	554.8	3	39	53		
326	312	2150	83	15.0	73.9	4.1 +	2.3	(91.0)	114	(11.4)	12		102.3	3	11	31		
327	325	2150	86	15.0	79.7	4.3 +	2.9	(102.2)	119	(12.4)	13		114.6	3	11	31		
328	126	1999	36	3.0	51.6	1.5 +	0.3	(25.6)	91	(3.7)	4		29.3	3	11	31		
411	806<	1965	57	15.0	8.9	1.3 +	0.7	(28.2)	30	(8.6)	10		36.8	4	23	109		
412	665<	2105	44	15.0	8.5	1.2 +	0.4	(22.2)	27	(6.0)	6		28.1	4	23	109		
413	373	2105	24	15.0	7.6	0.6 +	0.2	(11.2)	29	(3.5)	4		14.8	4	23	109		
414	195	2000	90	4.5	123.4	3.2 +	3.5	(94.9)	147	(9.2)	10		104.1	4	99	111		
415	271	1807	49	15.0	40.0	2.5 +	0.5	(42.8)	83	(7.2)	8		50.0	4	101	17		
416	341	1915	89	15.0	83.5	4.4 +	3.5	(112.3)	122	(13.4)	14		125.7	4	114	17		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 2ND (SECONDS)
417	326	1786	31	3.8	14.7	1.1 +	0.2	(18.9)	49	(5.1)	6		24.0	4	24	94		
418	363	2200	28	16.7	13.9	1.2 +	0.2	(19.9)	47	(4.4)	6		24.3	4	24	94		
419	567	2095	46	15.0	16.4	2.2 +	0.4	(36.7)	54	(9.9)	11		46.5	4	24	94		
420	419	2095	34	6.0	14.7	1.5 +	0.3	(24.3)	49	(6.6)	7		30.9	4	24	94		
511	30	1854	36	7.5	86.5	0.4 +	0.3	(10.2)	119	(1.1)	1		11.4	5	31	41		
512	1028	2113	72	15.0	16.8	3.5 +	1.3	(68.3)	61	(20.3)	23		88.6	5	46	6		
513	408	1800	86	3.8	51.3	3.0 +	2.8	(82.5)	105	(13.8)	15	+	96.3	5	46	8		
514	44	1769	33	15.0	72.7	0.6 +	0.2	(12.6)	107	(1.5)	2		14.1	5	31	39		
515	728	4010	27	16.1	11.6	2.2 +	0.2	(33.2)	68	(15.9)	17		49.1	5	46	6		
-1001	414	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.9					
-1002	731	4000	18	15.0	0.6	0.0 +	0.1	(1.6)	0	(0.1)	0		1.7					
-1003	33	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	305	4000	8	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
-1111	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	20	67		
-1112	10	10000	0	3.6	39.3	0.1 +	0.0	(1.5)	79	(0.0)	0		1.6	1	78	102		
-1113	10	10000	0	3.6	7.3	0.0 +	0.0	(0.3)	33	(0.0)	0		0.3	1	108	67		
-1114	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	1	94	67		
-1115	10	10000	0	3.6	7.6	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	1	112	42	76	88
-1116	10	10000	0	3.6	18.5	0.1 +	0.0	(0.7)	54	(0.0)	0		0.7	1	48	102		
-2001	209	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-2002	33	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	12.9	0.0 +	0.0	(0.5)	44	(0.0)	0		0.5	2	24	89		
-2112	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	2	117	18		
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	2	33		
-2115	10	10000	0	3.6	15.9	0.0 +	0.0	(0.6)	49	(0.0)	0		0.6	2	94	33		
-2116	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	95	35		
-2117	10	10000	0	3.6	21.4	0.1 +	0.0	(0.8)	58	(0.0)	0		0.9	2	41	89		
-3001	822<	4000	21	3.8	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		2.0					
-3002	1119<	4000	28	15.0	0.6	0.0 +	0.2	(2.8)	0	(0.2)	0		2.9					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	98	9		
-3112	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	3	56	32		
-3113	10	10000	0	3.6	37.6	0.1 +	0.0	(1.5)	77	(0.0)	0		1.5	3	12	38		
-3114	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	3	36	1		
-3115	10	10000	0	3.6	9.8	0.0 +	0.0	(0.4)	53	(0.0)	0		0.4	3	62	94	10	31
-3116	10	10000	0	3.6	17.4	0.0 +	0.0	(0.7)	52	(0.0)	0		0.7	3	100	36		
-3117	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	103	4		
-3118	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	3	4	92		
-3119	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	105	6		
-4001	977<	4000	24	15.0	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.5					
-4002	779<	4000	19	15.0	0.6	0.0 +	0.1	(1.7)	0	(0.1)	0		1.8					
-4003	429	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-4004	521	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-4111	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	4	114	11		
-4112	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	118	11		
-4113	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	4	109	11		
-4114	10	10000	0	3.6	9.9	0.0 +	0.0	(0.4)	38	(0.0)	0		0.4	4	22	94		
-4115	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	4	22	109		
-4116	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	4	0	11		
-5001	715	4000	18	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-5002	31	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	452	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-5111	10	10000	1	3.6	50.4	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	5	13	24		

*** f - average saturation flow for flared link ***

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120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE	TOTAL TIME	MEAN JOURNEY	TOTAL UNIFORM	TOTAL RANDOM+	TOTAL COST	TOTAL COST	PENALTY FOR	TOTAL PERFORMANCE

TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)		OF STOPS ($/H)		EXCESS QUEUES ($/H)		INDEX ($/H)	
5078.0	399.6	12.7	119.1	174.5	(4170.2)	+	(464.3)	+	(0.0)	=	4634.5	TOTALS
												ROUTE

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	347.8	+	341.2	+	212.2	=	901.3

NO. OF ENTRIES TO SUBPT = 12
NO. OF LINKS RECALCULATED= 650

PROGRAM TRANSYT FINISHED

2010 Edge Lane SAT Peak - Base

PRT File
2010 SAT Peak : 13:30 - 14:30

1 ________________ T R A N S Y T 12 ________________

Traffic Network Study Tool

Analysis Program Release 5 (January 2007)

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For sales and distribution information,
program advice and maintenance, contact:

TRL Limited   Tel: +44 (0) 1344 770758
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

Run with file:- "2010 SAT PEAK BASE.DAT" at 16:10 on 20100929

TRANSYT 12.0

Edge Lane - AM Peak

PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
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NUMBER OF NODES = 5
NUMBER OF LINKS = 94
NUMBER OF OPTIMISED NODES = 5
MAXIMUM NUMBER OF GRAPHIC PLOTS = 0
NUMBER OF STEPS IN CYCLE = 60
MAXIMUM NUMBER OF SHARED STOPLINES = 0
MAXIMUM NUMBER OF TIMING POINTS = 5
MAXIMUM LINKS AT ANY NODE = 23

CORE REQUESTED = 17563 WORDS
CORE AVAILABLE = 96000 WORDS

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DATA INPUT :-
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CARD NO. | CARD TYPE
(1)= TITLE:- Edge Lane - AM Peak

CARD NO.	CARD TYPE	CYCLE TIME (SEC)	NO. OF STEPS PER CYCLE	TIME PERIOD 1-1200 MINS.	EFFECTIVE-GREEN DISPLACEMENTS START (SEC)	END (SEC)	EQUISAT SETTINGS 0=NO 1=YES	0=UNEQUAL CYCLE 1=EQUAL CYCLE	FLOW SCALE 10-200 %	CRUISE-SPEEDS SCALE 50-200 %	CARD32 0=TIMES 1=SPEEDS	OPTIMISE 0=NONE 1=O/SET 2=FULL	EXTRA COPIES FINAL OUTPUT	HILL-CLIMB OUTPUT 1=FULL	DELAY VALUE P PER PCU-H	STOP VALUE P PER 100
2)=	1	120	60	60	2	3	1	1	100	100	1	1	0	0	1420	260

LIST OF NODES TO BE OPTIMISED

CARD NO.	CARD TYPE															
3)=	2	1	2	3	4	5	0	0	0	0	0	0	0	0	0	0

NODE CARDS: MINIMUM STAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
4)=	10	1	4	7	7	7						
5)=	10	2	43	24	13	9						
6)=	10	3	9	32	10	23						
7)=	10	4	74	8	7							
8)=	10	5	20	11	8	38	8					

NODE CARDS: PRECEDING INTERSTAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
9)=	11	1	9	6	7	11						
10)=	11	2	10	8	6	7						
11)=	11	3	9	11	13	13						
12)=	11	4	13	7	11							
13)=	11	5	7	7	7	7	7					

NODE CARDS: STAGE CHANGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	Sgl/Dbl Cycled	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
14)=	12	1	1	115	44	75	97						
15)=	12	2	1	55	108	20	39						
16)=	12	3	1	48	66	109	12						
17)=	12	4	1	25	112	7							
18)=	12	5	1	94	1	19	34	79					

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	ONLY % FLOW	LINK1 GIVEWAY COEFFS. A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
19)=	30	221	211	0	0	50	0	0	0	0	0	40	0	1000	0	0
20)=	30	311	-3001	0	0	22	0	0	0	0	0	60	0	715	0	0
21)=	30	315	321	0	0	50	0	0	0	0	0	50	0	1000	0	0
22)=	30	414	418	0	0	50	0	0	0	0	0	60	0	1000	0	0
23)=	30	511	514	0	0	50	0	0	0	0	0	100	0	1000	0	0
24)=	30	513	515	0	0	50	0	0	0	0	0	50	0	1000	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	FIRST GREEN START STAGE	LAG	END STAGE	LAG	SECOND GREEN START STAGE	LAG	END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
25)=	31	111	1	1	6	2	0	0	0	0	0	200	0	1975	0	0
26)=	31	112	1	1	6	2	0	0	0	0	0	200	0	2095	0	0
27)=	31	114	1	4	10	1	0	0	0	0	0	200	0	1955	0	0
28)=	31	115	1	4	8	1	0	0	0	0	0	200	0	1955	0	0
29)=	31	116	1	4	8	1	0	0	0	0	0	200	0	1955	0	0
30)=	31	117	1	1	6	3	0	0	0	0	0	70	0	2055	0	0
31)=	31	118	1	1	9	3	0	0	0	0	0	830	0	2250	0	0
32)=	31	119	1	1	9	3	0	0	0	0	0	830	0	2095	0	0

33)=	31	120	1	2	6	3	0	0	0	0	0	70	0	2000	0	0
34)=	31	121	1	3	7	4	0	0	0	0	0	200	0	1895	0	0
35)=	31	122	1	3	7	4	0	0	0	0	0	65	0	1915	0	0
36)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
37)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
38)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
39)=	31	214	2	2	8	4	2	0	0	0	0	200	0	1967	0	0
40)=	31	215	2	3	6	4	2	0	0	0	0	200	0	3000	0	0
41)=	31	217	2	1	8	2	1	0	0	0	0	40	0	1832	0	0
42)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
43)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
44)=	31	220	2	4	7	1	0	0	0	0	0	100	0	1882	0	0
45)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
46)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
47)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
48)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
49)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
50)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
51)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
52)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
53)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
54)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
56)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
57)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
58)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
60)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
61)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
62)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	414	4	2	5	3	4	0	0	0	0	60	0	2000	0	0
64)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
65)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
66)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
67)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
68)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
69)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
70)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
71)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
72)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
73)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
74)=	31	515	5	1	7	2	0	4	7	5	0	215	0	4010	0	0
75)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
76)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1111	1	2	6	4	0	0	0	0	0	10	0	10000	0	0
80)=	31	-1112	1	4	11	1	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1113	1	1	6	4	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1114	1	1	6	4	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1115	1	4	9	3	0	0	0	0	0	10	0	10000	0	0
84)=	31	-1116	1	3	6	1	0	0	0	0	0	10	0	10000	0	0
85)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
86)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2111	2	4	7	2	0	0	0	0	0	10	0	10000	0	0
88)=	31	-2112	2	3	0	4	1	0	0	0	0	10	0	10000	0	0
89)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
90)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2116	2	2	6	1	2	0	0	0	0	10	0	10000	0	0
92)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
93)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
94)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
95)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
96)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
97)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
98)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
99)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
100)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
101)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
102)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
103)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
104)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
105)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
109)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
115)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
118)=	32	111	514	0	0	0	48	0	0	0	0	0	0	0	0	0
119)=	32	112	513	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	114	12	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	115	10	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	116	10	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	117	10	0	218	10	48	0	0	0	0	0	0	0	0	0
124)=	32	118	738	0	214	101	48	218	588	48	220	13	48	0	0	0
125)=	32	119	292	0	219	292	48	0	0	0	0	0	0	0	0	0
126)=	32	120	306	0	219	306	48	0	0	0	0	0	0	0	0	0
127)=	32	121	178	0	0	0	48	0	0	0	0	0	0	0	0	0
128)=	32	122	59	0	0	0	48	0	0	0	0	0	0	0	0	0
129)=	32	211	679	0	111	459	48	116	10	48	121	168	48	0	0	0
130)=	32	212	364	0	112	364	48	0	0	0	0	0	0	0	0	0
131)=	32	213	149	0	112	149	48	0	0	0	0	0	0	0	0	0
132)=	32	214	101	0	0	0	48	0	0	0	0	0	0	0	0	0
133)=	32	215	273	0	0	0	48	0	0	0	0	0	0	0	0	0
134)=	32	217	207	0	321	174	48	327	33	48	0	0	0	0	0	0
135)=	32	218	598	0	316	57	48	321	141	48	322	208	48	328	192	48
136)=	32	219	598	0	322	292	48	323	309	48	0	0	0	0	0	0
137)=	32	220	60	0	0	0	48	0	0	0	0	0	0	0	0	0
138)=	32	221	24	0	323	24	48	0	0	0	0	0	0	0	0	0
139)=	32	311	346	0	211	260	48	215	76	48	220	10	48	0	0	0
140)=	32	312	317	0	211	107	48	215	185	48	220	25	48	0	0	0
141)=	32	313	317	0	211	282	48	212	71	48	0	0	0	0	0	0
142)=	32	314	212	0	212	212	48	0	0	0	0	0	0	0	0	0
143)=	32	315	81	0	212	81	48	0	0	0	0	0	0	0	0	0
144)=	32	316	256	0	511	13	48	512	215	48	514	21	48	0	0	0
145)=	32	317	318	0	512	318	48	0	0	0	0	0	0	0	0	0
146)=	32	318	119	0	512	119	48	0	0	0	0	0	0	0	0	0
147)=	32	321	500	0	415	88	48	418	412	48	0	0	0	0	0	0
148)=	32	322	500	0	415	58	48	419	442	48	0	0	0	0	0	0
149)=	32	323	333	0	419	200	48	420	133	48	0	0	0	0	0	0
150)=	32	324	430	0	415	147	48	420	283	48	0	0	0	0	0	0

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151)=  32     326     305       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     327     338       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     328     192       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     411     549       0     312     317      48     317     120      48     326     112      48       0       0       0
155)=  32     412     389       0     313     317      48     318      72      48       0       0       0       0       0       0
156)=  32     413     166       0     314     119      48     318      47      48       0       0       0       0       0       0
157)=  32     414     204       0     314      93      48     326     111      48       0       0       0       0       0       0
158)=  32     415     293       0       0       0      48       0       0       0       0       0       0       0       0       0
159)=  32     416     169       0       0       0      48       0       0       0       0       0       0       0       0       0
160)=  32     417     200       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     418     412       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     419     642       0       0       0      48       0       0       0       0       0       0       0       0       0
163)=  32     420     416       0       0       0      48       0       0       0       0       0       0       0       0       0
164)=  32     511      33       0       0       0      48       0       0       0       0       0       0       0       0       0
165)=  32     512     662       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     513     113       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     514      62       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     515     732       0     315      81      48     321     185      48     326      82      48     327     305      48
169)=  32   -1001     292       0     119     292      48       0       0       0       0       0       0       0       0       0
170)=  32   -1002     809       0     114      12      48     118     738      48     122      59      48       0       0       0
171)=  32   -1003      30       0     117      10      48     121      10      48       0       0       0       0       0       0
172)=  32   -1004     371       0     111      55      48     115      10      48     120     306      48       0       0       0
173)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
174)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
175)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
176)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
177)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
178)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
179)=  32   -2001     368       0     213     149      48     217     207      48     220      12      48       0       0       0
180)=  32   -2002      66       0     211      30      48     215      12      48     221      24      48       0       0       0
181)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
182)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
183)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
184)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
185)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
186)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
187)=  32   -3001     827       0     316     199      48     317     198      48     324     430      48       0       0       0
188)=  32   -3002    1173       0     311     346      48   -3001     827      48       0       0       0       0       0       0
189)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
190)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
191)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
192)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
193)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
194)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
195)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
196)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
197)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
198)=  32   -4001     634       0     411     549      48     416      85      48       0       0       0       0       0       0
199)=  32   -4002     445       0     412     389      48     416      56      48       0       0       0       0       0       0
200)=  32   -4003     194       0     413     166      48     416      28      48       0       0       0       0       0       0
201)=  32   -4004     404       0     414     204      48     417     200      48       0       0       0       0       0       0
202)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
203)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
204)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
205)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
206)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
207)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
208)=  32   -5001     732       0     511      10      48     514      31      48     515     691      48       0       0       0
209)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
210)=  32   -5003     154       0     511      10      48     513     113      48     515      31      48       0       0       0
211)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                      LINK CARDS : FLARE SATURATION FLOW DATA
                     ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
      TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
212)= 33     321    1900       2     0       0       0       0
213)= 33     324    2100       4     0       0       0       0

*****END OF SUBROUTINE TINPUT*****
.

    120 SECOND CYCLE  60 STEPS

INITIAL SETTINGS
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

 LINK    FLOW   SAT   DEGREE  MEAN TIMES  -------DELAY--------   ----STOPS----   ----QUEUE----  PERFORMANCE   EXIT   GREEN TIMES
NUMBER   INTO   FLOW    OF      PER PCU    UNIFORM RANDOM+ COST    MEAN    COST    MEAN            INDEX.       NODE   START  START
         LINK          SAT     CRUISE              OVERSAT  OF    STOPS    OF     MAX.  AVERAGE  WEIGHTED SUM              END    END
                                      DELAY  (U+R+O=MEAN Q) DELAY   /PCU   STOPS           EXCESS  OF ( ) VALUES          1ST    2ND
       (PCU/H) (PCU/H)  (%)  (SEC) (SEC)    (PCU-H/H)    ($/H)    (%)    ($/H)   (PCU)  (PCU)     ($/H)                (SECONDS)

  111     514   1975     71  15.0  41.0    4.6 +  1.2  ( 83.1)     89  ( 14.6)      16               97.7      1      1  44
  112     513   2095     67  15.0  38.9    4.5 +  1.0  ( 78.6)     86  ( 14.1)      15               92.8      1      1  44
  114      12   1955      8  15.0  64.7    0.2 +  0.0  (  3.1)    100  (  0.4)       0                3.4      1    107 115
  115      10   1955      6  15.0  60.1    0.1 +  0.0  (  2.4)     97  (  0.3)       0                2.7      1    105 115
  116      10   1955      6  15.0  60.1    0.1 +  0.0  (  2.4)     97  (  0.3)       0                2.7      1    105 115
  117      10   2055      1   5.3  24.8    0.1 +  0.0  (  1.0)     81  (  0.3)       0                1.2      1      1  75
  118     738   2250     55  62.3   6.8    0.8 +  0.6  ( 19.8)     25  (  5.9)       8               25.8      1      4  75
  119     292   2095     23  62.3   3.7    0.1 +  0.2  (  4.3)     12  (  1.1)       1                5.4      1      4  75
  120     307   2000     71   5.3  80.1    5.6 +  1.2  ( 96.9)     93  (  9.1)       9              106.0      1     50  75
  121     178   1895     70  15.0  73.2    2.5 +  1.2  ( 51.4)    111  (  6.4)       7               57.7      1     82  97
  122      59   1915     23   4.9  55.8    0.8 +  0.2  ( 13.0)     94  (  1.8)       2               14.8      1     82  97
  211     679   1932     55  62.2  16.6    2.5 +  0.6  ( 44.5)     76  ( 16.6)      19               61.1      2     65  20
  212     364   2075     28  62.3   3.9    0.2 +  0.2  (  5.6)     23  (  2.7)       4                8.3      2     65  20
  213     149   1741     38   2.6  42.8    1.5 +  0.3  ( 25.1)     47  (  2.3)       2               27.4      2    114  20
  214     101   1967     13  15.0  26.8    0.7 +  0.1  ( 10.7)     64  (  2.1)       2               12.7      2    116  41
  215     273   3000     68  15.0  63.5    3.8 +  1.1  ( 68.4)    104  (  9.1)      10               77.5      2     26  41
  217     207   1832     29   3.0  11.2    0.4 +  0.2  (  9.2)     49  (  3.3)       4               12.5      2     63 109
  218     598   2000     82  26.3  33.8    3.5 +  2.1  ( 79.7)     79  ( 15.1)      17               94.8      2     65 108
  219     599   2400     68  26.3  23.9    2.9 +  1.1  ( 56.5)     32  (  6.2)       6               62.6      2     65 108
  220      60   1882     38   7.5  70.6    0.9 +  0.3  ( 16.7)    106  (  2.0)       2               18.8      2     46  55
  221      24   1915     29   3.0  50.3    0.1 +  0.2  (  4.8)    112  (  0.9)       1                5.6      2     65 110
  311     345    715     61   4.5   9.9    0.2 +  0.8  ( 13.5)     53  (  5.9)       8     +         19.4
  312     317   1925     47  26.3  28.9    2.1 +  0.4  ( 36.2)     85  (  8.6)       9               44.8      3     71 112
  313     317   2085     43  26.3  34.7    2.7 +  0.4  ( 43.4)     51  (  5.2)       5               48.6      3     71 112
  314     212   2085     29  11.3  13.5    0.6 +  0.2  ( 11.3)     18  (  1.2)       1               12.6      3     71 112
  315      81   1837     27   3.8  16.4    0.2 +  0.2  (  5.2)     43  (  1.1)       1                6.4      3     71 114
  316     256   2100     91  16.1  98.4    3.0 +  4.0  ( 99.4)    136  ( 11.2)      12              110.6      3    119  14
  317     318   2100    130  16.1 503.2    6.0 + 38.5  (631.2)    244  ( 24.9)      49     +        656.2      3    119  12
  318     119   2053     50   2.6  60.7    1.5 +  0.5  ( 28.5)    109  (  4.2)       4               32.7      3    119  12
  321     500   2233f    50  15.0  20.3    2.3 +  0.5  ( 40.0)     71  ( 11.3)      13               51.3      3     57 110
  322     500   2100     53  15.0  19.5    2.2 +  0.6  ( 38.5)     68  ( 10.9)      13               49.4      3     57 110
```

323	333	2075	36	15.0	13.5	1.0 +	0.3	(17.7)	44	(4.7)	6		22.4	3	57	110		
324	430	3300f	130	4.1	493.1	6.8 +	52.1	(836.3)	244	(33.7)	67	+	870.0	3	57	68		
326	305	2150	65	15.0	54.0	3.6 +	0.9	(64.9)	97	(9.5)	10		74.4	3	24	49		
327	338	2150	73	15.0	57.5	4.1 +	1.3	(76.7)	101	(10.9)	12		87.6	3	24	49		
328	192	1999	44	3.0	48.2	2.2 +	0.4	(36.5)	89	(5.5)	6		42.0	3	24	49		
411	522<	1965	35	15.0	5.5	0.5 +	0.3	(11.4)	23	(4.0)	5		15.4	4	37	7		
412	389	2105	24	15.0	6.5	0.5 +	0.2	(9.9)	24	(3.0)	3		12.9	4	37	7		
413	166	2105	10	15.0	7.4	0.3 +	0.1	(4.8)	31	(1.6)	2		6.5	4	37	7		
414	204	2000	82	4.5	96.2	3.4 +	2.0	(77.4)	128	(8.4)	9		85.8	4	117	11		
415	293	1807	59	15.0	46.4	3.1 +	0.7	(53.6)	90	(8.5)	9		62.1	4	119	31		
416	169	1915	53	15.0	57.6	2.1 +	0.6	(38.4)	98	(5.3)	6		43.7	4	12	31		
417	200	1786	18	3.8	11.5	0.5 +	0.1	(9.1)	40	(2.6)	3		11.7	4	38	112		

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	MEAN TIMES PER PCU DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
418	412	2200	30	15.0	12.3	1.2 +	0.2	(19.9)	44	(5.9)	7		25.8	4	38	112		
419	642	2095	49	15.0	14.9	2.2 +	0.5	(37.6)	52	(10.7)	12		48.4	4	38	112		
420	416	2095	32	6.0	12.6	1.2 +	0.2	(20.6)	45	(6.0)	7		26.6	4	38	112		
511	33	1854	18	7.5	34.3	0.2 +	0.1	(4.5)	118	(1.2)	1		5.7	5	26	36	86	96
512	662	2113	63	15.0	16.4	2.2 +	0.8	(42.9)	72	(15.3)	11		58.3	5	101	1	41	79
513	113	1800	38	3.8	26.8	0.5 +	0.3	(11.9)	99	(3.6)	2		15.6	5	101	3	41	81
514	62	1769	23	15.0	31.4	0.4 +	0.2	(7.7)	95	(1.9)	1		9.6	5	26	34	86	94
515	732	4010	36	16.1	5.2	0.8 +	0.3	(14.9)	32	(7.6)	6		22.4	5	101	1	41	79
-1001	292	4000	7	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
-1002	809	4000	20	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		1.9					
-1003	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	372	4000	9	15.0	0.5	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8					
-1111	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	50	97		
-1112	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	1	108	115		
-1113	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1114	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1115	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	1	106	75		
-1116	10	10000	0	3.6	30.7	0.1 +	0.0	(1.2)	70	(0.0)	0		1.2	1	81	115		
-2001	368	4000	9	15.0	0.5	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8					
-2002	66	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	46	108		
-2112	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	2	20	40		
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	25	55		
-2115	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	113	55		
-2116	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	114	57		
-2117	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	2	63	108		
-3001	682<	4000	17	3.8	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-3002	1027<	4000	26	15.0	0.6	0.0 +	0.2	(2.5)	0	(0.2)	0		2.6					
-3111	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	76	(0.0)	0		1.4	3	115	22		
-3112	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	3	71	50		
-3113	10	10000	0	3.6	32.9	0.1 +	0.0	(1.3)	72	(0.0)	0		1.3	3	25	56		
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	54	14		
-3115	10	10000	0	3.6	7.4	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	3	77	111	23	49
-3116	10	10000	0	3.6	16.4	0.0 +	0.0	(0.6)	50	(0.0)	0		0.7	3	117	54		
-3117	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	0	17		
-3118	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	3	17	109		
-3119	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	2	19		
-4001	607<	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
-4002	445	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-4003	194	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-4004	404	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.9					
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	12	25		
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	16	25		
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	7	25		
-4114	10	10000	0	3.6	8.3	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	4	36	112		
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	36	7		
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	18	25		
-5001	732	4000	18	15.0	0.6	0.0 +	0.1	(1.6)	0	(0.1)	0		1.7					
-5002	31	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	154	4000	4	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
-5111	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	8	19		

*** f - average saturation flow for flared link ***

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
4231.1	300.9	14.1	93.6	119.2	(3021.2) +	(348.9) +	(0.0) =	3370.2	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	288.9	+	248.0	+	159.5	=	696.4

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 94

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	4	115	44	75	97	
2	4	55	108	20	39	
3	4	48	66	109	12	
4	3	25	112	7		
5	5	94	1	19	34	79

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
4231.1	300.9	14.1	93.6	119.2	(3021.2) +	(348.9) +	(0.0) =	3370.2	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 517

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

```
    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  521
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18
 - (SECONDS)

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  558
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48
 - (SECONDS)

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  558
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18
 - (SECONDS)

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  572
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18   1
 - (SECONDS)

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
    5       5      94       1      19      34      79

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  693
.

    120 SECOND CYCLE  60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   18  48  18  48  18   1   1
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5       6       7       8       9      10

    1       4     115      44      75      97
    2       4      55     108      20      39
    3       4      48      66     109      12
    4       3      25     112       7
```

5 5 94 1 19 34 79

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER PCU CRUISE (SEC)	TIMES DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND	END
111	514	1975	71	15.0	41.0	4.6 +	1.2	(83.1)	89	(14.6)	16		97.7	1	1	44	
112	513	2095	67	15.0	38.9	4.5 +	1.0	(78.6)	86	(14.1)	15		92.8	1	1	44	
114	12	1955	8	15.0	64.7	0.2 +	0.0	(3.1)	100	(0.4)	0		3.4	1	107	115	
115	10	1955	6	15.0	60.1	0.1 +	0.0	(2.4)	97	(0.3)	0		2.7	1	105	115	
116	10	1955	6	15.0	60.1	0.1 +	0.0	(2.4)	97	(0.3)	0		2.7	1	105	115	
117	10	2055	1	5.3	24.8	0.1 +	0.0	(1.0)	81	(0.3)	0		1.2	1	1	75	
118	738	2250	55	62.3	6.8	0.8 +	0.6	(19.8)	25	(5.9)	8		25.8	1	4	75	
119	292	2095	23	62.3	3.7	0.1 +	0.2	(4.3)	12	(1.1)	1		5.4	1	4	75	
120	307	2000	71	5.3	80.1	5.6 +	1.2	(96.9)	93	(9.1)	9		106.0	1	50	75	
121	178	1895	70	15.0	73.2	2.5 +	1.2	(51.4)	111	(6.4)	7		57.7	1	82	97	
122	59	1915	23	4.9	55.8	0.8 +	0.2	(13.0)	94	(1.8)	2		14.8	1	82	97	
211	679	1932	55	62.2	16.6	2.5 +	0.6	(44.5)	76	(16.6)	19		61.1	2	65	20	
212	364	2075	28	62.3	3.9	0.2 +	0.2	(5.6)	23	(2.7)	4		8.3	2	65	20	
213	149	1741	38	2.6	42.8	1.5 +	0.3	(25.1)	47	(2.3)	2		27.4	2	114	20	
214	101	1967	13	15.0	26.8	0.7 +	0.1	(10.7)	64	(2.1)	2		12.7	2	116	41	
215	273	3000	68	15.0	63.5	3.8 +	1.1	(68.4)	104	(9.1)	10		77.5	2	26	41	
217	207	1832	29	3.0	11.2	0.4 +	0.2	(9.2)	49	(3.3)	4		12.5	2	63	109	
218	598	2000	82	26.3	33.8	3.5 +	2.1	(79.7)	79	(15.1)	17		94.8	2	65	108	
219	599	2400	68	26.3	23.9	2.9 +	1.1	(56.5)	32	(6.2)	6		62.6	2	65	108	
220	60	1882	38	7.5	70.6	0.9 +	0.3	(16.7)	106	(2.0)	2		18.8	2	46	55	
221	24	1915	29	3.0	50.3	0.1 +	0.2	(4.8)	112	(0.9)	1		5.6	2	65	110	
311	345	715	61	4.5	9.9	0.2 +	0.8	(13.5)	53	(5.9)	8	+	19.4				
312	317	1925	47	26.3	28.9	2.1 +	0.4	(36.2)	85	(8.6)	9		44.8	3	71	112	
313	317	2085	43	26.3	34.7	2.7 +	0.4	(43.4)	51	(5.2)	5		48.6	3	71	112	
314	212	2085	29	11.3	13.5	0.6 +	0.2	(11.3)	18	(1.2)	1		12.6	3	71	112	
315	81	1837	27	3.8	16.4	0.2 +	0.2	(5.2)	43	(1.1)	1		6.4	3	71	114	
316	256	2100	91	16.1	98.4	3.0 +	4.0	(99.4)	136	(11.2)	12		110.6	3	119	14	
317	318	2100	130	16.1	503.2	6.0 +	38.5	(631.2)	244	(24.9)	49	+	656.2	3	119	12	
318	119	2053	50	2.6	60.7	1.5 +	0.5	(28.5)	109	(4.2)	4		32.7	3	119	12	
321	500	2233f	50	15.0	20.3	2.3 +	0.5	(40.0)	71	(11.3)	13		51.3	3	57	110	
322	500	2100	53	15.0	19.5	2.2 +	0.6	(38.5)	68	(10.9)	13		49.4	3	57	110	
323	333	2075	36	15.0	13.5	1.0 +	0.3	(17.7)	44	(4.7)	6		22.4	3	57	110	
324	430	3300f	130	4.1	493.1	6.8 +	52.1	(836.3)	244	(33.7)	67	+	870.0	3	57	68	
326	305	2150	65	15.0	54.0	3.6 +	0.9	(64.9)	97	(9.5)	10		74.4	3	24	49	
327	338	2150	73	15.0	57.5	4.1 +	1.3	(76.7)	101	(10.9)	12		87.6	3	24	49	
328	192	1999	44	3.0	48.2	2.2 +	0.4	(36.5)	89	(5.5)	6		42.0	3	24	49	
411	522<	1965	35	15.0	5.5	0.5 +	0.3	(11.4)	23	(4.0)	5		15.4	4	37	7	
412	389	2105	24	15.0	6.5	0.5 +	0.2	(9.9)	24	(3.0)	3		12.9	4	37	7	
413	166	2105	10	15.0	7.4	0.3 +	0.1	(4.8)	31	(1.6)	2		6.5	4	37	7	
414	204	2000	82	4.5	96.2	3.4 +	2.0	(77.4)	128	(8.4)	9		85.8	4	117	11	
415	293	1807	59	15.0	46.4	3.1 +	0.7	(53.6)	90	(8.5)	9		62.1	4	119	31	
416	169	1915	53	15.0	57.6	2.1 +	0.6	(38.4)	98	(5.3)	6		43.7	4	12	31	
417	200	1786	18	3.8	11.5	0.5 +	0.1	(9.1)	40	(2.6)	3		11.7	4	38	112	

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER PCU CRUISE (SEC)	TIMES DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND	END
418	412	2200	30	15.0	12.3	1.2 +	0.2	(19.9)	44	(5.9)	7		25.8	4	38	112	
419	642	2095	49	15.0	14.9	2.2 +	0.5	(37.6)	52	(10.7)	12		48.4	4	38	112	
420	416	2095	32	6.0	12.6	1.2 +	0.2	(20.6)	45	(6.0)	7		26.6	4	38	112	
511	33	1854	18	7.5	34.3	0.2 +	0.1	(4.5)	118	(1.2)	1		5.7	5	26	36	86 96
512	662	2113	63	15.0	16.4	2.2 +	0.8	(42.9)	72	(15.3)	11		58.3	5	101	1	41 79
513	113	1800	38	3.8	26.8	0.5 +	0.3	(11.9)	99	(3.6)	2		15.6	5	101	3	41 81
514	62	1769	23	15.0	31.4	0.4 +	0.2	(7.7)	95	(1.9)	1		9.6	5	26	34	86 94
515	732	4010	36	16.1	5.2	0.8 +	0.3	(14.9)	32	(7.6)	6		22.4	5	101	1	41 79
-1001	292	4000	7	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6				
-1002	809	4000	20	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		1.9				
-1003	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1				
-1004	372	4000	9	15.0	0.5	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8				
-1111	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	50	97	
-1112	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	1	108	115	
-1113	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97	
-1114	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97	
-1115	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	1	106	75	
-1116	10	10000	0	3.6	30.7	0.1 +	0.0	(1.2)	70	(0.0)	0		1.2	1	81	115	
-2001	368	4000	9	15.0	0.5	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8				
-2002	66	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1				
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	46	108	
-2112	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	2	20	40	
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	25	55	
-2115	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	113	55	
-2116	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	114	57	
-2117	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	2	63	108	
-3001	682<	4000	17	3.8	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6				
-3002	1027<	4000	26	15.0	0.6	0.0 +	0.2	(2.5)	0	(0.2)	0		2.6				
-3111	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	76	(0.0)	0		1.4	3	115	22	
-3112	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	3	71	50	
-3113	10	10000	0	3.6	32.9	0.1 +	0.0	(1.3)	72	(0.0)	0		1.3	3	25	56	
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	54	14	
-3115	10	10000	0	3.6	7.4	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	3	77	111	23 49
-3116	10	10000	0	3.6	16.4	0.0 +	0.0	(0.6)	50	(0.0)	0		0.7	3	117	54	
-3117	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	0	17	
-3118	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	3	17	109	
-3119	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	2	19	
-4001	607<	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4				
-4002	445	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9				
-4003	194	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4				
-4004	404	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.9				
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	12	25	
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	16	25	
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	7	25	
-4114	10	10000	0	3.6	8.3	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	4	36	112	
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	36	7	
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	18	25	
-5001	732	4000	18	15.0	0.6	0.0 +	0.1	(1.6)	0	(0.1)	0		1.7				
-5002	31	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1				
-5003	154	4000	4	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3				
-5111	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	8	19	

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)

```
  4231.1         300.9       14.1         93.6    119.2    (3021.2) + (  348.9)  +  (   0.0)   =    3370.2      TOTALS
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE

*************************************************************************************************************************
                                  CRUISE              DELAY              STOPS              TOTALS
                               LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR

FUEL CONSUMPTION PREDICTIONS       288.9         +     248.0         +     159.5         =     696.4

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  693

PROGRAM TRANSYT FINISHED
```

2020 Edge Lane AM Peak - Base

PRT File
2020 AM Peak : 07:45 - 08:45

1 ________________ T R A N S Y T 12 ________________

Traffic Network Study Tool

Analysis Program Release 5 (January 2007)

For sales and distribution information,
program advice and maintenance, contact:

TRL Limited — Tel: +44 (0) 1344 770758
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

Run with file:- "2020 AM PEAK BASE.DAT" at 16:11 on 20100929

TRANSYT 12.0

Edge Lane - AM Peak

PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :

NUMBER OF NODES	=	5
NUMBER OF LINKS	=	94
NUMBER OF OPTIMISED NODES	=	5
MAXIMUM NUMBER OF GRAPHIC PLOTS	=	0
NUMBER OF STEPS IN CYCLE	=	60
MAXIMUM NUMBER OF SHARED STOPLINES	=	0
MAXIMUM NUMBER OF TIMING POINTS	=	5
MAXIMUM LINKS AT ANY NODE	=	23

CORE REQUESTED = 17563 WORDS
CORE AVAILABLE = 96000 WORDS
.

DATA INPUT :-

CARD NO. / CARD TYPE
(1)= TITLE:- Edge Lane - AM Peak

CARD NO.	CARD TYPE	CYCLE TIME (SEC)	NO. OF STEPS PER CYCLE	TIME PERIOD 1-1200 MINS.	EFFECTIVE-GREEN DISPLACEMENTS START (SEC)	END (SEC)	EQUISAT SETTINGS 0=NO 1=YES	0=UNEQUAL CYCLE 1=EQUAL CYCLE	FLOW SCALE 10-200 %	CRUISE-SPEEDS SCALE 50-200 %	CARD32 0=TIMES 1=SPEEDS	OPTIMISE 0=NONE 1=O/SET 2=FULL	EXTRA COPIES FINAL OUTPUT	HILL-CLIMB OUTPUT 1=FULL	DELAY VALUE P PER PCU-H	STOP VALUE P PER 100
2)=	1	120	60	60	2	3	1	1	100	100	1	1	0	0	1420	260

CARD NO.	CARD TYPE	LIST OF NODES TO BE OPTIMISED														
3)=	2	1	2	3	4	5	0	0	0	0	0	0	0	0	0	0

NODE CARDS: MINIMUM STAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
4)=	10	1	9	30	16	18	6					
5)=	10	2	59	23	14							
6)=	10	3	13	34	8	19						
7)=	10	4	71	8	10							
8)=	10	5	14	11	14	32	14					

NODE CARDS: PRECEDING INTERSTAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
9)=	11	1	7	10	6	7	11					
10)=	11	2	10	8	6							
11)=	11	3	9	11	13	13						
12)=	11	4	13	7	11							
13)=	11	5	7	7	7	7	7					

NODE CARDS: STAGE CHANGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	Sgl/Dbl Cycled	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
14)=	12	1	1	102	118	38	60	85					
15)=	12	2	1	45	114	25							
16)=	12	3	1	42	64	109	10						
17)=	12	4	1	21	105	0							
18)=	12	5	1	97	118	16	37	76					

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 ONLY % FLOW	GIVEWAY COEFFS. A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
19)=	30	221	211	0	0	50	0	0	0	0	0	40	0	1000	0	0
20)=	30	311	-3001	0	0	22	0	0	0	0	0	60	0	715	0	0
21)=	30	315	321	0	0	50	0	0	0	0	0	50	0	1000	0	0
22)=	30	414	418	0	0	50	0	0	0	0	0	60	0	1000	0	0
23)=	30	511	514	0	0	50	0	0	0	0	0	100	0	1000	0	0
24)=	30	513	515	0	0	50	0	0	0	0	0	50	0	1000	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	FIRST GREEN START STAGE	LAG	FIRST GREEN END STAGE	LAG	SECOND GREEN START STAGE	LAG	SECOND GREEN END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
25)=	31	111	1	1	6	3	0	0	0	0	0	200	0	1975	0	0
26)=	31	112	1	1	6	3	0	0	0	0	0	200	0	2095	0	0
27)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
28)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
29)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
30)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
31)=	31	117	1	2	9	4	0	0	0	0	0	70	0	2055	0	0
32)=	31	118	1	2	9	4	0	0	0	0	0	830	0	2250	0	0

33)=	31	119	1	2	9	4	0	0	0	0	0	830	0	2095	0	0
34)=	31	120	1	3	6	4	0	0	0	0	0	70	0	2000	0	0
35)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
36)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
37)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
38)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
39)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
40)=	31	214	2	2	8	1	5	0	0	0	0	200	0	1967	0	0
41)=	31	215	2	3	6	1	3	0	0	0	0	200	0	2015	0	0
42)=	31	217	2	1	6	2	1	0	0	0	0	40	0	1832	0	0
43)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
44)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
45)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
46)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
47)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
48)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
49)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
50)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
51)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
52)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
53)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
54)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
56)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
57)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
58)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
60)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
61)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
62)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
64)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
65)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
66)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
67)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
68)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
69)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
70)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
71)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
72)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
73)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
74)=	31	515	5	1	7	2	0	4	7	5	0	215	0	4010	0	0
75)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
76)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
80)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
84)=	31	-1116	1	4	6	2	0	0	0	0	0	10	0	10000	0	0
85)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
86)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2111	2	1	10	2	0	0	0	0	0	10	0	10000	0	0
88)=	31	-2112	2	3	0	1	3	0	0	0	0	10	0	10000	0	0
89)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
90)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2116	2	2	6	1	0	0	0	0	0	10	0	10000	0	0
92)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
93)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
94)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
95)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
96)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
97)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
98)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
99)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
100)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
101)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
102)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
103)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
104)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
105)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
109)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
115)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
118)=	32	111	574	0	0	0	48	0	0	0	0	0	0	0	0	0
119)=	32	112	790	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	113	42	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	114	10	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	115	10	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	116	10	0	0	0	48	0	0	0	0	0	0	0	0	0
124)=	32	117	22	0	218	22	48	0	0	0	0	0	0	0	0	0
125)=	32	118	700	0	214	73	48	218	1052	48	0	0	0	0	0	0
126)=	32	119	833	0	219	833	48	0	0	0	0	0	0	0	0	0
127)=	32	120	241	0	219	241	48	0	0	0	0	0	0	0	0	0
128)=	32	121	237	0	0	0	48	0	0	0	0	0	0	0	0	0
129)=	32	122	174	0	0	0	48	0	0	0	0	0	0	0	0	0
130)=	32	211	702	0	111	543	48	116	10	48	121	219	48	0	0	0
131)=	32	212	702	0	112	702	48	0	0	0	0	0	0	0	0	0
132)=	32	213	88	0	112	88	48	0	0	0	0	0	0	0	0	0
133)=	32	214	73	0	0	0	48	0	0	0	0	0	0	0	0	0
134)=	32	215	108	0	0	0	48	0	0	0	0	0	0	0	0	0
135)=	32	217	146	0	321	133	48	327	13	48	0	0	0	0	0	0
136)=	32	218	1074	0	316	55	48	321	211	48	322	624	48	328	184	48
137)=	32	219	1074	0	322	399	48	323	674	48	0	0	0	0	0	0
138)=	32	221	10	0	323	10	48	0	0	0	0	0	0	0	0	0
139)=	32	311	177	0	211	155	48	215	12	48	0	0	0	0	0	0
140)=	32	312	468	0	211	372	48	215	86	48	0	0	0	0	0	0
141)=	32	313	468	0	211	165	48	212	307	48	0	0	0	0	0	0
142)=	32	314	312	0	212	312	48	0	0	0	0	0	0	0	0	0
143)=	32	315	83	0	212	83	48	0	0	0	0	0	0	0	0	0
144)=	32	316	232	0	511	10	48	512	237	48	514	47	48	0	0	0
145)=	32	317	337	0	512	337	48	0	0	0	0	0	0	0	0	0
146)=	32	318	158	0	512	158	48	0	0	0	0	0	0	0	0	0
147)=	32	321	1023	0	415	123	48	418	900	48	0	0	0	0	0	0
148)=	32	322	1023	0	415	82	48	419	941	48	0	0	0	0	0	0
149)=	32	323	684	0	419	410	48	420	274	48	0	0	0	0	0	0
150)=	32	324	478	0	415	205	48	420	273	48	0	0	0	0	0	0

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151)=  32     326     491       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     327     504       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     328     184       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     411     737       0     312     468      48     317     159      48     326     110      48       0       0       0
155)=  32     412     563       0     313     468      48     318      95      48       0       0       0       0       0       0
156)=  32     413     292       0     314     229      48     318      63      48       0       0       0       0       0       0
157)=  32     414     193       0     314      83      48     326     110      48       0       0       0       0       0       0
158)=  32     415     410       0       0       0      48       0       0       0       0       0       0       0       0       0
159)=  32     416     383       0       0       0      48       0       0       0       0       0       0       0       0       0
160)=  32     417     415       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     418     900       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     419    1351       0       0       0      48       0       0       0       0       0       0       0       0       0
163)=  32     420     547       0       0       0      48       0       0       0       0       0       0       0       0       0
164)=  32     511      33       0       0       0      48       0       0       0       0       0       0       0       0       0
165)=  32     512     742       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     513      48       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     514     428       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     515    1674       0     315      83      48     321     679      48     326     271      48     327     491      48
169)=  32   -1001     833       0     119     833      48       0       0       0       0       0       0       0       0       0
170)=  32   -1002     884       0     114      10      48     118     700      48     122     174      48       0       0       0
171)=  32   -1003      82       0     113      42      48     117      22      48     121      18      48       0       0       0
172)=  32   -1004     282       0     111      31      48     115      10      48     120     241      48       0       0       0
173)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
174)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
175)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
176)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
177)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
178)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
179)=  32   -2001     244       0     213      88      48     217     146      48       0       0       0       0       0       0
180)=  32   -2002      30       0     211      10      48     215      10      48     221      10      48       0       0       0
181)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
182)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
183)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
184)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
185)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
186)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
187)=  32   -3001     833       0     316     177      48     317     178      48     324     478      48       0       0       0
188)=  32   -3002    1010       0     311     177      48   -3001     833      48       0       0       0       0       0       0
189)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
190)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
191)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
192)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
193)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
194)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
195)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
196)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
197)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
198)=  32   -4001     929       0     411     737      48     416     192      48       0       0       0       0       0       0
199)=  32   -4002     691       0     412     563      48     416     128      48       0       0       0       0       0       0
200)=  32   -4003     355       0     413     292      48     416      63      48       0       0       0       0       0       0
201)=  32   -4004     608       0     414     193      48     417     415      48       0       0       0       0       0       0
202)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
203)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
204)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
205)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
206)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
207)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
208)=  32   -5001    2006       0     511      13      48     514     371      48     515    1622      48       0       0       0
209)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
210)=  32   -5003     100       0     511      10      48     513      48      48     515      42      48       0       0       0
211)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                      LINK CARDS : FLARE SATURATION FLOW DATA
                     ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
      TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
212)= 33     321    2100       2     0       0       0       0
213)= 33     324    1900       4     0       0       0       0

*****END OF SUBROUTINE TINPUT*****
.

    120 SECOND CYCLE  60 STEPS

INITIAL SETTINGS
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

 LINK    FLOW   SAT   DEGREE  MEAN TIMES  -------DELAY--------   ----STOPS----   ----QUEUE----  PERFORMANCE   EXIT   GREEN TIMES
NUMBER   INTO   FLOW    OF      PER PCU    UNIFORM RANDOM+ COST    MEAN    COST    MEAN              INDEX.      NODE   START  START
         LINK          SAT     CRUISE              OVERSAT  OF    STOPS    OF    MAX.  AVERAGE  WEIGHTED SUM              END    END
                              DELAY   (U+R+O=MEAN Q) DELAY   /PCU   STOPS          EXCESS  OF ( ) VALUES          1ST    2ND
       (PCU/H) (PCU/H)  (%)  (SEC) (SEC)   (PCU-H/H)  ($/H)   (%)   ($/H)  (PCU)  (PCU)     ($/H)                (SECONDS)

  111     574   1975     68  15.0  34.7    4.5 +  1.1  ( 78.6)    82  ( 15.2)     17              93.8      1    108  38
  112     790   2095     89  15.0  48.6    7.0 +  3.7  (151.3)   101  ( 25.6)     28             177.0      1    108  38
  113      42   1955     26   4.5  66.3    0.6 +  0.2  ( 11.0)   102  (  1.4)      1              12.4      1    109 118
  114      10   1955      3  15.0  43.1    0.1 +  0.0  (  1.7)    81  (  0.3)      0               2.0      1     95 118
  115      10   1955      6  15.0  62.2    0.1 +  0.0  (  2.5)    98  (  0.3)      0               2.8      1     93 102
  116      10   1955      6  15.0  62.2    0.1 +  0.0  (  2.5)    98  (  0.3)      0               2.8      1     93 102
  117      20   2055      2   5.3  37.4    0.2 +  0.0  (  2.9)    90  (  0.6)      1               3.6      1      7  60
  118    655<   2250     65  62.3  16.8    2.1 +  0.9  ( 43.3)    49  ( 11.0)     13              54.3      1      7  60
  119    791<   2095     84  62.3  23.5    2.6 +  2.5  ( 73.2)    73  ( 19.5)     24              92.6      1      7  60
  120    228<   2000     81   5.3 108.7    4.9 +  1.9  ( 97.8)   115  (  8.9)      9             106.7      1     44  60
  121     237   1895     79  15.0  75.6    3.2 +  1.8  ( 70.7)   114  (  8.7)      9              79.4      1     67  85
  122     174   1915     57   4.9  60.5    2.3 +  0.7  ( 41.5)   101  (  5.6)      6              47.2      1     67  85
  211     702   1932     48  62.2   7.5    1.0 +  0.5  ( 20.7)    47  ( 10.6)     13              31.3      2     55  25
  212     702   2075     45  62.3   4.5    0.5 +  0.4  ( 12.5)    32  (  7.3)     11              19.8      2     55  25
  213      88   1741     23   2.6  27.4    0.5 +  0.2  (  9.5)    47  (  1.3)      2              10.8      2      0  25
  214      73   1967      9  15.0  24.4    0.4 +  0.0  (  7.0)    61  (  1.4)      2               8.4      2      2  50
  215     108   2015     36  15.0  55.0    1.4 +  0.3  ( 23.4)    95  (  3.3)      3              26.7      2     31  48
  217     143   1832     14   3.0   3.3    0.0 +  0.1  (  1.8)     8  (  0.4)      0               2.2      2     51 115
  218    1034<  2000    103  26.3 115.4    6.6 + 26.5  (470.7)   144  ( 49.5)     62             520.3      2     55 114
  219    1020<  2400     85  26.3  25.7    4.5 +  2.7  (103.4)    37  ( 12.7)     13             116.0      2     55 114
  221       9   1915      4   3.0   8.0    0.0 +  0.0  (  0.3)    10  (  0.0)      0               0.3      2     55 116
  311     177    715     31   4.5   7.0    0.1 +  0.2  (  4.9)    44  (  2.5)      3               7.4
  312     468   1925     66  26.3  27.4    2.6 +  1.0  ( 50.6)    63  (  9.5)     11              60.2      3     69 112
  313     469   2085     61  26.3  26.0    2.6 +  0.8  ( 48.1)    41  (  6.1)      6              54.2      3     69 112
  314     311   2085     41  11.3  12.6    0.7 +  0.3  ( 15.4)    29  (  2.9)      4              18.3      3     69 112
  315      83   1837     82   3.8 115.7    0.8 +  1.9  ( 37.9)   154  (  4.1)      5              42.0      3     69 114
  316     232   2100     95  16.1 119.3    2.7 +  5.0  (109.2)   147  ( 11.0)     13             120.2      3    119  12
  317     337   2100    160  16.1 777.7    8.1 + 64.7  (999.9)   251  ( 27.2)     77     +       1060.9      3    119  10
  318     157   2053     77   2.6  79.6    1.9 +  1.5  ( 49.3)   125  (  6.3)      7              55.6      3    119  10
  321    1023   2220f    92  15.0  33.8    4.4 +  5.2  (136.3)   100  ( 32.7)     37             169.1      3     51 110
  322     957<  2100     91  15.0  32.8    4.1 +  4.7  (124.0)    73  ( 24.0)     29             148.0      3     51 110
```

323	656<	2075	63	15.0	13.7	1.6	+	0.9	(35.3)	42	(9.2)	12		44.5	3	51	110		
324	479	3000f	120	4.1	367.8	6.8	+	42.1	(694.8)	230	(35.4)	58	+	730.2	3	51	66		
326	491	2150	125	15.0	438.7	9.0	+	50.8	(849.6)	238	(37.5)	68	+	887.1	3	22	43		
327	504	2150	128	15.0	475.8	9.5	+	57.1	(945.8)	242	(39.1)	75	+	984.9	3	22	43		
328	184	1999	50	3.0	53.9	2.3	+	0.5	(39.1)	94	(5.6)	6		44.7	3	22	43		
411	656<	1965	46	15.0	6.9	0.8	+	0.4	(17.8)	22	(5.3)	6		23.1	4	33	0		
412	563	2105	36	15.0	8.3	1.0	+	0.3	(18.4)	29	(5.3)	6		23.7	4	33	0		
413	291	2105	19	15.0	6.7	0.4	+	0.1	(7.6)	28	(2.6)	3		10.3	4	33	0		
414	171<	2000	79	4.5	88.9	2.5	+	1.7	(60.0)	113	(7.0)	7		67.0	4	110	2		
415	410	1807	76	15.0	51.4	4.3	+	1.5	(83.1)	98	(12.9)	14		95.9	4	112	27		
416	383	1915	104	15.0	189.6	5.6	+	14.6	(286.4)	182	(22.3)	27		308.7	4	5	27		
417	415	1786	39	3.8	15.3	1.4	+	0.3	(25.0)	51	(6.8)	7		31.7	4	34	105		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	DELAY UNIFORM (U+R+O=MEAN Q)	RANDOM+ OVERSAT	COST OF DELAY	STOPS MEAN /PCU	STOPS COST OF STOPS	QUEUE MEAN MAX.	QUEUE AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN TIMES START 1ST END	GREEN TIMES START 2ND END
	(PCU/H)	(PCU/H)	(%)	(SEC)	(SEC)	(PCU-H/H)		($/H)	(%)	($/H)	(PCU)	(PCU)	($/H)		(SECONDS)	
418	900	2200	68	15.0	20.5	4.1	+ 1.1	(72.8)	66	(19.2)	21		92.0	4	34 105	
419	1351	2095	107	15.0	169.5	10.3	+ 53.3	(903.4)	182	(78.7)	100	+	982.1	4	34 105	
420	547	2095	44	6.0	15.5	2.0	+ 0.4	(33.5)	53	(9.2)	10		42.7	4	34 105	
511	33	1854	34	7.5	48.9	0.2	+ 0.3	(6.4)	163	(1.7)	1		8.1	5	23 39	83 99
512	742	2113	88	15.0	34.1	3.6	+ 3.4	(99.7)	109	(26.0)	18		125.7	5	104 118	44 76
513	48	1800	70	3.8	111.3	0.4	+ 1.1	(21.1)	192	(3.0)	2		24.0	5	104 0	44 78
514	428	1769	97	15.0	84.3	2.6	+ 7.4	(142.3)	172	(23.7)	14		166.0	5	23 37	83 97
515	1498<	4010	93	16.1	29.5	6.0	+ 6.3	(174.5)	98	(52.7)	36		227.2	5	104 118	44 76
-1001	791<	4000	20	15.0	0.6	0.0	+ 0.1	(1.8)	0	(0.1)	0		1.9			
-1002	839<	4000	21	15.0	0.6	0.0	+ 0.1	(1.9)	0	(0.1)	0		2.0			
-1003	80	4000	2	15.0	0.5	0.0	+ 0.0	(0.1)	0	(0.0)	0		0.2			
-1004	269<	4000	7	15.0	0.5	0.0	+ 0.0	(0.5)	0	(0.0)	0		0.5			
-1111	10	10000	0	3.6	26.5	0.1	+ 0.0	(1.0)	64	(0.0)	0		1.1	1	44 85	
-1112	10	10000	1	3.6	41.0	0.1	+ 0.0	(1.6)	81	(0.0)	0		1.6	1	96 118	
-1113	10	10000	0	3.6	6.6	0.0	+ 0.0	(0.3)	31	(0.0)	0		0.3	1	4 85	
-1114	10	10000	0	3.6	2.4	0.0	+ 0.0	(0.1)	18	(0.0)	0		0.1	1	108 85	
-1115	10	10000	0	3.6	8.0	0.0	+ 0.0	(0.3)	47	(0.0)	0		0.3	1	8 60	94 102
-1116	10	10000	0	3.6	19.7	0.1	+ 0.0	(0.8)	55	(0.0)	0		0.8	1	66 118	
-2001	241	4000	6	15.0	0.5	0.0	+ 0.0	(0.5)	0	(0.0)	0		0.5			
-2002	29	4000	1	15.0	0.5	0.0	+ 0.0	(0.1)	0	(0.0)	0		0.1			
-2111	10	10000	0	3.6	15.4	0.0	+ 0.0	(0.6)	49	(0.0)	0		0.6	2	55 114	
-2112	10	10000	1	3.6	39.3	0.1	+ 0.0	(1.6)	79	(0.0)	0		1.6	2	25 48	
-2113	10	10000	1	3.6	47.3	0.1	+ 0.0	(1.9)	87	(0.0)	0		1.9	2	30 45	
-2115	10	10000	0	3.6	22.7	0.1	+ 0.0	(0.9)	59	(0.0)	0		0.9	2	119 45	
-2116	10	10000	0	3.6	23.9	0.1	+ 0.0	(0.9)	61	(0.0)	0		1.0	2	0 45	
-2117	10	10000	0	3.6	14.4	0.0	+ 0.0	(0.6)	47	(0.0)	0		0.6	2	53 114	
-3001	687<	4000	17	3.8	0.5	0.0	+ 0.1	(1.5)	0	(0.1)	0		1.6			
-3002	864<	4000	22	15.0	0.6	0.0	+ 0.1	(2.0)	0	(0.1)	0		2.1			
-3111	10	10000	0	3.6	37.7	0.1	+ 0.0	(1.5)	77	(0.0)	0		1.5	3	115 20	
-3112	10	10000	0	3.6	2.6	0.0	+ 0.0	(0.1)	18	(0.0)	0		0.1	3	69 44	
-3113	10	10000	0	3.6	36.0	0.1	+ 0.0	(1.4)	76	(0.0)	0		1.4	3	23 50	
-3114	10	10000	0	3.6	5.7	0.0	+ 0.0	(0.2)	28	(0.0)	0		0.2	3	48 12	
-3115	10	10000	0	3.6	7.9	0.0	+ 0.0	(0.3)	47	(0.0)	0		0.3	3	75 111	21 43
-3116	10	10000	0	3.6	19.7	0.1	+ 0.0	(0.8)	55	(0.0)	0		0.8	3	117 48	
-3117	10	10000	1	3.6	47.3	0.1	+ 0.0	(1.9)	87	(0.0)	0		1.9	3	0 15	
-3118	10	10000	0	3.6	2.8	0.0	+ 0.0	(0.1)	19	(0.0)	0		0.1	3	15 109	
-3119	10	10000	1	3.6	47.3	0.1	+ 0.0	(1.9)	87	(0.0)	0		1.9	3	2 17	
-4001	840<	4000	21	15.0	0.6	0.0	+ 0.1	(1.9)	0	(0.1)	0		2.0			
-4002	686	4000	17	15.0	0.5	0.0	+ 0.1	(1.5)	0	(0.1)	0		1.6			
-4003	351	4000	9	15.0	0.5	0.0	+ 0.0	(0.7)	0	(0.0)	0		0.7			
-4004	586<	4000	15	15.0	0.5	0.0	+ 0.1	(1.2)	0	(0.1)	0		1.3			
-4111	10	10000	1	3.6	45.5	0.1	+ 0.0	(1.8)	85	(0.0)	0		1.8	4	5 21	
-4112	10	10000	1	3.6	49.4	0.1	+ 0.0	(1.9)	89	(0.0)	0		2.0	4	9 21	
-4113	10	10000	1	3.6	41.8	0.1	+ 0.0	(1.6)	82	(0.0)	0		1.7	4	0 21	
-4114	10	10000	0	3.6	9.5	0.0	+ 0.0	(0.4)	38	(0.0)	0		0.4	4	32 105	
-4115	10	10000	0	3.6	4.5	0.0	+ 0.0	(0.2)	25	(0.0)	0		0.2	4	32 0	
-4116	10	10000	1	3.6	51.5	0.1	+ 0.0	(2.0)	91	(0.0)	0		2.0	4	11 21	
-5001	1834<	4000	46	15.0	0.8	0.0	+ 0.4	(6.0)	1	(0.4)	0		6.4			
-5002	30	4000	1	15.0	0.4	0.0	+ 0.0	(0.1)	0	(0.0)	0		0.1			
-5003	97	4000	2	15.0	0.5	0.0	+ 0.0	(0.2)	0	(0.0)	0		0.2			
-5111	10	10000	1	3.6	50.4	0.1	+ 0.0	(2.0)	90	(0.0)	0		2.0	5	5 16	

*** f - average saturation flow for flared link ***

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120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6492.1	653.0	9.9	145.3	372.5	(7352.4) + (713.7)	+ (0.0)	= 8066.0		TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	434.8	+	599.4	+	325.9	=	1360.1

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 94

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	102	118	38	60	85
2	3	45	114	25		
3	4	42	64	109	10	
4	3	21	105	0		
5	5	97	118	16	37	76

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6492.1	653.0	9.9	145.3	372.5	(7352.4) + (713.7)	+ (0.0)	= 8066.0		TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 476

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

```
    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  483
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18
 - (SECONDS)

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  527
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48
 - (SECONDS)

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  527
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18
 - (SECONDS)

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  539
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18   1
 - (SECONDS)

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
    5       5      97     118      16      37      76

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  520
.

    120 SECOND CYCLE  60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   18  48  18  48  18   1   1
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       5     102     118      38      60      85
    2       3      45     114      25
    3       4      42      64     109      10
    4       3      21     105       0
```

5 5 97 118 16 37 76

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
111	574	1975	68	15.0	34.7	4.5 + 1.1	(78.6)	82	(15.2)	17		93.8	1	108	38
112	790	2095	89	15.0	48.6	7.0 + 3.7	(151.3)	101	(25.6)	28		177.0	1	108	38
113	42	1955	26	4.5	66.3	0.6 + 0.2	(11.0)	102	(1.4)	1		12.4	1	109	118
114	10	1955	3	15.0	43.1	0.1 + 0.0	(1.7)	81	(0.3)	0		2.0	1	95	118
115	10	1955	6	15.0	62.2	0.1 + 0.0	(2.5)	98	(0.3)	0		2.8	1	93	102
116	10	1955	6	15.0	62.2	0.1 + 0.0	(2.5)	98	(0.3)	0		2.8	1	93	102
117	20	2055	2	5.3	37.4	0.2 + 0.0	(2.9)	90	(0.6)	1		3.6	1	7	60
118	655<	2250	65	62.3	16.8	2.1 + 0.9	(43.3)	49	(11.0)	13		54.3	1	7	60
119	791<	2095	84	62.3	23.5	2.6 + 2.5	(73.2)	73	(19.5)	24		92.6	1	7	60
120	228<	2000	81	5.3	108.7	4.9 + 1.9	(97.8)	115	(8.9)	9		106.7	1	44	60
121	237	1895	79	15.0	75.6	3.2 + 1.8	(70.7)	114	(8.7)	9		79.4	1	67	85
122	174	1915	57	4.9	60.5	2.3 + 0.7	(41.5)	101	(5.6)	6		47.2	1	67	85
211	702	1932	48	62.2	7.5	1.0 + 0.5	(20.7)	47	(10.6)	13		31.3	2	55	25
212	702	2075	45	62.3	4.5	0.5 + 0.4	(12.5)	32	(7.3)	11		19.8	2	55	25
213	88	1741	23	2.6	27.4	0.5 + 0.2	(9.5)	47	(1.3)	2		10.8	2	0	25
214	73	1967	9	15.0	24.4	0.4 + 0.0	(7.0)	61	(1.4)	2		8.4	2	2	50
215	108	2015	36	15.0	55.0	1.4 + 0.3	(23.4)	95	(3.3)	3		26.7	2	31	48
217	143	1832	14	3.0	3.3	0.0 + 0.1	(1.8)	8	(0.4)	0		2.2	2	51	115
218	1034<	2000	103	26.3	115.4	6.6 + 26.5	(470.7)	144	(49.5)	62		520.3	2	55	114
219	1020<	2400	85	26.3	25.7	4.5 + 2.7	(103.4)	37	(12.7)	13		116.0	2	55	114
221	9	1915	4	3.0	8.0	0.0 + 0.0	(0.3)	10	(0.0)	0		0.3	2	55	116
311	177	715	31	4.5	7.0	0.1 + 0.2	(4.9)	44	(2.5)	3		7.4			
312	468	1925	66	26.3	27.4	2.6 + 1.0	(50.6)	63	(9.5)	11		60.2	3	69	112
313	469	2085	61	26.3	26.0	2.6 + 0.8	(48.1)	41	(6.1)	6		54.2	3	69	112
314	311	2085	41	11.3	12.6	0.7 + 0.3	(15.4)	29	(2.9)	4		18.3	3	69	112
315	83	1837	82	3.8	115.7	0.8 + 1.9	(37.9)	154	(4.1)	5		42.0	3	69	114
316	232	2100	95	16.1	119.3	2.7 + 5.0	(109.2)	147	(11.0)	13		120.2	3	119	12
317	337	2100	160	16.1	777.7	8.1 + 64.7	(999.9)	251	(27.2)	77	+	1060.9	3	119	10
318	157	2053	77	2.6	79.6	1.9 + 1.5	(49.3)	125	(6.3)	7		55.6	3	119	10
321	1023	2220f	92	15.0	33.8	4.4 + 5.2	(136.3)	100	(32.7)	37		169.1	3	51	110
322	957<	2100	91	15.0	32.8	4.1 + 4.7	(124.0)	73	(24.0)	29		148.0	3	51	110
323	656<	2075	63	15.0	13.7	1.6 + 0.9	(35.3)	42	(9.2)	12		44.5	3	51	110
324	479	3000f	120	4.1	367.8	6.8 + 42.1	(694.8)	230	(35.4)	58	+	730.2	3	51	66
326	491	2150	125	15.0	438.7	9.0 + 50.8	(849.6)	238	(37.5)	68	+	887.1	3	22	43
327	504	2150	128	15.0	475.8	9.5 + 57.1	(945.8)	242	(39.1)	75	+	984.9	3	22	43
328	184	1999	50	3.0	53.9	2.3 + 0.5	(39.1)	94	(5.6)	6		44.7	3	22	43
411	656<	1965	46	15.0	6.9	0.8 + 0.4	(17.8)	22	(5.3)	6		23.1	4	33	0
412	563	2105	36	15.0	8.3	1.0 + 0.3	(18.4)	29	(5.3)	6		23.7	4	33	0
413	291	2105	19	15.0	6.7	0.4 + 0.1	(7.6)	28	(2.6)	3		10.3	4	33	0
414	171<	2000	79	4.5	88.9	2.5 + 1.7	(60.0)	113	(7.0)	7		67.0	4	110	2
415	410	1807	76	15.0	51.4	4.3 + 1.5	(83.1)	98	(12.9)	14		95.9	4	112	27
416	383	1915	104	15.0	189.6	5.6 + 14.6	(286.4)	182	(22.3)	27		308.7	4	5	27
417	415	1786	39	3.8	15.3	1.4 + 0.3	(25.0)	51	(6.8)	7		31.7	4	34	105

.

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
418	900	2200	68	15.0	20.5	4.1 + 1.1	(72.8)	66	(19.2)	21		92.0	4	34	105
419	1351	2095	107	15.0	169.5	10.3 + 53.3	(903.4)	182	(78.7)	100	+	982.1	4	34	105
420	547	2095	44	6.0	15.5	2.0 + 0.4	(33.5)	53	(9.2)	10		42.7	4	34	105
511	33	1854	34	7.5	48.9	0.2 + 0.3	(6.4)	163	(1.7)	1		8.1	5	23	39 83 99
512	742	2113	88	15.0	34.1	3.6 + 3.4	(99.7)	109	(26.0)	18		125.7	5	104	118 44 76
513	48	1800	70	3.8	111.3	0.4 + 1.1	(21.1)	192	(3.0)	2		24.0	5	104	0 44 78
514	428	1769	97	15.0	84.3	2.6 + 7.4	(142.3)	172	(23.7)	14		166.0	5	23	37 83 97
515	1498<	4010	93	16.1	29.5	6.0 + 6.3	(174.5)	98	(52.7)	36		227.2	5	104	118 44 76
-1001	791<	4000	20	15.0	0.6	0.0 + 0.1	(1.8)	0	(0.1)	0		1.9			
-1002	839<	4000	21	15.0	0.6	0.0 + 0.1	(1.9)	0	(0.1)	0		2.0			
-1003	80	4000	2	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.2			
-1004	269<	4000	7	15.0	0.5	0.0 + 0.0	(0.5)	0	(0.0)	0		0.5			
-1111	10	10000	0	3.6	26.5	0.1 + 0.0	(1.0)	64	(0.0)	0		1.1	1	44	85
-1112	10	10000	1	3.6	41.0	0.1 + 0.0	(1.6)	81	(0.0)	0		1.6	1	96	118
-1113	10	10000	0	3.6	6.6	0.0 + 0.0	(0.3)	31	(0.0)	0		0.3	1	4	85
-1114	10	10000	0	3.6	2.4	0.0 + 0.0	(0.1)	18	(0.0)	0		0.1	1	108	85
-1115	10	10000	0	3.6	8.0	0.0 + 0.0	(0.3)	47	(0.0)	0		0.3	1	8	60 94 102
-1116	10	10000	0	3.6	19.7	0.1 + 0.0	(0.8)	55	(0.0)	0		0.8	1	66	118
-2001	241	4000	6	15.0	0.5	0.0 + 0.0	(0.5)	0	(0.0)	0		0.5			
-2002	29	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1			
-2111	10	10000	0	3.6	15.4	0.0 + 0.0	(0.6)	49	(0.0)	0		0.6	2	55	114
-2112	10	10000	1	3.6	39.3	0.1 + 0.0	(1.6)	79	(0.0)	0		1.6	2	25	48
-2113	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0		1.9	2	30	45
-2115	10	10000	0	3.6	22.7	0.1 + 0.0	(0.9)	59	(0.0)	0		0.9	2	119	45
-2116	10	10000	0	3.6	23.9	0.1 + 0.0	(0.9)	61	(0.0)	0		1.0	2	0	45
-2117	10	10000	0	3.6	14.4	0.0 + 0.0	(0.6)	47	(0.0)	0		0.6	2	53	114
-3001	687<	4000	17	3.8	0.5	0.0 + 0.1	(1.5)	0	(0.1)	0		1.6			
-3002	864<	4000	22	15.0	0.6	0.0 + 0.1	(2.0)	0	(0.1)	0		2.1			
-3111	10	10000	0	3.6	37.7	0.1 + 0.0	(1.5)	77	(0.0)	0		1.5	3	115	20
-3112	10	10000	0	3.6	2.6	0.0 + 0.0	(0.1)	18	(0.0)	0		0.1	3	69	44
-3113	10	10000	0	3.6	36.0	0.1 + 0.0	(1.4)	76	(0.0)	0		1.4	3	23	50
-3114	10	10000	0	3.6	5.7	0.0 + 0.0	(0.2)	28	(0.0)	0		0.2	3	48	12
-3115	10	10000	0	3.6	7.9	0.0 + 0.0	(0.3)	47	(0.0)	0		0.3	3	75	111 21 43
-3116	10	10000	0	3.6	19.7	0.1 + 0.0	(0.8)	55	(0.0)	0		0.8	3	117	48
-3117	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0		1.9	3	0	15
-3118	10	10000	0	3.6	2.8	0.0 + 0.0	(0.1)	19	(0.0)	0		0.1	3	15	109
-3119	10	10000	1	3.6	47.3	0.1 + 0.0	(1.9)	87	(0.0)	0		1.9	3	2	17
-4001	840<	4000	21	15.0	0.6	0.0 + 0.1	(1.9)	0	(0.1)	0		2.0			
-4002	686	4000	17	15.0	0.5	0.0 + 0.1	(1.5)	0	(0.1)	0		1.6			
-4003	351	4000	9	15.0	0.5	0.0 + 0.0	(0.7)	0	(0.0)	0		0.7			
-4004	586<	4000	15	15.0	0.5	0.0 + 0.1	(1.2)	0	(0.1)	0		1.3			
-4111	10	10000	1	3.6	45.5	0.1 + 0.0	(1.8)	85	(0.0)	0		1.8	4	5	21
-4112	10	10000	1	3.6	49.4	0.1 + 0.0	(1.9)	89	(0.0)	0		2.0	4	9	21
-4113	10	10000	1	3.6	41.8	0.1 + 0.0	(1.6)	82	(0.0)	0		1.7	4	0	21
-4114	10	10000	0	3.6	9.5	0.0 + 0.0	(0.4)	38	(0.0)	0		0.4	4	32	105
-4115	10	10000	0	3.6	4.5	0.0 + 0.0	(0.2)	25	(0.0)	0		0.2	4	32	0
-4116	10	10000	1	3.6	51.5	0.1 + 0.0	(2.0)	91	(0.0)	0		2.0	4	11	21
-5001	1834<	4000	46	15.0	0.8	0.0 + 0.4	(6.0)	1	(0.4)	0		6.4			
-5002	30	4000	1	15.0	0.4	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1			
-5003	97	4000	2	15.0	0.5	0.0 + 0.0	(0.2)	0	(0.0)	0		0.2			
-5111	10	10000	1	3.6	50.4	0.1 + 0.0	(2.0)	90	(0.0)	0		2.0	5	5	16

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)

```
  6492.1         653.0        9.9        145.3    372.5    (7352.4) + (  713.7)  +  (   0.0)   =    8066.0      TOTALS
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE

*************************************************************************************************************************
                                    CRUISE              DELAY              STOPS              TOTALS
                                LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR

FUEL CONSUMPTION PREDICTIONS        434.8         +     599.4         +     325.9         =    1360.1

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  520

PROGRAM TRANSYT FINISHED
```

2020 Edge Lane PM Peak - Base

PRT File
2020 PM Peak : 16:30 - 17:30

```
1                 _________________ T R A N S Y T 12 _________________

                          Traffic Network Study Tool

                      Analysis Program Release 5  (January 2007)
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                     program advice and maintenance, contact:

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                RG40 3GA,UK
 -------------------------------------------------------------------------------
 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:- "2020 PM PEAK BASE.DAT"   at 16:12   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   94
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   23


  CORE REQUESTED =  17563 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
                (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE      %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60       2       3       1       1     100     100       1       1       0       0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       0       0       0       0       0       0       0       0       0       0

                                  NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.
   4)=  10       1               7      22      22      18      10
   5)=  10       2              46      20      14
   6)=  10       3              12      30      14      18
   7)=  10       4              70       8      11
   8)=  10       5              80      11       8

                                  NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.
   9)=  11       1               7      10       6       7      11
  10)=  11       2              10       8       6
  11)=  11       3               9      11      13      13
  12)=  11       4              13       7      11
  13)=  11       5               7       7       7

                                  NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.   Cycled
  14)=  12       1       1       1      15      47      75     100
  15)=  12       2       1      53       3      31
  16)=  12       3       1      64      85       6      33
  17)=  12       4       1      43       6      21
  18)=  12       5       1      88      55      73

                                                  LINK CARDS:   GIVEWAY DATA
                       PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY     A1       A2                                    LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100     X100                                  LENGTH WT.X100   FLOW  WT.X100    X100
  19)=  30     221     211       0       0      50        0       0       0       0       0      40       0    1000        0       0
  20)=  30     311    -3001      0       0      22        0       0       0       0       0      60       0     715        0       0
  21)=  30     315     321       0       0      50        0       0       0       0       0      50       0    1000        0       0
  22)=  30     414     418       0       0      50        0       0       0       0       0      60       0    1000        0       0
  23)=  30     511     514       0       0      50        0       0       0       0       0     100       0    1000        0       0
  24)=  30     513     515       0       0      50        0       0       0       0       0      50       0    1000        0       0

                                                  LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                   SECOND  GREEN
 CARD   CARD   LINK     EXIT         START            END            START            END       LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE    STAGE    LAG    STAGE    LAG    STAGE    LAG    STAGE    LAG  LENGTH  WT.X100  FLOW  WT.X100    X100
  25)=  31     111       1       1       6       3       0       0       0       0       0     200       0    1975        0       0
  26)=  31     112       1       1       6       3       0       0       0       0       0     200       0    2095        0       0
  27)=  31     113       1       1       7       2       0       0       0       0       0      60       0    1955        0       0
  28)=  31     114       1       5      10       2       0       0       0       0       0     200       0    1955        0       0
  29)=  31     115       1       5       8       1       0       0       0       0       0     200       0    1955        0       0
  30)=  31     116       1       5       8       1       0       0       0       0       0     200       0    1955        0       0
  31)=  31     117       1       2       9       4       0       0       0       0       0      70       0    2055        0       0
  32)=  31     118       1       2       9       4       0       0       0       0       0     830       0    2250        0       0
```

33)=	31	119	1	2	9	4	0	0	0	0	0	830	0	2095	0	0
34)=	31	120	1	3	6	4	0	0	0	0	0	70	0	2000	0	0
35)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
36)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
37)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
38)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
39)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
40)=	31	214	2	2	8	1	5	0	0	0	0	200	0	1967	0	0
41)=	31	215	2	3	6	1	3	0	0	0	0	200	0	2015	0	0
42)=	31	217	2	1	6	2	1	0	0	0	0	40	0	1832	0	0
43)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
44)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
45)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
46)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
47)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
48)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
49)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
50)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
51)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
52)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
53)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
54)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
56)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
57)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
58)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
60)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
61)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
62)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
64)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
65)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
66)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
67)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
68)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
69)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
70)=	31	511	5	3	7	1	2	0	0	0	0	100	0	1854	0	0
71)=	31	512	5	1	7	2	0	0	0	0	0	200	0	2113	0	0
72)=	31	513	5	1	7	2	2	0	0	0	0	50	0	1800	0	0
73)=	31	514	5	3	7	1	0	0	0	0	0	200	0	1769	0	0
74)=	31	515	5	1	7	2	0	0	0	0	0	215	0	4010	0	0
75)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
76)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
80)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
84)=	31	-1116	1	4	6	2	0	0	0	0	0	10	0	10000	0	0
85)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
86)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2111	2	1	10	2	0	0	0	0	0	10	0	10000	0	0
88)=	31	-2112	2	3	0	1	3	0	0	0	0	10	0	10000	0	0
89)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
90)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2116	2	2	6	1	0	0	0	0	0	10	0	10000	0	0
92)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
93)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
94)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
95)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
96)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
97)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
98)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
99)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
100)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
101)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
102)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
103)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
104)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
105)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
109)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
115)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
118)=	32	111	833	0	0	0	48	0	0	0	0	0	0	0	0	0
119)=	32	112	833	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	113	11	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	114	32	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	115	23	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	116	20	0	0	0	48	0	0	0	0	0	0	0	0	0
124)=	32	117	15	0	218	15	48	0	0	0	0	0	0	0	0	0
125)=	32	118	684	0	214	71	48	218	603	48	0	0	0	0	0	0
126)=	32	119	488	0	219	333	48	0	0	0	0	0	0	0	0	0
127)=	32	120	285	0	219	285	48	0	0	0	0	0	0	0	0	0
128)=	32	121	213	0	0	0	48	0	0	0	0	0	0	0	0	0
129)=	32	122	138	0	0	0	48	0	0	0	0	0	0	0	0	0
130)=	32	211	1088	0	111	781	48	116	20	48	121	203	48	0	0	0
131)=	32	212	726	0	112	726	48	0	0	0	0	0	0	0	0	0
132)=	32	213	107	0	112	107	48	0	0	0	0	0	0	0	0	0
133)=	32	214	71	0	0	0	48	0	0	0	0	0	0	0	0	0
134)=	32	215	249	0	0	0	48	0	0	0	0	0	0	0	0	0
135)=	32	217	127	0	321	112	48	327	15	48	0	0	0	0	0	0
136)=	32	218	618	0	316	42	48	321	184	48	322	244	48	328	148	48
137)=	32	219	618	0	322	276	48	323	331	48	0	0	0	0	0	0
138)=	32	221	16	0	323	16	48	0	0	0	0	0	0	0	0	0
139)=	32	311	361	0	211	308	48	215	43	48	0	0	0	0	0	0
140)=	32	312	588	0	211	370	48	215	196	48	0	0	0	0	0	0
141)=	32	313	588	0	211	399	48	212	184	48	0	0	0	0	0	0
142)=	32	314	481	0	212	481	48	0	0	0	0	0	0	0	0	0
143)=	32	315	61	0	212	61	48	0	0	0	0	0	0	0	0	0
144)=	32	316	333	0	511	10	48	512	330	48	514	15	48	0	0	0
145)=	32	317	577	0	512	577	48	0	0	0	0	0	0	0	0	0
146)=	32	318	286	0	512	286	48	0	0	0	0	0	0	0	0	0
147)=	32	321	520	0	415	95	48	418	425	48	0	0	0	0	0	0
148)=	32	322	520	0	415	64	48	419	456	48	0	0	0	0	0	0
149)=	32	323	347	0	419	208	48	420	139	48	0	0	0	0	0	0
150)=	32	324	512	0	415	159	48	420	353	48	0	0	0	0	0	0

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151)=  32     326     366       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     327     380       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     328     148       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     411    1011       0     312     588      48     317     286      48     326     137      48       0       0       0
155)=  32     412     760       0     313     588      48     318     172      48       0       0       0       0       0       0
156)=  32     413     502       0     314     388      48     318     114      48       0       0       0       0       0       0
157)=  32     414     229       0     314      93      48     326     136      48       0       0       0       0       0       0
158)=  32     415     318       0       0       0      48       0       0       0       0       0       0       0       0       0
159)=  32     416     400       0       0       0      48       0       0       0       0       0       0       0       0       0
160)=  32     417     382       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     418     425       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     419     664       0       0       0      48       0       0       0       0       0       0       0       0       0
163)=  32     420     492       0       0       0      48       0       0       0       0       0       0       0       0       0
164)=  32     511      30       0       0       0      48       0       0       0       0       0       0       0       0       0
165)=  32     512    1203       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     513     478       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     514      50       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     515     852       0     315      61      48     321     224      48     326      93      48     327     365      48
169)=  32   -1001     488       0     119     488      48       0       0       0       0       0       0       0       0       0
170)=  32   -1002     854       0     114      32      48     118     684      48     122     138      48       0       0       0
171)=  32   -1003      36       0     113      11      48     117      15      48     121      10      48       0       0       0
172)=  32   -1004     360       0     111      52      48     115      23      48     120     285      48       0       0       0
173)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
174)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
175)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
176)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
177)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
178)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
179)=  32   -2001     244       0     213     107      48     217     127      48       0       0       0       0       0       0
180)=  32   -2002      37       0     211      11      48     215      10      48     221      16      48       0       0       0
181)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
182)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
183)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
184)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
185)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
186)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
187)=  32   -3001    1094       0     316     291      48     317     291      48     324     512      48       0       0       0
188)=  32   -3002    1455       0     311     361      48   -3001    1094      48       0       0       0       0       0       0
189)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
190)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
191)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
192)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
193)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
194)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
195)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
196)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
197)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
198)=  32   -4001    1211       0     411    1011      48     416     200      48       0       0       0       0       0       0
199)=  32   -4002     893       0     412     760      48     416     133      48       0       0       0       0       0       0
200)=  32   -4003     569       0     413     502      48     416      67      48       0       0       0       0       0       0
201)=  32   -4004     611       0     414     229      48     417     382      48       0       0       0       0       0       0
202)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
203)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
204)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
205)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
206)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
207)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
208)=  32   -5001     838       0     511      10      48     514      25      48     515     803      48       0       0       0
209)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
210)=  32   -5003     527       0     511      10      48     513     478      48     515      39      48       0       0       0
211)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                      LINK CARDS : FLARE SATURATION FLOW DATA
                     ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
      TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
212)= 33     321    2100       2       0       0       0       0
213)= 33     324    1900       4       0       0       0       0

*****END OF SUBROUTINE TINPUT*****
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    120 SECOND CYCLE  60 STEPS

INITIAL SETTINGS
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

 LINK    FLOW   SAT   DEGREE  MEAN TIMES  -------DELAY--------   ----STOPS----   ----QUEUE----  PERFORMANCE   EXIT   GREEN TIMES
NUMBER   INTO   FLOW    OF      PER PCU    UNIFORM RANDOM+ COST    MEAN    COST    MEAN              INDEX.      NODE   START  START
         LINK          SAT     CRUISE              OVERSAT  OF    STOPS    OF    MAX.  AVERAGE  WEIGHTED SUM              END    END
                              DELAY   (U+R+O=MEAN Q) DELAY   /PCU   STOPS          EXCESS  OF ( ) VALUES          1ST    2ND
       (PCU/H) (PCU/H)  (%)  (SEC) (SEC)   (PCU-H/H)  ($/H)   (%)   ($/H)  (PCU)  (PCU)    ($/H)                (SECONDS)

  111     833    1975   123  15.0 409.8   13.2 + 81.7  (999.9)   235  ( 62.9)    111     +       1409.2      1      7   47
  112     833    2095   116  15.0 320.2   12.1 + 62.0  (999.9)   220  ( 58.9)     91     +       1110.9      1      7   47
  113      11    1955     8   4.5  68.3    0.2 +  0.0  (  3.0)   103  (  0.4)      0                3.3      1      8   15
  114      32    1955     8  15.0  42.2    0.3 +  0.0  (  5.3)    80  (  0.8)      1                6.1      1    110   15
  115      23    1955    10  15.0  56.5    0.3 +  0.1  (  5.1)    93  (  0.7)      1                5.8      1    108    1
  116      20    1955     9  15.0  56.3    0.3 +  0.0  (  4.4)    93  (  0.6)      1                5.0      1    108    1
  117      15    2055     2   5.3  35.3    0.1 +  0.0  (  2.1)    80  (  0.4)      0                2.5      1     24   75
  118     684    2250    70  62.2  22.5    3.1 +  1.2  ( 60.6)    74  ( 16.2)     19               76.8      1     24   75
  119     488    2095    54  62.3  15.2    1.5 +  0.6  ( 29.2)    43  (  6.8)      8               36.0      1     24   75
  120     286    2000    74   5.3  69.1    4.1 +  1.4  ( 77.9)    90  (  8.2)      9               86.1      1     53   75
  121     213    1895    71  15.0  68.1    2.8 +  1.2  ( 57.2)   108  (  7.4)      8               64.6      1     82  100
  122     138    1915    46   4.9  56.7    1.8 +  0.4  ( 30.8)    96  (  4.3)      5               35.1      1     82  100
  211    927<    1932    65  62.3   7.5    1.0 +  0.9  ( 27.4)    30  ( 10.5)     18               38.0      2     63   31
  212    624<    2075    41  62.3   2.4    0.1 +  0.3  (  6.0)     5  (  1.1)      1                7.1      2     63   31
  213     92<    1741    27   2.6  47.9    1.0 +  0.2  ( 17.4)    47  (  1.6)      2               19.0      2      9   31
  214      71    1967     9  15.0  24.9    0.4 +  0.0  (  7.0)    61  (  1.4)      1                8.4      2     11   58
  215     249    2015    74  15.0  67.6    3.3 +  1.4  ( 66.4)   108  (  8.6)      9               75.1      2     37   56
  217     127    1832    13   3.0   4.2    0.1 +  0.1  (  2.1)    10  (  0.4)      0                2.5      2     59    4
  218     618    2000    61  26.3  15.5    1.9 +  0.8  ( 37.8)    39  (  7.7)      9               45.6      2     63    3
  219     618    2400    51  26.3  17.5    2.5 +  0.5  ( 42.6)    32  (  6.4)      7               49.0      2     63    3
  221      16    1915    11   3.0  21.4    0.0 +  0.1  (  1.4)    69  (  0.4)      0                1.7      2     63    5
  311    315<     715    59   4.5  13.1    0.4 +  0.7  ( 16.2)    57  (  6.6)      6     +         22.8
  312    532<    1925    83  26.3  43.9    4.2 +  2.3  ( 92.0)    90  ( 16.9)     19              109.0      3     90    9
  313    503<    2085    72  26.3  31.5    3.1 +  1.3  ( 62.5)    54  ( 10.2)     12               72.8      3     90    9
  314    413<    2085    59  11.3  18.7    1.4 +  0.7  ( 30.5)    53  (  8.2)     10               38.7      3     90    9
  315      52    1837    18   3.8  17.5    0.1 +  0.1  (  3.6)    46  (  0.9)      1                4.5      3     90   11
  316     334    2100    95  16.1 104.5    3.7 +  5.9  (137.7)   140  ( 14.9)     17              152.6      3     16   35
  317     577    2100   183  16.1 911.2   13.7 +132.3  (999.9)   248  ( 46.0)    155     +       2120.0      3     16   33
  318     286    2053    93   2.6  94.1    2.8 +  4.6  (106.1)   137  ( 12.6)     14     +        118.7      3     16   33
  321     520   2230f    51  15.0  18.7    2.2 +  0.5  ( 38.4)    67  ( 11.2)     13               49.6      3     73    7
  322     520    2100    54  15.0  17.5    1.9 +  0.6  ( 35.9)    61  ( 10.2)     13               46.1      3     73    7
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323	347	2075	37	15.0	11.1	0.8 +	0.3	(15.1)	29	(3.3)	5		18.4	3	73	7		
324	512	3060f	134	4.1	531.1	8.7 +	66.8	(999.9)	247	(40.5)	86	+	1113.0	3	73	87		
326	366	2150	97	15.0	121.4	5.0 +	7.3	(175.3)	148	(17.4)	19		192.7	3	45	65		
327	380	2150	101	15.0	151.7	5.3 +	10.7	(227.5)	165	(20.2)	23		247.6	3	45	65		
328	148	1999	42	3.0	53.0	1.8 +	0.4	(30.9)	94	(4.4)	5		35.4	3	45	65		
411	825<	1965	58	15.0	8.0	1.1 +	0.7	(25.9)	23	(7.5)	8		33.5	4	55	21		
412	675<	2105	44	15.0	8.9	1.3 +	0.4	(23.6)	28	(6.9)	7		30.5	4	55	21		
413	447<	2105	29	15.0	7.2	0.7 +	0.2	(12.7)	26	(4.2)	4		16.8	4	55	21		
414	216<	2000	100	4.5	180.1	3.5 +	7.3	(153.4)	169	(12.4)	14	+	165.8	4	11	23		
415	318	1807	57	15.0	42.3	3.1 +	0.7	(53.1)	87	(8.9)	9		61.9	4	13	49		
416	400	1915	104	15.0	187.5	5.7 +	15.1	(295.8)	181	(23.3)	28		319.1	4	26	49		
417	382	1786	36	3.8	15.4	1.4 +	0.3	(23.2)	51	(6.2)	7		29.4	4	56	6		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM	RANDOM+ OVERSAT (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
418	425	2200	33	15.0	14.5	1.5 +	0.2	(24.2)	49	(6.6)	7		30.9	4	56	6		
419	664	2095	54	15.0	17.8	2.7 +	0.6	(46.6)	58	(12.4)	14		59.0	4	56	6		
420	492	2095	40	6.0	15.5	1.8 +	0.3	(30.1)	52	(8.2)	9		38.3	4	56	6		
511	30	1854	37	7.5	88.6	0.4 +	0.3	(10.5)	121	(1.2)	1		11.6	5	80	90		
512	1203	2113	84	15.0	22.6	4.9 +	2.6	(107.2)	75	(29.1)	33		136.3	5	95	55		
513	478	1800	100	3.8	114.2	4.3 +	10.9	(215.3)	153	(23.5)	27	+	238.8	5	95	57		
514	50	1769	38	15.0	74.6	0.7 +	0.3	(14.7)	109	(1.8)	2		16.5	5	80	88		
515	838<	4010	31	16.1	24.5	5.5 +	0.2	(80.9)	88	(24.1)	26		105.0	5	95	55		
-1001	488	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1					
-1002	854	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.1					
-1003	36	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	350	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7					
-1111	10	10000	0	3.6	22.1	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	53	100		
-1112	10	10000	0	3.6	38.5	0.1 +	0.0	(1.5)	78	(0.0)	0		1.5	1	111	15		
-1113	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	1	21	100		
-1114	10	10000	0	3.6	3.0	0.0 +	0.0	(0.1)	20	(0.0)	0		0.1	1	7	100		
-1115	10	10000	0	3.6	7.1	0.0 +	0.0	(0.3)	44	(0.0)	0		0.3	1	25	75	109	1
-1116	10	10000	0	3.6	18.0	0.0 +	0.0	(0.7)	53	(0.0)	0		0.7	1	81	15		
-2001	228<	4000	6	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5					
-2002	35	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	63	3		
-2112	10	10000	0	3.6	37.7	0.1 +	0.0	(1.5)	77	(0.0)	0		1.5	2	31	56		
-2113	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	2	36	53		
-2115	10	10000	0	3.6	23.9	0.1 +	0.0	(0.9)	61	(0.0)	0		1.0	2	8	53		
-2116	10	10000	0	3.6	23.9	0.1 +	0.0	(0.9)	61	(0.0)	0		1.0	2	9	53		
-2117	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	61	3		
-3001	833<	4000	21	3.8	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-3002	1148<	4000	29	15.0	0.6	0.0 +	0.2	(2.9)	0	(0.2)	0		3.1					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	12	43		
-3112	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	3	90	66		
-3113	10	10000	0	3.6	37.6	0.1 +	0.0	(1.5)	77	(0.0)	0		1.5	3	46	72		
-3114	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	3	70	35		
-3115	10	10000	0	3.6	9.8	0.0 +	0.0	(0.4)	53	(0.0)	0		0.4	3	96	8	44	65
-3116	10	10000	0	3.6	17.4	0.0 +	0.0	(0.7)	52	(0.0)	0		0.7	3	14	70		
-3117	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	17	38		
-3118	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	3	38	6		
-3119	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	3	19	40		
-4001	1017<	4000	25	15.0	0.6	0.0 +	0.2	(2.4)	0	(0.2)	0		2.6					
-4002	802<	4000	20	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		1.9					
-4003	511<	4000	13	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1					
-4004	598<	4000	15	15.0	0.5	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3					
-4111	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	4	26	43		
-4112	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	30	43		
-4113	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	4	21	43		
-4114	10	10000	0	3.6	9.9	0.0 +	0.0	(0.4)	38	(0.0)	0		0.4	4	54	6		
-4115	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	4	54	21		
-4116	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	4	32	43		
-5001	825<	4000	21	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		2.0					
-5002	30	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	527	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-5111	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	62	73		

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5929.6	695.2	8.5	144.0	427.7	(8117.5) +	(605.5) +	(0.0) =	8722.9	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	406.3	+	661.1	+	276.6	=	1343.9

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 94

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	1	15	47	75	100
2	3	53	3	31		
3	4	64	85	6	33	
4	3	43	6	21		
5	3	88	55	73		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
5929.6	695.2	8.5	144.0	427.7	(8117.5) +	(605.5) +	(0.0) =	8722.9	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 494

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

```
    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  506
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18
 - (SECONDS)

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  553
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48
 - (SECONDS)

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  557
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18
 - (SECONDS)

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  563
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18   1
 - (SECONDS)

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
    5       3      88      55      73

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  551
.

    120 SECOND CYCLE  60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   18  48  18  48  18   1   1
 - (SECONDS)

   NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
    NO   OF STAGES   1       2       3       4       5       6       7       8       9      10

    1       5       1      15      47      75     100
    2       3      53       3      31
    3       4      64      85       6      33
    4       3      43       6      21
```

5 3 88 55 73

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
111	833	1975	123	15.0	409.8	13.2 + 81.7		(999.9)	235	(62.9)	111	+	1409.2	1	7	47
112	833	2095	116	15.0	320.2	12.1 + 62.0		(999.9)	220	(58.9)	91	+	1110.9	1	7	47
113	11	1955	8	4.5	68.3	0.2 + 0.0		(3.0)	103	(0.4)	0		3.3	1	8	15
114	32	1955	8	15.0	42.2	0.3 + 0.0		(5.3)	80	(0.8)	1		6.1	1	110	15
115	23	1955	10	15.0	56.5	0.3 + 0.1		(5.1)	93	(0.7)	1		5.8	1	108	1
116	20	1955	9	15.0	56.3	0.3 + 0.0		(4.4)	93	(0.6)	1		5.0	1	108	1
117	15	2055	2	5.3	35.3	0.1 + 0.0		(2.1)	80	(0.4)	0		2.5	1	24	75
118	684	2250	70	62.2	22.5	3.1 + 1.2		(60.6)	74	(16.2)	19		76.8	1	24	75
119	488	2095	54	62.3	15.2	1.5 + 0.6		(29.2)	43	(6.8)	8		36.0	1	24	75
120	286	2000	74	5.3	69.1	4.1 + 1.4		(77.9)	90	(8.2)	9		86.1	1	53	75
121	213	1895	71	15.0	68.1	2.8 + 1.2		(57.2)	108	(7.4)	8		64.6	1	82	100
122	138	1915	46	4.9	56.7	1.8 + 0.4		(30.8)	96	(4.3)	5		35.1	1	82	100
211	927<	1932	65	62.3	7.5	1.0 + 0.9		(27.4)	30	(10.5)	18		38.0	2	63	31
212	624<	2075	41	62.3	2.4	0.1 + 0.3		(6.0)	5	(1.1)	1		7.1	2	63	31
213	92<	1741	27	2.6	47.9	1.0 + 0.2		(17.4)	47	(1.6)	2		19.0	2	9	31
214	71	1967	9	15.0	24.9	0.4 + 0.0		(7.0)	61	(1.4)	1		8.4	2	11	58
215	249	2015	74	15.0	67.6	3.3 + 1.4		(66.4)	108	(8.6)	9		75.1	2	37	56
217	127	1832	13	3.0	4.2	0.1 + 0.1		(2.1)	10	(0.4)	0		2.5	2	59	4
218	618	2000	61	26.3	15.5	1.9 + 0.8		(37.8)	39	(7.7)	9		45.6	2	63	3
219	618	2400	51	26.3	17.5	2.5 + 0.5		(42.6)	32	(6.4)	7		49.0	2	63	3
221	16	1915	11	3.0	21.4	0.0 + 0.1		(1.4)	69	(0.4)	0		1.7	2	63	5
311	315<	715	59	4.5	13.1	0.4 + 0.7		(16.2)	57	(6.6)	6	+	22.8			
312	532<	1925	83	26.3	43.9	4.2 + 2.3		(92.0)	90	(16.9)	19		109.0	3	90	9
313	503<	2085	72	26.3	31.5	3.1 + 1.3		(62.5)	54	(10.2)	12		72.8	3	90	9
314	413<	2085	59	11.3	18.7	1.4 + 0.7		(30.5)	53	(8.2)	10		38.7	3	90	9
315	52	1837	18	3.8	17.5	0.1 + 0.1		(3.6)	46	(0.9)	1		4.5	3	90	11
316	334	2100	95	16.1	104.5	3.7 + 5.9		(137.7)	140	(14.9)	17		152.6	3	16	35
317	577	2100	183	16.1	911.2	13.7 +132.3		(999.9)	248	(46.0)	155	+	2120.0	3	16	33
318	286	2053	93	2.6	94.1	2.8 + 4.6		(106.1)	137	(12.6)	14	+	118.7	3	16	33
321	520	2230f	51	15.0	18.7	2.2 + 0.5		(38.4)	67	(11.2)	13		49.6	3	73	7
322	520	2100	54	15.0	17.5	1.9 + 0.6		(35.9)	61	(10.2)	13		46.1	3	73	7
323	347	2075	37	15.0	11.1	0.8 + 0.3		(15.1)	29	(3.3)	5		18.4	3	73	7
324	512	3060f	134	4.1	531.1	8.7 + 66.8		(999.9)	247	(40.5)	86	+	1113.0	3	73	87
326	366	2150	97	15.0	121.4	5.0 + 7.3		(175.3)	148	(17.4)	19		192.7	3	45	65
327	380	2150	101	15.0	151.7	5.3 + 10.7		(227.5)	165	(20.2)	23		247.6	3	45	65
328	148	1999	42	3.0	53.0	1.8 + 0.4		(30.9)	94	(4.4)	5		35.4	3	45	65
411	825<	1965	58	15.0	8.0	1.1 + 0.7		(25.9)	23	(7.5)	8		33.5	4	55	21
412	675<	2105	44	15.0	8.9	1.3 + 0.4		(23.6)	28	(6.9)	7		30.5	4	55	21
413	447<	2105	29	15.0	7.2	0.7 + 0.2		(12.7)	26	(4.2)	4		16.8	4	55	21
414	216<	2000	100	4.5	180.1	3.5 + 7.3		(153.4)	169	(12.4)	14	+	165.8	4	11	23
415	318	1807	57	15.0	42.3	3.1 + 0.7		(53.1)	87	(8.9)	9		61.9	4	13	49
416	400	1915	104	15.0	187.5	5.7 + 15.1		(295.8)	181	(23.3)	28		319.1	4	26	49
417	382	1786	36	3.8	15.4	1.4 + 0.3		(23.2)	51	(6.2)	7		29.4	4	56	6

.

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
418	425	2200	33	15.0	14.5	1.5 + 0.2		(24.2)	49	(6.6)	7		30.9	4	56	6
419	664	2095	54	15.0	17.8	2.7 + 0.6		(46.6)	58	(12.4)	14		59.0	4	56	6
420	492	2095	40	6.0	15.5	1.8 + 0.3		(30.1)	52	(8.2)	9		38.3	4	56	6
511	30	1854	37	7.5	88.6	0.4 + 0.3		(10.5)	121	(1.2)	1		11.6	5	80	90
512	1203	2113	84	15.0	22.6	4.9 + 2.6		(107.2)	75	(29.1)	33		136.3	5	95	55
513	478	1800	100	3.8	114.2	4.3 + 10.9		(215.3)	153	(23.5)	27	+	238.8	5	95	57
514	50	1769	38	15.0	74.6	0.7 + 0.3		(14.7)	109	(1.8)	2		16.5	5	80	88
515	838<	4010	31	16.1	24.5	5.5 + 0.2		(80.9)	88	(24.1)	26		105.0	5	95	55
-1001	488	4000	12	15.0	0.5	0.0 + 0.1		(1.0)	0	(0.1)	0		1.1			
-1002	854	4000	21	15.0	0.6	0.0 + 0.1		(1.9)	0	(0.1)	0		2.1			
-1003	36	4000	1	15.0	0.4	0.0 + 0.0		(0.1)	0	(0.0)	0		0.1			
-1004	350	4000	9	15.0	0.5	0.0 + 0.0		(0.7)	0	(0.0)	0		0.7			
-1111	10	10000	0	3.6	22.1	0.1 + 0.0		(0.9)	59	(0.0)	0		0.9	1	53	100
-1112	10	10000	0	3.6	38.5	0.1 + 0.0		(1.5)	78	(0.0)	0		1.5	1	111	15
-1113	10	10000	0	3.6	6.9	0.0 + 0.0		(0.3)	32	(0.0)	0		0.3	1	21	100
-1114	10	10000	0	3.6	3.0	0.0 + 0.0		(0.1)	20	(0.0)	0		0.1	1	7	100
-1115	10	10000	0	3.6	7.1	0.0 + 0.0		(0.3)	44	(0.0)	0		0.3	1	25	75 109 1
-1116	10	10000	0	3.6	18.0	0.0 + 0.0		(0.7)	53	(0.0)	0		0.7	1	81	15
-2001	228<	4000	6	15.0	0.5	0.0 + 0.0		(0.4)	0	(0.0)	0		0.5			
-2002	35	4000	1	15.0	0.5	0.0 + 0.0		(0.1)	0	(0.0)	0		0.1			
-2111	10	10000	0	3.6	14.9	0.0 + 0.0		(0.6)	48	(0.0)	0		0.6	2	63	3
-2112	10	10000	0	3.6	37.7	0.1 + 0.0		(1.5)	77	(0.0)	0		1.5	2	31	56
-2113	10	10000	1	3.6	45.4	0.1 + 0.0		(1.8)	85	(0.0)	0		1.8	2	36	53
-2115	10	10000	0	3.6	23.9	0.1 + 0.0		(0.9)	61	(0.0)	0		1.0	2	8	53
-2116	10	10000	0	3.6	23.9	0.1 + 0.0		(0.9)	61	(0.0)	0		1.0	2	9	53
-2117	10	10000	0	3.6	13.9	0.0 + 0.0		(0.5)	46	(0.0)	0		0.6	2	61	3
-3001	833<	4000	21	3.8	0.6	0.0 + 0.1		(1.9)	0	(0.1)	0		2.0			
-3002	1148<	4000	29	15.0	0.6	0.0 + 0.2		(2.9)	0	(0.2)	0		3.1			
-3111	10	10000	0	3.6	33.7	0.1 + 0.0		(1.3)	73	(0.0)	0		1.3	3	12	43
-3112	10	10000	0	3.6	2.6	0.0 + 0.0		(0.1)	18	(0.0)	0		0.1	3	90	66
-3113	10	10000	0	3.6	37.6	0.1 + 0.0		(1.5)	77	(0.0)	0		1.5	3	46	72
-3114	10	10000	0	3.6	5.4	0.0 + 0.0		(0.2)	28	(0.0)	0		0.2	3	70	35
-3115	10	10000	0	3.6	9.8	0.0 + 0.0		(0.4)	53	(0.0)	0		0.4	3	96	8 44 65
-3116	10	10000	0	3.6	17.4	0.0 + 0.0		(0.7)	52	(0.0)	0		0.7	3	14	70
-3117	10	10000	1	3.6	41.0	0.1 + 0.0		(1.6)	81	(0.0)	0		1.6	3	17	38
-3118	10	10000	0	3.6	4.5	0.0 + 0.0		(0.2)	25	(0.0)	0		0.2	3	38	6
-3119	10	10000	1	3.6	41.0	0.1 + 0.0		(1.6)	81	(0.0)	0		1.6	3	19	40
-4001	1017<	4000	25	15.0	0.6	0.0 + 0.2		(2.4)	0	(0.2)	0		2.6			
-4002	802<	4000	20	15.0	0.6	0.0 + 0.1		(1.8)	0	(0.1)	0		1.9			
-4003	511<	4000	13	15.0	0.5	0.0 + 0.1		(1.0)	0	(0.1)	0		1.1			
-4004	598<	4000	15	15.0	0.5	0.0 + 0.1		(1.2)	0	(0.1)	0		1.3			
-4111	10	10000	1	3.6	45.4	0.1 + 0.0		(1.8)	85	(0.0)	0		1.8	4	26	43
-4112	10	10000	1	3.6	49.3	0.1 + 0.0		(1.9)	89	(0.0)	0		2.0	4	30	43
-4113	10	10000	1	3.6	40.1	0.1 + 0.0		(1.6)	80	(0.0)	0		1.6	4	21	43
-4114	10	10000	0	3.6	9.9	0.0 + 0.0		(0.4)	38	(0.0)	0		0.4	4	54	6
-4115	10	10000	0	3.6	4.8	0.0 + 0.0		(0.2)	26	(0.0)	0		0.2	4	54	21
-4116	10	10000	1	3.6	51.3	0.1 + 0.0		(2.0)	91	(0.0)	0		2.0	4	32	43
-5001	825<	4000	21	15.0	0.6	0.0 + 0.1		(1.8)	0	(0.1)	0		2.0			
-5002	30	4000	1	15.0	0.4	0.0 + 0.0		(0.1)	0	(0.0)	0		0.1			
-5003	527	4000	13	15.0	0.5	0.0 + 0.1		(1.1)	0	(0.1)	0		1.1			
-5111	10	10000	1	3.6	51.3	0.1 + 0.0		(2.0)	91	(0.0)	0		2.0	5	62	73

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)

```
  5929.6         695.2        8.5        144.0    427.7    (8117.5) + (  605.5)  +  (   0.0)   =    8722.9       TOTALS
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                    ROUTE

*************************************************************************************************************************
                                  CRUISE              DELAY              STOPS              TOTALS
                               LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR

FUEL CONSUMPTION PREDICTIONS       406.3         +     661.1         +     276.6         =    1343.9

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  551

PROGRAM TRANSYT FINISHED
```

2020 Edge Lane SAT Peak - Base

PRT File
2020 SAT Peak : 13:30 - 14:30

```
1                 _________________ T R A N S Y T 12 _________________

                            Traffic Network Study Tool

                        Analysis Program Release 5  (January 2007)
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                 _____________________________________________


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                      program advice and maintenance, contact:

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                   Wokingham, Berks.       Web:    www.trlsoftware.co.uk
                   RG40 3GA,UK
 --------------------------------------------------------------------------------
 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:- "2020 SAT PEAK BASE.DAT"   at 16:14   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   94
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   23


  CORE REQUESTED =  17563 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE      %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60       2       3       1       1     100     100       1       1       0       0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       0       0       0       0       0       0       0       0       0       0

                                  NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.
   4)=  10       1               4       7       7       7
   5)=  10       2              43      24      13       9
   6)=  10       3               9      32      10      23
   7)=  10       4              74       8       7
   8)=  10       5              20      11       8      38       8

                                  NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.
   9)=  11       1               9       6       7      11
  10)=  11       2              10       8       6       7
  11)=  11       3               9      11      13      13
  12)=  11       4              13       7      11
  13)=  11       5               7       7       7       7       7

                                  NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9      S10
  NO.   TYPE    NO.   Cycled
  14)=  12       1       1     115      47      76      97
  15)=  12       2       1      55     108      20      39
  16)=  12       3       1      46      64     107      10
  17)=  12       4       1      33       0      15
  18)=  12       5       1      93       0      18      33      78

                                                  LINK CARDS:   GIVEWAY DATA
                        PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY     A1       A2                                    LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100     X100                                  LENGTH WT.X100   FLOW  WT.X100    X100
  19)=  30     221     211       0       0      50        0       0       0       0       0      40       0    1000       0       0
  20)=  30     311    -3001      0       0      22        0       0       0       0       0      60       0     715       0       0
  21)=  30     315     321       0       0      50        0       0       0       0       0      50       0    1000       0       0
  22)=  30     414     418       0       0      50        0       0       0       0       0      60       0    1000       0       0
  23)=  30     511     514       0       0      50        0       0       0       0       0     100       0    1000       0       0
  24)=  30     513     515       0       0      50        0       0       0       0       0      50       0    1000       0       0

                                                  LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                   SECOND  GREEN
 CARD   CARD   LINK     EXIT         START             END             START             END        LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE    STAGE    LAG    STAGE    LAG    STAGE    LAG    STAGE    LAG   LENGTH  WT.X100  FLOW  WT.X100    X100
  25)=  31     111       1       1       6       2       0       0       0       0       0     200       0    1975       0       0
  26)=  31     112       1       1       6       2       0       0       0       0       0     200       0    2095       0       0
  27)=  31     114       1       4      10       1       0       0       0       0       0     200       0    1955       0       0
  28)=  31     115       1       4       8       1       0       0       0       0       0     200       0    1955       0       0
  29)=  31     116       1       4       8       1       0       0       0       0       0     200       0    1955       0       0
  30)=  31     117       1       1       6       3       0       0       0       0       0      70       0    2055       0       0
  31)=  31     118       1       1       9       3       0       0       0       0       0     830       0    2250       0       0
  32)=  31     119       1       1       9       3       0       0       0       0       0     830       0    2095       0       0
```

33)=	31	120	1	2	6	3	0	0	0	0	0	70	0	2000	0	0
34)=	31	121	1	3	7	4	0	0	0	0	0	200	0	1895	0	0
35)=	31	122	1	3	7	4	0	0	0	0	0	65	0	1915	0	0
36)=	31	211	2	1	10	3	0	0	0	0	0	830	0	1932	0	0
37)=	31	212	2	1	10	3	0	0	0	0	0	830	0	2075	0	0
38)=	31	213	2	2	6	3	0	0	0	0	0	35	0	1741	0	0
39)=	31	214	2	2	8	4	2	0	0	0	0	200	0	1967	0	0
40)=	31	215	2	3	6	4	2	0	0	0	0	200	0	3000	0	0
41)=	31	217	2	1	8	2	1	0	0	0	0	40	0	1832	0	0
42)=	31	218	2	1	10	2	0	0	0	0	0	350	0	2000	0	0
43)=	31	219	2	1	10	2	0	0	0	0	0	350	0	2400	0	0
44)=	31	220	2	4	7	1	0	0	0	0	0	100	0	1882	0	0
45)=	31	221	2	1	10	2	2	0	0	0	0	40	0	1915	0	0
46)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
47)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
48)=	31	314	3	2	5	3	3	0	0	0	0	150	0	2085	0	0
49)=	31	315	3	2	5	3	5	0	0	0	0	50	0	1837	0	0
50)=	31	316	3	3	10	4	2	0	0	0	0	215	0	2100	0	0
51)=	31	317	3	3	10	4	0	0	0	0	0	215	0	2100	0	0
52)=	31	318	3	3	10	4	0	0	0	0	0	35	0	2053	0	0
53)=	31	321	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
54)=	31	322	3	1	9	3	1	0	0	0	0	200	0	2100	0	0
55)=	31	323	3	1	9	3	1	0	0	0	0	200	0	2075	0	0
56)=	31	324	3	1	9	2	2	0	0	0	0	55	0	2100	0	0
57)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
58)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
59)=	31	328	3	4	12	1	1	0	0	0	0	40	0	1999	0	0
60)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
61)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
62)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
63)=	31	414	4	2	5	3	4	0	0	0	0	60	0	2000	0	0
64)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
65)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
66)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
67)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
68)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2095	0	0
69)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
70)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
71)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
72)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
73)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
74)=	31	515	5	1	7	2	0	4	7	5	0	215	0	4010	0	0
75)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
76)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
77)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
78)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
79)=	31	-1111	1	2	6	4	0	0	0	0	0	10	0	10000	0	0
80)=	31	-1112	1	4	11	1	0	0	0	0	0	10	0	10000	0	0
81)=	31	-1113	1	1	6	4	0	0	0	0	0	10	0	10000	0	0
82)=	31	-1114	1	1	6	4	0	0	0	0	0	10	0	10000	0	0
83)=	31	-1115	1	4	9	3	0	0	0	0	0	10	0	10000	0	0
84)=	31	-1116	1	3	6	1	0	0	0	0	0	10	0	10000	0	0
85)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
86)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
87)=	31	-2111	2	4	7	2	0	0	0	0	0	10	0	10000	0	0
88)=	31	-2112	2	3	0	4	1	0	0	0	0	10	0	10000	0	0
89)=	31	-2113	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
90)=	31	-2115	2	2	5	1	0	0	0	0	0	10	0	10000	0	0
91)=	31	-2116	2	2	6	1	2	0	0	0	0	10	0	10000	0	0
92)=	31	-2117	2	1	8	2	0	0	0	0	0	10	0	10000	0	0
93)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
94)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
95)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
96)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
97)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
98)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
99)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
100)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
101)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
102)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
103)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
104)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
105)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
106)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
107)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
109)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
110)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
111)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
112)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
113)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
115)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
116)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
117)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
118)=	32	111	468	0	0	0	48	0	0	0	0	0	0	0	0	0
119)=	32	112	734	0	0	0	48	0	0	0	0	0	0	0	0	0
120)=	32	114	14	0	0	0	48	0	0	0	0	0	0	0	0	0
121)=	32	115	10	0	0	0	48	0	0	0	0	0	0	0	0	0
122)=	32	116	10	0	0	0	48	0	0	0	0	0	0	0	0	0
123)=	32	117	10	0	218	10	48	0	0	0	0	0	0	0	0	0
124)=	32	118	823	0	214	118	48	218	690	48	220	15	48	0	0	0
125)=	32	119	382	0	219	342	48	0	0	0	0	0	0	0	0	0
126)=	32	120	358	0	219	358	48	0	0	0	0	0	0	0	0	0
127)=	32	121	207	0	0	0	48	0	0	0	0	0	0	0	0	0
128)=	32	122	69	0	0	0	48	0	0	0	0	0	0	0	0	0
129)=	32	211	611	0	111	404	48	116	10	48	121	197	48	0	0	0
130)=	32	212	610	0	112	560	48	0	0	0	0	0	0	0	0	0
131)=	32	213	174	0	112	174	48	0	0	0	0	0	0	0	0	0
132)=	32	214	118	0	0	0	48	0	0	0	0	0	0	0	0	0
133)=	32	215	319	0	0	0	48	0	0	0	0	0	0	0	0	0
134)=	32	217	242	0	321	203	48	327	39	48	0	0	0	0	0	0
135)=	32	218	700	0	316	67	48	321	165	48	322	244	48	328	224	48
136)=	32	219	700	0	322	341	48	323	363	48	0	0	0	0	0	0
137)=	32	220	70	0	0	0	48	0	0	0	0	0	0	0	0	0
138)=	32	221	28	0	323	28	48	0	0	0	0	0	0	0	0	0
139)=	32	311	405	0	211	296	48	215	89	48	220	20	48	0	0	0
140)=	32	312	371	0	211	134	48	215	216	48	220	21	48	0	0	0
141)=	32	313	371	0	211	146	48	212	267	48	0	0	0	0	0	0
142)=	32	314	248	0	212	248	48	0	0	0	0	0	0	0	0	0
143)=	32	315	95	0	212	95	48	0	0	0	0	0	0	0	0	0
144)=	32	316	299	0	511	15	48	512	250	48	514	25	48	0	0	0
145)=	32	317	373	0	512	373	48	0	0	0	0	0	0	0	0	0
146)=	32	318	140	0	512	140	48	0	0	0	0	0	0	0	0	0
147)=	32	321	585	0	415	103	48	418	482	48	0	0	0	0	0	0
148)=	32	322	585	0	415	68	48	419	517	48	0	0	0	0	0	0
149)=	32	323	391	0	419	235	48	420	156	48	0	0	0	0	0	0
150)=	32	324	503	0	415	172	48	420	331	48	0	0	0	0	0	0

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151)=  32     326     357       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     327     396       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     328     224       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     411     642       0     312     371      48     317     140      48     326     131      48       0       0       0
155)=  32     412     455       0     313     371      48     318      84      48       0       0       0       0       0       0
156)=  32     413     195       0     314     139      48     318      56      48       0       0       0       0       0       0
157)=  32     414     239       0     314     109      48     326     130      48       0       0       0       0       0       0
158)=  32     415     343       0       0       0      48       0       0       0       0       0       0       0       0       0
159)=  32     416     198       0       0       0      48       0       0       0       0       0       0       0       0       0
160)=  32     417     234       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     418     482       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     419     752       0       0       0      48       0       0       0       0       0       0       0       0       0
163)=  32     420     487       0       0       0      48       0       0       0       0       0       0       0       0       0
164)=  32     511      35       0       0       0      48       0       0       0       0       0       0       0       0       0
165)=  32     512     773       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     513     132       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     514      71       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     515     855       0     315      95      48     321     217      48     326      96      48     327     357      48
169)=  32   -1001     382       0     119     382      48       0       0       0       0       0       0       0       0       0
170)=  32   -1002     906       0     114      14      48     118     823      48     122      69      48       0       0       0
171)=  32   -1003      32       0     117      10      48     121      10      48       0       0       0       0       0       0
172)=  32   -1004     432       0     111      64      48     115      10      48     120     358      48       0       0       0
173)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
174)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
175)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
176)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
177)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
178)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
179)=  32   -2001     430       0     213     174      48     217     242      48     220      14      48       0       0       0
180)=  32   -2002      77       0     211      35      48     215      14      48     221      28      48       0       0       0
181)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
182)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
183)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
184)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
185)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
186)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
187)=  32   -3001     968       0     316     232      48     317     233      48     324     503      48       0       0       0
188)=  32   -3002    1373       0     311     405      48   -3001     968      48       0       0       0       0       0       0
189)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
190)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
191)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
192)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
193)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
194)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
195)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
196)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
197)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
198)=  32   -4001     741       0     411     642      48     416      99      48       0       0       0       0       0       0
199)=  32   -4002     521       0     412     455      48     416      66      48       0       0       0       0       0       0
200)=  32   -4003     228       0     413     195      48     416      33      48       0       0       0       0       0       0
201)=  32   -4004     473       0     414     239      48     417     234      48       0       0       0       0       0       0
202)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
203)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
204)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
205)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
206)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
207)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
208)=  32   -5001     855       0     511      10      48     514      36      48     515     809      48       0       0       0
209)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
210)=  32   -5003     178       0     511      10      48     513     132      48     515      36      48       0       0       0
211)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                        LINK CARDS : FLARE SATURATION FLOW DATA
                       ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
      TYPE    NO.  FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
212)= 33     321   1900        2     0        0     0        0
213)= 33     324   2100        4     0        0     0        0

*****END OF SUBROUTINE TINPUT*****
.

    120 SECOND CYCLE  60 STEPS

INITIAL SETTINGS
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5      6       7       8       9      10

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

 LINK    FLOW   SAT   DEGREE  MEAN TIMES  -------DELAY--------   ----STOPS----   ----QUEUE----  PERFORMANCE   EXIT   GREEN TIMES
NUMBER   INTO   FLOW    OF      PER PCU    UNIFORM RANDOM+ COST    MEAN    COST    MEAN              INDEX.      NODE   START  START
         LINK          SAT     CRUISE              OVERSAT  OF    STOPS    OF     MAX.  AVERAGE  WEIGHTED SUM              END    END
                              DELAY   (U+R+O=MEAN Q) DELAY    /PCU   STOPS          EXCESS  OF ( ) VALUES          1ST    2ND
       (PCU/H) (PCU/H)  (%)  (SEC) (SEC)   (PCU-H/H)  ($/H)    (%)   ($/H)   (PCU)  (PCU)     ($/H)                (SECONDS)

  111     468   1975     61  15.0  35.0    3.8 +  0.8  ( 64.5)     81  ( 12.1)      13              76.6      1      1  47
  112     734   2095     89  15.0  53.3    7.0 +  3.9  (154.2)     104 ( 24.6)      27             178.8      1      1  47
  114      14   1955     10  15.0  64.9    0.2 +  0.1  (  3.6)     101 (  0.5)       0               4.0      1    107 115
  115      10   1955      6  15.0  60.1    0.1 +  0.0  (  2.4)      97 (  0.3)       0               2.7      1    105 115
  116      10   1955      6  15.0  60.1    0.1 +  0.0  (  2.4)      97 (  0.3)       0               2.7      1    105 115
  117      10   2055      1   5.3  22.9    0.1 +  0.0  (  0.9)      82 (  0.3)       0               1.2      1      1  76
  118     820   2250     60  62.2   7.1    0.9 +  0.7  ( 22.9)      24 (  6.4)       9              29.3      1      4  76
  119     382   2095     30  62.3   3.8    0.2 +  0.2  (  5.7)      12 (  1.5)       2               7.1      1      4  76
  120     359   2000     90   5.3 106.5    6.9 +  3.7  (150.8)     111 ( 12.7)      14     +       163.5      1     53  76
  121     207   1895     87  15.0 102.0    3.0 +  2.9  ( 83.3)     133 (  8.8)      10              92.1      1     83  97
  122      69   1915     29   4.9  58.2    0.9 +  0.2  ( 15.8)      97 (  2.1)       2              18.0      1     83  97
  211     611   1932     50  62.3  17.9    2.5 +  0.5  ( 43.1)      75 ( 14.7)      16              57.8      2     65  20
  212     611   2075     46  62.3   4.7    0.4 +  0.4  ( 11.2)      22 (  4.4)       6              15.6      2     65  20
  213     175   1741     45   2.6  57.6    2.4 +  0.4  ( 39.7)      66 (  3.7)       4              43.4      2    114  20
  214     118   1967     16  15.0  27.2    0.8 +  0.1  ( 12.6)      65 (  2.5)       3              15.1      2    116  41
  215     319   3000     80  15.0  71.7    4.5 +  1.9  ( 90.2)     111 ( 11.4)      12             101.6      2     26  41
  217     242   1832     34   3.0  11.5    0.5 +  0.3  ( 11.0)      54 (  4.2)       5              15.2      2     63 109
  218     696   2000     95  26.3  60.2    4.8 +  6.9  (165.4)     113 ( 25.4)      29             190.7      2     65 108
  219     700   2400     80  26.3  29.8    3.9 +  1.9  ( 82.3)      37 (  8.4)       9              90.7      2     65 108
  220      70   1882     45   7.5  73.0    1.0 +  0.4  ( 20.1)     109 (  2.5)       3              22.6      2     46  55
  221      28   1915     25   3.0  38.5    0.1 +  0.2  (  4.3)     102 (  0.9)       1               5.2      2     65 110
  311     405    715     72   4.5  14.6    0.4 +  1.2  ( 23.3)      67 (  8.7)      10     +        32.0
  312     372   1925     55  26.3  29.6    2.4 +  0.6  ( 43.4)      85 ( 10.1)      11              53.5      3     69 110
  313     371   2085     51  26.3  38.9    3.5 +  0.5  ( 56.9)      56 (  6.7)       7              63.5      3     69 110
  314     248   2085     34  11.3  19.4    1.1 +  0.3  ( 19.0)      27 (  2.1)       2              21.1      3     69 110
  315      95   1837     37   3.8  24.0    0.3 +  0.3  (  9.0)      52 (  1.6)       2              10.6      3     69 112
  316     300   2100    107  16.1 227.1    4.1 + 14.8  (268.8)     197 ( 18.9)      25             287.7      3    117  12
  317     373   2100    152  16.1 710.6    8.4 + 65.2  (999.9)     251 ( 30.1)      79     +      1075.6      3    117  10
  318     141   2053     59   2.6  62.3    1.7 +  0.7  ( 34.7)     112 (  5.1)       5              39.7      3    117  10
  321     585   2233f    58  15.0  20.1    2.6 +  0.7  ( 46.5)      62 ( 11.6)      15              58.1      3     55 108
  322     585   2100     62  15.0  20.4    2.5 +  0.8  ( 47.2)      49 (  9.2)      11              56.4      3     55 108
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323	390	2075	42	15.0	16.1	1.4 +	0.4	(24.8)	27	(3.4)	4		28.2	3	55	108		
324	503	3300f	153	4.1	698.6	9.5 +	88.1	(999.9)	251	(40.6)	107	+	1426.7	3	55	66		
326	357	2150	77	15.0	60.2	4.4 +	1.6	(84.8)	104	(11.9)	13		96.7	3	22	47		
327	396	2150	85	15.0	69.1	5.0 +	2.6	(108.0)	112	(14.2)	15		122.1	3	22	47		
328	224	1999	52	3.0	50.0	2.6 +	0.5	(44.2)	92	(6.6)	7		50.8	3	22	47		
411	595<	1965	40	15.0	6.0	0.7 +	0.3	(14.0)	25	(5.1)	6		19.1	4	45	15		
412	456	2105	29	15.0	4.2	0.3 +	0.2	(7.5)	12	(1.7)	2		9.2	4	45	15		
413	195	2105	12	15.0	5.1	0.2 +	0.1	(4.0)	17	(1.0)	1		5.0	4	45	15		
414	239	2000	96	4.5	152.2	4.6 +	5.5	(143.5)	158	(12.1)	13	+	155.6	4	5	19		
415	343	1807	69	15.0	50.4	3.7 +	1.1	(68.3)	95	(10.5)	11		78.8	4	7	39		
416	198	1915	62	15.0	61.2	2.6 +	0.8	(47.8)	101	(6.5)	7		54.2	4	20	39		
417	234	1786	21	3.8	11.8	0.6 +	0.1	(10.9)	42	(3.1)	3		14.0	4	46	0		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY: UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	STOPS: MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	QUEUE: MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
418	482	2200	35	15.0	12.8	1.4 +	0.3	(24.4)	46	(7.2)	8		31.6	4	46	0		
419	752	2095	57	15.0	16.4	2.8 +	0.7	(48.6)	57	(13.7)	15		62.4	4	46	0		
420	487	2095	37	6.0	13.2	1.5 +	0.3	(25.3)	47	(7.3)	8		32.7	4	46	0		
511	35	1854	20	7.5	35.0	0.2 +	0.1	(4.8)	121	(1.4)	1		6.2	5	25	35	85	95
512	773	2113	73	15.0	19.2	2.8 +	1.4	(58.5)	80	(19.8)	14		78.4	5	100	0	40	78
513	132	1800	51	3.8	33.4	0.7 +	0.5	(17.4)	119	(5.0)	3		22.4	5	100	2	40	80
514	71	1769	27	15.0	31.8	0.4 +	0.2	(8.9)	97	(2.2)	1		11.1	5	25	33	85	93
515	855	4010	43	16.1	5.4	0.9 +	0.4	(18.1)	35	(9.7)	7		27.8	5	100	0	40	78
-1001	382	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.8					
-1002	903	4000	23	15.0	0.6	0.0 +	0.1	(2.1)	0	(0.1)	0		2.2					
-1003	32	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	432	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-1111	10	10000	0	3.6	23.9	0.1 +	0.0	(0.9)	61	(0.0)	0		1.0	1	53	97		
-1112	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	1	108	115		
-1113	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1114	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1115	10	10000	0	3.6	4.0	0.0 +	0.0	(0.2)	23	(0.0)	0		0.2	1	106	76		
-1116	10	10000	0	3.6	32.2	0.1 +	0.0	(1.3)	71	(0.0)	0		1.3	1	82	115		
-2001	431	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-2002	78	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	46	108		
-2112	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	2	20	40		
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	25	55		
-2115	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	113	55		
-2116	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	114	57		
-2117	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	2	63	108		
-3001	700<	4000	18	3.8	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-3002	1105<	4000	28	15.0	0.6	0.0 +	0.2	(2.7)	0	(0.2)	0		2.9					
-3111	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	76	(0.0)	0		1.4	3	113	20		
-3112	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	3	69	48		
-3113	10	10000	0	3.6	32.9	0.1 +	0.0	(1.3)	72	(0.0)	0		1.3	3	23	54		
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	52	12		
-3115	10	10000	0	3.6	7.4	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	3	75	109	21	47
-3116	10	10000	0	3.6	16.4	0.0 +	0.0	(0.6)	50	(0.0)	0		0.7	3	115	52		
-3117	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	118	15		
-3118	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	3	15	107		
-3119	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	0	17		
-4001	694<	4000	17	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-4002	522	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-4003	228	4000	6	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5					
-4004	473	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0					
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	20	33		
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	24	33		
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	15	33		
-4114	10	10000	0	3.6	8.3	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	4	44	0		
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	44	15		
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	26	33		
-5001	855	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.1					
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	178	4000	4	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4					
-5111	10	10000	1	3.6	50.4	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	5	7	18		

*** f - average saturation flow for flared link ***

.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
4949.6	436.2	11.3	117.4	215.7	(4730.5) +	(434.7) +	(0.0) =	5165.1	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	337.7	+	386.6	+	198.6	=	923.0

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 94

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	4	115	47	76	97	
2	4	55	108	20	39	
3	4	46	64	107	10	
4	3	33	0	15		
5	5	93	0	18	33	78

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
4949.6	436.2	11.3	117.4	215.7	(4730.5) +	(434.7) +	(0.0) =	5165.1	TOTALS

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 503

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

```
    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  512
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18
 - (SECONDS)

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  548
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48
 - (SECONDS)

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  546
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18
 - (SECONDS)

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  561
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  18  48  18   1
 - (SECONDS)

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
    5       5      93       0      18      33      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME    JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)        ($/H)        ($/H)

  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   12
NO. OF LINKS RECALCULATED=  647
.

    120 SECOND CYCLE  60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   18  48  18  48  18   1   1
 - (SECONDS)

  NODE   NUMBER   STAGE   STAGE   STAGE   STAGE   STAGE  STAGE   STAGE   STAGE   STAGE   STAGE
   NO   OF STAGES   1       2       3       4       5       6       7       8       9      10

    1       4     115      47      76      97
    2       4      55     108      20      39
    3       4      46      64     107      10
    4       3      33       0      15
```

5 5 93 0 18 33 78

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END 1ST	START 2ND	END 2ND
111	468	1975	61	15.0	35.0	3.8 +	0.8	(64.5)	81	(12.1)	13		76.6	1	1	47		
112	734	2095	89	15.0	53.3	7.0 +	3.9	(154.2)	104	(24.6)	27		178.8	1	1	47		
114	14	1955	10	15.0	64.9	0.2 +	0.1	(3.6)	101	(0.5)	0		4.0	1	107	115		
115	10	1955	6	15.0	60.1	0.1 +	0.0	(2.4)	97	(0.3)	0		2.7	1	105	115		
116	10	1955	6	15.0	60.1	0.1 +	0.0	(2.4)	97	(0.3)	0		2.7	1	105	115		
117	10	2055	1	5.3	22.9	0.1 +	0.0	(0.9)	82	(0.3)	0		1.2	1	1	76		
118	820	2250	60	62.2	7.1	0.9 +	0.7	(22.9)	24	(6.4)	9		29.3	1	4	76		
119	382	2095	30	62.3	3.8	0.2 +	0.2	(5.7)	12	(1.5)	2		7.1	1	4	76		
120	359	2000	90	5.3	106.5	6.9 +	3.7	(150.8)	111	(12.7)	14	+	163.5	1	53	76		
121	207	1895	87	15.0	102.0	3.0 +	2.9	(83.3)	133	(8.8)	10		92.1	1	83	97		
122	69	1915	29	4.9	58.2	0.9 +	0.2	(15.8)	97	(2.1)	2		18.0	1	83	97		
211	611	1932	50	62.3	17.9	2.5 +	0.5	(43.1)	75	(14.7)	16		57.8	2	65	20		
212	611	2075	46	62.3	4.7	0.4 +	0.4	(11.2)	22	(4.4)	6		15.6	2	65	20		
213	175	1741	45	2.6	57.6	2.4 +	0.4	(39.7)	66	(3.7)	4		43.4	2	114	20		
214	118	1967	16	15.0	27.2	0.8 +	0.1	(12.6)	65	(2.5)	3		15.1	2	116	41		
215	319	3000	80	15.0	71.7	4.5 +	1.9	(90.2)	111	(11.4)	12		101.6	2	26	41		
217	242	1832	34	3.0	11.5	0.5 +	0.3	(11.0)	54	(4.2)	5		15.2	2	63	109		
218	696	2000	95	26.3	60.2	4.8 +	6.9	(165.4)	113	(25.4)	29		190.7	2	65	108		
219	700	2400	80	26.3	29.8	3.9 +	1.9	(82.3)	37	(8.4)	9		90.7	2	65	108		
220	70	1882	45	7.5	73.0	1.0 +	0.4	(20.1)	109	(2.5)	3		22.6	2	46	55		
221	28	1915	25	3.0	38.5	0.1 +	0.2	(4.3)	102	(0.9)	1		5.2	2	65	110		
311	405	715	72	4.5	14.6	0.4 +	1.2	(23.3)	67	(8.7)	10	+	32.0					
312	372	1925	55	26.3	29.6	2.4 +	0.6	(43.4)	85	(10.1)	11		53.5	3	69	110		
313	371	2085	51	26.3	38.9	3.5 +	0.5	(56.9)	56	(6.7)	7		63.5	3	69	110		
314	248	2085	34	11.3	19.4	1.1 +	0.3	(19.0)	27	(2.1)	2		21.1	3	69	110		
315	95	1837	37	3.8	24.0	0.3 +	0.3	(9.0)	52	(1.6)	2		10.6	3	69	112		
316	300	2100	107	16.1	227.1	4.1 +	14.8	(268.8)	197	(18.9)	25		287.7	3	117	12		
317	373	2100	152	16.1	710.6	8.4 +	65.2	(999.9)	251	(30.1)	79	+	1075.6	3	117	10		
318	141	2053	59	2.6	62.3	1.7 +	0.7	(34.7)	112	(5.1)	5		39.7	3	117	10		
321	585	2233f	58	15.0	20.1	2.6 +	0.7	(46.5)	62	(11.6)	15		58.1	3	55	108		
322	585	2100	62	15.0	20.4	2.5 +	0.8	(47.2)	49	(9.2)	11		56.4	3	55	108		
323	390	2075	42	15.0	16.1	1.4 +	0.4	(24.8)	27	(3.4)	4		28.2	3	55	108		
324	503	3300f	153	4.1	698.6	9.5 +	88.1	(999.9)	251	(40.6)	107	+	1426.7	3	55	66		
326	357	2150	77	15.0	60.2	4.4 +	1.6	(84.8)	104	(11.9)	13		96.7	3	22	47		
327	396	2150	85	15.0	69.1	5.0 +	2.6	(108.0)	112	(14.2)	15		122.1	3	22	47		
328	224	1999	52	3.0	50.0	2.6 +	0.5	(44.2)	92	(6.6)	7		50.8	3	22	47		
411	595<	1965	40	15.0	6.0	0.7 +	0.3	(14.0)	25	(5.1)	6		19.1	4	45	15		
412	456	2105	29	15.0	4.2	0.3 +	0.2	(7.5)	12	(1.7)	2		9.2	4	45	15		
413	195	2105	12	15.0	5.1	0.2 +	0.1	(4.0)	17	(1.0)	1		5.0	4	45	15		
414	239	2000	96	4.5	152.2	4.6 +	5.5	(143.5)	158	(12.1)	13	+	155.6	4	5	19		
415	343	1807	69	15.0	50.4	3.7 +	1.1	(68.3)	95	(10.5)	11		78.8	4	7	39		
416	198	1915	62	15.0	61.2	2.6 +	0.8	(47.8)	101	(6.5)	7		54.2	4	20	39		
417	234	1786	21	3.8	11.8	0.6 +	0.1	(10.9)	42	(3.1)	3		14.0	4	46	0		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN PER CRUISE (SEC)	TIMES PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	OVERSAT	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END 1ST	START 2ND	END 2ND
418	482	2200	35	15.0	12.8	1.4 +	0.3	(24.4)	46	(7.2)	8		31.6	4	46	0		
419	752	2095	57	15.0	16.4	2.8 +	0.7	(48.6)	57	(13.7)	15		62.4	4	46	0		
420	487	2095	37	6.0	13.2	1.5 +	0.3	(25.3)	47	(7.3)	8		32.7	4	46	0		
511	35	1854	20	7.5	35.0	0.2 +	0.1	(4.8)	121	(1.4)	1		6.2	5	25	35	85	95
512	773	2113	73	15.0	19.2	2.8 +	1.4	(58.5)	80	(19.8)	14		78.4	5	100	0	40	78
513	132	1800	51	3.8	33.4	0.7 +	0.5	(17.4)	119	(5.0)	3		22.4	5	100	2	40	80
514	71	1769	27	15.0	31.8	0.4 +	0.2	(8.9)	97	(2.2)	1		11.1	5	25	33	85	93
515	855	4010	43	16.1	5.4	0.9 +	0.4	(18.1)	35	(9.7)	7		27.8	5	100	0	40	78
-1001	382	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.8					
-1002	903	4000	23	15.0	0.6	0.0 +	0.1	(2.1)	0	(0.1)	0		2.2					
-1003	32	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	432	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-1111	10	10000	0	3.6	23.9	0.1 +	0.0	(0.9)	61	(0.0)	0		1.0	1	53	97		
-1112	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	1	108	115		
-1113	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1114	10	10000	0	3.6	2.4	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	1	1	97		
-1115	10	10000	0	3.6	4.0	0.0 +	0.0	(0.2)	23	(0.0)	0		0.2	1	106	76		
-1116	10	10000	0	3.6	32.2	0.1 +	0.0	(1.3)	71	(0.0)	0		1.3	1	82	115		
-2001	431	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		0.9					
-2002	78	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	46	108		
-2112	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	2	20	40		
-2113	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	2	25	55		
-2115	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	113	55		
-2116	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	114	57		
-2117	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	2	63	108		
-3001	700<	4000	18	3.8	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-3002	1105<	4000	28	15.0	0.6	0.0 +	0.2	(2.7)	0	(0.2)	0		2.9					
-3111	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	76	(0.0)	0		1.4	3	113	20		
-3112	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	3	69	48		
-3113	10	10000	0	3.6	32.9	0.1 +	0.0	(1.3)	72	(0.0)	0		1.3	3	23	54		
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	52	12		
-3115	10	10000	0	3.6	7.4	0.0 +	0.0	(0.3)	45	(0.0)	0		0.3	3	75	109	21	47
-3116	10	10000	0	3.6	16.4	0.0 +	0.0	(0.6)	50	(0.0)	0		0.7	3	115	52		
-3117	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	118	15		
-3118	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	3	15	107		
-3119	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	0	17		
-4001	694<	4000	17	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-4002	522	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-4003	228	4000	6	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5					
-4004	473	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0					
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	20	33		
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	24	33		
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	15	33		
-4114	10	10000	0	3.6	8.3	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	4	44	0		
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	44	15		
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	26	33		
-5001	855	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.1					
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	178	4000	4	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4					
-5111	10	10000	1	3.6	50.4	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	5	7	18		

*** f - average saturation flow for flared link ***

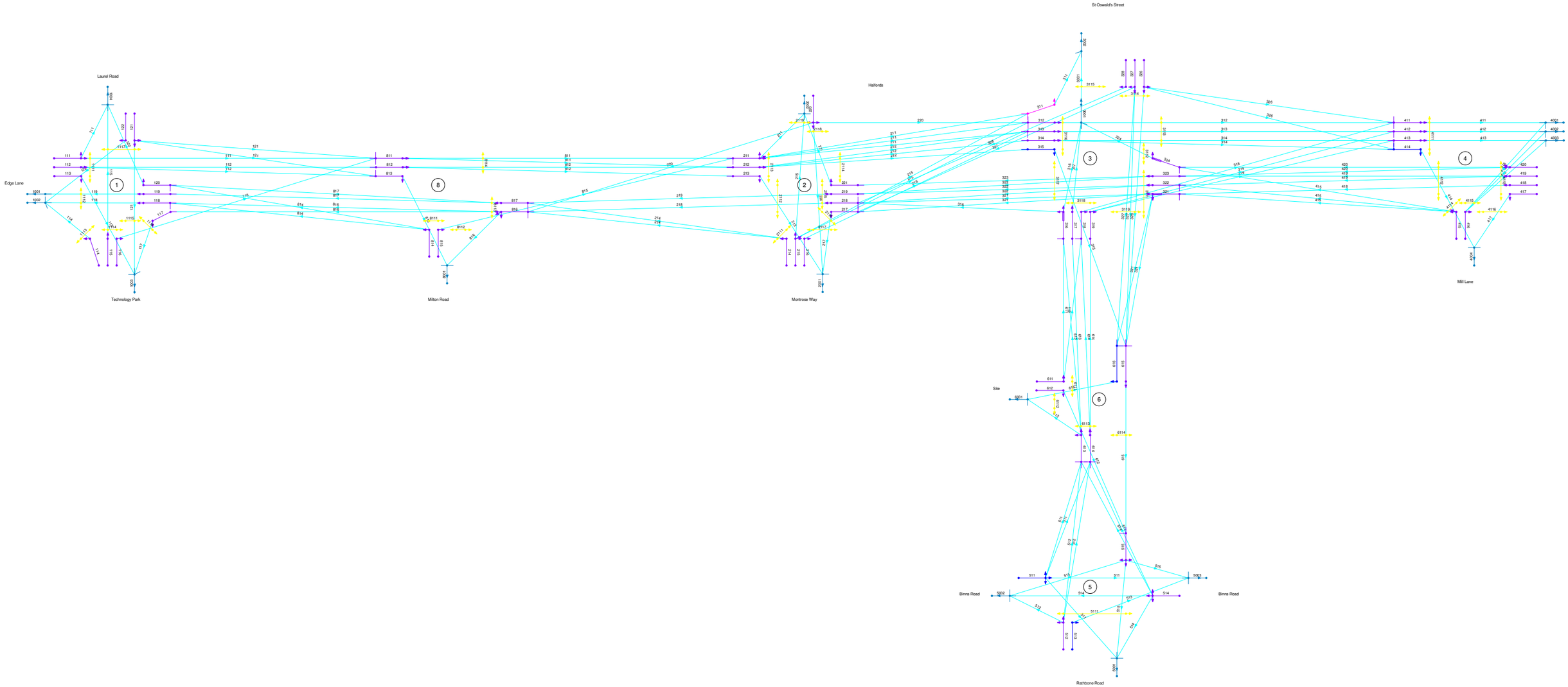
.

120 SECOND CYCLE 60 STEPS

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)

```
  4949.6         436.2       11.3        117.4    215.7    (4730.5) + (  434.7)  +  (   0.0)   =    5165.1      TOTALS
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE

*************************************************************************************************************************
                                    CRUISE              DELAY              STOPS              TOTALS
                                LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR     LITRES PER HOUR

FUEL CONSUMPTION PREDICTIONS       337.7         +     386.6         +     198.6         =     923.0

NO. OF ENTRIES TO SUBPT  =   12
NO. OF LINKS RECALCULATED=  647

PROGRAM TRANSYT FINISHED
```

Edge Lane – Transyt Link / Node Diagram - Proposed



2010 Edge Lane AM Peak - Proposed

PRT File
2010 AM Peak : 07:45 - 08:45

1 T R A N S Y T 12

Traffic Network Study Tool

Analysis Program Release 5 (January 2007)

For sales and distribution information,
program advice and maintenance, contact:

TRL Limited Tel: +44 (0) 1344 770758
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

Run with file:- "2010 AM PEAK PROPOSED.DAT" at 16:39 on 20100929

TRANSYT 12.0

Edge Lane - AM Peak

PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :

NUMBER OF NODES	=	7
NUMBER OF LINKS	=	120
NUMBER OF OPTIMISED NODES	=	7
MAXIMUM NUMBER OF GRAPHIC PLOTS	=	0
NUMBER OF STEPS IN CYCLE	=	60
MAXIMUM NUMBER OF SHARED STOPLINES	=	0
MAXIMUM NUMBER OF TIMING POINTS	=	5
MAXIMUM LINKS AT ANY NODE	=	24

CORE REQUESTED = 21339 WORDS
CORE AVAILABLE = 96000 WORDS

.

DATA INPUT :-

CARD NO.	CARD TYPE	
(1)=	TITLE:- Edge Lane - AM Peak	

CARD NO.	CARD TYPE	CYCLE TIME (SEC)	NO. OF STEPS PER CYCLE	TIME PERIOD 1-1200 MINS.	EFFECTIVE-GREEN DISPLACEMENTS START (SEC)	END (SEC)	EQUISAT SETTINGS 0=NO 1=YES	0=UNEQUAL CYCLE 1=EQUAL CYCLE	FLOW SCALE 10-200 %	CRUISE-SPEEDS SCALE 50-200 %	CARD32 0=TIMES 1=SPEEDS	OPTIMISE 0=NONE 1=O/SET 2=FULL	EXTRA COPIES FINAL OUTPUT	HILL-CLIMB OUTPUT 1=FULL	DELAY VALUE P PER PCU-H	STOP VALUE P PER 100
2)=	1	120	60	60	2	3	1	1	100	100	1	2	0	0	1420	260

CARD NO.	CARD TYPE	LIST OF NODES TO BE OPTIMISED													
3)=	2	1	2	3	4	5	6	8	0	0	0	0	0	0	0	0

NODE CARDS: MINIMUM STAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
4)=	10	1	7	0	6	7	4					
5)=	10	2	2	2	5	7	7					
6)=	10	3	7	5	4	5						
7)=	10	4	7	3	7							
8)=	10	5	10	10	7	10	7					
9)=	10	6	7	5								
10)=	10	8	7	0	7							

NODE CARDS: PRECEDING INTERSTAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
11)=	11	1	7	10	6	7	11					
12)=	11	2	10	5	8	6	9					
13)=	11	3	9	11	13	13						
14)=	11	4	13	7	11							
15)=	11	5	7	7	7	7	7					
16)=	11	6	7	9								
17)=	11	8	8	10	8							

NODE CARDS: STAGE CHANGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	Sgl/Dbl Cycled	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
18)=	12	1	1	29	43	91	112	14					
19)=	12	2	1	100	112	55	71	84					
20)=	12	3	1	91	117	34	54						
21)=	12	4	1	70	35	49							
22)=	12	5	1	8	45	62	86	111					
23)=	12	6	1	65	51								
24)=	12	8	1	116	91	101							

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 ONLY % FLOW	GIVEWAY COEFFS. A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
25)=	30	311	-3001	0	0	22	0	0	0	0	0	60	0	715	0	0
26)=	30	315	321	0	0	50	0	0	0	0	0	350	0	1000	0	0
27)=	30	414	418	0	0	50	0	0	0	0	0	60	0	1000	0	0
28)=	30	511	514	0	0	50	0	0	0	0	0	100	0	1000	0	0
29)=	30	513	515	0	0	50	0	0	0	0	0	50	0	1000	0	0
30)=	30	616	614	0	0	50	0	0	0	0	0	110	0	1000	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	FIRST GREEN START STAGE	LAG	END STAGE	LAG	SECOND GREEN START STAGE	LAG	END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	111	1	1	6	3	0	0	0	0	0	200	0	1975	0	0
32)=	31	112	1	1	6	3	0	0	0	0	0	200	0	2095	0	0

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	155	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
82)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	4	7	5	0	85	0	4010	0	0
84)=	31	611	6	2	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	2	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	2	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	2	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	2	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	2	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	65	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	2	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	2	9	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	7	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD	CARD	LINK	TOTAL	UNIFORM	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE
NO.	TYPE	NO.	FLOW	FLOW	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED
150)=	32	111	609	0	0	0	48	0	0	0	0	0	0	0	0	0

```
151)=  32     112     608       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      36       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      10       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      10       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      10       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      19       0     816      19      48       0       0       0       0       0       0       0       0       0
157)=  32     118     864       0     814      74      48     816     790      48       0       0       0       0       0       0
158)=  32     119     486       0     817     512      48       0       0       0       0       0       0       0       0       0
159)=  32     120     210       0     814      12      48     817     198      48       0       0       0       0       0       0
160)=  32     121     209       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122     148       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     604       0     811     687      48     815      73      48       0       0       0       0       0       0
163)=  32     212     604       0     811      90      48     812     514      48       0       0       0       0       0       0
164)=  32     213     119       0     812     119      48       0       0       0       0       0       0       0       0       0
165)=  32     214      97       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215      74       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216      43       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     191       0     321     174      10     327      17      48       0       0       0       0       0       0
169)=  32     218     927       0     316      48      48     321     149      48     322     568      48     328     162      48
170)=  32     219     927       0     322     347      48     323     588      48       0       0       0       0       0       0
171)=  32     220      30       0       0       0      48       0       0       0       0       0       0       0       0       0
172)=  32     221      23       0     323      23      48       0       0       0       0       0       0       0       0       0
173)=  32     311     156       0     211     143      48     215      13      48       0       0       0       0       0       0
174)=  32     312     411       0     211     350      48     215      51      48     220      10      48       0       0       0
175)=  32     313     411       0     211     101      48     212     259      48     216      43      48       0       0       0
176)=  32     314     274       0     212     274      48       0       0       0       0       0       0       0       0       0
177)=  32     315      71       0     212      71      48       0       0       0       0       0       0       0       0       0
178)=  32     316     177       0     611      10      48     613     167      48       0       0       0       0       0       0
179)=  32     317     176       0     613     244      48       0       0       0       0       0       0       0       0       0
180)=  32     318     137       0     611      10      48     614     127      48       0       0       0       0       0       0
181)=  32     319     136       0     614     136      48       0       0       0       0       0       0       0       0       0
182)=  32     321     915       0     415     110      48     418     805      48       0       0       0       0       0       0
183)=  32     322     915       0     415      73      48     419     842      48       0       0       0       0       0       0
184)=  32     323     611       0     419     367      48     420     244      48       0       0       0       0       0       0
185)=  32     324     407       0     415     183      48     420     224      48       0       0       0       0       0       0
186)=  32     326     426       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     442       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     162       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411     642       0     312     411      48     318     137      48     326      94      48       0       0       0
190)=  32     412     493       0     313     411      48     319      82      48       0       0       0       0       0       0
191)=  32     413     250       0     314     196      48     319      54      48       0       0       0       0       0       0
192)=  32     414     171       0     314      78      48     326      93      48       0       0       0       0       0       0
193)=  32     415     366       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     327       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     359       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     805       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419    1209       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     468       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      41       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512     635       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513      47       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514     368       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515    1435       0     612      16      48     615    1419      48       0       0       0       0       0       0
204)=  32     611      20       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612      16       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     422       0     511      10      48     512     392      48     514      20      48       0       0       0
207)=  32     614     263       0     511      10      48     512     233      48     514      20      48       0       0       0
208)=  32     615    1419       0     315      71      48     321     578      48     326     239      48     327     409      48
209)=  32     616      30       0     321      14      48     327      16      48       0       0       0       0       0       0
210)=  32     811     777       0     111     583      48     116      10      48     121     184      48       0       0       0
211)=  32     812     633       0     112     598      48       0       0       0       0       0       0       0       0       0
212)=  32     813      16       0     112      10      48     121      10      48       0       0       0       0       0       0
213)=  32     814      86       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815      73       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816     995       0     214      58      48     218     927      48     220      10      48       0       0       0
216)=  32     817     710       0     214      39      48     219     927      48       0       0       0       0       0       0
217)=  32   -1001     486       0     119     486      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002    1022       0     114      10      48     118     864      48     122     148      48       0       0       0
219)=  32   -1003      70       0     113      36      48     117      19      48     121      15      48       0       0       0
220)=  32   -1004     246       0     111      26      48     115      10      48     120     210      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     320       0     213     119      48     217     191      48     220      10      48       0       0       0
228)=  32   -2002      43       0     211      10      48     215      10      48     221      23      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001     712       0     316     129      48     317     176      48     324     407      48       0       0       0
238)=  32   -3002     868       0     311     156      48   -3001     712      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001     806       0     411     642      48     416     164      48       0       0       0       0       0       0
249)=  32   -4002     602       0     412     493      48     416     109      48       0       0       0       0       0       0
250)=  32   -4003     304       0     413     250      48     416      54      48       0       0       0       0       0       0
251)=  32   -4004     530       0     414     171      48     417     359      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001    1718       0     511      11      48     514     318      48     515    1389      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003      83       0     511      10      48     513      47      48     515      36      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001      41       0     613      11      48     616      30      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     202       0     813      16      48     816     186      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
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       TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
270)=  33     316    1800       1       0       0       0       0
271)=  33     321    1900       2       0       0       0       0
272)=  33     324    2100       5       0       0       0       0
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USER-DEFINED ROUTES

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CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

273)=  41       1    St Oswald's St - Rathbone Rd
274)=  41       2    Edge Lane Drive - Rathbone Road

CARD   CARD  ROUTE    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO    TYPE  NUMBER    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.

275)=  42       1     327     615     515    5001
276)=  42       2     418     321     615     515    5001

*****END OF SUBROUTINE TINPUT*****
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120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	29	43	87	110	14					
2	5	100	112	55	71	84					
3	4	91	119	34	54						
4	3	70	36	49							
5	5	8	45	62	86	111					
6	2	65	51								
8	3	116	91	101							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	609	1975	70	15.0	33.8	4.6 +	1.1	(81.2)	82	(16.1)	17		97.3	1	35	87		
112	608	2095	66	15.0	32.0	4.4 +	1.0	(76.7)	79	(15.5)	17		92.2	1	35	87		
113	36	1955	28	4.5	72.3	0.5 +	0.2	(10.3)	108	(1.2)	1		11.5	1	36	43		
114	10	1955	3	15.0	48.2	0.1 +	0.0	(1.9)	86	(0.3)	0		2.2	1	24	43		
115	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	22	29		
116	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	22	29		
117	20	2055	2	5.3	16.5	0.1 +	0.0	(1.3)	64	(0.4)	0		1.7	1	52	111		
118	863	2250	77	62.3	26.4	4.7 +	1.6	(89.8)	62	(17.3)	20		107.0	1	52	111		
119	485	2095	46	62.3	22.7	2.6 +	0.4	(43.4)	46	(7.3)	8		50.7	1	52	111		
120	209	2000	66	5.3	66.6	2.9 +	1.0	(54.9)	108	(7.3)	8		62.2	1	93	111		
121	209	1895	74	15.0	71.8	2.8 +	1.3	(59.2)	110	(7.4)	8		66.6	1	117	14		
122	148	1915	52	4.9	59.8	1.9 +	0.5	(34.9)	99	(4.7)	5		39.6	1	117	14		
211	604	1932	50	62.3	11.7	1.5 +	0.5	(28.0)	41	(7.9)	9		35.8	2	117	71		
212	605	2075	47	62.2	6.6	0.7 +	0.4	(15.7)	20	(3.9)	5		19.5	2	117	71		
213	119	1741	75	9.0	124.0	2.7 +	1.4	(58.2)	128	(4.9)	5		63.1	2	61	71		
214	97	1967	25	15.0	46.4	1.1 +	0.2	(17.7)	85	(2.7)	3		20.4	2	63	86		
215	74	1900	58	15.0	87.7	1.1 +	0.7	(25.6)	120	(2.8)	3		28.4	2	77	84		
216	43	1900	34	15.0	74.8	0.6 +	0.3	(12.7)	109	(1.5)	2		14.2	2	77	84		
217	191	1832	18	40.2	15.4	0.7 +	0.1	(11.6)	40	(0.1)	3		11.7	2	107	56		
218	926	2100	80	26.3	17.3	2.5 +	2.0	(63.3)	39	(11.6)	13		74.9	2	110	55		
219	928	2400	70	26.3	8.9	1.1 +	1.2	(32.7)	13	(3.9)	4		36.6	2	110	55		
220	30	1882	19	7.5	65.4	0.4 +	0.1	(7.7)	102	(1.0)	1		8.7	2	91	100		
221	23	1700	21	1.5	87.2	0.4 +	0.1	(7.9)	94	(0.7)	1		8.6	2	105	112		
311	156	715	27	4.5	4.8	0.0 +	0.2	(2.9)	9	(0.5)	1		3.4					
312	411	1925	75	26.3	54.3	4.7 +	1.5	(88.0)	82	(10.8)	11		98.8	3	4	37		
313	411	2085	70	26.3	54.4	5.1 +	1.1	(88.2)	80	(10.5)	11		98.7	3	4	37		
314	275	2085	46	26.3	51.2	3.5 +	0.4	(55.5)	73	(6.4)	7		61.9	3	4	37		
315	71	1837	60	26.3	94.7	1.1 +	0.7	(26.5)	118	(2.7)	3		29.2	3	4	39		
316	177	2307f	84	11.6	87.4	2.0 +	2.3	(61.0)	130	(7.4)	8		68.4	3	44	54		
317	177	2120	91	11.6	110.8	1.9 +	3.5	(77.3)	147	(8.3)	9		85.6	3	44	54		
318	136	2100	71	11.6	73.7	1.6 +	1.2	(39.5)	117	(5.1)	6		44.7	3	44	54		
319	136	2053	72	11.6	71.3	1.5 +	1.2	(38.3)	118	(5.2)	6		43.4	3	44	54		
321	915	2228f	88	17.3	31.3	4.5 +	3.5	(112.8)	93	(27.5)	31		140.3	3	100	35		
322	915	2100	93	17.3	39.7	4.2 +	5.9	(143.4)	85	(25.0)	31		168.5	3	100	35		
323	612	2075	63	17.3	16.6	2.0 +	0.9	(40.0)	45	(8.8)	11		48.8	3	100	35		
324	407	2918f	76	17.3	47.4	3.8 +	1.5	(76.1)	96	(12.6)	14		88.6	3	100	1		
326	426	2150	88	15.0	72.9	5.3 +	3.3	(122.5)	115	(15.8)	17		138.3	3	66	92		
327	442	2150	91	15.0	81.0	5.6 +	4.4	(141.2)	121	(17.2)	18		158.5	3	66	92		
328	162	1999	36	3.4	45.5	1.8 +	0.3	(29.1)	87	(4.5)	5		33.6	3	66	92		
411	641	1965	45	15.0	9.2	1.2 +	0.4	(23.4)	34	(7.0)	8		30.4	4	82	49		
412	493	2105	32	15.0	7.0	0.7 +	0.2	(13.6)	24	(3.8)	4		17.3	4	82	49		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
413	251	2105	16	15.0	7.3	0.4 +	0.1	(7.2)	28	(2.2)	2		9.4	4	82	49		
414	171	2000	93	4.5	143.2	2.7 +	4.1	(96.6)	160	(8.8)	10		105.4	4	41	51		
415	366	1807	71	15.0	50.8	3.9 +	1.2	(73.3)	96	(11.3)	12		84.6	4	43	76		
416	327	1915	89	15.0	85.6	4.3 +	3.5	(110.4)	123	(12.9)	14		123.3	4	54	76		
417	359	1786	33	3.7	13.5	1.1 +	0.2	(19.1)	47	(5.4)	6		24.4	4	83	36		
418	805	2200	59	15.0	17.2	3.1 +	0.7	(54.5)	59	(15.2)	17		69.6	4	83	36		
419	1209	2200	89	15.0	31.2	6.6 +	3.9	(148.6)	88	(34.2)	38		182.8	4	83	36		
420	468	2095	36	6.0	13.5	1.5 +	0.3	(25.0)	47	(7.1)	8		32.1	4	83	36		
511	41	1854	34	7.5	47.8	0.3 +	0.3	(7.7)	152	(2.0)	1		9.7	5	69	88	118	10
512	635	2113	72	15.0	24.3	3.0 +	1.3	(60.9)	89	(18.1)	13		79.0	5	15	45	93	111
513	47	1800	52	3.8	66.6	0.3 +	0.5	(12.4)	187	(2.8)	1		15.2	5	15	47	93	113
514	368	1769	86	15.0	51.6	2.5 +	2.8	(74.9)	130	(15.3)	10		90.3	5	69	86	118	8
515	1436	4010	86	6.4	18.6	4.4 +	3.0	(105.2)	91	(41.7)	26		147.0	5	15	45	93	111
611	20	1811	13	7.5	65.1	0.3 +	0.1	(5.1)	101	(0.6)	1		5.8	6	58	67		
612	16	1800	11	7.5	64.8	0.2 +	0.1	(4.1)	101	(0.5)	1		4.6	6	58	67		
613	422	1943	26	6.4	1.5	0.0 +	0.2	(2.5)	1	(0.2)	0		2.7	6	72	53		
614	262	1965	16	6.4	1.3	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5	6	72	53		
615	1420	1965	87	8.3	13.7	2.2 +	3.2	(76.8)	68	(31.1)	43	+	107.9	6	72	51		
616	31	1800	4	8.3	2.6	0.0 +	0.0	(0.3)	2	(0.0)	0		0.3	6	72	53		
811	777	1915	50	27.8	4.1	0.4 +	0.5	(12.5)	12	(3.1)	3		15.6	8	4	101		
812	634	2055	38	27.8	4.0	0.4 +	0.3	(10.0)	15	(3.1)	3		13.1	8	4	101		
813	16	1750	23	5.7	96.3	0.3 +	0.1	(6.1)	128	(0.7)	1		6.7	8	97	101		
814	86	1750	33	15.0	55.7	1.1 +	0.2	(18.9)	95	(2.6)	3		21.5	8	101	118		
815	73	1750	42	4.9	68.2	1.0 +	0.4	(19.6)	105	(2.5)	3		22.1	8	107	118		
816	994	1950	69	15.0	4.6	0.1 +	1.1	(18.0)	8	(2.5)	4		20.4	8	4	91		
817	710	2055	47	15.0	2.4	0.0 +	0.4	(6.8)	3	(0.7)	1		7.6	8	4	91		
-1001	485	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0					
-1002	1021	4000	26	15.0	0.6	0.0 +	0.2	(2.4)	1	(0.2)	0		2.6					

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	UNIFORM	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN START 1ST	END 1ST	START 2ND	END 2ND
-1003	71	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	245	4000	6	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
-1111	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	1	93	14		
-1112	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	1	25	43		
-1113	10	10000	0	3.6	5.1	0.0 +	0.0	(0.2)	27	(0.0)	0		0.2	1	49	14		
-1114	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	1	35	14		
-1115	10	10000	0	3.6	6.8	0.0 +	0.0	(0.3)	43	(0.0)	0		0.3	1	53	110	23	29
-1116	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	117	43		
-2001	320	4000	8	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7					
-2002	43	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	2	91	55		
-2112	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	2	71	84		
-2113	10	10000	1	3.6	54.7	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	76	84		
-2115	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	60	100		
-2116	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	61	100		
-2117	10	10000	0	3.6	12.0	0.0 +	0.0	(0.5)	43	(0.0)	0		0.5	2	108	55		
-2118	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	112	55		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	93	100		
-3001	712	4000	18	3.8	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.7					
-3002	868	4000	22	15.0	0.6	0.0 +	0.1	(2.0)	0	(0.1)	0		2.1					
-3111	10	10000	0	3.6	39.3	0.1 +	0.0	(1.5)	79	(0.0)	0		1.6	3	40	64		
-3112	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	3	4	93		
-3113	10	10000	0	3.6	32.2	0.1 +	0.0	(1.3)	71	(0.0)	0		1.3	3	67	99		
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	97	56		
-3115	10	10000	0	3.6	9.7	0.0 +	0.0	(0.4)	52	(0.0)	0		0.4	3	10	36	65	92
-3116	10	10000	0	3.6	18.0	0.0 +	0.0	(0.7)	53	(0.0)	0		0.7	3	42	97		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST	END	START 2ND	END
-3117	10	10000	1	3.6	47.4	0.1 +	0.0	(1.9)	87	(0.0)	0		1.9	3	45	59		
-3118	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	3	59	34		
-3119	10	10000	1	3.6	47.4	0.1 +	0.0	(1.9)	87	(0.0)	0		1.9	3	47	61		
-4001	806	4000	20	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		1.9					
-4002	602	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.3					
-4003	305	4000	8	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
-4004	530	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-4111	10	10000	1	3.6	46.3	0.1 +	0.0	(1.8)	86	(0.0)	0		1.8	4	54	70		
-4112	10	10000	1	3.6	50.3	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	4	58	70		
-4113	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	4	49	70		
-4114	10	10000	0	3.6	8.4	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	4	81	36		
-4115	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	4	81	49		
-4116	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	4	60	70		
-5001	1719	4000	43	15.0	0.8	0.0 +	0.4	(5.3)	1	(0.4)	0		5.7					
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	82	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	5	52	62		
-6001	42	4000	1	7.5	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-6111	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	6	72	51		
-6112	10	10000	2	3.6	58.8	0.2 +	0.0	(2.3)	97	(0.0)	0		2.3	6	60	65		
-6113	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	6	58	65		
-8001	201	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-8111	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	8	3	91		
-8112	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	8	109	116		
-8113	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	8	96	116		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6845.4	348.3	19.7	128.6	75.5	(2897.3) +	(522.8) +	(0.0) =	3420.1	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	446.8	+	239.5	+	238.9	=	925.2

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	29	43	87	110	14
2	5	100	112	55	71	84
3	4	91	119	34	54	
4	3	70	36	49		
5	5	8	45	62	86	111
6	2	65	51			
8	3	116	91	101		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6845.4	348.3	19.7	128.6	75.5	(2897.3) +	(522.8) +	(0.0) =	3420.1	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 636

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	29	43	87	110	14
2	5	100	112	55	71	84
3	4	91	119	34	54	
4	3	70	36	49		
5	5	8	45	62	86	111
6	2	65	51			
8	3	116	91	101		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

```
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  6845.4         348.3       19.7        128.6     75.5    (2897.3) + (  522.8)  +  (   0.0)   =    3420.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  644
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1
 - (SECONDS)

    1       5      28      42      89     111      13
    2       5     100     112      55      71      84
    3       4      91     117      34      54
    4       3      70      35      49
    5       5       8      45      62      86     111
    6       2      65      51
    8       3     116      91     101

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  6845.4         346.4       19.8        127.2     74.9    (2870.6) + (  520.8)  +  (   0.0)   =    3391.4      TOTALS

NO. OF ENTRIES TO SUBPT  =   52
NO. OF LINKS RECALCULATED= 1519
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18
 - (SECONDS)

    1       5      28      42      89     111      13
    2       5     100     112      55      71      84
    3       4      91     117      34      54
    4       3      70      35      49
    5       5       8      45      62      86     111
    6       2      65      51
    8       3     116      91     101

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  6845.4         346.4       19.8        127.2     74.9    (2870.6) + (  520.8)  +  (   0.0)   =    3391.4      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  766
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48
 - (SECONDS)

    1       5      28      42      89     111      13
    2       5     100     112      55      71      84
    3       4      91     117      34      54
    4       3      70      35      49
    5       5       8      45      62      86     111
    6       2      65      51
    8       3     116      91     101

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  6845.4         346.4       19.8        127.2     74.9    (2870.6) + (  520.8)  +  (   0.0)   =    3391.4      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  787
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1
 - (SECONDS)

    1       5      29      43      90     112      14
    2       5     100     112      55      71      84
    3       4      91     117      34      54
    4       3      70      35      49
    5       5       8      45      62      86     111
    6       2      65      51
    8       3     116      91     101

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  6845.4         346.4       19.8        127.2     74.9    (2870.4) + (  520.7)  +  (   0.0)   =    3391.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  729
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1  -1
 - (SECONDS)

    1       5      29      43      91     112      14
    2       5     100     112      55      71      84
    3       4      91     117      34      54
    4       3      70      35      49
    5       5       8      45      62      86     111
    6       2      65      51
    8       3     116      91     101

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
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TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)		OF STOPS ($/H)		EXCESS QUEUES ($/H)	INDEX ($/H)	
6845.4	346.4	19.8	127.0	75.1	(2869.6)	+	(520.8)	+	(0.0)	= 3390.5	TOTALS

NO. OF ENTRIES TO SUBPT = 50
NO. OF LINKS RECALCULATED= 1993

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	29	43	91	112	14					
2	5	100	112	55	71	84					
3	4	91	117	34	54						
4	3	70	35	49							
5	5	8	45	62	86	111					
6	2	65	51								
8	3	116	91	101							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END (SECONDS)	GREEN TIMES END (SECONDS)
111	609	1975	65	15.0	29.3	4.0 +	0.9	(70.5)	76	(14.9)	16		85.4	1	35	91		
112	608	2095	61	15.0	27.9	3.9 +	0.8	(67.0)	74	(14.4)	16		81.4	1	35	91		
113	36	1955	28	4.5	72.3	0.5 +	0.2	(10.3)	108	(1.2)	1		11.5	1	36	43		
114	10	1955	3	15.0	48.2	0.1 +	0.0	(1.9)	86	(0.3)	0		2.2	1	24	43		
115	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	22	29		
116	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	22	29		
117	20	2055	2	5.3	16.4	0.1 +	0.0	(1.3)	64	(0.4)	0		1.7	1	52	113		
118	863	2250	74	62.3	23.4	4.2 +	1.4	(79.8)	57	(15.8)	18		95.6	1	52	113		
119	485	2095	45	62.3	20.4	2.3 +	0.4	(39.0)	43	(6.7)	7		45.7	1	52	113		
120	209	2000	74	5.3	77.0	3.1 +	1.4	(63.5)	114	(7.7)	8		71.2	1	97	113		
121	209	1895	83	15.0	88.1	2.9 +	2.2	(72.6)	123	(8.2)	9		80.9	1	119	14		
122	148	1915	58	4.9	65.4	2.0 +	0.7	(38.2)	104	(4.9)	5		43.1	1	119	14		
211	604	1932	50	62.3	11.8	1.5 +	0.5	(28.2)	42	(8.1)	10		36.3	2	117	71		
212	605	2075	47	62.2	7.0	0.7 +	0.4	(16.6)	22	(4.2)	5		20.8	2	117	71		
213	119	1741	75	9.0	122.7	2.7 +	1.4	(57.6)	128	(4.9)	5		62.5	2	61	71		
214	97	1967	25	15.0	46.4	1.1 +	0.2	(17.7)	85	(2.7)	3		20.4	2	63	86		
215	74	1900	58	15.0	87.7	1.1 +	0.7	(25.6)	120	(2.8)	3		28.4	2	77	84		
216	43	1900	34	15.0	74.8	0.6 +	0.3	(12.7)	109	(1.5)	2		14.2	2	77	84		
217	191	1832	18	40.2	15.4	0.7 +	0.1	(11.6)	40	(0.1)	3		11.7	2	107	56		
218	926	2100	80	26.3	17.4	2.5 +	2.0	(63.6)	39	(11.7)	14		75.3	2	110	55		
219	928	2400	70	26.3	9.0	1.2 +	1.2	(33.0)	13	(3.9)	4		36.9	2	110	55		
220	30	1882	19	7.5	65.4	0.4 +	0.1	(7.7)	102	(1.0)	1		8.7	2	91	100		
221	23	1700	21	1.5	87.1	0.4 +	0.1	(7.9)	94	(0.7)	1		8.6	2	105	112		
311	155	715	27	4.5	4.8	0.0 +	0.2	(2.9)	9	(0.5)	1		3.4					
312	411	1925	71	26.3	50.0	4.5 +	1.2	(81.1)	77	(10.2)	11		91.2	3	2	37		
313	411	2085	66	26.3	50.5	4.8 +	1.0	(81.9)	77	(10.1)	11		92.1	3	2	37		
314	274	2085	44	26.3	48.4	3.3 +	0.4	(52.3)	72	(6.3)	7		58.6	3	2	37		
315	71	1837	60	26.3	93.5	1.1 +	0.7	(26.2)	117	(2.7)	3		28.9	3	2	39		
316	177	2307f	84	11.6	87.4	2.0 +	2.3	(61.0)	130	(7.4)	8		68.4	3	44	54		
317	177	2120	91	11.6	110.8	1.9 +	3.5	(77.3)	147	(8.3)	9		85.6	3	44	54		
318	136	2100	71	11.6	73.7	1.6 +	1.2	(39.5)	117	(5.1)	6		44.7	3	44	54		
319	136	2053	72	11.6	71.3	1.5 +	1.2	(38.3)	118	(5.2)	6		43.4	3	44	54		
321	915	2228f	88	17.3	30.8	4.4 +	3.5	(111.3)	93	(27.3)	31		138.6	3	100	35		
322	915	2100	93	17.3	39.6	4.1 +	5.9	(142.8)	84	(24.7)	31		167.5	3	100	35		
323	612	2075	63	17.3	16.3	1.9 +	0.9	(39.3)	44	(8.6)	11		47.9	3	100	35		
324	407	3000f	81	17.3	53.8	4.0 +	2.1	(86.4)	101	(13.2)	15		99.6	3	100	119		
326	426	2150	88	15.0	72.9	5.3 +	3.3	(122.5)	115	(15.8)	17		138.3	3	66	92		
327	442	2150	91	15.0	81.0	5.6 +	4.4	(141.2)	121	(17.2)	18		158.5	3	66	92		
328	162	1999	36	3.4	45.5	1.8 +	0.3	(29.1)	87	(4.5)	5		33.6	3	66	92		
411	641	1965	45	15.0	9.2	1.2 +	0.4	(23.3)	34	(7.0)	8		30.3	4	82	49		
412	493	2105	32	15.0	7.0	0.7 +	0.2	(13.5)	24	(3.8)	4		17.3	4	82	49		

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END (SECONDS)	GREEN TIMES END (SECONDS)
413	251	2105	16	15.0	7.3	0.4 +	0.1	(7.2)	28	(2.2)	2		9.4	4	82	49		
414	171	2000	85	4.5	108.7	2.7 +	2.5	(73.3)	139	(7.6)	8		80.9	4	40	51		
415	366	1807	69	15.0	48.8	3.8 +	1.1	(70.4)	94	(11.1)	12		81.5	4	42	76		
416	327	1915	89	15.0	85.6	4.3 +	3.5	(110.4)	123	(12.9)	14		123.3	4	54	76		
417	359	1786	33	3.7	14.0	1.1 +	0.2	(19.8)	48	(5.5)	6		25.3	4	83	35		
418	805	2200	60	15.0	17.9	3.2 +	0.8	(56.7)	60	(15.5)	17		72.2	4	83	35		
419	1209	2200	90	15.0	33.5	6.9 +	4.4	(159.6)	91	(35.4)	39		195.0	4	83	35		
420	468	2095	37	6.0	14.1	1.5 +	0.3	(26.0)	49	(7.3)	8		33.3	4	83	35		
511	41	1854	34	7.5	47.8	0.3 +	0.3	(7.7)	152	(2.0)	1		9.7	5	69	88	118	10
512	635	2113	72	15.0	24.3	3.0 +	1.3	(60.9)	89	(18.1)	13		79.0	5	15	45	93	111
513	47	1800	52	3.8	66.6	0.3 +	0.5	(12.4)	187	(2.8)	1		15.2	5	15	47	93	113
514	368	1769	86	15.0	51.6	2.5 +	2.8	(74.9)	130	(15.3)	10		90.3	5	69	86	118	8
515	1436	4010	86	6.4	18.6	4.4 +	3.0	(105.2)	91	(41.7)	26		147.0	5	15	45	93	111
611	20	1811	13	7.5	65.1	0.3 +	0.1	(5.1)	101	(0.6)	1		5.8	6	58	67		
612	16	1800	11	7.5	64.8	0.2 +	0.1	(4.1)	101	(0.5)	1		4.6	6	58	67		
613	422	1943	26	6.4	1.5	0.0 +	0.2	(2.5)	1	(0.2)	0		2.7	6	72	53		
614	262	1965	16	6.4	1.3	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5	6	72	53		
615	1420	1965	87	8.3	13.7	2.2 +	3.2	(76.8)	68	(31.1)	43	+	107.9	6	72	51		
616	31	1800	4	8.3	2.6	0.0 +	0.0	(0.3)	2	(0.0)	0		0.3	6	72	53		
811	777	1915	50	27.8	4.3	0.4 +	0.5	(13.1)	14	(3.6)	4		16.7	8	4	101		
812	634	2055	38	27.8	4.3	0.5 +	0.3	(10.8)	18	(3.6)	4		14.4	8	4	101		
813	16	1750	23	5.7	94.9	0.3 +	0.1	(6.0)	127	(0.7)	1		6.6	8	97	101		
814	86	1750	33	15.0	55.7	1.1 +	0.2	(18.9)	95	(2.6)	3		21.5	8	101	118		
815	73	1750	42	4.9	68.2	1.0 +	0.4	(19.6)	105	(2.5)	3		22.1	8	107	118		
816	994	1950	69	15.0	4.6	0.1 +	1.1	(18.0)	8	(2.5)	4		20.4	8	4	91		
817	710	2055	47	15.0	2.4	0.0 +	0.4	(6.8)	3	(0.7)	1		7.6	8	4	91		
-1001	485	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0					
-1002	1021	4000	26	15.0	0.6	0.0 +	0.2	(2.4)	1	(0.2)	0		2.6					
-1003	71	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	245	4000	6	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
-1111	10	10000	0	3.6	28.6	0.1 +	0.0	(1.1)	67	(0.0)	0		1.1	1	97	14		
-1112	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	1	25	43		
-1113	10	10000	0	3.6	5.1	0.0 +	0.0	(0.2)	27	(0.0)	0		0.2	1	49	14		
-1114	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	1	35	14		
-1115	10	10000	0	3.6	6.3	0.0 +	0.0	(0.2)	41	(0.0)	0		0.3	1	53	112	23	29
-1116	10	10000	0	3.6	23.9	0.1 +	0.0	(0.9)	61	(0.0)	0		1.0	1	119	43		
-2001	320	4000	8	15.0	0.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7					
-2002	43	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	2	91	55		
-2112	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	2	71	84		

-2113	10	10000	1	3.6	54.7	0.1 +	0.0	(	2.2)	94	(	0.0)	0			2.2	2	76	84			
-2115	10	10000	0	3.6	27.2	0.1 +	0.0	(	1.1)	65	(	0.0)	0			1.1	2	60	100			
-2116	10	10000	0	3.6	27.2	0.1 +	0.0	(	1.1)	65	(	0.0)	0			1.1	2	61	100			
-2117	10	10000	0	3.6	12.0	0.0 +	0.0	(	0.5)	43	(	0.0)	0			0.5	2	108	55			
-2118	10	10000	0	3.6	13.9	0.0 +	0.0	(	0.5)	46	(	0.0)	0			0.6	2	112	55			
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(	2.2)	94	(	0.0)	0			2.2	2	93	100			
-3001	712	4000	18	3.8	0.6	0.0 +	0.1	(	1.5)	1	(	0.1)	0			1.7						
-3002	868	4000	22	15.0	0.6	0.0 +	0.1	(	2.0)	0	(	0.1)	0			2.1						
-3111	10	10000	0	3.6	39.3	0.1 +	0.0	(	1.5)	79	(	0.0)	0			1.6	3	40	64			
-3112	10	10000	0	3.6	3.7	0.0 +	0.0	(	0.1)	23	(	0.0)	0			0.2	3	2	93			
-3113	10	10000	0	3.6	32.2	0.1 +	0.0	(	1.3)	71	(	0.0)	0			1.3	3	67	99			
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(	0.3)	32	(	0.0)	0			0.3	3	97	56			
-3115	10	10000	0	3.6	9.0	0.0 +	0.0	(	0.4)	50	(	0.0)	0			0.4	3	8	36	65	92	
-3116	10	10000	0	3.6	18.0	0.0 +	0.0	(	0.7)	53	(	0.0)	0			0.7	3	42	97			

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	-------DELAY-------- UNIFORM RANDOM+ COST OVERSAT OF (U+R+O=MEAN Q) DELAY				----STOPS---- MEAN STOPS /PCU		COST OF STOPS	----QUEUE---- MEAN MAX.	AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN TIMES START 1ST		START END 2ND	
	(PCU/H)	(PCU/H)	(%)	(SEC)	(SEC)	(PCU-H/H)			($/H)	(%)		($/H)	(PCU)	(PCU)	($/H)		(SECONDS)			
-3117	10	10000	1	3.6	47.4	0.1 +	0.0	(	1.9)	87	(	0.0)	0		1.9	3	45	59			
-3118	10	10000	0	3.6	2.6	0.0 +	0.0	(	0.1)	18	(	0.0)	0		0.1	3	59	34			
-3119	10	10000	1	3.6	47.4	0.1 +	0.0	(	1.9)	87	(	0.0)	0		1.9	3	47	61			
-4001	805	4000	20	15.0	0.6	0.0 +	0.1	(	1.8)	0	(	0.1)	0		1.9						
-4002	602	4000	15	15.0	0.5	0.0 +	0.1	(	1.3)	0	(	0.1)	0		1.3						
-4003	305	4000	8	15.0	0.5	0.0 +	0.0	(	0.6)	0	(	0.0)	0		0.6						
-4004	530	4000	13	15.0	0.5	0.0 +	0.1	(	1.1)	0	(	0.1)	0		1.2						
-4111	10	10000	1	3.6	46.3	0.1 +	0.0	(	1.8)	86	(	0.0)	0		1.8	4	54	70			
-4112	10	10000	1	3.6	50.3	0.1 +	0.0	(	2.0)	90	(	0.0)	0		2.0	4	58	70			
-4113	10	10000	1	3.6	41.0	0.1 +	0.0	(	1.6)	81	(	0.0)	0		1.6	4	49	70			
-4114	10	10000	0	3.6	8.7	0.0 +	0.0	(	0.3)	36	(	0.0)	0		0.3	4	81	35			
-4115	10	10000	0	3.6	4.2	0.0 +	0.0	(	0.2)	24	(	0.0)	0		0.2	4	81	49			
-4116	10	10000	1	3.6	52.4	0.1 +	0.0	(	2.1)	92	(	0.0)	0		2.1	4	60	70			
-5001	1719	4000	43	15.0	0.8	0.0 +	0.4	(	5.3)	1	(	0.4)	0		5.7						
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(	0.1)	0	(	0.0)	0		0.1						
-5003	82	4000	2	15.0	0.5	0.0 +	0.0	(	0.1)	0	(	0.0)	0		0.2						
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(	2.1)	92	(	0.0)	0		2.1	5	52	62			
-6001	42	4000	1	7.5	0.5	0.0 +	0.0	(	0.1)	0	(	0.0)	0		0.1						
-6111	10	10000	0	3.6	2.0	0.0 +	0.0	(	0.1)	16	(	0.0)	0		0.1	6	72	51			
-6112	10	10000	2	3.6	58.8	0.2 +	0.0	(	2.3)	97	(	0.0)	0		2.3	6	60	65			
-6113	10	10000	2	3.6	55.9	0.1 +	0.0	(	2.2)	95	(	0.0)	0		2.2	6	58	65			
-8001	201	4000	5	15.0	0.5	0.0 +	0.0	(	0.4)	0	(	0.0)	0		0.4						
-8111	10	10000	0	3.6	4.2	0.0 +	0.0	(	0.2)	24	(	0.0)	0		0.2	8	3	91			
-8112	10	10000	2	3.6	55.0	0.1 +	0.0	(	2.2)	94	(	0.0)	0		2.2	8	109	116			
-8113	10	10000	1	3.6	42.7	0.1 +	0.0	(	1.7)	82	(	0.0)	0		1.7	8	96	116			

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY		TOTAL COST OF STOPS		PENALTY FOR EXCESS QUEUES		TOTAL PERFORMANCE INDEX		
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)		($/H)		($/H)		($/H)		
6845.4	346.4	19.8	127.0	75.1	(2869.6)	+ (	520.8)	+ (	0.0)	=	3390.5	TOTALS	
												ROUTE	
710.1	37.9	18.7	12.2	10.9	(328.6)	+ (	90.4)	+ (	0.0)	=	419.0	1	
993.1	45.7	21.7	14.3	10.7	(355.4)	+ (	116.0)	+ (	0.0)	=	471.4	2	

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	446.8	+	237.2	+	238.1	=	922.1

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 772

PROGRAM TRANSYT FINISHED

2010 Edge Lane PM Peak - Proposed

PRT File
2010 PM Peak : 16:30 - 17:30

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1           _________________ T R A N S Y T 12 _________________

                         Traffic Network Study Tool

                   Analysis Program Release 5  (January 2007)
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            _____________________________________________________


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 ------------------------------------------------------------------------------

Run with file:- "2010 PM PEAK PROPOSED.DAT"   at 16:40   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    7
  NUMBER OF LINKS                    =  120
  NUMBER OF OPTIMISED NODES          =    7
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   24


  CORE REQUESTED =  21339 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)  CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE     %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120     60      60      2       3        1       1     100     100      1        2       0        0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       6       8       0       0       0       0       0       0       0       0

                                 NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1                7       0       6       7       4
   5)=  10       2                2       2       5       7       7
   6)=  10       3                7       5       4       5
   7)=  10       4                7       3       7
   8)=  10       5               10      10       7
   9)=  10       6                7       0       5
  10)=  10       8                7       0       7

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  11)=  11       1                7      10       6       7      11
  12)=  11       2               10       5       8       6       9
  13)=  11       3                9      11      13      13
  14)=  11       4               13       7      11
  15)=  11       5                7       7       7
  16)=  11       6                7       5       8
  17)=  11       8                8      10       8

                                 NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl    S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  18)=  12       1       1      104     118      45      68      89
  19)=  12       2       1       69      81       4      31      53
  20)=  12       3       1       67      90      11      37
  21)=  12       4       1       48       3      25
  22)=  12       5       1       99      68      85
  23)=  12       6       1      101      82      87
  24)=  12       8       1       83      39      61

                                                      LINK CARDS:   GIVEWAY DATA
                      PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY     A1      A2                                      LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                    LENGTH WT.X100   FLOW  WT.X100   X100
  25)=  30     311    -3001      0       0      22       0       0       0       0       0      60       0     715       0       0
  26)=  30     315      321      0       0      50       0       0       0       0       0     350       0    1000       0       0
  27)=  30     414      418      0       0      50       0       0       0       0       0      60       0    1000       0       0
  28)=  30     511      514      0       0      50       0       0       0       0       0     100       0    1000       0       0
  29)=  30     513      515      0       0      50       0       0       0       0       0      50       0    1000       0       0
  30)=  30     616      614      0       0      50       0       0       0       0       0     110       0    1000       0       0

                                                      LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                            SECOND  GREEN
 CARD   CARD   LINK     EXIT        START              END              START              END       LINK     STOP     SAT   DELAY   DISPSN
 NO.   TYPE    NO.      NODE     STAGE     LAG     STAGE     LAG     STAGE     LAG     STAGE     LAG  LENGTH  WT.X100  FLOW  WT.X100    X100
  31)=  31     111        1        1        6        3        0        0        0        0        0     200       0    1975       0       0
  32)=  31     112        1        1        6        3        0        0        0        0        0     200       0    2095       0       0
```

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	155	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	1	2	0	0	0	0	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	0	0	0	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	0	0	0	0	50	0	1800	0	0
82)=	31	514	5	3	7	1	0	0	0	0	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	0	0	0	0	85	0	4010	0	0
84)=	31	611	6	3	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	3	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	0	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	0	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	3	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	3	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	65	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	3	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	3	8	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	5	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
150)=	32	111	836	0	0	0	48	0	0	0	0	0	0	0	0	0

```
151)=  32     112     836       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      10       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      27       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      20       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      17       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      13       0     816      13      48       0       0       0       0       0       0       0       0       0
157)=  32     118     694       0     814     174      48     816     534      48       0       0       0       0       0       0
158)=  32     119     462       0     817     462      48       0       0       0       0       0       0       0       0       0
159)=  32     120     282       0     814      42      48     817     240      48       0       0       0       0       0       0
160)=  32     121     214       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122     118       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     832       0     811     654      48     815     225      48       0       0       0       0       0       0
163)=  32     212     832       0     811     313      48     812     519      48       0       0       0       0       0       0
164)=  32     213     254       0     812     254      48       0       0       0       0       0       0       0       0       0
165)=  32     214     168       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215     228       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216     146       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     216       0     321     196      48     327      20      48       0       0       0       0       0       0
169)=  32     218     568       0     316      36      48     321     115      48     322     275      48     328     142      48
170)=  32     219     568       0     322     235      48     323     323      48       0       0       0       0       0       0
171)=  32     220      71       0       0       0      48       0       0       0       0       0       0       0       0       0
172)=  32     221      17       0     323      17      48       0       0       0       0       0       0       0       0       0
173)=  32     311     365       0     211     299      48     215      66      48       0       0       0       0       0       0
174)=  32     312     620       0     211     416      48     215     152      48     220      47      48       0       0       0
175)=  32     313     620       0     211     107      48     212     367      48     216     146      48       0       0       0
176)=  32     314     412       0     212     412      48       0       0       0       0       0       0       0       0       0
177)=  32     315      53       0     212      53      48       0       0       0       0       0       0       0       0       0
178)=  32     316     279       0     611      23      48     613     360      48       0       0       0       0       0       0
179)=  32     317     278       0     613     278      48       0       0       0       0       0       0       0       0       0
180)=  32     318     168       0     611      23      48     614     217      48       0       0       0       0       0       0
181)=  32     319     167       0     614     167      48       0       0       0       0       0       0       0       0       0
182)=  32     321     510       0     415      92      48     418     418      48       0       0       0       0       0       0
183)=  32     322     510       0     415      61      48     419     449      48       0       0       0       0       0       0
184)=  32     323     340       0     419     204      48     420     136      48       0       0       0       0       0       0
185)=  32     324     438       0     415     153      48     420     285      48       0       0       0       0       0       0
186)=  32     326     324       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     343       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     142       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411     816       0     312     620      48     318     168      48     326     117      48       0       0       0
190)=  32     412     816       0     313     620      48     319     100      48       0       0       0       0       0       0
191)=  32     413     545       0     314     308      48     319      67      48       0       0       0       0       0       0
192)=  32     414     220       0     314     104      48     326     116      48       0       0       0       0       0       0
193)=  32     415     306       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     347       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     327       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     418       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419     653       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     421       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      40       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512    1075       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513     410       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514      55       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515     759       0     612      30      48     615     635      48       0       0       0       0       0       0
204)=  32     611      46       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612      30       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     685       0     511      10      48     512     665      48     514      10      48       0       0       0
207)=  32     614     384       0     511      10      48     512     400      48     514      10      48       0       0       0
208)=  32     615     635       0     315      53      48     321     189      48     326      91      48     327     302      48
209)=  32     616      31       0     321      10      48     327      21      48       0       0       0       0       0       0
210)=  32     811     967       0     111     792      48     116      17      48     121     151      48       0       0       0
211)=  32     812     773       0     112     773      48       0       0       0       0       0       0       0       0       0
212)=  32     813     116       0     112      63      48     121      53      48       0       0       0       0       0       0
213)=  32     814     216       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815     225       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816     703       0     214     101      48     218     568      48     220      14      48       0       0       0
216)=  32     817     702       0     214      67      48     219     568      48       0       0       0       0       0       0
217)=  32   -1001     462       0     119     462      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002     839       0     114      27      48     118     694      48     122     118      48       0       0       0
219)=  32   -1003      33       0     113      10      48     117      13      48     121      10      48       0       0       0
220)=  32   -1004     346       0     111      44      48     115      20      48     120     282      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     480       0     213     254      48     217     216      48     220      10      48       0       0       0
228)=  32   -2002      37       0     211      10      48     215      10      48     221      17      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001     959       0     316     243      48     317     278      48     324     438      48       0       0       0
238)=  32   -3002    1324       0     311     365      48   -3001     959      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001     990       0     411     816      48     416     174      48       0       0       0       0       0       0
249)=  32   -4002     932       0     412     816      48     416     116      48       0       0       0       0       0       0
250)=  32   -4003     602       0     413     545      48     416      57      48       0       0       0       0       0       0
251)=  32   -4004     547       0     414     220      48     417     327      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001     751       0     511      10      48     514      25      48     515     716      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003     453       0     511      10      48     513     410      48     515      33      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001      78       0     613      47      48     616      31      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     272       0     813     116      48     816     156      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
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	TYPE	NO.	FLOW	VEH.	FLOW	VEH.	FLOW	VEH.
270)=	33	316	1800	1	0	0	0	0
271)=	33	321	1900	2	0	0	0	0
272)=	33	324	2100	5	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
273)=	41	1	St Oswald's St - Rathbone Rd
274)=	41	2	Edge Lane Drive - Rathbone Road

CARD NO	CARD TYPE	ROUTE NUMBER	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.
275)=	42	1	327	615	515	5001									
276)=	42	2	418	321	615	515	5001								

*****END OF SUBROUTINE TINPUT*****

.

120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	104	118	45	68	89					
2	5	69	81	1	30	53					
3	4	67	90	11	37						
4	3	48	115	17							
5	3	99	68	85							
6	3	101	83	88							
8	3	83	39	57							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
111	836	1975	91	15.0	48.6	6.9 + 4.4	(160.4)	103	(27.6)	30		188.0	1	110	45
112	836	2095	86	15.0	40.6	6.6 + 2.8	(133.9)	94	(25.2)	27		159.2	1	110	45
113	10	1955	8	4.5	67.2	0.1 + 0.0	(2.7)	103	(0.3)	0		3.0	1	111	118
114	27	1955	8	15.0	48.2	0.3 + 0.0	(5.1)	87	(0.8)	1		5.9	1	99	118
115	20	1955	15	15.0	68.8	0.3 + 0.1	(5.4)	105	(0.7)	1		6.1	1	97	104
116	17	1955	13	15.0	68.1	0.2 + 0.1	(4.6)	103	(0.6)	1		5.1	1	97	104
117	13	2055	1	5.3	12.1	0.0 + 0.0	(0.6)	60	(0.3)	0		0.9	1	7	69
118	695	2250	59	62.3	19.1	3.0 + 0.7	(52.4)	49	(10.9)	12		63.4	1	7	69
119	463	2095	42	62.3	18.3	2.0 + 0.4	(33.5)	38	(5.6)	6		39.1	1	7	69
120	282	2000	89	5.3	95.3	4.0 + 3.4	(106.1)	130	(11.8)	13		117.9	1	51	69
121	214	1895	90	15.0	111.8	3.1 + 3.6	(94.3)	140	(9.6)	11		103.9	1	75	89
122	118	1915	49	4.9	63.6	1.6 + 0.5	(29.6)	102	(3.8)	4		33.5	1	75	89
211	832	1932	79	62.3	26.5	4.2 + 1.9	(87.1)	76	(20.3)	23		107.4	2	86	30
212	832	2075	74	62.3	24.9	4.3 + 1.4	(81.6)	88	(23.6)	26		105.2	2	86	30
213	253	1741	73	9.0	84.3	4.6 + 1.3	(84.1)	107	(8.7)	9		92.8	2	7	30
214	168	1967	22	15.0	27.2	1.1 + 0.1	(18.0)	65	(3.5)	4		21.6	2	9	55
215	228	1900	80	15.0	78.9	3.1 + 1.9	(71.0)	116	(8.5)	9		79.5	2	36	53
216	146	1900	51	15.0	59.8	1.9 + 0.5	(34.5)	100	(4.7)	5		39.1	2	36	53
217	216	1832	30	9.0	12.5	0.5 + 0.2	(10.7)	23	(1.6)	2		12.3	2	76	2
218	569	2100	76	26.3	35.5	4.1 + 1.5	(79.7)	68	(12.4)	13		92.2	2	79	1
219	569	2400	66	26.2	39.2	5.2 + 1.0	(87.9)	54	(9.8)	10		97.7	2	79	1
220	71	1882	45	7.5	73.2	1.0 + 0.4	(20.5)	109	(2.5)	3		23.0	2	60	69
221	17	1700	15	1.5	104.0	0.4 + 0.1	(7.0)	106	(0.6)	1		7.6	2	74	81
311	365	715	70	4.5	15.1	0.4 + 1.1	(21.8)	81	(9.5)	9	+	31.3			
312	620	1925	97	26.2	88.8	7.2 + 8.1	(217.1)	125	(24.8)	28		242.0	3	95	14
313	620	2085	89	26.3	63.1	7.1 + 3.8	(154.3)	96	(19.1)	21		173.4	3	95	14
314	413	2085	59	26.3	43.9	4.3 + 0.7	(71.6)	59	(7.8)	8		79.4	3	95	14
315	53	1837	18	26.3	39.9	0.5 + 0.1	(8.3)	56	(1.0)	1		9.3	3	95	16
316	278	2191f	90	11.6	88.2	3.3 + 3.5	(96.7)	124	(11.1)	12		107.8	3	21	37
317	278	2120	93	11.6	101.1	3.4 + 4.4	(110.9)	132	(11.8)	13		122.7	3	21	37
318	168	2100	57	11.6	54.2	1.9 + 0.6	(35.9)	93	(5.0)	5		40.9	3	21	37
319	167	2053	57	11.6	55.1	1.9 + 0.7	(36.3)	92	(4.9)	5		41.2	3	21	37
321	510	2226f	48	17.3	12.1	1.2 + 0.5	(24.3)	26	(4.3)	6		28.6	3	76	12
322	510	2100	51	17.3	10.3	0.9 + 0.5	(20.6)	22	(3.6)	4		24.2	3	76	12
323	340	2075	35	17.3	4.3	0.1 + 0.3	(5.7)	5	(0.6)	1		6.3	3	76	12
324	438	3158f	98	17.2	111.5	5.3 + 8.3	(192.6)	132	(18.6)	22		211.2	3	76	92
326	324	2150	90	15.0	91.9	4.4 + 3.9	(117.4)	128	(13.3)	14		130.7	3	49	68
327	343	2150	96	15.0	114.5	4.7 + 6.2	(154.9)	143	(15.7)	17		170.7	3	49	68
328	142	1999	43	3.4	54.2	1.8 + 0.4	(30.4)	95	(4.3)	5		34.7	3	49	68
411	816	1965	64	15.0	19.5	3.5 + 0.9	(62.9)	53	(13.9)	15		76.8	4	60	17
412	816	2105	60	15.0	18.8	3.5 + 0.7	(60.7)	50	(13.2)	12		73.9	4	60	17

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT ($/H)	COST OF DELAY	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
413	546	2105	40	15.0	14.9	1.9 + 0.3	(32.0)	41	(7.1)	7		39.1	4	60	17
414	220	2000	66	4.5	55.0	2.4 + 1.0	(47.7)	103	(7.3)	8		55.0	4	0	19
415	306	1807	38	15.0	26.2	1.9 + 0.3	(31.6)	67	(6.5)	7		38.2	4	2	54
416	347	1915	66	15.0	48.5	3.7 + 1.0	(66.3)	93	(10.4)	11		76.7	4	22	54
417	327	1786	40	3.7	25.2	2.0 + 0.3	(32.5)	66	(6.9)	7		39.4	4	61	115
418	418	2200	41	15.0	24.8	2.5 + 0.4	(40.8)	66	(8.8)	10		49.7	4	61	115
419	653	2200	65	15.0	30.1	4.5 + 0.9	(77.4)	77	(16.2)	18		93.6	4	61	115
420	421	2095	44	6.0	25.4	2.6 + 0.4	(42.1)	67	(9.1)	10		51.2	4	61	115
511	40	1854	57	7.5	112.9	0.6 + 0.6	(17.8)	137	(1.8)	2		19.6	5	92	101
512	1075	2113	74	15.0	16.2	3.5 + 1.4	(68.9)	61	(21.0)	24		89.9	5	106	68
513	410	1800	86	3.8	45.4	2.4 + 2.7	(73.4)	97	(12.8)	13	+	86.2	5	106	70
514	55	1769	47	15.0	82.2	0.8 + 0.4	(17.8)	115	(2.0)	2		19.9	5	92	99
515	759	4010	27	6.4	17.3	3.5 + 0.2	(51.8)	64	(15.5)	18		67.3	5	106	68
611	46	1811	34	7.5	72.5	0.7 + 0.3	(13.1)	107	(1.6)	2		14.7	6	95	103
612	30	1800	22	7.5	69.3	0.4 + 0.1	(8.2)	105	(1.0)	1		9.2	6	95	103
613	684	1943	44	6.4	2.3	0.0 + 0.4	(6.2)	4	(0.9)	1		7.1	6	108	83
614	384	1965	24	6.4	1.9	0.0 + 0.2	(2.9)	5	(0.6)	1		3.5	6	108	83
615	634	1965	38	8.3	5.0	0.6 + 0.3	(12.5)	39	(8.0)	11		20.6	6	108	88
616	31	1800	4	8.3	4.2	0.0 + 0.0	(0.5)	14	(0.1)	0		0.7	6	108	90
811	967	1915	70	27.8	10.2	1.6 + 1.1	(39.1)	26	(7.9)	9		47.0	8	91	57
812	772	2055	52	27.8	8.3	1.3 + 0.5	(25.4)	23	(5.7)	6		31.1	8	91	57
813	117	1750	62	5.7	77.1	1.7 + 0.8	(35.6)	119	(4.4)	5		40.0	8	45	57
814	216	1750	40	15.0	38.3	2.0 + 0.3	(32.6)	80	(5.6)	6		38.2	8	49	85
815	225	1750	67	4.9	61.0	2.8 + 1.0	(54.1)	102	(7.4)	8		61.5	8	63	85
816	704	1950	63	15.0	6.4	0.4 + 0.8	(17.7)	14	(3.3)	6		20.9	8	91	39
817	703	2055	60	15.0	5.0	0.2 + 0.7	(13.9)	9	(2.1)	6		16.0	8	91	39
-1001	463	4000	12	15.0	0.5	0.0 + 0.1	(0.9)	0	(0.1)	0		1.0			
-1002	840	4000	21	15.0	0.6	0.0 + 0.1	(1.9)	0	(0.1)	0		2.0			

-1003	33	4000	1	15.0	0.4	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1		
-1004	346	4000	9	15.0	0.5	0.0 + 0.0	(0.7)	0	(0.0)	0		0.7		
-1111	10	10000	0	3.6	27.9	0.1 + 0.0	(1.1)	66	(0.0)	0		1.1	1	51 89
-1112	10	10000	1	3.6	44.5	0.1 + 0.0	(1.8)	84	(0.0)	0		1.8	1	100 118
-1113	10	10000	0	3.6	5.4	0.0 + 0.0	(0.2)	28	(0.0)	0		0.2	1	4 89
-1114	10	10000	0	3.6	2.0	0.0 + 0.0	(0.1)	16	(0.0)	0		0.1	1	110 89
-1115	10	10000	0	3.6	6.5	0.0 + 0.0	(0.3)	42	(0.0)	0		0.3	1	8 68 98 104
-1116	10	10000	0	3.6	24.6	0.1 + 0.0	(1.0)	62	(0.0)	0		1.0	1	75 118
-2001	479	4000	12	15.0	0.5	0.0 + 0.1	(1.0)	0	(0.1)	0		1.0		
-2002	37	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1		
-2111	10	10000	0	3.6	14.8	0.0 + 0.0	(0.6)	48	(0.0)	0		0.6	2	60 1
-2112	10	10000	1	3.6	40.1	0.1 + 0.0	(1.6)	80	(0.0)	0		1.6	2	30 53
-2113	10	10000	1	3.6	43.6	0.1 + 0.0	(1.7)	83	(0.0)	0		1.7	2	35 53
-2115	10	10000	0	3.6	13.9	0.0 + 0.0	(0.5)	46	(0.0)	0		0.6	2	6 69
-2116	10	10000	0	3.6	13.9	0.0 + 0.0	(0.5)	46	(0.0)	0		0.6	2	7 69
-2117	10	10000	0	3.6	23.9	0.1 + 0.0	(0.9)	61	(0.0)	0		1.0	2	77 1
-2118	10	10000	0	3.6	26.5	0.1 + 0.0	(1.0)	64	(0.0)	0		1.1	2	81 1
-2119	10	10000	2	3.6	55.9	0.1 + 0.0	(2.2)	95	(0.0)	0		2.2	2	62 69
-3001	957	4000	24	3.8	0.6	0.0 + 0.2	(2.2)	1	(0.2)	0		2.4		
-3002	1323	4000	33	15.0	0.7	0.0 + 0.2	(3.5)	1	(0.2)	0		3.7		
-3111	10	10000	0	3.6	33.7	0.1 + 0.0	(1.3)	73	(0.0)	0		1.3	3	17 47
-3112	10	10000	0	3.6	2.8	0.0 + 0.0	(0.1)	19	(0.0)	0		0.1	3	95 69
-3113	10	10000	0	3.6	38.4	0.1 + 0.0	(1.5)	78	(0.0)	0		1.5	3	50 75
-3114	10	10000	0	3.6	4.8	0.0 + 0.0	(0.2)	26	(0.0)	0		0.2	3	73 39
-3115	10	10000	0	3.6	9.8	0.0 + 0.0	(0.4)	53	(0.0)	0		0.4	3	101 13 48 68
-3116	10	10000	0	3.6	18.0	0.0 + 0.0	(0.7)	53	(0.0)	0		0.7	3	19 73

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM RANDOM+ OVERSAT (U+R+O=MEAN Q) (PCU-H/H)	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST START END 2ND (SECONDS)
-3117	10	10000	1	3.6	42.7	0.1 + 0.0	(1.7)	82	(0.0)	0		1.7	3	22 42
-3118	10	10000	0	3.6	4.2	0.0 + 0.0	(0.2)	24	(0.0)	0		0.2	3	42 11
-3119	10	10000	1	3.6	42.7	0.1 + 0.0	(1.7)	82	(0.0)	0		1.7	3	24 44
-4001	990	4000	25	15.0	0.6	0.0 + 0.2	(2.3)	0	(0.2)	0		2.5		
-4002	932	4000	23	15.0	0.6	0.0 + 0.2	(2.2)	0	(0.1)	0		2.3		
-4003	603	4000	15	15.0	0.5	0.0 + 0.1	(1.3)	0	(0.1)	0		1.3		
-4004	547	4000	14	15.0	0.5	0.0 + 0.1	(1.1)	0	(0.1)	0		1.2		
-4111	10	10000	0	3.6	37.6	0.1 + 0.0	(1.5)	77	(0.0)	0		1.5	4	22 48
-4112	10	10000	1	3.6	41.0	0.1 + 0.0	(1.6)	81	(0.0)	0		1.6	4	26 48
-4113	10	10000	0	3.6	32.9	0.1 + 0.0	(1.3)	72	(0.0)	0		1.3	4	17 48
-4114	10	10000	0	3.6	16.9	0.0 + 0.0	(0.7)	51	(0.0)	0		0.7	4	59 115
-4115	10	10000	0	3.6	7.3	0.0 + 0.0	(0.3)	33	(0.0)	0		0.3	4	59 17
-4116	10	10000	1	3.6	42.7	0.1 + 0.0	(1.7)	82	(0.0)	0		1.7	4	28 48
-5001	751	4000	19	15.0	0.6	0.0 + 0.1	(1.6)	0	(0.1)	0		1.8		
-5002	31	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1		
-5003	453	4000	11	15.0	0.5	0.0 + 0.1	(0.9)	0	(0.1)	0		1.0		
-5111	10	10000	1	3.6	51.5	0.1 + 0.0	(2.0)	91	(0.0)	0		2.0	5	75 85
-6001	78	4000	2	7.5	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.2		
-6111	10	10000	0	3.6	1.9	0.0 + 0.0	(0.1)	15	(0.0)	0		0.1	6	108 88
-6112	10	10000	2	3.6	58.8	0.2 + 0.0	(2.3)	97	(0.0)	0		2.3	6	96 101
-6113	10	10000	1	3.6	49.3	0.1 + 0.0	(1.9)	89	(0.0)	0		2.0	6	88 101
-8001	273	4000	7	15.0	0.5	0.0 + 0.0	(0.5)	0	(0.0)	0		0.6		
-8111	10	10000	0	3.6	11.1	0.0 + 0.0	(0.4)	41	(0.0)	0		0.4	8	90 39
-8112	10	10000	1	3.6	43.6	0.1 + 0.0	(1.7)	83	(0.0)	0		1.7	8	65 83
-8113	10	10000	0	3.6	27.9	0.1 + 0.0	(1.1)	66	(0.0)	0		1.1	8	44 83

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	391.2	17.8	158.4	87.7	(3495.3) +	(550.1) +	(0.0) =	4045.4	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	460.8	+	287.8	+	251.4	=	1000.0

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	104	118	45	68	89
2	5	69	81	1	30	53
3	4	67	90	11	37	
4	3	48	115	17		
5	3	99	68	85		
6	3	101	83	88		
8	3	83	39	57		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	391.2	17.8	158.4	87.7	(3495.3) +	(550.1) +	(0.0) =	4045.4	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 651

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	104	118	45	68	89
2	5	69	81	1	30	53
3	4	67	90	11	37	
4	3	48	115	17		
5	3	99	68	85		
6	3	101	83	88		
8	3	83	39	57		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6961.2	391.2	17.8	158.4	87.7	(3495.3) + (550.1)	+ (0.0)	=	4045.4	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 656

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1
- (SECONDS)

1	5	104	118	45	68	89
2	5	69	81	4	31	53
3	4	67	90	11	37	
4	3	42	115	19		
5	3	99	68	85		
6	3	101	83	88		
8	3	80	36	58		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	385.4	18.1	150.6	89.8	(3413.6) + (549.5)	+ (0.0)	=	3963.1	TOTALS

NO. OF ENTRIES TO SUBPT = 61
NO. OF LINKS RECALCULATED= 1755

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18
- (SECONDS)

1	5	104	118	45	68	89
2	5	69	81	4	31	53
3	4	67	90	11	37	
4	3	42	115	19		
5	3	99	68	85		
6	3	101	83	88		
8	3	80	36	58		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	385.4	18.1	150.6	89.8	(3413.6) + (549.5)	+ (0.0)	=	3963.1	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 743

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48
- (SECONDS)

1	5	104	118	45	68	89
2	5	69	81	4	31	53
3	4	67	90	11	37	
4	3	42	115	19		
5	3	99	68	85		
6	3	101	83	88		
8	3	80	36	58		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	385.4	18.1	150.6	89.8	(3413.6) + (549.5)	+ (0.0)	=	3963.1	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 783

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48 1
- (SECONDS)

1	5	100	114	41	64	85
2	5	66	78	1	28	50
3	4	63	86	7	33	
4	3	44	117	21		
5	3	96	65	82		
6	3	100	82	87		
8	3	80	36	58		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	384.5	18.1	149.4	90.1	(3400.4) + (531.3)	+ (0.0)	=	3931.7	TOTALS

NO. OF ENTRIES TO SUBPT = 31
NO. OF LINKS RECALCULATED= 1328

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48 1 -1
- (SECONDS)

1	5	100	114	41	64	85
2	5	66	78	1	28	50
3	4	63	86	7	33	
4	3	44	119	21		
5	3	96	65	82		
6	3	100	81	86		
8	3	80	36	58		

TOTAL DISTANCE	TOTAL TIME	MEAN JOURNEY	TOTAL UNIFORM	TOTAL RANDOM+	TOTAL COST	TOTAL COST	PENALTY FOR	TOTAL PERFORMANCE

TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)	OF STOPS ($/H)	EXCESS QUEUES ($/H)	INDEX ($/H)	
6961.2	384.4	18.1	149.1	90.2	(3398.6) + (531.9)	+ (0.0)	=	3930.6	TOTALS

NO. OF ENTRIES TO SUBPT = 49
NO. OF LINKS RECALCULATED= 1916

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	100	114	41	64	85					
2	5	66	78	1	28	50					
3	4	63	86	7	33						
4	3	44	119	21							
5	3	96	65	82							
6	3	99	80	85							
8	3	80	36	58							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
111	836	1975	91	15.0	48.6	6.9 +	4.4	(160.4)	103	(27.6)	30		188.0	1	106	41
112	836	2095	86	15.0	40.6	6.6 +	2.8	(133.9)	94	(25.2)	27		159.2	1	106	41
113	10	1955	8	4.5	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	107	114
114	27	1955	8	15.0	48.2	0.3 +	0.0	(5.1)	87	(0.8)	1		5.9	1	95	114
115	20	1955	15	15.0	68.8	0.3 +	0.1	(5.4)	105	(0.7)	1		6.1	1	93	100
116	17	1955	13	15.0	68.1	0.2 +	0.1	(4.6)	103	(0.6)	1		5.1	1	93	100
117	13	2055	1	5.3	11.2	0.0 +	0.0	(0.6)	56	(0.2)	0		0.8	1	3	65
118	695	2250	59	62.3	19.9	3.1 +	0.7	(54.6)	51	(11.4)	12		66.0	1	3	65
119	463	2095	42	62.3	20.6	2.3 +	0.4	(37.7)	43	(6.4)	7		44.1	1	3	65
120	282	2000	89	5.3	92.9	3.8 +	3.4	(103.3)	130	(11.8)	13		115.0	1	47	65
121	214	1895	90	15.0	111.8	3.1 +	3.6	(94.3)	140	(9.6)	11		103.9	1	71	85
122	118	1915	49	4.9	63.6	1.6 +	0.5	(29.6)	102	(3.8)	4		33.5	1	71	85
211	832	1932	78	62.3	23.2	3.6 +	1.8	(76.2)	68	(18.3)	21		94.5	2	83	28
212	832	2075	73	62.3	20.6	3.4 +	1.3	(67.7)	84	(22.4)	25		90.1	2	83	28
213	253	1741	79	9.0	94.8	4.8 +	1.8	(94.6)	111	(9.1)	10		103.7	2	7	28
214	168	1967	23	15.0	29.5	1.2 +	0.2	(19.6)	69	(3.7)	4		23.3	2	9	52
215	228	1900	85	15.0	89.3	3.2 +	2.5	(80.3)	124	(9.1)	10		89.4	2	34	50
216	146	1900	54	15.0	62.4	1.9 +	0.6	(35.9)	102	(4.8)	5		40.7	2	34	50
217	216	1832	28	9.0	10.7	0.4 +	0.2	(9.1)	21	(1.4)	2		10.6	2	73	2
218	569	2100	71	26.3	27.4	3.1 +	1.2	(61.5)	58	(10.6)	11		72.1	2	76	1
219	569	2400	62	26.2	28.5	3.7 +	0.8	(64.0)	41	(7.5)	8		71.5	2	76	1
220	71	1882	45	7.5	73.2	1.0 +	0.4	(20.5)	109	(2.5)	3		23.0	2	57	66
221	17	1700	15	1.5	96.5	0.4 +	0.1	(6.5)	99	(0.5)	1		7.0	2	71	78
311	365	715	70	4.5	14.0	0.3 +	1.1	(20.2)	68	(7.9)	8	+	28.1			
312	620	1925	97	26.2	88.6	7.1 +	8.1	(216.8)	125	(24.8)	28		241.6	3	91	10
313	620	2085	89	26.3	63.5	7.2 +	3.8	(155.3)	96	(19.2)	21		174.5	3	91	10
314	413	2085	59	26.3	45.1	4.5 +	0.7	(73.5)	62	(8.1)	8		81.7	3	91	10
315	53	1837	18	26.3	40.7	0.5 +	0.1	(8.5)	58	(1.0)	1		9.5	3	91	12
316	278	2191f	90	11.6	88.9	3.3 +	3.5	(97.5)	124	(11.1)	12		108.6	3	17	33
317	278	2120	93	11.6	102.0	3.4 +	4.4	(111.8)	132	(11.8)	13		123.7	3	17	33
318	168	2100	57	11.6	54.8	1.9 +	0.6	(36.3)	93	(5.0)	5		41.4	3	17	33
319	167	2053	57	11.6	55.9	1.9 +	0.7	(36.8)	92	(4.9)	5		41.8	3	17	33
321	510	2226f	48	17.3	14.3	1.6 +	0.5	(28.7)	41	(6.7)	11		35.4	3	72	8
322	510	2100	51	17.3	12.9	1.3 +	0.5	(25.9)	31	(5.1)	7		31.1	3	72	8
323	340	2075	35	17.3	7.6	0.5 +	0.3	(10.2)	12	(1.3)	2		11.5	3	72	8
324	438	3158f	98	17.2	109.9	5.1 +	8.3	(189.9)	136	(19.1)	22		209.0	3	72	88
326	324	2150	90	15.0	91.9	4.4 +	3.9	(117.4)	128	(13.3)	14		130.7	3	45	64
327	343	2150	96	15.0	114.5	4.7 +	6.2	(154.9)	143	(15.7)	17		170.7	3	45	64
328	142	1999	43	3.4	54.2	1.8 +	0.4	(30.4)	95	(4.3)	5		34.7	3	45	64
411	816	1965	58	15.0	10.5	1.7 +	0.7	(33.8)	34	(8.9)	10		42.7	4	56	21
412	816	2105	54	15.0	9.2	1.5 +	0.6	(29.6)	40	(10.4)	16		40.0	4	56	21

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
413	546	2105	36	15.0	8.5	1.0 +	0.3	(18.2)	28	(4.8)	5		23.1	4	56	21
414	220	2000	66	4.5	61.8	2.8 +	1.0	(53.6)	110	(7.7)	8		61.3	4	4	23
415	306	1807	45	15.0	33.1	2.4 +	0.4	(39.9)	76	(7.5)	8		47.4	4	6	50
416	347	1915	87	15.0	77.0	4.4 +	3.0	(105.4)	118	(13.1)	14		118.5	4	26	50
417	327	1786	35	3.7	19.5	1.5 +	0.3	(25.2)	57	(6.0)	6		31.1	4	57	119
418	418	2200	36	15.0	19.1	1.9 +	0.3	(31.6)	57	(7.7)	8		39.2	4	57	119
419	653	2200	57	15.0	22.8	3.5 +	0.6	(58.8)	67	(14.0)	15		72.8	4	57	119
420	421	2095	38	6.0	19.6	2.0 +	0.3	(32.5)	58	(7.9)	8		40.4	4	57	119
511	40	1854	57	7.5	113.0	0.6 +	0.6	(17.8)	138	(1.8)	2		19.6	5	89	98
512	1075	2113	74	15.0	16.2	3.5 +	1.4	(68.8)	61	(21.0)	23		89.8	5	103	65
513	410	1800	87	3.8	48.5	2.5 +	3.0	(78.4)	100	(13.2)	14	+	91.6	5	103	67
514	55	1769	47	15.0	82.1	0.8 +	0.4	(17.8)	116	(2.0)	2		19.9	5	89	96
515	759	4010	27	6.4	16.6	3.3 +	0.2	(49.7)	59	(14.3)	17		64.0	5	103	65
611	46	1811	30	7.5	69.0	0.7 +	0.2	(12.5)	105	(1.6)	2		14.1	6	92	101
612	30	1800	20	7.5	66.3	0.4 +	0.1	(7.8)	102	(1.0)	1		8.8	6	92	101
613	684	1943	44	6.4	2.4	0.0 +	0.4	(6.4)	4	(0.9)	1		7.3	6	106	80
614	384	1965	25	6.4	2.0	0.0 +	0.2	(3.0)	5	(0.7)	1		3.6	6	106	80
615	634	1965	39	8.3	5.2	0.6 +	0.3	(13.0)	39	(8.0)	11		21.0	6	106	85
616	31	1800	4	8.3	4.3	0.0 +	0.0	(0.5)	14	(0.1)	0		0.7	6	106	87
811	967	1915	67	27.8	6.9	0.9 +	1.0	(26.4)	17	(5.1)	6		31.5	8	88	58
812	772	2055	50	27.8	5.6	0.7 +	0.5	(17.1)	16	(3.9)	4		21.0	8	88	58
813	117	1750	47	5.7	67.5	1.8 +	0.4	(31.2)	110	(4.1)	4		35.3	8	42	58
814	216	1750	40	15.0	38.3	2.0 +	0.3	(32.6)	80	(5.5)	6		38.2	8	46	82
815	225	1750	81	4.9	80.9	3.1 +	2.0	(71.8)	119	(8.6)	9		80.4	8	64	82
816	704	1950	63	15.0	6.5	0.4 +	0.8	(18.1)	14	(3.1)	5		21.2	8	88	36
817	703	2055	60	15.0	5.1	0.3 +	0.7	(14.1)	7	(1.6)	2		15.7	8	88	36
-1001	463	4000	12	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0			
-1002	840	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0			
-1003	33	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
-1004	346	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-1111	10	10000	0	3.6	27.9	0.1 +	0.0	(1.1)	66	(0.0)	0		1.1	1	47	85
-1112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	1	96	114
-1113	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	1	0	85
-1114	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	1	106	85
-1115	10	10000	0	3.6	6.5	0.0 +	0.0	(0.3)	42	(0.0)	0		0.3	1	4	64 94 100
-1116	10	10000	0	3.6	24.6	0.1 +	0.0	(1.0)	62	(0.0)	0		1.0	1	71	114
-2001	479	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0			
-2002	37	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
-2111	10	10000	0	3.6	12.9	0.0 +	0.0	(0.5)	44	(0.0)	0		0.5	2	57	1
-2112	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	2	28	50

-2113	10	10000	1	3.6	44.6	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	2	33	50		
-2115	10	10000	0	3.6	15.4	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	6	66		
-2116	10	10000	0	3.6	15.4	0.0 +	0.0	(0.6)	49	(0.0)	0		0.6	2	7	66		
-2117	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	2	74	1		
-2118	10	10000	0	3.6	25.2	0.1 +	0.0	(1.0)	63	(0.0)	0		1.0	2	78	1		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	59	66		
-3001	957	4000	24	3.8	0.6	0.0 +	0.2	(2.2)	1	(0.2)	0		2.4					
-3002	1323	4000	33	15.0	0.7	0.0 +	0.2	(3.5)	1	(0.2)	0		3.7					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	13	43		
-3112	10	10000	0	3.6	2.8	0.0 +	0.0	(0.1)	19	(0.0)	0		0.1	3	91	65		
-3113	10	10000	0	3.6	38.4	0.1 +	0.0	(1.5)	78	(0.0)	0		1.5	3	46	71		
-3114	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	3	69	35		
-3115	10	10000	0	3.6	9.8	0.0 +	0.0	(0.4)	53	(0.0)	0		0.4	3	97	9	44	64
-3116	10	10000	0	3.6	18.0	0.0 +	0.0	(0.7)	53	(0.0)	0		0.7	3	15	69		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	18	38		
-3118	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	3	38	7		
-3119	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	20	40		
-4001	990	4000	25	15.0	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.5					
-4002	932	4000	23	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.1)	0		2.3					
-4003	602	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.3					
-4004	547	4000	14	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-4111	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	4	26	44		
-4112	10	10000	1	3.6	48.3	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	4	30	44		
-4113	10	10000	1	3.6	39.3	0.1 +	0.0	(1.6)	79	(0.0)	0		1.6	4	21	44		
-4114	10	10000	0	3.6	12.9	0.0 +	0.0	(0.5)	44	(0.0)	0		0.5	4	55	119		
-4115	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	4	55	21		
-4116	10	10000	1	3.6	50.3	0.1 +	0.0	(2.0)	90	(0.0)	0		2.0	4	32	44		
-5001	751	4000	19	15.0	0.6	0.0 +	0.1	(1.6)	0	(0.1)	0		1.8					
-5002	31	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	454	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	5	72	82		
-6001	78	4000	2	7.5	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-6111	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	6	106	85		
-6112	10	10000	2	3.6	56.3	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	6	93	99		
-6113	10	10000	1	3.6	47.4	0.1 +	0.0	(1.9)	87	(0.0)	0		1.9	6	85	99		
-8001	273	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6					
-8111	10	10000	0	3.6	10.7	0.0 +	0.0	(0.4)	40	(0.0)	0		0.4	8	87	36		
-8112	10	10000	1	3.6	48.3	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	8	66	80		
-8113	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	8	41	80		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
6961.2	384.3	18.1	149.1	90.2	(3398.0) +	(532.1) +	(0.0) =	3930.1	TOTALS
									ROUTE
353.2	22.8	15.5	8.6	6.8	(219.3) +	(38.1) +	(0.0) =	257.4	1
485.5	18.9	25.7	7.4	1.4	(124.6) +	(36.8) +	(0.0) =	161.4	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	460.8	+	280.0	+	243.2	=	984.1

NO. OF ENTRIES TO SUBPT = 16
NO. OF LINKS RECALCULATED= 783

PROGRAM TRANSYT FINISHED

2010 Edge Lane SAT Peak - Proposed

PRT File
2010 SAT Peak : 13:30 - 14:30

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1           _______________ T R A N S Y T 12 _______________

                          Traffic Network Study Tool

                    Analysis Program Release 5  (January 2007)
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                   program advice and maintenance, contact:

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            Wokingham, Berks.       Web:    www.trlsoftware.co.uk
            RG40 3GA,UK
 -------------------------------------------------------------------------------
 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:- "2010 SAT PEAK PROPOSED.DAT"   at 16:41   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    7
  NUMBER OF LINKS                    =  120
  NUMBER OF OPTIMISED NODES          =    7
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   24


  CORE REQUESTED =  21339 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE     %       %    1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60       2       3       1       1     100     100       1       2        0       0   1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       6       8       0       0       0       0       0       0       0       0

                                 NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1               7       0       6       7       4
   5)=  10       2               2       2       5       7       7
   6)=  10       3               7       5       4       5
   7)=  10       4               7       3       7
   8)=  10       5              10      10       7      10       7
   9)=  10       6               7       0       5
  10)=  10       8               7       0       7

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  11)=  11       1               7      10       6       7      11
  12)=  11       2              10       5       8       6       9
  13)=  11       3               9      11      13      13
  14)=  11       4              13       7      11
  15)=  11       5               7       7       7       7       7
  16)=  11       6               7       5       8
  17)=  11       8               8      10       8

                                 NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  18)=  12       1       1      12      26      63      94     117
  19)=  12       2       1      96     108      28      58      80
  20)=  12       3       1      91     116      29      55
  21)=  12       4       1      73      32      55
  22)=  12       5       1       4      46      63      77     110
  23)=  12       6       1      17     112     117
  24)=  12       8       1     108      61      82

                                                         LINK CARDS:   GIVEWAY DATA
                     PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2     ONLY     A1      A2                                      LINK    STOP     MAX   DELAY  DISPSN
 NO.   TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                    LENGTH WT.X100   FLOW  WT.X100   X100
  25)=  30     311   -3001       0       0      22       0       0       0       0       0      60       0     715       0       0
  26)=  30     315     321       0       0      50       0       0       0       0       0     350       0    1000       0       0
  27)=  30     414     418       0       0      50       0       0       0       0       0      60       0    1000       0       0
  28)=  30     511     514       0       0      50       0       0       0       0       0     100       0    1000       0       0
  29)=  30     513     515       0       0      50       0       0       0       0       0      50       0    1000       0       0
  30)=  30     616     614       0       0      50       0       0       0       0       0     110       0    1000       0       0

                                                         LINK  CARDS:   FIXED  DATA
                                            FIRST   GREEN                        SECOND  GREEN
 CARD   CARD   LINK     EXIT        START            END             START             END          LINK    STOP     SAT   DELAY   DISPSN
 NO.    TYPE    NO.     NODE     STAGE     LAG    STAGE     LAG    STAGE     LAG    STAGE     LAG  LENGTH  WT.X100  FLOW  WT.X100   X100
  31)=  31     111       1       1       6       3       0       0       0       0       0     200       0    1975       0       0
  32)=  31     112       1       1       6       3       0       0       0       0       0     200       0    2095       0       0
```

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	155	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
82)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	4	7	5	0	85	0	4010	0	0
84)=	31	611	6	3	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	3	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	0	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	0	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	3	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	3	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	65	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	3	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	3	8	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	5	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD	CARD	LINK	TOTAL	UNIFORM	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE
NO.	TYPE	NO.	FLOW	FLOW	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED
150)=	32	111	684	0	0	0	48	0	0	0	0	0	0	0	0	0

```
151)=  32     112     683       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      10       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      12       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      10       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      10       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      10       0     816      10      48       0       0       0       0       0       0       0       0       0
157)=  32     118     887       0     814     258      48     816     707      48       0       0       0       0       0       0
158)=  32     119     519       0     817     519      48       0       0       0       0       0       0       0       0       0
159)=  32     120     406       0     814      75      48     817     331      48       0       0       0       0       0       0
160)=  32     121     236       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122      59       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     642       0     811     336      48     815     306      48       0       0       0       0       0       0
163)=  32     212     600       0     811     514      48     812     163      48       0       0       0       0       0       0
164)=  32     213     340       0     812     340      48       0       0       0       0       0       0       0       0       0
165)=  32     214     368       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215     259       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216     194       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     486       0     321     409      48     327      77      48       0       0       0       0       0       0
169)=  32     218     703       0     316      57      48     321      44      48     322     380      48     328     222      48
170)=  32     219     703       0     322     287      48     323     418      48       0       0       0       0       0       0
171)=  32     220      89       0       0       0      10       0       0       0       0       0       0       0       0       0
172)=  32     221      27       0     323      27      48       0       0       0       0       0       0       0       0       0
173)=  32     311     447       0     211     311      48     215     136      48       0       0       0       0       0       0
174)=  32     312     429       0     211     261      48     215     113      48     220      55      48       0       0       0
175)=  32     313     429       0     211      39      48     212     232      48     216     194      48       0       0       0
176)=  32     314     286       0     212     286      48       0       0       0       0       0       0       0       0       0
177)=  32     315      82       0     212      82      48       0       0       0       0       0       0       0       0       0
178)=  32     316     262       0     611      49      48     613     213      48       0       0       0       0       0       0
179)=  32     317     262       0     613     262      48       0       0       0       0       0       0       0       0       0
180)=  32     318     134       0     611      49      48     614      85      48       0       0       0       0       0       0
181)=  32     319     133       0     614     133      48       0       0       0       0       0       0       0       0       0
182)=  32     321     667       0     415     111      48     418     556      48       0       0       0       0       0       0
183)=  32     322     667       0     415      74      48     419     593      48       0       0       0       0       0       0
184)=  32     323     445       0     419     267      48     420     178      48       0       0       0       0       0       0
185)=  32     324     430       0     415     186      48     420     244      48       0       0       0       0       0       0
186)=  32     326     350       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     426       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     222       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411     675       0     312     429      48     318     134      48     326     112      48       0       0       0
190)=  32     412     509       0     313     429      48     319      80      48       0       0       0       0       0       0
191)=  32     413     201       0     314     148      48     319      53      48       0       0       0       0       0       0
192)=  32     414     250       0     314     138      48     326     112      48       0       0       0       0       0       0
193)=  32     415     371       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     173       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     205       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     556       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419     860       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     422       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      40       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512     765       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513     117       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514      66       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515     841       0     612     112      48     615     729      48       0       0       0       0       0       0
204)=  32     611      98       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612     112       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     578       0     511      10      48     512     557      48     514      11      48       0       0       0
207)=  32     614     218       0     511      10      48     512     198      48     514      10      48       0       0       0
208)=  32     615     729       0     315      82      48     321     178      48     326     126      48     327     268      48
209)=  32     616     117       0     321      36      48     327      81      48       0       0       0       0       0       0
210)=  32     811     850       0     111     629      48     116      10      48     121     202      48       0       0       0
211)=  32     812     503       0     112     503      48       0       0       0       0       0       0       0       0       0
212)=  32     813     204       0     112     180      48     121      24      48       0       0       0       0       0       0
213)=  32     814     333       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815     306       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816    1000       0     214     221      48     218     703      48     220      22      48       0       0       0
216)=  32     817     850       0     214     147      48     219     703      48       0       0       0       0       0       0
217)=  32   -1001     519       0     119     519      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002     958       0     114      12      48     118     887      48     122      59      48       0       0       0
219)=  32   -1003      30       0     113      10      48     117      10      48     121      10      48       0       0       0
220)=  32   -1004     471       0     111      55      48     115      10      48     120     406      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     838       0     213     340      48     217     486      48     220      12      48       0       0       0
228)=  32   -2002      68       0     211      31      48     215      10      48     221      27      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001     897       0     316     205      48     317     262      48     324     430      48       0       0       0
238)=  32   -3002    1344       0     311     447      48   -3001     897      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001     762       0     411     675      48     416      87      48       0       0       0       0       0       0
249)=  32   -4002     567       0     412     509      48     416      58      48       0       0       0       0       0       0
250)=  32   -4003     229       0     413     201      48     416      28      48       0       0       0       0       0       0
251)=  32   -4004     455       0     414     250      48     417     205      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001     845       0     511      10      48     514      35      48     515     800      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003     158       0     511      10      48     513     117      48     515      31      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001     220       0     613     103      48     616     117      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     487       0     813     204      48     816     283      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
```

```
       TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
270)=  33     316    1800       1       0       0       0       0
271)=  33     321    1900       2       0       0       0       0
272)=  33     324    2100       5       0       0       0       0
```

USER-DEFINED ROUTES

```
CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

273)=  41       1    St Oswald's St - Rathbone Rd
274)=  41       2    Edge Lane Drive - Rathbone Road

CARD   CARD  ROUTE    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO    TYPE  NUMBER    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.

275)=  42       1     327     615     515    5001
276)=  42       2     418     321     615     515    5001

*****END OF SUBROUTINE TINPUT*****
```

.

120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	12	26	63	94	117					
2	5	96	108	27	57	80					
3	4	91	117	28	54						
4	3	73	32	55							
5	5	4	46	63	77	110					
6	3	17	112	117							
8	3	108	62	82							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	684	1975	90	15.0	57.0	6.6 +	4.2	(153.8)	108	(23.7)	25		177.4	1	18	63		
112	683	2095	85	15.0	48.2	6.4 +	2.7	(129.8)	99	(21.7)	23		151.5	1	18	63		
113	10	1955	8	4.5	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	19	26		
114	12	1955	4	15.0	47.4	0.1 +	0.0	(2.2)	85	(0.3)	0		2.6	1	7	26		
115	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	5	12		
116	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	5	12		
117	10	2055	1	5.3	11.0	0.0 +	0.0	(0.4)	50	(0.2)	0		0.6	1	35	95		
118	888	2250	78	62.3	30.1	5.7 +	1.7	(105.6)	71	(20.3)	22		125.9	1	35	95		
119	519	2095	49	62.3	19.7	2.4 +	0.5	(40.4)	39	(6.5)	7		46.8	1	35	95		
120	407	2000	90	5.3	81.0	5.2 +	4.0	(130.0)	122	(15.9)	17	+	145.9	1	69	95		
121	236	1895	88	15.0	97.1	3.3 +	3.1	(90.4)	130	(9.8)	11		100.3	1	101	117		
122	59	1915	22	4.9	54.0	0.7 +	0.1	(12.6)	93	(1.8)	2		14.3	1	101	117		
211	643	1932	61	62.3	16.9	2.2 +	0.8	(42.9)	45	(9.3)	10		52.2	2	113	57		
212	601	2075	53	62.3	18.7	2.6 +	0.6	(44.4)	72	(13.8)	16		58.2	2	113	57		
213	340	1741	94	9.0	126.9	6.9 +	5.1	(170.2)	134	(14.7)	16		184.8	2	33	57		
214	368	1967	47	15.0	30.9	2.7 +	0.4	(44.8)	74	(8.7)	9		53.5	2	35	82		
215	259	1900	91	15.0	103.6	3.6 +	3.8	(105.9)	135	(11.2)	12		117.1	2	63	80		
216	194	1900	68	15.0	67.6	2.6 +	1.0	(51.7)	107	(6.7)	7		58.4	2	63	80		
217	486	1832	69	9.0	16.5	1.1 +	1.1	(31.7)	35	(5.5)	8		37.2	2	103	28		
218	704	2100	96	26.3	70.5	6.2 +	7.6	(195.7)	113	(25.5)	29		221.2	2	106	27		
219	703	2400	84	26.3	43.3	6.0 +	2.5	(120.0)	53	(11.9)	12		131.9	2	106	27		
220	89	1882	57	36.0	78.9	1.3 +	0.6	(27.7)	115	(0.1)	3		27.9	2	87	96		
221	27	1700	24	1.5	91.6	0.5 +	0.2	(9.8)	91	(0.8)	1		10.5	2	101	108		
311	447	715	84	4.5	25.6	0.7 +	2.5	(45.1)	96	(13.7)	10	+	58.8					
312	429	1925	89	26.3	73.2	5.1 +	3.6	(123.9)	112	(15.4)	17		139.3	3	2	31		
313	429	2085	82	26.3	63.9	5.4 +	2.2	(108.1)	99	(13.6)	15		121.7	3	2	31		
314	286	2085	55	26.2	56.8	3.9 +	0.6	(64.1)	70	(6.4)	7		70.5	3	2	31		
315	82	1837	44	26.3	64.4	1.1 +	0.4	(20.8)	73	(1.9)	2		22.8	3	2	33		
316	262	2191f	84	11.6	67.4	2.5 +	2.4	(69.6)	115	(9.7)	11		79.3	3	38	54		
317	262	2120	87	11.6	78.5	2.7 +	3.0	(81.2)	120	(10.1)	11		91.2	3	38	54		
318	134	2100	45	11.6	40.7	1.1 +	0.4	(21.5)	97	(4.2)	5		25.7	3	38	54		
319	133	2053	46	11.6	46.2	1.3 +	0.4	(24.3)	90	(3.9)	4		28.1	3	38	54		
321	667	2244f	71	17.3	23.9	3.2 +	1.2	(62.8)	74	(15.9)	20		78.7	3	100	29		
322	668	2100	76	17.3	24.3	2.9 +	1.6	(63.9)	57	(12.3)	16		76.2	3	100	29		
323	445	2075	51	17.3	15.7	1.4 +	0.5	(27.6)	27	(3.8)	5		31.4	3	100	29		
324	430	3000f	86	17.3	60.5	4.4 +	2.8	(102.7)	102	(14.0)	16		116.7	3	100	119		
326	350	2150	72	15.0	56.3	4.2 +	1.3	(77.7)	100	(11.2)	12		88.9	3	66	92		
327	426	2150	88	15.0	72.9	5.3 +	3.3	(122.5)	115	(15.8)	17		138.3	3	66	92		
328	222	1999	49	3.4	48.4	2.5 +	0.5	(42.4)	90	(6.4)	7		48.8	3	66	92		
411	675	1965	45	15.0	5.9	0.7 +	0.4	(15.7)	21	(4.6)	5		20.3	4	85	55		
412	509	2105	32	15.0	4.1	0.3 +	0.2	(8.3)	11	(1.9)	2		10.1	4	85	55		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
413	201	2105	13	15.0	5.2	0.2 +	0.1	(4.2)	17	(1.1)	1		5.3	4	85	55		
414	250	2000	71	4.5	68.8	3.6 +	1.2	(67.9)	114	(9.1)	10		77.0	4	37	57		
415	371	1807	60	15.0	40.0	3.4 +	0.7	(58.5)	85	(10.1)	11		68.7	4	39	79		
416	173	1915	54	15.0	58.0	2.2 +	0.6	(39.6)	98	(5.4)	6		45.0	4	60	79		
417	205	1786	21	3.8	15.5	0.8 +	0.1	(12.6)	49	(3.2)	3		15.8	4	86	32		
418	556	2200	45	15.0	18.3	2.4 +	0.4	(40.2)	57	(10.2)	11		50.5	4	86	32		
419	860	2200	70	15.0	24.1	4.6 +	1.2	(81.7)	72	(19.8)	21		101.5	4	86	32		
420	422	2095	36	6.0	17.1	1.7 +	0.3	(28.4)	54	(7.3)	8		35.7	4	86	32		
511	40	1854	25	7.5	39.4	0.3 +	0.2	(6.2)	107	(1.4)	1		7.6	5	70	79	117	6
512	765	2113	69	15.0	16.8	2.5 +	1.1	(50.6)	74	(18.2)	13		68.8	5	11	46	84	110
513	117	1800	47	3.8	30.6	0.6 +	0.4	(14.1)	128	(4.8)	2		18.9	5	11	48	84	112
514	66	1769	28	15.0	35.5	0.5 +	0.2	(9.2)	102	(2.2)	1		11.4	5	70	77	117	4
515	842	4010	40	6.4	3.8	0.6 +	0.3	(12.6)	28	(7.7)	6		20.3	5	11	46	84	110
611	98	1811	41	7.5	60.1	1.3 +	0.3	(23.2)	98	(3.1)	3		26.3	6	4	19		
612	112	1800	47	7.5	62.1	1.5 +	0.4	(27.4)	101	(3.6)	4		31.1	6	4	19		
613	578	1943	40	6.4	5.6	0.6 +	0.3	(12.8)	33	(6.1)	7		18.9	6	24	112		
614	217	1965	15	6.4	4.1	0.2 +	0.1	(3.5)	23	(1.6)	2		5.1	6	24	112		
615	730	1965	47	8.3	6.8	0.9 +	0.5	(19.5)	45	(10.4)	12		29.9	6	24	117		
616	117	1800	16	8.3	5.9	0.1 +	0.1	(2.7)	18	(0.7)	1		3.4	6	24	119		
811	851	1915	61	27.7	6.8	0.8 +	0.8	(22.9)	15	(4.1)	4		27.0	8	116	82		
812	503	2055	34	27.8	5.7	0.5 +	0.3	(11.3)	16	(2.6)	3		13.9	8	116	82		
813	204	1750	93	5.7	115.4	2.1 +	4.4	(92.9)	155	(10.2)	11		103.1	8	68	82		
814	333	1750	59	15.0	41.4	3.1 +	0.7	(54.3)	86	(9.2)	10		63.6	8	72	110		
815	306	1750	91	4.9	95.5	4.0 +	4.1	(115.2)	131	(12.9)	14	+	128.1	8	88	110		
816	1001	1950	92	15.0	27.1	2.4 +	5.1	(107.0)	83	(26.7)	35		133.6	8	116	62		
817	851	2055	74	15.0	9.5	0.8 +	1.4	(31.8)	15	(4.1)	5		35.8	8	116	62		
-1001	519	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-1002	959	4000	24	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.2)	0		2.4					

-1003	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	472	4000	12	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-1111	10	10000	0	3.6	21.4	0.1 +	0.0	(0.8)	58	(0.0)	0		0.9	1	69	117		
-1112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	1	8	26		
-1113	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	1	32	117		
-1114	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	1	18	117		
-1115	10	10000	0	3.6	7.0	0.0 +	0.0	(0.3)	44	(0.0)	0		0.3	1	36	94	6	12
-1116	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	1	101	26		
-2001	838	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-2002	67	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	87	27		
-2112	10	10000	1	3.6	39.3	0.1 +	0.0	(1.6)	79	(0.0)	0		1.6	2	57	80		
-2113	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	2	62	80		
-2115	10	10000	0	3.6	13.4	0.0 +	0.0	(0.5)	45	(0.0)	0		0.5	2	32	96		
-2116	10	10000	0	3.6	13.4	0.0 +	0.0	(0.5)	45	(0.0)	0		0.5	2	33	96		
-2117	10	10000	0	3.6	25.2	0.1 +	0.0	(1.0)	63	(0.0)	0		1.0	2	104	27		
-2118	10	10000	0	3.6	27.9	0.1 +	0.0	(1.1)	66	(0.0)	0		1.1	2	108	27		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	89	96		
-3001	897	4000	22	3.8	0.6	0.0 +	0.1	(2.1)	1	(0.2)	0		2.2					
-3002	1345	4000	34	15.0	0.7	0.0 +	0.3	(3.6)	1	(0.2)	0		3.8					
-3111	10	10000	0	3.6	34.4	0.1 +	0.0	(1.4)	74	(0.0)	0		1.4	3	34	64		
-3112	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	3	2	93		
-3113	10	10000	0	3.6	32.2	0.1 +	0.0	(1.3)	71	(0.0)	0		1.3	3	67	99		
-3114	10	10000	0	3.6	6.9	0.0 +	0.0	(0.3)	32	(0.0)	0		0.3	3	97	56		
-3115	10	10000	0	3.6	10.6	0.0 +	0.0	(0.4)	55	(0.0)	0		0.4	3	8	30	65	92
-3116	10	10000	0	3.6	14.8	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	3	36	97		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	41.9	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	39	59		
-3118	10	10000	0	3.6	4.0	0.0 +	0.0	(0.2)	23	(0.0)	0		0.2	3	59	28		
-3119	10	10000	1	3.6	41.9	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	41	61		
-4001	762	4000	19	15.0	0.6	0.0 +	0.1	(1.7)	0	(0.1)	0		1.8					
-4002	567	4000	14	15.0	0.5	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3					
-4003	229	4000	6	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5					
-4004	455	4000	11	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	60	73		
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	64	73		
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	55	73		
-4114	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	4	84	32		
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	84	55		
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	66	73		
-5001	846	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-5002	31	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	157	4000	4	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
-5111	10	10000	1	3.6	51.5	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	53	63		
-6001	220	4000	5	7.5	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-6111	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	6	24	117		
-6112	10	10000	1	3.6	49.4	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	6	5	17		
-6113	10	10000	1	3.6	41.9	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	6	117	17		
-8001	487	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1					
-8111	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	8	115	62		
-8112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	8	90	108		
-8113	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	8	67	108		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
6704.9	390.4	17.2	157.0	93.0	(3550.4)	+	(569.8)	+	(0.0)	=	4120.2	TOTALS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	444.6	+	292.2	+	260.4	=	997.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	27	57	80
3	4	91	117	28	54	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	62	82		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
6704.9	390.4	17.2	157.0	93.0	(3550.4)	+	(569.8)	+	(0.0)	=	4120.2	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 646

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	27	57	80
3	4	91	117	28	54	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	62	82		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6704.9	390.4	17.2	157.0	93.0	(3550.4) + (569.8)	+ (0.0)	=	4120.2	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 642

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	28	58	80
3	4	91	116	28	55	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	61	82		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6704.9	389.1	17.2	156.5	92.2	(3531.3) + (569.2)	+ (0.0)	=	4100.4	TOTALS

NO. OF ENTRIES TO SUBPT = 58
NO. OF LINKS RECALCULATED= 1618

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120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	28	58	80
3	4	91	116	28	55	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	61	82		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6704.9	389.1	17.2	156.5	92.2	(3531.3) + (569.2)	+ (0.0)	=	4100.4	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 742

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	28	58	80
3	4	91	116	28	55	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	61	82		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6704.9	389.1	17.2	156.5	92.2	(3531.3) + (569.2)	+ (0.0)	=	4100.4	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 770

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48 1
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	28	58	80
3	4	91	116	28	55	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	61	82		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)	($/H)	($/H)	($/H)	
6704.9	389.1	17.2	156.5	92.2	(3531.3) + (569.2)	+ (0.0)	=	4100.4	TOTALS

NO. OF ENTRIES TO SUBPT = 17
NO. OF LINKS RECALCULATED= 904

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48 -1 18 48 1 -1
- (SECONDS)

1	5	12	26	63	94	117
2	5	96	108	28	58	80
3	4	91	116	29	55	
4	3	73	32	55		
5	5	4	46	63	77	110
6	3	17	112	117		
8	3	108	61	82		

TOTAL DISTANCE	TOTAL TIME	MEAN JOURNEY	TOTAL UNIFORM	TOTAL RANDOM+	TOTAL COST	TOTAL COST	PENALTY FOR	TOTAL PERFORMANCE

TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)	OF STOPS ($/H)	EXCESS QUEUES ($/H)	INDEX ($/H)	
6704.9	389.0	17.2	156.1	92.6	(3530.5) + (569.4)	+ (0.0)	=	4099.9	TOTALS

NO. OF ENTRIES TO SUBPT = 52
NO. OF LINKS RECALCULATED= 1971

.

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	12	26	63	94	117					
2	5	96	108	28	58	80					
3	4	91	116	29	55						
4	3	73	32	55							
5	5	4	46	63	77	110					
6	3	17	112	117							
8	3	108	61	82							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	684	1975	90	15.0	57.0	6.6 +	4.2	(153.8)	108	(23.7)	25		177.4	1	18	63		
112	683	2095	85	15.0	48.2	6.4 +	2.7	(129.8)	99	(21.7)	23		151.5	1	18	63		
113	10	1955	8	4.5	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	19	26		
114	12	1955	4	15.0	47.4	0.1 +	0.0	(2.2)	85	(0.3)	0		2.6	1	7	26		
115	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	5	12		
116	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	5	12		
117	10	2055	1	5.3	11.0	0.0 +	0.0	(0.4)	50	(0.2)	0		0.6	1	35	95		
118	888	2250	78	62.3	30.4	5.8 +	1.7	(106.6)	71	(20.4)	22		127.0	1	35	95		
119	519	2095	49	62.3	19.7	2.4 +	0.5	(40.2)	38	(6.4)	7		46.6	1	35	95		
120	407	2000	90	5.3	81.0	5.2 +	4.0	(130.1)	123	(16.0)	17	+	146.1	1	69	95		
121	236	1895	88	15.0	97.1	3.3 +	3.1	(90.4)	130	(9.8)	11		100.3	1	101	117		
122	59	1915	22	4.9	54.0	0.7 +	0.1	(12.6)	93	(1.8)	2		14.3	1	101	117		
211	643	1932	60	62.3	16.1	2.1 +	0.8	(40.9)	44	(9.0)	10		49.8	2	113	58		
212	601	2075	53	62.3	18.1	2.5 +	0.6	(42.9)	71	(13.6)	16		56.5	2	113	58		
213	340	1741	94	9.0	126.0	6.8 +	5.1	(169.0)	134	(14.6)	16		183.5	2	34	58		
214	368	1967	48	15.0	31.8	2.8 +	0.5	(46.2)	75	(8.9)	10		55.0	2	36	82		
215	259	1900	96	15.0	133.2	3.7 +	5.9	(136.0)	154	(12.8)	15		148.9	2	64	80		
216	194	1900	72	15.0	72.4	2.7 +	1.2	(55.4)	111	(6.9)	7		62.3	2	64	80		
217	486	1832	68	9.0	15.7	1.1 +	1.0	(30.1)	34	(5.4)	8		35.4	2	103	29		
218	704	2100	94	26.3	59.8	5.9 +	5.8	(166.0)	104	(23.4)	27		189.4	2	106	28		
219	703	2400	82	26.3	40.2	5.7 +	2.2	(111.5)	50	(11.3)	12		122.8	2	106	28		
220	89	1882	57	36.0	78.9	1.3 +	0.6	(27.7)	115	(0.1)	3		27.9	2	87	96		
221	27	1700	24	1.5	91.5	0.5 +	0.2	(9.7)	91	(0.8)	1		10.5	2	101	108		
311	447	715	84	4.5	25.3	0.7 +	2.5	(44.6)	94	(13.5)	10	+	58.0					
312	429	1925	84	26.3	60.6	4.8 +	2.4	(102.6)	102	(14.0)	15		116.6	3	1	32		
313	429	2085	77	26.3	56.1	5.0 +	1.6	(94.9)	92	(12.7)	13		107.5	3	1	32		
314	286	2085	51	26.2	52.3	3.6 +	0.5	(59.0)	66	(6.1)	6		65.1	3	1	32		
315	82	1837	42	26.3	60.0	1.0 +	0.4	(19.4)	70	(1.8)	2		21.2	3	1	34		
316	262	2191f	84	11.6	67.3	2.5 +	2.4	(69.5)	116	(9.8)	11		79.3	3	39	55		
317	262	2120	87	11.6	78.2	2.7 +	3.0	(80.8)	120	(10.1)	11		91.0	3	39	55		
318	134	2100	45	11.6	40.9	1.1 +	0.4	(21.6)	98	(4.2)	5		25.8	3	39	55		
319	133	2053	46	11.6	46.1	1.3 +	0.4	(24.2)	91	(3.9)	4		28.1	3	39	55		
321	667	2241f	70	17.3	22.8	3.1 +	1.2	(60.0)	72	(15.5)	19		75.4	3	100	30		
322	668	2100	75	17.3	22.9	2.8 +	1.5	(60.2)	55	(11.7)	16		71.9	3	100	30		
323	445	2075	50	17.3	14.9	1.3 +	0.5	(26.2)	25	(3.6)	4		29.8	3	100	30		
324	430	3047f	89	17.3	68.1	4.5 +	3.6	(115.5)	108	(14.9)	17		130.5	3	100	118		
326	350	2150	75	15.0	59.1	4.3 +	1.5	(81.6)	102	(11.5)	12		93.1	3	67	92		
327	426	2150	91	15.0	82.9	5.4 +	4.4	(139.4)	123	(16.8)	18		156.1	3	67	92		
328	222	1999	51	3.4	49.9	2.6 +	0.5	(43.7)	92	(6.6)	7		50.3	3	67	92		
411	675	1965	45	15.0	6.4	0.8 +	0.4	(17.0)	23	(4.9)	6		21.9	4	85	55		
412	509	2105	32	15.0	4.5	0.4 +	0.2	(9.0)	13	(2.1)	2		11.1	4	85	55		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
413	201	2105	13	15.0	5.9	0.3 +	0.1	(4.7)	20	(1.3)	1		5.9	4	85	55		
414	250	2000	71	4.5	68.5	3.5 +	1.2	(67.5)	114	(9.1)	10		76.7	4	37	57		
415	371	1807	60	15.0	40.0	3.4 +	0.7	(58.5)	85	(10.1)	11		68.7	4	39	79		
416	173	1915	54	15.0	58.0	2.2 +	0.6	(39.6)	98	(5.4)	6		45.0	4	60	79		
417	205	1786	21	3.8	15.5	0.8 +	0.1	(12.6)	49	(3.2)	3		15.8	4	86	32		
418	556	2200	45	15.0	18.3	2.4 +	0.4	(40.2)	57	(10.2)	11		50.5	4	86	32		
419	860	2200	70	15.0	24.1	4.6 +	1.2	(81.7)	72	(19.8)	21		101.5	4	86	32		
420	422	2095	36	6.0	17.1	1.7 +	0.3	(28.4)	54	(7.3)	8		35.7	4	86	32		
511	40	1854	25	7.5	39.4	0.3 +	0.2	(6.2)	107	(1.4)	1		7.6	5	70	79	117	6
512	765	2113	69	15.0	16.8	2.5 +	1.1	(50.6)	74	(18.2)	13		68.8	5	11	46	84	110
513	117	1800	48	3.8	31.7	0.6 +	0.5	(14.6)	132	(4.9)	3		19.6	5	11	48	84	112
514	66	1769	28	15.0	35.5	0.5 +	0.2	(9.2)	102	(2.2)	1		11.4	5	70	77	117	4
515	842	4010	40	6.4	3.7	0.5 +	0.3	(12.3)	26	(7.0)	5		19.3	5	11	46	84	110
611	98	1811	41	7.5	60.1	1.3 +	0.3	(23.2)	98	(3.1)	3		26.3	6	4	19		
612	112	1800	47	7.5	62.1	1.5 +	0.4	(27.4)	101	(3.6)	4		31.1	6	4	19		
613	578	1943	40	6.4	5.6	0.6 +	0.3	(12.8)	33	(6.1)	7		18.9	6	24	112		
614	217	1965	15	6.4	4.1	0.2 +	0.1	(3.5)	23	(1.6)	2		5.1	6	24	112		
615	730	1965	47	8.3	6.7	0.9 +	0.5	(19.3)	44	(10.2)	12		29.5	6	24	117		
616	117	1800	16	8.3	5.9	0.1 +	0.1	(2.7)	18	(0.7)	1		3.4	6	24	119		
811	851	1915	61	27.7	6.8	0.8 +	0.8	(22.9)	15	(4.1)	4		27.0	8	116	82		
812	503	2055	34	27.8	5.7	0.5 +	0.3	(11.3)	16	(2.6)	3		13.9	8	116	82		
813	204	1750	88	5.7	88.4	2.1 +	2.9	(71.2)	139	(9.1)	10		80.3	8	67	82		
814	333	1750	57	15.0	40.1	3.0 +	0.7	(52.6)	84	(9.0)	10		61.7	8	71	110		
815	306	1750	91	4.9	95.5	4.0 +	4.1	(115.2)	131	(12.9)	14	+	128.1	8	88	110		
816	1001	1950	93	15.0	32.3	3.0 +	6.0	(127.4)	92	(29.4)	36		156.8	8	116	61		
817	851	2055	75	15.0	10.7	1.0 +	1.5	(36.0)	19	(5.2)	12		41.2	8	116	61		
-1001	519	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-1002	959	4000	24	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.2)	0		2.4					
-1003	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	472	4000	12	15.0	0.5	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-1111	10	10000	0	3.6	21.4	0.1 +	0.0	(0.8)	58	(0.0)	0		0.9	1	69	117		
-1112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	1	8	26		
-1113	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	1	32	117		
-1114	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	1	18	117		
-1115	10	10000	0	3.6	7.0	0.0 +	0.0	(0.3)	44	(0.0)	0		0.3	1	36	94	6	12
-1116	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	1	101	26		
-2001	838	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-2002	67	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	87	28		
-2112	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	2	58	80		

-2113	10	10000	1	3.6	44.6	0.1	+	0.0	(	1.8)	84	(	0.0)	0		1.8	2	63	80					
-2115	10	10000	0	3.6	13.4	0.0	+	0.0	(	0.5)	45	(	0.0)	0		0.5	2	33	96					
-2116	10	10000	0	3.6	14.4	0.0	+	0.0	(	0.6)	47	(	0.0)	0		0.6	2	34	96					
-2117	10	10000	0	3.6	24.5	0.1	+	0.0	(	1.0)	62	(	0.0)	0		1.0	2	104	28					
-2118	10	10000	0	3.6	27.2	0.1	+	0.0	(	1.1)	65	(	0.0)	0		1.1	2	108	28					
-2119	10	10000	2	3.6	55.0	0.1	+	0.0	(	2.2)	94	(	0.0)	0		2.2	2	89	96					
-3001	897	4000	22	3.8	0.6	0.0	+	0.1	(	2.1)	1	(	0.2)	0		2.2								
-3002	1344	4000	34	15.0	0.7	0.0	+	0.3	(	3.6)	1	(	0.2)	0		3.8								
-3111	10	10000	0	3.6	33.7	0.1	+	0.0	(	1.3)	73	(	0.0)	0		1.3	3	35	65					
-3112	10	10000	0	3.6	3.3	0.0	+	0.0	(	0.1)	21	(	0.0)	0		0.1	3	1	93					
-3113	10	10000	0	3.6	33.7	0.1	+	0.0	(	1.3)	73	(	0.0)	0		1.3	3	68	99					
-3114	10	10000	0	3.6	6.6	0.0	+	0.0	(	0.3)	31	(	0.0)	0		0.3	3	97	57					
-3115	10	10000	0	3.6	10.3	0.0	+	0.0	(	0.4)	55	(	0.0)	0		0.4	3	7	31	66	92			
-3116	10	10000	0	3.6	14.9	0.0	+	0.0	(	0.6)	48	(	0.0)	0		0.6	3	37	97					

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	UNIFORM RANDOM+ COST OVERSAT OF DELAY (U+R+O=MEAN Q)					STOPS MEAN /PCU	STOPS COST OF STOPS	QUEUE MEAN MAX.	QUEUE AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN TIMES START 1ST END	GREEN TIMES START 2ND END
	(PCU/H)	(PCU/H)	(%)	(SEC)	(SEC)	(PCU-H/H)			($/H)		(%)	($/H)	(PCU)	(PCU)	($/H)		(SECONDS)	
-3117	10	10000	1	3.6	42.7	0.1	+	0.0	(	1.7)	82	(0.0)	0		1.7	3	40	60
-3118	10	10000	0	3.6	4.2	0.0	+	0.0	(	0.2)	24	(0.0)	0		0.2	3	60	29
-3119	10	10000	1	3.6	42.7	0.1	+	0.0	(	1.7)	82	(0.0)	0		1.7	3	42	62
-4001	762	4000	19	15.0	0.6	0.0	+	0.1	(	1.7)	0	(0.1)	0		1.8			
-4002	567	4000	14	15.0	0.5	0.0	+	0.1	(	1.2)	0	(0.1)	0		1.3			
-4003	229	4000	6	15.0	0.5	0.0	+	0.0	(	0.4)	0	(0.0)	0		0.5			
-4004	455	4000	11	15.0	0.5	0.0	+	0.1	(	0.9)	0	(0.1)	0		1.0			
-4111	10	10000	1	3.6	49.3	0.1	+	0.0	(	1.9)	89	(0.0)	0		2.0	4	60	73
-4112	10	10000	1	3.6	53.5	0.1	+	0.0	(	2.1)	93	(0.0)	0		2.1	4	64	73
-4113	10	10000	1	3.6	43.6	0.1	+	0.0	(	1.7)	83	(0.0)	0		1.7	4	55	73
-4114	10	10000	0	3.6	11.6	0.0	+	0.0	(	0.5)	42	(0.0)	0		0.5	4	84	32
-4115	10	10000	0	3.6	3.7	0.0	+	0.0	(	0.1)	23	(0.0)	0		0.2	4	84	55
-4116	10	10000	2	3.6	55.9	0.1	+	0.0	(	2.2)	95	(0.0)	0		2.2	4	66	73
-5001	846	4000	21	15.0	0.6	0.0	+	0.1	(	1.9)	0	(0.1)	0		2.0			
-5002	31	4000	1	15.0	0.5	0.0	+	0.0	(	0.1)	0	(0.0)	0		0.1			
-5003	157	4000	4	15.0	0.5	0.0	+	0.0	(	0.3)	0	(0.0)	0		0.3			
-5111	10	10000	1	3.6	51.5	0.1	+	0.0	(	2.0)	91	(0.0)	0		2.0	5	53	63
-6001	220	4000	5	7.5	0.5	0.0	+	0.0	(	0.4)	0	(0.0)	0		0.4			
-6111	10	10000	0	3.6	3.3	0.0	+	0.0	(	0.1)	21	(0.0)	0		0.1	6	24	117
-6112	10	10000	1	3.6	49.4	0.1	+	0.0	(	1.9)	89	(0.0)	0		2.0	6	5	17
-6113	10	10000	1	3.6	41.9	0.1	+	0.0	(	1.7)	82	(0.0)	0		1.7	6	117	17
-8001	487	4000	12	15.0	0.5	0.0	+	0.1	(	1.0)	0	(0.1)	0		1.1			
-8111	10	10000	0	3.6	12.0	0.0	+	0.0	(	0.5)	43	(0.0)	0		0.5	8	115	61
-8112	10	10000	1	3.6	44.5	0.1	+	0.0	(	1.8)	84	(0.0)	0		1.8	8	90	108
-8113	10	10000	0	3.6	25.9	0.1	+	0.0	(	1.0)	64	(0.0)	0		1.0	8	66	108

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY		TOTAL COST OF STOPS		PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX	
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)		($/H)		($/H)	($/H)	
6704.9	389.0	17.2	156.1	92.6	(3530.5)	+	(569.4)	+	(0.0)	= 4099.9	TOTALS
											ROUTE
405.9	20.6	19.7	6.9	5.3	(172.9)	+	(34.2)	+	(0.0)	= 207.1	1
585.3	21.6	27.1	6.9	2.5	(133.7)	+	(43.1)	+	(0.0)	= 176.8	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	444.6	+	290.6	+	260.2	=	995.5

NO. OF ENTRIES TO SUBPT = 17
NO. OF LINKS RECALCULATED= 928

PROGRAM TRANSYT FINISHED

2020 Edge Lane AM Peak - Proposed

PRT File
2020 AM Peak : 07:45 - 08:45

T R A N S Y T 12

Traffic Network Study Tool

Analysis Program Release 5 (January 2007)

For sales and distribution information,
program advice and maintenance, contact:

TRL Limited
Crowthorne House
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Fax: +44 (0) 1344 770864
Email: softwarebureau@trl.co.uk
Web: www.trlsoftware.co.uk

Run with file:- "2020 AM PEAK PROPOSED.DAT" at 16:43 on 20100929

TRANSYT 12.0

Edge Lane - AM Peak

PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :

NUMBER OF NODES	= 7
NUMBER OF LINKS	= 120
NUMBER OF OPTIMISED NODES	= 7
MAXIMUM NUMBER OF GRAPHIC PLOTS	= 0
NUMBER OF STEPS IN CYCLE	= 60
MAXIMUM NUMBER OF SHARED STOPLINES	= 0
MAXIMUM NUMBER OF TIMING POINTS	= 5
MAXIMUM LINKS AT ANY NODE	= 24

CORE REQUESTED = 21339 WORDS
CORE AVAILABLE = 96000 WORDS

.

DATA INPUT :-

CARD NO.	CARD TYPE	CYCLE TIME (SEC)	NO. OF STEPS PER CYCLE	TIME EFFECTIVE-GREEN PERIOD 1-1200 MINS.	DISPLACEMENTS START (SEC)	DISPLACEMENTS END (SEC)	EQUISAT 0=UNEQUAL 1=EQUAL SETTINGS 1=YES	FLOW CYCLE %	SCALE %	CRUISE-SPEEDS SCALE %	CARD32 0=TIMES 1=SPEEDS	OPTIMISE 0=NONE 1=O/SET 2=FULL	EXTRA COPIES FINAL OUTPUT	HILL- CLIMB 1=FULL	DELAY VALUE P PER PCU-H	STOP VALUE P PER 100
2)=	1	120	60	60	2	3	1	1	100	100	1	2	0	0	1420	260

CARD NO.	CARD TYPE	LIST OF NODES TO BE OPTIMISED									
3)=	2	1	2	3	4	5	6	8	0	0	0	0	0	0	0	0	0

NODE CARDS: MINIMUM STAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
4)=	10	1	7	0	6	7	4					
5)=	10	2	2	2	5	7	7					
6)=	10	3	7	5	4	5						
7)=	10	4	7	3	7							
8)=	10	5	10	10	7	10	7					
9)=	10	6	7	5								
10)=	10	8	7	0	7							

NODE CARDS: PRECEDING INTERSTAGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
11)=	11	1	7	10	6	7	11					
12)=	11	2	10	5	8	6	9					
13)=	11	3	9	11	13	13						
14)=	11	4	13	7	11							
15)=	11	5	7	7	7	7	7					
16)=	11	6	7	9								
17)=	11	8	8	10	8							

NODE CARDS: STAGE CHANGE TIMES (WORKING)

CARD NO.	CARD TYPE	NODE NO.	Sgl/Dbl Cycled	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
18)=	12	1	1	41	55	100	2	26					
19)=	12	2	1	106	118	61	77	90					
20)=	12	3	1	92	0	36	57						
21)=	12	4	1	71	36	49							
22)=	12	5	1	9	45	62	84	109					
23)=	12	6	1	54	40								
24)=	12	8	1	2	97	107							

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	PRIORITY LINKS LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100	LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
25)=	30	311	-3001	0	0	22	0	60	0	715	0	0
26)=	30	315	321	0	0	50	0	350	0	1000	0	0
27)=	30	414	418	0	0	50	0	60	0	1000	0	0
28)=	30	511	514	0	0	50	0	100	0	1000	0	0
29)=	30	513	515	0	0	50	0	50	0	1000	0	0
30)=	30	616	614	0	0	50	0	110	0	1000	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	FIRST GREEN START STAGE	FIRST GREEN START LAG	FIRST GREEN END STAGE	FIRST GREEN END LAG	SECOND GREEN START STAGE	SECOND GREEN START LAG	SECOND GREEN END STAGE	SECOND GREEN END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	111	1	1	6	3	0	0	0	0	0	200	0	1975	0	0
32)=	31	112	1	1	6	3	0	0	0	0	0	200	0	2095	0	0

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	155	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	4	0	5	7	1	0	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
82)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	4	7	5	0	85	0	4010	0	0
84)=	31	611	6	2	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	2	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	2	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	2	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	2	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	2	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	200	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	2	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	2	9	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	7	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD	CARD	LINK	TOTAL	UNIFORM	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE
NO.	TYPE	NO.	FLOW	FLOW	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED
150)=	32	111	711	0	0	0	48	0	0	0	0	0	0	0	0	0

```
151)=  32     112     710       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      42       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      10       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      10       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      10       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      22       0     816      22      48       0       0       0       0       0       0       0       0       0
157)=  32     118     901       0     814      86      48     816     815      48       0       0       0       0       0       0
158)=  32     119     678       0     817     709      48       0       0       0       0       0       0       0       0       0
159)=  32     120     246       0     814      13      48     817     233      48       0       0       0       0       0       0
160)=  32     121     245       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122     174       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     708       0     811     624      48     815      84      48       0       0       0       0       0       0
163)=  32     212     708       0     811     283      48     812     610      48       0       0       0       0       0       0
164)=  32     213     132       0     812     132      48       0       0       0       0       0       0       0       0       0
165)=  32     214     108       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215      90       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216      42       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     213       0     321     194      48     327      19      48       0       0       0       0       0       0
169)=  32     218     987       0     316      56      48     321     131      48     322     611      48     328     189      48
170)=  32     219    1187       0     322     407      48     323     789      48       0       0       0       0       0       0
171)=  32     220      30       0       0       0      48       0       0       0       0       0       0       0       0       0
172)=  32     221      23       0     323      23      48       0       0       0       0       0       0       0       0       0
173)=  32     311     182       0     211     166      48     215      16      48       0       0       0       0       0       0
174)=  32     312     481       0     211     407      48     215      64      48     220      10      48       0       0       0
175)=  32     313     481       0     211     125      48     212     305      48     216      42      48       0       0       0
176)=  32     314     320       0     212     320      48       0       0       0       0       0       0       0       0       0
177)=  32     315      83       0     212      83      48       0       0       0       0       0       0       0       0       0
178)=  32     316     235       0     611      10      48     613     301      48       0       0       0       0       0       0
179)=  32     317     179       0     613     179      48       0       0       0       0       0       0       0       0       0
180)=  32     318     160       0     611      10      48     614     150      48       0       0       0       0       0       0
181)=  32     319     160       0     614     160      48       0       0       0       0       0       0       0       0       0
182)=  32     321    1018       0     415     128      48     418     890      48       0       0       0       0       0       0
183)=  32     322    1018       0     415      85      48     419     933      48       0       0       0       0       0       0
184)=  32     323     812       0     419     477      48     420     335      48       0       0       0       0       0       0
185)=  32     324     478       0     415     214      48     420     264      48       0       0       0       0       0       0
186)=  32     326     499       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     518       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     189       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411     751       0     312     481      48     318     160      48     326     110      48       0       0       0
190)=  32     412     577       0     313     481      48     319      96      48       0       0       0       0       0       0
191)=  32     413     294       0     314     230      48     319      64      48       0       0       0       0       0       0
192)=  32     414     200       0     314      90      48     326     110      48       0       0       0       0       0       0
193)=  32     415     427       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     384       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     421       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     890       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419    1410       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     599       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      42       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512     744       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513      54       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514     430       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515    1690       0     612      16      48     615    1668      48       0       0       0       0       0       0
204)=  32     611      20       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612      16       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     491       0     511      10      48     512     454      48     514      27      48       0       0       0
207)=  32     614     310       0     511      10      48     512     280      48     514      20      48       0       0       0
208)=  32     615    1668       0     315      83      48     321     679      48     326     279      48     327     483      48
209)=  32     616      30       0     321      14      48     327      16      48       0       0       0       0       0       0
210)=  32     811     907       0     111     680      48     116      10      48     121     217      48       0       0       0
211)=  32     812     742       0     112     700      48       0       0       0       0       0       0       0       0       0
212)=  32     813      20       0     112      10      48     121      10      48       0       0       0       0       0       0
213)=  32     814      99       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815      84       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816    1051       0     214      54      48     218     987      48     220      10      48       0       0       0
216)=  32     817     942       0     214      54      48     219    1187      48       0       0       0       0       0       0
217)=  32   -1001     678       0     119     678      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002    1085       0     114      10      48     118     901      48     122     174      48       0       0       0
219)=  32   -1003      82       0     113      42      48     117      22      48     121      18      48       0       0       0
220)=  32   -1004     287       0     111      31      48     115      10      48     120     246      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     355       0     213     132      48     217     213      48     220      10      48       0       0       0
228)=  32   -2002      43       0     211      10      48     215      10      48     221      23      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001     836       0     316     179      48     317     179      48     324     478      48       0       0       0
238)=  32   -3002    1018       0     311     182      48   -3001     836      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001     943       0     411     751      48     416     192      48       0       0       0       0       0       0
249)=  32   -4002     705       0     412     577      48     416     128      48       0       0       0       0       0       0
250)=  32   -4003     358       0     413     294      48     416      64      48       0       0       0       0       0       0
251)=  32   -4004     621       0     414     200      48     417     421      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001    2023       0     511      12      48     514     373      48     515    1638      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003     106       0     511      10      48     513      54      48     515      42      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001      41       0     613      11      48     616      30      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     230       0     813      20      48     816     214      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
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       TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
270)=  33     316    1800       1       0       0       0       0
271)=  33     321    1900       2       0       0       0       0
272)=  33     324    2100       5       0       0       0       0
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USER-DEFINED ROUTES

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CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

273)=  41       1    St Oswald's St - Rathbone Rd
274)=  41       2    Edge Lane Drive - Rathbone Road

CARD   CARD  ROUTE    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO    TYPE  NUMBER    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.

275)=  42       1     327     615     515    5001
276)=  42       2     418     321     615     515    5001

*****END OF SUBROUTINE TINPUT*****
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120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	41	55	99	1	26					
2	5	106	118	61	77	90					
3	4	92	1	30	52						
4	3	71	37	50							
5	5	9	44	61	83	108					
6	2	54	40								
8	3	2	97	107							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	OVERSAT OF DELAY ($/H)	COST	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
111	711	1975	82	15.0	40.1	5.8 + 2.1	(112.4)		92	(20.9)	23		133.4	1	47	99
112	710	2095	77	15.0	36.5	5.6 + 1.6	(102.3)		87	(19.8)	21		122.1	1	47	99
113	42	1955	32	4.5	73.8	0.6 + 0.2	(12.2)		109	(1.5)	2		13.7	1	48	55
114	10	1955	3	15.0	48.2	0.1 + 0.0	(1.9)		86	(0.3)	0		2.2	1	36	55
115	10	1955	8	15.0	68.1	0.1 + 0.0	(2.7)		103	(0.3)	0		3.0	1	34	41
116	10	1955	8	15.0	68.1	0.1 + 0.0	(2.7)		103	(0.3)	0		3.0	1	34	41
117	19	2055	2	5.3	22.3	0.1 + 0.0	(1.7)		65	(0.5)	0		2.1	1	64	2
118	836<	2250	76	62.3	22.7	3.7 + 1.5	(74.8)		54	(15.7)	18		90.5	1	64	2
119	642<	2095	62	62.3	22.5	3.2 + 0.8	(57.0)		42	(9.1)	10		66.1	1	64	2
120	234<	2000	78	5.3	81.0	3.6 + 1.7	(74.8)		113	(8.9)	9		83.7	1	105	2
121	245	1895	82	15.0	79.3	3.3 + 2.1	(76.6)		117	(9.2)	10		85.8	1	8	26
122	174	1915	57	4.9	60.6	2.3 + 0.7	(41.6)		100	(5.6)	6		47.2	1	8	26
211	708	1932	59	62.3	13.2	1.9 + 0.7	(36.9)		41	(9.4)	10		46.2	2	3	77
212	709	2075	55	62.3	9.6	1.3 + 0.6	(26.8)		27	(6.1)	7		32.8	2	3	77
213	132	1741	83	9.0	135.5	2.9 + 2.1	(70.6)		142	(6.0)	6		76.6	2	67	77
214	108	1967	27	15.0	46.9	1.2 + 0.2	(20.0)		87	(3.0)	3		23.0	2	69	92
215	90	1900	71	15.0	101.0	1.4 + 1.2	(35.9)		130	(3.8)	4		39.6	2	83	90
216	42	1900	33	15.0	74.5	0.6 + 0.2	(12.3)		109	(1.5)	2		13.8	2	83	90
217	200<	1832	19	9.0	4.6	0.1 + 0.1	(3.6)		15	(1.1)	1		4.7	2	113	62
218	902<	2100	78	26.3	17.6	2.6 + 1.8	(62.5)		43	(13.7)	17		76.2	2	116	61
219	1119<	2400	85	26.3	11.7	0.9 + 2.7	(51.6)		41	(15.5)	30		67.1	2	116	61
220	30	1882	19	7.5	65.4	0.4 + 0.1	(7.7)		102	(1.0)	1		8.7	2	97	106
221	22	1700	20	1.5	85.8	0.4 + 0.1	(7.4)		93	(0.7)	1		8.1	2	111	118
311	182	715	33	4.5	5.9	0.0 + 0.2	(4.2)		16	(0.9)	1		5.2			
312	480	1925	107	26.3	224.5	8.7 + 21.3	(425.0)		189	(29.3)	37		454.3	3	6	33
313	482	2085	99	26.3	134.4	8.0 + 10.0	(255.6)		147	(22.7)	26		278.3	3	6	33
314	321	2085	66	26.3	69.2	5.2 + 1.0	(87.7)		95	(9.7)	10		97.4	3	6	33
315	84	1837	137	26.3	645.7	2.2 + 12.9	(213.9)		255	(6.8)	16		220.7	3	6	35
316	235	2256f	96	11.6	125.9	2.5 + 5.7	(116.7)		151	(11.4)	14		128.1	3	40	52
317	179	2120	78	11.6	69.1	1.8 + 1.6	(48.8)		110	(6.3)	7		55.2	3	40	52
318	160	2100	70	11.6	65.9	1.8 + 1.1	(41.6)		105	(5.4)	6		47.0	3	40	52
319	160	2053	72	11.6	63.6	1.6 + 1.2	(40.2)		106	(5.4)	6		45.6	3	40	52
321	1018	2241f	107	17.3	168.3	8.3 + 39.3	(675.8)		180	(58.7)	74	+	734.5	3	101	31
322	984<	2100	110	17.3	223.6	10.7 + 50.4	(868.0)		189	(61.9)	85	+	930.0	3	101	31
323	794<	2075	90	17.3	41.4	5.0 + 4.1	(129.8)		91	(23.7)	27		153.5	3	101	31
324	478	2882f	87	17.3	56.2	4.5 + 3.0	(106.0)		105	(16.2)	18		122.2	3	101	3
326	499	2150	93	15.0	80.9	6.1 + 5.1	(159.2)		123	(19.6)	21		178.9	3	64	93
327	518	2150	96	15.0	96.6	6.4 + 7.5	(197.4)		134	(22.3)	24		219.8	3	64	93
328	189	1999	38	3.4	43.1	2.0 + 0.3	(32.1)		84	(5.1)	5		37.2	3	64	93
411	719<	1965	50	15.0	10.6	1.6 + 0.5	(30.1)		34	(8.3)	9		38.4	4	83	50
412	578	2105	37	15.0	7.5	0.9 + 0.3	(17.1)		23	(4.2)	4		21.3	4	83	50

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	OVERSAT OF DELAY ($/H)	COST	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
413	294	2105	19	15.0	7.3	0.5 + 0.1	(8.5)		25	(2.4)	2		10.9	4	83	50
414	200	2000	109	4.5	287.9	3.6 + 12.4	(227.1)		213	(13.7)	19	+	240.8	4	42	52
415	427	1807	83	15.0	60.4	4.8 + 2.4	(101.8)		106	(14.6)	16		116.3	4	44	77
416	384	1915	105	15.0	190.6	5.4 + 14.9	(288.7)		183	(22.6)	28		311.3	4	55	77
417	421	1786	38	3.8	14.2	1.3 + 0.3	(23.6)		48	(6.6)	7		30.1	4	84	37
418	890	2200	66	15.0	18.7	3.7 + 0.9	(65.5)		63	(18.0)	20		83.4	4	84	37
419	1410	2200	104	15.0	120.3	10.8 + 36.4	(669.1)		158	(71.5)	84	+	740.5	4	84	37
420	599	2095	46	6.0	14.9	2.1 + 0.4	(35.3)		52	(10.0)	11		45.3	4	84	37
511	42	1854	97	7.5	288.0	0.4 + 2.9	(47.7)		272	(3.7)	4		51.4	5	68	83 115 9
512	744	2113	88	15.0	37.9	4.4 + 3.4	(111.1)		114	(27.2)	17		138.3	5	16	44 90 108
513	54	1800	90	3.8	193.6	0.4 + 2.5	(41.2)		281	(4.9)	3		46.1	5	16	46 90 110
514	430	1769	94	15.0	73.7	3.2 + 5.6	(124.9)		159	(21.9)	14		146.8	5	68	83 115 9
515	1619<	4010	101	6.4	70.1	7.4 + 24.1	(447.4)		158	(85.5)	57	+	532.9	5	16	44 90 108
611	20	1811	13	7.5	64.5	0.3 + 0.1	(5.1)		102	(0.7)	1		5.7	6	47	56
612	16	1800	11	7.5	63.8	0.2 + 0.1	(4.0)		100	(0.5)	1		4.5	6	47	56
613	491	1943	30	6.4	2.5	0.1 + 0.2	(4.9)		8	(1.2)	1		6.0	6	61	42
614	310	1965	19	6.4	2.2	0.1 + 0.1	(2.7)		7	(0.7)	1		3.4	6	61	42
615	1596<	1965	97	8.3	37.8	4.6 + 12.1	(238.2)		101	(54.2)	64	+	292.5	6	61	40
616	29	1800	4	8.3	2.7	0.0 + 0.0	(0.3)		2	(0.0)	0		0.3	6	61	42
811	907	1915	58	27.8	6.3	0.9 + 0.7	(22.4)		22	(6.4)	7		28.8	8	10	107
812	743	2055	44	27.8	6.1	0.9 + 0.4	(17.8)		26	(6.3)	6		24.1	8	10	107
813	20	1750	27	5.7	88.4	0.3 + 0.2	(7.0)		123	(0.8)	1		7.8	8	103	107
814	99	1750	38	15.0	56.9	1.3 + 0.3	(22.2)		96	(3.1)	3		25.3	8	107	4
815	84	1750	48	15.0	70.6	1.2 + 0.5	(23.4)		108	(2.9)	3		26.3	8	113	4
816	966<	1950	68	15.0	4.4	0.2 + 1.0	(16.9)		9	(3.2)	10		20.1	8	10	97
817	891<	2055	59	15.0	3.1	0.0 + 0.7	(11.0)		3	(1.0)	1		12.0	8	10	97
-1001	642<	4000	16	15.0	0.5	0.0 + 0.1	(1.4)		0	(0.1)	0		1.4			
-1002	1020<	4000	25	15.0	0.6	0.0 + 0.2	(2.4)		0	(0.2)	0		2.6			

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN QUEUE MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN START 1ST	END	START 2ND	END
-1003	79	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-1004	275<	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6					
-1111	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	1	105	26		
-1112	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	1	37	55		
-1113	10	10000	0	3.6	5.1	0.0 +	0.0	(0.2)	27	(0.0)	0		0.2	1	61	26		
-1114	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	1	47	26		
-1115	10	10000	0	3.6	7.1	0.0 +	0.0	(0.3)	44	(0.0)	0		0.3	1	65	1	35	41
-1116	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	8	55		
-2001	342<	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7					
-2002	42	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	2	97	61		
-2112	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	2	77	90		
-2113	10	10000	1	3.6	54.7	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	82	90		
-2115	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	66	106		
-2116	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	67	106		
-2117	10	10000	0	3.6	12.0	0.0 +	0.0	(0.5)	43	(0.0)	0		0.5	2	114	61		
-2118	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	118	61		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	99	106		
-3001	836	4000	21	3.8	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-3002	1017	4000	25	15.0	0.6	0.0 +	0.2	(2.4)	1	(0.2)	0		2.6					
-3111	10	10000	0	3.6	37.6	0.1 +	0.0	(1.5)	77	(0.0)	0		1.5	3	36	62		
-3112	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	3	6	94		
-3113	10	10000	0	3.6	30.0	0.1 +	0.0	(1.2)	69	(0.0)	0		1.2	3	65	100		
-3114	10	10000	0	3.6	8.3	0.0 +	0.0	(0.3)	35	(0.0)	0		0.3	3	98	54		
-3115	10	10000	0	3.6	10.5	0.0 +	0.0	(0.4)	55	(0.0)	0		0.4	3	12	32	63	93
-3116	10	10000	0	3.6	15.4	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	3	38	98		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	45.5	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	41	57		
-3118	10	10000	0	3.6	3.0	0.0 +	0.0	(0.1)	20	(0.0)	0		0.1	3	57	30		
-3119	10	10000	1	3.6	45.5	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	3	43	59		
-4001	902<	4000	23	15.0	0.6	0.0 +	0.1	(2.1)	0	(0.1)	0		2.2					
-4002	701	4000	18	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-4003	355	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7					
-4004	604<	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.3					
-4111	10	10000	1	3.6	45.5	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	4	55	71		
-4112	10	10000	1	3.6	49.4	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	59	71		
-4113	10	10000	1	3.6	41.8	0.1 +	0.0	(1.6)	82	(0.0)	0		1.7	4	50	71		
-4114	10	10000	0	3.6	8.7	0.0 +	0.0	(0.3)	36	(0.0)	0		0.3	4	82	37		
-4115	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	4	82	50		
-4116	10	10000	1	3.6	51.5	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	4	61	71		
-5001	1941<	4000	49	15.0	0.9	0.0 +	0.5	(6.7)	1	(0.5)	0		7.1					
-5002	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	103	4000	3	15.0	0.5	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2					
-5111	10	10000	1	3.6	51.5	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	51	61		
-6001	40	4000	1	7.5	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-6111	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	6	61	40		
-6112	10	10000	2	3.6	57.8	0.2 +	0.0	(2.3)	96	(0.0)	0		2.3	6	49	54		
-6113	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	6	47	54		
-8001	213<	4000	5	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-8111	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	8	9	97		
-8112	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	8	115	2		
-8113	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	8	102	2		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
8009.0	653.7	12.3	177.8	309.1	(6913.1) +	(855.2) +	(0.0) =	7768.3	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	521.1	+	564.9	+	390.5	=	1476.6

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	41	55	99	1	26
2	5	106	118	61	77	90
3	4	92	1	30	52	
4	3	71	37	50		
5	5	9	44	61	83	108
6	2	54	40			
8	3	2	97	107		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
8009.0	653.7	12.3	177.8	309.1	(6913.1) +	(855.2) +	(0.0) =	7768.3	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 607

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	41	55	99	1	26
2	5	106	118	61	77	90
3	4	92	1	30	52	
4	3	71	37	50		
5	5	9	44	61	83	108
6	2	54	40			
8	3	2	97	107		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

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(PCU-KM/H)     (PCU-H/H)    (KM/H)      (PCU-H/H)(PCU-H/H)   ($/H)        ($/H)          ($/H)         ($/H)

  8009.0         653.7       12.3        177.8    309.1    (6913.1) + (  855.2)  +  (   0.0)   =    7768.3      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  603
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1
 - (SECONDS)

    1       5      40      54     100       1      25
    2       5     106     118      60      77      90
    3       4      87     115      31      52
    4       3      72      37      50
    5       5       8      44      61      83     108
    6       2      54      40
    8       3       2      97     107

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)      (PCU-H/H)(PCU-H/H)   ($/H)        ($/H)          ($/H)         ($/H)

  8009.0         584.1       13.7        166.0    251.2    (5924.8) + (  784.8)  +  (   0.0)   =    6709.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   60
NO. OF LINKS RECALCULATED= 1779
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18
 - (SECONDS)

    1       5      40      54     100       1      25
    2       5     106     118      60      77      90
    3       4      87     115      31      52
    4       3      72      37      50
    5       5       8      44      61      83     108
    6       2      54      40
    8       3       2      97     107

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)      (PCU-H/H)(PCU-H/H)   ($/H)        ($/H)          ($/H)         ($/H)

  8009.0         584.1       13.7        166.0    251.2    (5924.8) + (  784.8)  +  (   0.0)   =    6709.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   17
NO. OF LINKS RECALCULATED=  866
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48
 - (SECONDS)

    1       5      40      54     100       1      25
    2       5     106     118      60      77      90
    3       4      87     115      31      52
    4       3      72      37      50
    5       5       8      44      61      83     108
    6       2      54      40
    8       3       2      97     107

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)      (PCU-H/H)(PCU-H/H)   ($/H)        ($/H)          ($/H)         ($/H)

  8009.0         584.1       13.7        166.0    251.2    (5924.8) + (  784.8)  +  (   0.0)   =    6709.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  747
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1
 - (SECONDS)

    1       5      41      55     101       2      26
    2       5     106     118      60      77      90
    3       4      92       0      36      57
    4       3      71      36      49
    5       5       9      45      62      84     109
    6       2      54      40
    8       3       2      97     107

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY   OVERSAT     OF          OF          EXCESS       INDEX
                                                    DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)      (PCU-H/H)(PCU-H/H)   ($/H)        ($/H)          ($/H)         ($/H)

  8009.0         581.8       13.8        164.0    250.9    (5891.6) + (  786.4)  +  (   0.0)   =    6678.1      TOTALS

NO. OF ENTRIES TO SUBPT  =   20
NO. OF LINKS RECALCULATED=  943
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1  -1
 - (SECONDS)

    1       5      41      55     100       2      26
    2       5     106     118      61      77      90
    3       4      92       0      36      57
    4       3      71      36      49
    5       5       9      45      62      84     109
    6       2      54      40
    8       3       2      97     107

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
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TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)	OF STOPS ($/H)	EXCESS QUEUES ($/H)	INDEX ($/H)	
8009.0	581.6	13.8	164.1	250.6	(5889.2) + (785.7)	+ (0.0)	=	6674.9	TOTALS

NO. OF ENTRIES TO SUBPT = 50
NO. OF LINKS RECALCULATED= 1978

.

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	41	55	100	2	26					
2	5	106	118	61	77	90					
3	4	92	0	36	57						
4	3	71	36	49							
5	5	9	45	62	84	109					
6	2	54	40								
8	3	2	97	107							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
111	711	1975	80	15.0	38.3	5.6 +	2.0	(107.3)	89	(20.4)	22		127.7	1	47	100
112	710	2095	75	15.0	35.1	5.4 +	1.5	(98.3)	85	(19.4)	21		117.7	1	47	100
113	42	1955	32	4.5	73.8	0.6 +	0.2	(12.2)	109	(1.5)	2		13.7	1	48	55
114	10	1955	3	15.0	48.2	0.1 +	0.0	(1.9)	86	(0.3)	0		2.2	1	36	55
115	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	34	41
116	10	1955	8	15.0	68.1	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	34	41
117	20	2055	2	5.3	21.6	0.1 +	0.0	(1.7)	67	(0.5)	1		2.2	1	64	3
118	878<	2250	78	62.3	23.5	4.0 +	1.8	(81.5)	59	(17.0)	20		98.5	1	64	3
119	656<	2095	63	62.3	21.1	3.0 +	0.8	(54.5)	41	(9.0)	10		63.5	1	64	3
120	239	2000	80	5.3	84.6	3.8 +	1.8	(79.8)	117	(9.2)	10		89.0	1	106	3
121	245	1895	86	15.0	90.0	3.4 +	2.7	(87.0)	125	(9.8)	11		96.8	1	9	26
122	174	1915	61	4.9	63.4	2.3 +	0.8	(43.5)	103	(5.8)	6		49.2	1	9	26
211	708	1932	59	62.3	13.1	1.9 +	0.7	(36.5)	41	(9.4)	10		45.8	2	3	77
212	709	2075	55	62.3	9.6	1.3 +	0.6	(26.8)	27	(6.1)	7		32.9	2	3	77
213	132	1741	83	9.0	135.3	2.9 +	2.1	(70.5)	142	(6.0)	6		76.5	2	67	77
214	108	1967	27	15.0	46.9	1.2 +	0.2	(20.0)	87	(3.0)	3		23.0	2	69	92
215	90	1900	71	15.0	101.0	1.4 +	1.2	(35.9)	130	(3.8)	4		39.6	2	83	90
216	42	1900	33	15.0	74.5	0.6 +	0.2	(12.3)	109	(1.5)	2		13.8	2	83	90
217	210	1832	20	9.0	4.0	0.1 +	0.1	(3.3)	14	(1.0)	1		4.3	2	113	62
218	956<	2100	83	26.3	19.4	2.8 +	2.4	(73.1)	51	(16.1)	20		89.2	2	116	61
219	1144<	2400	87	26.3	13.4	1.1 +	3.1	(60.4)	35	(13.2)	27		73.6	2	116	61
220	30	1882	19	7.5	65.4	0.4 +	0.1	(7.7)	102	(1.0)	1		8.7	2	97	106
221	22	1700	19	1.5	83.7	0.4 +	0.1	(7.3)	92	(0.7)	1		7.9	2	111	118
311	182	715	33	4.5	5.8	0.0 +	0.3	(4.2)	15	(0.9)	1		5.0			
312	480	1925	86	26.3	67.9	6.3 +	2.8	(128.5)	98	(15.2)	16		143.7	3	5	39
313	482	2085	79	26.3	62.5	6.5 +	1.9	(118.7)	91	(14.0)	15		132.8	3	5	39
314	321	2085	53	26.3	54.2	4.3 +	0.6	(68.6)	82	(8.4)	9		77.0	3	5	39
315	84	1837	106	26.3	319.6	1.7 +	5.8	(105.9)	223	(5.9)	9		111.9	3	5	41
316	234	2280f	103	11.6	185.5	2.6 +	9.4	(171.2)	184	(13.9)	17		185.1	3	46	57
317	178	2120	84	11.6	83.6	1.8 +	2.3	(58.7)	127	(7.3)	8		66.0	3	46	57
318	159	2100	76	11.6	72.9	1.7 +	1.5	(45.7)	116	(6.0)	7		51.7	3	46	57
319	159	2053	77	11.6	73.3	1.6 +	1.6	(46.0)	120	(6.1)	7		52.1	3	46	57
321	1018	2226f	96	17.3	49.6	5.1 +	8.9	(199.3)	113	(37.1)	41		236.4	3	101	37
322	971<	2100	97	17.3	60.2	5.9 +	10.4	(230.7)	105	(34.2)	40		264.9	3	101	37
323	788<	2075	80	17.3	23.9	3.3 +	2.0	(74.3)	65	(17.0)	20		91.3	3	101	37
324	478	2918f	89	17.3	63.0	4.7 +	3.7	(118.7)	110	(17.0)	19		135.6	3	101	2
326	499	2150	111	15.0	265.9	7.1 +	29.7	(523.3)	208	(33.3)	47	+	556.6	3	69	93
327	518	2150	116	15.0	319.5	7.6 +	38.4	(652.8)	221	(36.7)	56	+	689.6	3	69	93
328	189	1999	45	3.4	49.4	2.2 +	0.4	(36.8)	91	(5.5)	6		42.4	3	69	93
411	738<	1965	52	15.0	10.6	1.6 +	0.5	(30.9)	36	(8.7)	9		39.6	4	83	49
412	578	2105	38	15.0	8.1	1.0 +	0.3	(18.4)	27	(5.0)	5		23.3	4	83	49

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
413	294	2105	19	15.0	7.8	0.5 +	0.1	(9.0)	30	(2.8)	3		11.8	4	83	49
414	189<	2000	103	4.5	215.4	2.9 +	8.4	(160.6)	184	(11.8)	15	+	172.4	4	41	51
415	427	1807	81	15.0	56.7	4.7 +	2.1	(95.5)	103	(14.1)	15		109.6	4	43	77
416	384	1915	100	15.0	142.4	5.1 +	10.1	(215.6)	161	(19.9)	23		235.5	4	54	77
417	421	1786	39	3.8	14.8	1.4 +	0.3	(24.5)	50	(6.7)	7		31.3	4	84	36
418	890	2200	67	15.0	19.5	3.8 +	1.0	(68.3)	64	(18.3)	20		86.7	4	84	36
419	1410	2200	105	15.0	141.5	11.6 +	43.9	(787.2)	168	(76.0)	93	+	863.2	4	84	36
420	599	2095	47	6.0	15.6	2.1 +	0.4	(36.8)	53	(10.2)	11		47.0	4	84	36
511	42	1854	120	7.5	522.3	0.7 +	5.4	(86.5)	279	(3.8)	7		90.3	5	69	84 116 9
512	744	2113	86	15.0	35.1	4.3 +	3.0	(103.1)	109	(26.1)	17		129.3	5	16	45 91 109
513	54	1800	83	3.8	151.2	0.4 +	1.8	(32.2)	267	(4.6)	3		36.8	5	16	47 91 111
514	430	1769	97	15.0	92.5	3.3 +	7.7	(156.8)	179	(24.7)	17		181.5	5	69	84 116 9
515	1583<	4010	97	6.4	37.8	6.1 +	10.5	(236.3)	116	(62.7)	40	+	299.0	5	16	45 91 109
611	20	1811	13	7.5	64.5	0.3 +	0.1	(5.1)	102	(0.7)	1		5.7	6	47	56
612	16	1800	11	7.5	63.8	0.2 +	0.1	(4.0)	100	(0.5)	1		4.5	6	47	56
613	489	1943	30	6.4	2.6	0.1 +	0.2	(5.0)	8	(1.3)	1		6.3	6	61	42
614	308	1965	18	6.4	2.3	0.1 +	0.1	(2.8)	8	(0.8)	1		3.6	6	61	42
615	1561<	1965	95	8.3	28.5	4.0 +	8.4	(175.8)	91	(48.5)	57	+	224.3	6	61	40
616	28	1800	4	8.3	2.9	0.0 +	0.0	(0.3)	4	(0.0)	0		0.4	6	61	42
811	907	1915	58	27.8	6.2	0.9 +	0.7	(22.3)	22	(6.4)	7		28.6	8	10	107
812	743	2055	44	27.8	6.1	0.9 +	0.4	(17.8)	27	(6.3)	6		24.1	8	10	107
813	20	1750	27	5.7	88.0	0.3 +	0.2	(6.9)	123	(0.8)	1		7.7	8	103	107
814	99	1750	38	15.0	56.9	1.3 +	0.3	(22.2)	96	(3.1)	3		25.3	8	107	4
815	84	1750	48	15.0	70.6	1.2 +	0.5	(23.4)	108	(2.9)	3		26.3	8	113	4
816	1020<	1950	71	15.0	5.0	0.2 +	1.2	(20.2)	13	(4.2)	13		24.4	8	10	97
817	911<	2055	60	15.0	3.2	0.1 +	0.8	(11.5)	4	(1.1)	1		12.6	8	10	97
-1001	656<	4000	16	15.0	0.5	0.0 +	0.1	(1.4)	0	(0.1)	0		1.5			
-1002	1062<	4000	27	15.0	0.6	0.0 +	0.2	(2.6)	0	(0.2)	0		2.7			
-1003	81	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2			
-1004	280	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6			
-1111	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	1	106	26
-1112	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	1	37	55
-1113	10	10000	0	3.6	5.1	0.0 +	0.0	(0.2)	27	(0.0)	0		0.2	1	61	26
-1114	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	1	47	26
-1115	10	10000	0	3.6	6.8	0.0 +	0.0	(0.3)	43	(0.0)	0		0.3	1	65	2 35 41
-1116	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	1	9	55
-2001	352	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-2002	42	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
-2111	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	2	97	61
-2112	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	2	77	90

-2113	10	10000	1	3.6	54.7	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	82	90		
-2115	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	66	106		
-2116	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	67	106		
-2117	10	10000	0	3.6	12.0	0.0 +	0.0	(0.5)	43	(0.0)	0		0.5	2	114	61		
-2118	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	118	61		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	99	106		
-3001	830	4000	21	3.8	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-3002	1011	4000	25	15.0	0.6	0.0 +	0.2	(2.4)	0	(0.2)	0		2.6					
-3111	10	10000	0	3.6	38.4	0.1 +	0.0	(1.5)	78	(0.0)	0		1.5	3	42	67		
-3112	10	10000	0	3.6	4.0	0.0 +	0.0	(0.2)	23	(0.0)	0		0.2	3	5	94		
-3113	10	10000	0	3.6	34.4	0.1 +	0.0	(1.4)	74	(0.0)	0		1.4	3	70	100		
-3114	10	10000	0	3.6	6.6	0.0 +	0.0	(0.3)	31	(0.0)	0		0.3	3	98	59		
-3115	10	10000	0	3.6	9.9	0.0 +	0.0	(0.4)	53	(0.0)	0		0.4	3	11	38	68	93
-3116	10	10000	0	3.6	18.5	0.1 +	0.0	(0.7)	54	(0.0)	0		0.7	3	44	98		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	46.4	0.1 +	0.0	(1.8)	86	(0.0)	0		1.8	3	47	62		
-3118	10	10000	0	3.6	3.0	0.0 +	0.0	(0.1)	20	(0.0)	0		0.1	3	62	36		
-3119	10	10000	1	3.6	46.4	0.1 +	0.0	(1.8)	86	(0.0)	0		1.8	3	49	64		
-4001	930<	4000	23	15.0	0.6	0.0 +	0.2	(2.1)	0	(0.1)	0		2.3					
-4002	706	4000	18	15.0	0.5	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
-4003	357	4000	9	15.0	0.5	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7					
-4004	604<	4000	15	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.3					
-4111	10	10000	1	3.6	45.4	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	4	54	71		
-4112	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	58	71		
-4113	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	4	49	71		
-4114	10	10000	0	3.6	9.1	0.0 +	0.0	(0.4)	37	(0.0)	0		0.4	4	82	36		
-4115	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	4	82	49		
-4116	10	10000	1	3.6	51.3	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	4	60	71		
-5001	1919<	4000	48	15.0	0.9	0.0 +	0.5	(6.5)	1	(0.4)	0		7.0					
-5002	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	100	4000	3	15.0	0.5	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2					
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	5	52	62		
-6001	38	4000	1	7.5	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-6111	10	10000	0	3.6	1.9	0.0 +	0.0	(0.1)	15	(0.0)	0		0.1	6	61	40		
-6112	10	10000	2	3.6	57.8	0.2 +	0.0	(2.3)	96	(0.0)	0		2.3	6	49	54		
-6113	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	6	47	54		
-8001	223	4000	6	15.0	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-8111	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	8	9	97		
-8112	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	8	115	2		
-8113	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	8	102	2		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)	TOTAL COST OF STOPS ($/H)	PENALTY FOR EXCESS QUEUES ($/H)	TOTAL PERFORMANCE INDEX ($/H)	
8009.0	581.6	13.8	164.1	250.6	(5889.2) +	(785.7) +	(0.0) =	6674.9	TOTALS
									ROUTE
835.3	92.9	9.0	17.7	57.8	(1071.4) +	(148.3) +	(0.0) =	1219.8	1
1143.9	72.2	15.9	19.1	29.2	(686.2) +	(167.1) +	(0.0) =	853.3	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	521.1	+	482.0	+	358.9	=	1362.0

NO. OF ENTRIES TO SUBPT = 16
NO. OF LINKS RECALCULATED= 864

PROGRAM TRANSYT FINISHED

2020 Edge Lane PM Peak - Proposed

PRT File
2020 PM Peak : 16:30 - 17:30

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1                 _________________ T R A N S Y T 12 _________________

                            Traffic Network Study Tool

                        Analysis Program Release 5  (January 2007)
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 --------------------------------------------------------------------------------
 THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS
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 --------------------------------------------------------------------------------

Run with file:- "2020 PM PEAK PROPOSED.DAT"   at 16:44   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    7
  NUMBER OF LINKS                    =  120
  NUMBER OF OPTIMISED NODES          =    7
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   24


  CORE REQUESTED =  21339 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE      %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60       2       3       1       1     100     100       1       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       6       8       0       0       0       0       0       0       0       0

                                NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1               7       0       6       7       4
   5)=  10       2               2       2       5       7       7
   6)=  10       3               7       5       4       5
   7)=  10       4               7       3       7
   8)=  10       5              10      10       7
   9)=  10       6               7       0       5
  10)=  10       8               7       0       7

                                NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  11)=  11       1               7      10       6       7      11
  12)=  11       2              10       5       8       6       9
  13)=  11       3               9      11      13      13
  14)=  11       4              13       7      11
  15)=  11       5               7       7       7
  16)=  11       6               7       5       8
  17)=  11       8               8      10       8

                                NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  18)=  12       1       1      114       8      59      83      99
  19)=  12       2       1       91     103      25      51      75
  20)=  12       3       1       81     100      22      50
  21)=  12       4       1       64      15      37
  22)=  12       5       1      102      71      88
  23)=  12       6       1       74      56      61
  24)=  12       8       1      105      60      81

                                          LINK CARDS:   GIVEWAY DATA
                    PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY      A1      A2                                                  LINK    STOP     MAX   DELAY  DISPSN
 NO.    TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                                LENGTH WT.X100   FLOW  WT.X100    X100
  25)=  30     311    -3001       0       0      22       0       0       0       0       0      60       0     715       0       0
  26)=  30     315      321       0       0      50       0       0       0       0       0     350       0    1000       0       0
  27)=  30     414      418       0       0      50       0       0       0       0       0      60       0    1000       0       0
  28)=  30     511      514       0       0      50       0       0       0       0       0     100       0    1000       0       0
  29)=  30     513      515       0       0      50       0       0       0       0       0      50       0    1000       0       0
  30)=  30     616      614       0       0      50       0       0       0       0       0     110       0    1000       0       0

                                          LINK  CARDS:   FIXED  DATA
                                    FIRST   GREEN                  SECOND  GREEN
 CARD   CARD   LINK     EXIT         START           END            START           END        LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE     STAGE    LAG    STAGE    LAG    STAGE    LAG    STAGE    LAG  LENGTH WT.X100  FLOW  WT.X100    X100
  31)=  31     111        1         1       6        3       0       0       0       0       0     200       0  1975       0       0
  32)=  31     112        1         1       6        3       0       0       0       0       0     200       0  2095       0       0
```

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	115	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	1	2	0	0	0	0	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	0	0	0	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	0	0	0	0	50	0	1800	0	0
82)=	31	514	5	3	7	1	0	0	0	0	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	0	0	0	0	85	0	4010	0	0
84)=	31	611	6	3	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	3	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	0	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	0	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	3	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	3	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	65	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	3	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	3	8	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	5	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD	CARD	LINK	TOTAL	UNIFORM	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE	LINK		CRUISE
NO.	TYPE	NO.	FLOW	FLOW	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED	NO.	FLOW	SPEED
150)=	32	111	959	0	0	0	48	0	0	0	0	0	0	0	0	0

```
151)=  32     112     958       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      11       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      32       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      23       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      20       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      15       0     816      15      48       0       0       0       0       0       0       0       0       0
157)=  32     118     772       0     814     193      48     816     579      48       0       0       0       0       0       0
158)=  32     119     556       0     817     572      48       0       0       0       0       0       0       0       0       0
159)=  32     120     324       0     814      47      48     817     277      48       0       0       0       0       0       0
160)=  32     121     244       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122     138       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     966       0     811     776      48     815     244      48       0       0       0       0       0       0
163)=  32     212     965       0     811     372      48     812     593      48       0       0       0       0       0       0
164)=  32     213     270       0     812     270      48       0       0       0       0       0       0       0       0       0
165)=  32     214     178       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215     278       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216     131       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     235       0     321     207      48     327      28      48       0       0       0       0       0       0
169)=  32     218     659       0     316      42      48     321     148      48     322     311      48     328     158      48
170)=  32     219     658       0     322     276      48     323     371      48       0       0       0       0       0       0
171)=  32     220      77       0       0       0      48       0       0       0       0       0       0       0       0       0
172)=  32     221      19       0     323      19      48       0       0       0       0       0       0       0       0       0
173)=  32     311     418       0     211     346      48     215      72      48       0       0       0       0       0       0
174)=  32     312     711       0     211     463      48     215     196      48     220      52      48       0       0       0
175)=  32     313     711       0     211     145      48     212     430      48     216     131      48       0       0       0
176)=  32     314     473       0     212     473      48       0       0       0       0       0       0       0       0       0
177)=  32     315      62       0     212      62      48       0       0       0       0       0       0       0       0       0
178)=  32     316     351       0     611      23      48     613     248      48       0       0       0       0       0       0
179)=  32     317     310       0     613     310      48       0       0       0       0       0       0       0       0       0
180)=  32     318     298       0     611      23      48     614     275      48       0       0       0       0       0       0
181)=  32     319     297       0     614     297      48       0       0       0       0       0       0       0       0       0
182)=  32     321     587       0     415     106      48     418     481      48       0       0       0       0       0       0
183)=  32     322     587       0     415      70      48     419     517      48       0       0       0       0       0       0
184)=  32     323     390       0     419     234      48     420     156      48       0       0       0       0       0       0
185)=  32     324     513       0     415     177      48     420     336      48       0       0       0       0       0       0
186)=  32     326     377       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     405       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     158       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411    1146       0     312     711      48     318     298      48     326     137      48       0       0       0
190)=  32     412     889       0     313     711      48     319     178      48       0       0       0       0       0       0
191)=  32     413     474       0     314     355      48     319     119      48       0       0       0       0       0       0
192)=  32     414     254       0     314     118      48     326     136      48       0       0       0       0       0       0
193)=  32     415     353       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     406       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     383       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     481       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419     751       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     492       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      40       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512    1147       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513     480       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514      59       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515     883       0     612      30      48     615     847      48       0       0       0       0       0       0
204)=  32     611      46       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612      30       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     605       0     511      10      48     512     585      48     514      10      48       0       0       0
207)=  32     614     572       0     511      10      48     512     552      48     514      10      48       0       0       0
208)=  32     615     847       0     315      62      48     321     222      48     326     104      48     327     356      48
209)=  32     616      31       0     321      10      48     327      21      48       0       0       0       0       0       0
210)=  32     811    1148       0     111     907      48     116      20      48     121     221      48       0       0       0
211)=  32     812     863       0     112     855      48       0       0       0       0       0       0       0       0       0
212)=  32     813     116       0     112     103      48     121      13      48       0       0       0       0       0       0
213)=  32     814     240       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815     244       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816     763       0     214      89      48     218     659      48     220      15      48       0       0       0
216)=  32     817     849       0     214      89      48     219     658      48       0       0       0       0       0       0
217)=  32   -1001     556       0     119     556      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002     942       0     114      32      48     118     772      48     122     138      48       0       0       0
219)=  32   -1003      36       0     113      11      48     117      15      48     121      10      48       0       0       0
220)=  32   -1004     399       0     111      52      48     115      23      48     120     324      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     515       0     213     270      48     217     235      48     220      10      48       0       0       0
228)=  32   -2002      41       0     211      12      48     215      10      48     221      19      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001    1132       0     316     309      48     317     310      48     324     513      48       0       0       0
238)=  32   -3002    1550       0     311     418      48   -3001    1132      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001    1349       0     411    1146      48     416     203      48       0       0       0       0       0       0
249)=  32   -4002    1024       0     412     889      48     416     135      48       0       0       0       0       0       0
250)=  32   -4003     542       0     413     474      48     416      68      48       0       0       0       0       0       0
251)=  32   -4004     637       0     414     254      48     417     383      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001     873       0     511      10      48     514      29      48     515     834      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003     529       0     511      10      48     513     480      48     515      39      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001      78       0     613      47      48     616      31      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     285       0     813     116      48     816     169      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
```

```
       TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
270)=  33     316    1800       1       0       0       0       0
271)=  33     321    1900       2       0       0       0       0
272)=  33     324    2100       5       0       0       0       0
```

USER-DEFINED ROUTES

```
CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

273)=  41       1    St Oswald's St - Rathbone Rd
274)=  41       2    Edge Lane Drive - Rathbone Road

CARD   CARD  ROUTE    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO    TYPE  NUMBER    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.

275)=  42       1     327     615     515    5001
276)=  42       2     418     321     615     515    5001

*****END OF SUBROUTINE TINPUT*****
```

120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	114	8	55	78	99					
2	5	91	103	24	51	75					
3	4	81	105	25	51						
4	3	64	13	36							
5	3	102	71	88							
6	3	74	56	61							
8	3	105	64	81							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	959	1975	104	15.0	138.4	9.5 +	27.4	(523.7)	164	(50.5)	60	+	574.2	1	0		55	
112	958	2095	98	15.0	74.0	8.4 +	11.3	(279.6)	125	(38.6)	42	+	318.2	1	0		55	
113	11	1955	8	4.5	67.3	0.2 +	0.0	(2.9)	103	(0.4)	0		3.3	1	1		8	
114	32	1955	10	15.0	48.5	0.4 +	0.1	(6.1)	87	(0.9)	1		7.0	1	109		8	
115	23	1955	18	15.0	69.5	0.3 +	0.1	(6.3)	106	(0.8)	1		7.1	1	107		114	
116	20	1955	15	15.0	68.8	0.3 +	0.1	(5.4)	105	(0.7)	1		6.1	1	107		114	
117	15	2055	1	5.3	5.3	0.0 +	0.0	(0.3)	33	(0.2)	0		0.5	1	17		79	
118	768	2250	65	62.3	25.1	4.4 +	0.9	(76.0)	62	(15.3)	16		91.3	1	17		79	
119	555	2095	50	62.2	28.3	3.9 +	0.5	(61.9)	59	(10.5)	11		72.5	1	17		79	
120	324	2000	102	5.3	175.1	4.8 +	11.0	(223.7)	177	(18.5)	22	+	242.2	1	61		79	
121	244	1895	103	15.0	197.7	3.6 +	9.8	(190.3)	186	(14.6)	18		204.9	1	85		99	
122	138	1915	58	4.9	67.0	1.9 +	0.7	(36.5)	105	(4.7)	5		41.2	1	85		99	
211	939<	1932	91	62.2	40.2	5.8 +	4.7	(148.8)	96	(29.9)	33		178.7	2	108		51	
212	952<	2075	86	62.3	33.2	5.8 +	3.0	(124.8)	100	(31.0)	33		155.8	2	108		51	
213	269	1741	84	9.0	95.0	4.7 +	2.4	(100.8)	112	(9.7)	11		110.6	2	30		51	
214	178	1967	24	15.0	28.2	1.2 +	0.2	(19.8)	67	(3.8)	4		23.7	2	32		77	
215	278	1900	92	15.0	106.7	3.8 +	4.4	(117.0)	138	(12.3)	14		129.3	2	57		75	
216	131	1900	44	15.0	56.2	1.7 +	0.4	(29.0)	96	(4.1)	4		33.1	2	57		75	
217	232	1832	32	9.0	10.3	0.4 +	0.2	(9.4)	24	(1.8)	2		11.2	2	98		25	
218	654	2100	85	26.3	38.7	4.3 +	2.7	(99.7)	81	(17.2)	20		116.9	2	101		24	
219	659	2400	75	26.3	33.0	4.6 +	1.5	(85.7)	44	(9.2)	10		95.0	2	101		24	
220	77	1882	49	7.5	74.9	1.1 +	0.5	(22.8)	111	(2.7)	3		25.5	2	82		91	
221	19	1700	17	1.5	91.4	0.4 +	0.1	(6.8)	95	(0.6)	1		7.4	2	96		103	
311	408	715	79	4.5	19.9	0.4 +	1.8	(32.0)	42	(5.7)	7	+	37.6					
312	699<	1925	112	26.2	270.5	11.4 +	41.1	(745.7)	203	(46.4)	66	+	792.1	3	110		28	
313	701	2085	103	26.3	160.9	10.9 +	20.4	(444.9)	162	(36.9)	44		481.8	3	110		28	
314	466	2085	69	26.3	59.3	6.6 +	1.1	(109.1)	79	(12.1)	13		121.1	3	110		28	
315	61	1837	23	26.3	53.5	0.8 +	0.1	(12.9)	76	(1.5)	2		14.4	3	110		30	
316	350	2191f	113	11.6	293.3	4.8 +	23.7	(404.9)	215	(24.2)	36	+	429.1	3	35		51	
317	310	2120	103	11.6	173.5	3.5 +	11.5	(212.2)	179	(17.8)	22		229.9	3	35		51	
318	298	2100	100	11.6	147.0	3.4 +	8.7	(172.8)	166	(15.8)	18		188.6	3	35		51	
319	298	2053	102	8.6	166.6	3.2 +	10.6	(195.8)	177	(16.9)	20		212.8	3	35		51	
321	587	2226f	55	17.3	13.1	1.5 +	0.6	(30.3)	27	(5.1)	6		35.4	3	90		26	
322	587	2100	59	17.3	11.7	1.2 +	0.7	(27.2)	23	(4.3)	5		31.4	3	90		26	
323	391	2075	40	17.3	6.0	0.3 +	0.3	(9.2)	8	(0.9)	1		10.1	3	90		26	
324	513	3100f	110	17.3	249.1	7.1 +	28.4	(504.0)	200	(32.9)	46	+	537.0	3	90		107	
326	377	2150	105	15.0	199.7	5.5 +	15.4	(297.0)	186	(22.5)	28		319.5	3	63		82	
327	405	2150	113	15.0	296.0	6.2 +	27.1	(472.8)	215	(28.0)	41	+	500.7	3	63		82	
328	158	1999	47	3.4	55.4	2.0 +	0.4	(34.6)	95	(4.8)	5		39.4	3	63		82	
411	1054<	1965	79	15.0	22.7	4.7 +	1.9	(94.4)	53	(19.6)	20		114.1	4	76		36	
412	852<	2105	60	15.0	15.4	2.9 +	0.7	(51.9)	38	(10.9)	11		62.8	4	76		36	

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
413	466	2105	33	15.0	10.9	1.2 +	0.2	(20.1)	36	(5.4)	6		25.5	4	76		36	
414	246	2000	70	4.5	59.1	2.9 +	1.2	(57.3)	106	(8.6)	9		66.0	4	18		38	
415	353	1807	46	15.0	29.0	2.4 +	0.4	(40.4)	72	(8.1)	9		48.5	4	20		70	
416	406	1915	85	15.0	65.9	4.8 +	2.6	(105.6)	110	(14.3)	15		119.9	4	41		70	
417	383	1786	45	3.8	24.9	2.2 +	0.4	(37.6)	66	(8.2)	9	+	45.8	4	77		13	
418	481	2200	46	15.0	24.3	2.8 +	0.4	(46.2)	66	(10.3)	11		56.4	4	77		13	
419	751	2200	72	15.0	31.2	5.2 +	1.3	(92.3)	80	(19.4)	21		111.7	4	77		13	
420	492	2095	49	6.0	25.2	3.0 +	0.5	(48.9)	68	(10.7)	12		59.6	4	77		13	
511	40	1854	59	7.5	116.9	0.6 +	0.7	(18.4)	140	(1.8)	2		20.3	5	95		104	
512	1147	2113	78	15.0	18.1	4.0 +	1.8	(82.0)	66	(24.3)	27		106.3	5	109		71	
513	480	1800	99	3.8	104.1	4.1 +	9.7	(197.1)	148	(22.8)	25	+	219.9	5	109		73	
514	59	1769	50	15.0	84.1	0.9 +	0.5	(19.6)	117	(2.2)	2		21.8	5	95		102	
515	827<	4010	30	6.4	13.0	2.8 +	0.2	(42.3)	75	(21.4)	24		63.7	5	109		71	
611	46	1811	34	7.5	72.8	0.7 +	0.3	(13.2)	108	(1.6)	2		14.8	6	68		76	
612	30	1800	22	7.5	69.4	0.4 +	0.1	(8.2)	104	(1.0)	1		9.2	6	68		76	
613	605	1943	39	6.4	4.7	0.5 +	0.3	(11.1)	18	(3.4)	4		14.5	6	81		56	
614	573	1965	36	6.4	4.5	0.4 +	0.3	(10.2)	18	(3.2)	3		13.4	6	81		56	
615	793<	1965	48	8.3	12.3	2.3 +	0.5	(38.5)	73	(20.0)	22	+	58.5	6	81		61	
616	29	1800	5	8.3	7.5	0.0 +	0.0	(0.9)	44	(0.4)	1		1.3	6	81		63	
811	1107<	1915	78	27.8	8.1	0.7 +	1.7	(35.3)	21	(7.9)	10		43.2	8	113		81	
812	862	2055	57	27.7	4.6	0.5 +	0.7	(15.7)	10	(2.7)	3		18.5	8	113		81	
813	116	1750	66	5.7	77.0	1.5 +	1.0	(35.2)	123	(4.6)	5		39.8	8	70		81	
814	240	1750	48	15.0	42.7	2.4 +	0.5	(40.5)	85	(6.6)	7		47.0	8	74		107	
815	244	1750	80	4.9	74.7	3.2 +	1.8	(71.9)	114	(8.9)	10		80.9	8	87		107	
816	758	1950	65	15.0	6.0	0.3 +	0.9	(17.8)	16	(3.8)	12		21.6	8	113		64	
817	849	2055	69	15.0	5.9	0.3 +	1.1	(19.9)	12	(3.2)	8		23.1	8	113		64	
-1001	555	4000	14	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-1002	938	4000	23	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.1)	0		2.3					

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	UNIFORM	RANDOM+ OVERSAT	COST OF DELAY	MEAN STOPS /PCU	COST OF STOPS	MEAN MAX. QUEUE	AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN START 1ST	END	START 2ND	END
-1003	36	4000	1	15.0	0.4	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	389	4000	10	15.0	0.5	0.0 +	0.1	(0.8)	0	(0.1)	0		0.8					
-1111	10	10000	0	3.6	27.9	0.1 +	0.0	(1.1)	66	(0.0)	0		1.1	1	61	99		
-1112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	1	110	8		
-1113	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	1	14	99		
-1114	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	1	0	99		
-1115	10	10000	0	3.6	6.5	0.0 +	0.0	(0.3)	42	(0.0)	0		0.3	1	18	78	108	114
-1116	10	10000	0	3.6	24.6	0.1 +	0.0	(1.0)	62	(0.0)	0		1.0	1	85	8		
-2001	511	4000	13	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1					
-2002	40	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	82	24		
-2112	10	10000	0	3.6	38.5	0.1 +	0.0	(1.5)	78	(0.0)	0		1.5	2	51	75		
-2113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	2	56	75		
-2115	10	10000	0	3.6	13.9	0.0 +	0.0	(0.5)	46	(0.0)	0		0.6	2	29	91		
-2116	10	10000	0	3.6	14.8	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	30	91		
-2117	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	2	99	24		
-2118	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	2	103	24		
-2119	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	2	84	91		
-3001	1039<	4000	26	3.8	0.6	0.0 +	0.2	(2.5)	1	(0.2)	0		2.7					
-3002	1447<	4000	36	15.0	0.7	0.0 +	0.3	(4.0)	1	(0.3)	0		4.3					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	31	61		
-3112	10	10000	0	3.6	3.3	0.0 +	0.0	(0.1)	21	(0.0)	0		0.1	3	110	83		
-3113	10	10000	0	3.6	38.4	0.1 +	0.0	(1.5)	78	(0.0)	0		1.5	3	64	89		
-3114	10	10000	0	3.6	4.8	0.0 +	0.0	(0.2)	26	(0.0)	0		0.2	3	87	53		
-3115	10	10000	0	3.6	10.3	0.0 +	0.0	(0.4)	55	(0.0)	0		0.4	3	116	27	62	82
-3116	10	10000	0	3.6	18.0	0.0 +	0.0	(0.7)	53	(0.0)	0		0.7	3	33	87		

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	36	56		
-3118	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	3	56	25		
-3119	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	38	58		
-4001	1257<	4000	31	15.0	0.7	0.0 +	0.2	(3.3)	1	(0.2)	0		3.5					
-4002	987<	4000	25	15.0	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.5					
-4003	534	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-4004	629	4000	16	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
-4111	10	10000	1	3.6	39.3	0.1 +	0.0	(1.6)	79	(0.0)	0		1.6	4	41	64		
-4112	10	10000	1	3.6	42.8	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	4	45	64		
-4113	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	75	(0.0)	0		1.4	4	36	64		
-4114	10	10000	0	3.6	15.9	0.0 +	0.0	(0.6)	49	(0.0)	0		0.6	4	75	13		
-4115	10	10000	0	3.6	6.3	0.0 +	0.0	(0.2)	30	(0.0)	0		0.3	4	75	36		
-4116	10	10000	1	3.6	44.6	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	4	47	64		
-5001	820<	4000	21	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		2.0					
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	527	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	5	78	88		
-6001	76	4000	2	7.5	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-6111	10	10000	0	3.6	1.7	0.0 +	0.0	(0.1)	14	(0.0)	0		0.1	6	81	61		
-6112	10	10000	2	3.6	57.8	0.2 +	0.0	(2.3)	96	(0.0)	0		2.3	6	69	74		
-6113	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	6	61	74		
-8001	285	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6					
-8111	10	10000	0	3.6	9.9	0.0 +	0.0	(0.4)	38	(0.0)	0		0.4	8	112	64		
-8112	10	10000	1	3.6	45.5	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	8	89	105		
-8113	10	10000	0	3.6	29.3	0.1 +	0.0	(1.2)	68	(0.0)	0		1.2	8	69	105		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
8028.0	671.2	12.0	198.2	305.7	(7155.4)	+	(809.1)	+	(0.0)	=	7964.5	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	531.1	+	584.5	+	369.6	=	1485.1

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	114	8	55	78	99
2	5	91	103	24	51	75
3	4	81	105	25	51	
4	3	64	13	36		
5	3	102	71	88		
6	3	74	56	61		
8	3	105	64	81		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
8028.0	671.2	12.0	198.2	305.7	(7155.4)	+	(809.1)	+	(0.0)	=	7964.5	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 635

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	114	8	55	78	99
2	5	91	103	24	51	75
3	4	81	105	25	51	
4	3	64	13	36		
5	3	102	71	88		
6	3	74	56	61		
8	3	105	64	81		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

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(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  8028.0         671.2       12.0        198.2    305.7    (7155.4) + (  809.1)  +  (   0.0)   =    7964.5      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  634
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1
 - (SECONDS)

    1       5     112       6      55      78      97
    2       5      91     103      24      51      75
    3       4      83     102      23      51
    4       3      63      14      37
    5       3     102      71      88
    6       3      74      56      61
    8       3     105      60      81

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT     OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  8028.0         642.5       12.5        194.3    281.0    (6748.9) + (  780.9)  +  (   0.0)   =    7529.8      TOTALS

NO. OF ENTRIES TO SUBPT  =   56
NO. OF LINKS RECALCULATED= 1656
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18
 - (SECONDS)

    1       5     112       6      55      78      97
    2       5      91     103      24      51      75
    3       4      83     102      23      51
    4       3      63      14      37
    5       3     102      71      88
    6       3      74      56      61
    8       3     105      60      81

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT     OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  8028.0         642.5       12.5        194.3    281.0    (6748.9) + (  780.9)  +  (   0.0)   =    7529.8      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  710
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48
 - (SECONDS)

    1       5     112       6      55      78      97
    2       5      91     103      24      51      75
    3       4      83     102      23      51
    4       3      63      14      37
    5       3     102      71      88
    6       3      74      56      61
    8       3     105      60      81

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT     OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  8028.0         642.5       12.5        194.3    281.0    (6748.9) + (  780.9)  +  (   0.0)   =    7529.8      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  746
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1
 - (SECONDS)

    1       5     114       8      57      80      99
    2       5      91     103      24      51      75
    3       4      83     102      23      51
    4       3      63      14      37
    5       3     102      71      88
    6       3      74      56      61
    8       3     105      60      81

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT     OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS        QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  8028.0         642.3       12.5        194.0    281.0    (6745.1) + (  780.3)  +  (   0.0)   =    7525.4      TOTALS

NO. OF ENTRIES TO SUBPT  =   16
NO. OF LINKS RECALCULATED=  737
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1  -1
 - (SECONDS)

    1       5     112       6      57      81      97
    2       5      91     103      25      51      75
    3       4      82     101      23      51
    4       3      64      15      37
    5       3     102      71      88
    6       3      74      56      61
    8       3     105      60      81

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+    COST        COST          FOR       PERFORMANCE
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TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)	OF STOPS ($/H)	EXCESS QUEUES ($/H)	INDEX ($/H)	
8028.0	638.7	12.6	190.6	280.8	(6694.0) + (751.9)	+ (0.0)	= 7446.0	TOTALS	

NO. OF ENTRIES TO SUBPT = 50
NO. OF LINKS RECALCULATED= 2025

.

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	114	8	59	83	99					
2	5	91	103	25	51	75					
3	4	81	100	22	50						
4	3	64	15	37							
5	3	102	71	88							
6	3	74	56	61							
8	3	105	60	81							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
111	959	1975	97	15.0	66.4	7.8 + 9.9	(251.2)	120	(37.1)	41	+	288.2	1	0	59	
112	958	2095	91	15.0	45.8	7.4 + 4.8	(173.0)	101	(31.2)	34		204.2	1	0	59	
113	11	1955	8	4.5	67.3	0.2 + 0.0	(2.9)	103	(0.4)	0		3.3	1	1	8	
114	32	1955	10	15.0	48.5	0.4 + 0.1	(6.1)	87	(0.9)	1		7.0	1	109	8	
115	23	1955	18	15.0	69.5	0.3 + 0.1	(6.3)	106	(0.8)	1		7.1	1	107	114	
116	20	1955	15	15.0	68.8	0.3 + 0.1	(5.4)	105	(0.7)	1		6.1	1	107	114	
117	15	2055	1	5.3	5.3	0.0 + 0.0	(0.3)	33	(0.2)	0		0.5	1	17	84	
118	771	2250	60	62.3	19.8	3.5 + 0.8	(60.2)	54	(13.4)	14		73.6	1	17	84	
119	555	2095	47	62.2	22.3	3.0 + 0.4	(48.9)	51	(9.1)	9		58.0	1	17	84	
120	324	2000	97	5.3	124.7	4.3 + 6.9	(159.4)	151	(15.8)	18	+	175.2	1	65	84	
121	244	1895	155	15.0	743.1	6.0 + 44.4	(715.2)	252	(19.7)	55	+	734.9	1	90	99	
122	138	1915	86	4.9	121.7	2.1 + 2.6	(66.2)	145	(6.4)	7		72.7	1	90	99	
211	916<	1932	89	62.2	35.0	5.1 + 3.8	(126.5)	88	(27.3)	31		153.8	2	108	51	
212	940<	2075	85	62.3	31.8	5.6 + 2.7	(118.0)	98	(30.3)	32		148.3	2	108	51	
213	269	1741	88	9.0	105.6	4.7 + 3.2	(112.0)	121	(10.5)	12		122.5	2	31	51	
214	178	1967	24	15.0	29.0	1.3 + 0.2	(20.3)	69	(3.9)	4		24.3	2	33	77	
215	278	1900	92	15.0	106.7	3.8 + 4.4	(117.0)	138	(12.3)	14		129.3	2	57	75	
216	131	1900	44	15.0	56.2	1.7 + 0.4	(29.0)	96	(4.1)	4		33.1	2	57	75	
217	233	1832	31	9.0	8.7	0.3 + 0.2	(8.0)	21	(1.6)	2		9.5	2	98	26	
218	658	2100	84	26.3	34.9	3.9 + 2.4	(90.5)	77	(16.3)	19		106.8	2	101	25	
219	659	2400	73	26.3	28.4	3.8 + 1.3	(73.8)	37	(7.8)	8		81.6	2	101	25	
220	77	1882	49	7.5	74.9	1.1 + 0.5	(22.8)	111	(2.7)	3		25.5	2	82	91	
221	19	1700	17	1.5	88.3	0.4 + 0.1	(6.6)	94	(0.6)	1		7.2	2	96	103	
311	400<	715	76	4.5	18.3	0.5 + 1.5	(28.9)	42	(5.7)	7	+	34.6				
312	688<	1925	105	26.2	171.1	9.9 + 22.8	(464.2)	167	(38.1)	46		502.3	3	105	25	
313	692<	2085	97	26.3	99.9	10.1 + 9.1	(272.8)	123	(28.1)	31		300.9	3	105	25	
314	461<	2085	65	26.3	59.0	6.6 + 0.9	(107.3)	82	(12.5)	13		119.8	3	105	25	
315	60	1837	24	26.3	58.2	0.8 + 0.2	(13.8)	80	(1.6)	2		15.4	3	105	27	
316	350	2169f	102	11.6	157.6	4.1 + 11.3	(217.6)	171	(19.2)	23		236.8	3	32	50	
317	310	2120	92	11.6	88.3	3.2 + 4.5	(108.0)	130	(13.0)	14		121.0	3	32	50	
318	298	2100	90	11.6	82.7	3.3 + 3.6	(97.2)	125	(11.9)	13		109.2	3	32	50	
319	298	2053	92	8.6	86.3	3.0 + 4.2	(101.4)	131	(12.5)	14		113.9	3	32	50	
321	587	2233f	58	17.3	15.7	1.9 + 0.7	(36.4)	36	(6.8)	11		43.2	3	90	23	
322	587	2100	62	17.3	14.8	1.6 + 0.8	(34.3)	30	(5.6)	7		39.9	3	90	23	
323	391	2075	42	17.3	8.9	0.6 + 0.4	(13.7)	12	(1.6)	2		15.2	3	90	23	
324	513	3484f	136	17.3	552.9	9.3 + 69.5	(999.9)	247	(40.7)	90	+	1159.5	3	90	102	
326	377	2150	100	15.0	144.1	5.2 + 9.9	(214.3)	162	(19.6)	23		233.9	3	62	82	
327	405	2150	108	15.0	226.6	5.9 + 19.6	(362.0)	196	(25.4)	33		387.5	3	62	82	
328	158	1999	45	3.4	53.7	1.9 + 0.4	(33.5)	94	(4.8)	5		38.3	3	62	82	
411	1093<	1965	81	15.0	19.8	3.9 + 2.1	(85.4)	49	(17.9)	19		103.3	4	76	37	
412	871<	2105	61	15.0	11.2	1.9 + 0.8	(38.6)	29	(8.4)	9		47.0	4	76	37	

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN (PCU-H/H)	RANDOM+ OVERSAT Q) DELAY	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START END 1ST (SECONDS)	GREEN TIMES START END 2ND (SECONDS)
413	465	2105	32	15.0	9.5	1.0 + 0.2	(17.4)	31	(4.7)	5		22.2	4	76	37	
414	251	2000	75	4.5	68.5	3.3 + 1.5	(67.9)	114	(9.3)	10		77.2	4	20	39	
415	353	1807	48	15.0	30.8	2.6 + 0.5	(42.9)	74	(8.4)	9		51.2	4	22	70	
416	406	1915	88	15.0	72.3	4.9 + 3.2	(115.7)	115	(15.0)	16		130.8	4	42	70	
417	383	1786	44	3.8	23.4	2.1 + 0.4	(35.3)	64	(7.9)	8	+	43.1	4	77	15	
418	481	2200	44	15.0	22.8	2.6 + 0.4	(43.3)	64	(9.8)	11		53.1	4	77	15	
419	751	2200	69	15.0	28.9	4.9 + 1.1	(85.7)	77	(18.7)	20		104.4	4	77	15	
420	492	2095	48	6.0	23.6	2.8 + 0.5	(45.8)	65	(10.3)	11		56.1	4	77	15	
511	40	1854	59	7.5	116.9	0.6 + 0.7	(18.4)	140	(1.8)	2		20.3	5	95	104	
512	1147	2113	78	15.0	18.1	4.0 + 1.8	(82.0)	66	(24.3)	27		106.3	5	109	71	
513	480	1800	98	3.8	98.5	4.1 + 9.0	(186.6)	144	(22.2)	25	+	208.7	5	109	73	
514	59	1769	50	15.0	84.1	0.9 + 0.5	(19.6)	117	(2.2)	2		21.8	5	95	102	
515	850<	4010	31	6.4	12.7	2.8 + 0.2	(42.7)	77	(21.9)	25		64.6	5	109	71	
611	46	1811	34	7.5	72.8	0.7 + 0.3	(13.2)	108	(1.6)	2		14.8	6	68	76	
612	30	1800	22	7.5	69.4	0.4 + 0.1	(8.2)	104	(1.0)	1		9.2	6	68	76	
613	605	1943	39	6.4	4.7	0.5 + 0.3	(11.1)	18	(3.4)	4		14.5	6	81	56	
614	573	1965	36	6.4	4.5	0.4 + 0.3	(10.2)	18	(3.2)	3		13.4	6	81	56	
615	815<	1965	49	8.3	13.8	2.6 + 0.5	(44.4)	81	(22.1)	24	+	66.4	6	81	61	
616	30	1800	5	8.3	7.9	0.0 + 0.0	(0.9)	48	(0.5)	1		1.4	6	81	63	
811	1070<	1915	75	27.8	7.7	0.8 + 1.5	(32.6)	17	(6.1)	8		38.7	8	113	81	
812	862	2055	57	27.7	4.9	0.5 + 0.7	(16.8)	11	(3.0)	3		19.8	8	113	81	
813	112	1750	48	5.7	55.6	1.3 + 0.5	(24.5)	108	(4.0)	4		28.6	8	66	81	
814	240	1750	43	15.0	38.2	2.2 + 0.4	(36.2)	81	(6.2)	7		42.4	8	70	107	
815	244	1750	80	4.9	74.7	3.2 + 1.8	(71.9)	114	(8.9)	10		80.9	8	87	107	
816	762	1950	69	15.0	7.2	0.4 + 1.1	(21.8)	17	(4.3)	11		26.0	8	113	60	
817	849	2055	73	15.0	7.3	0.4 + 1.3	(24.4)	11	(3.1)	9		27.5	8	113	60	
-1001	555	4000	14	15.0	0.5	0.0 + 0.1	(1.1)	0	(0.1)	0		1.2				
-1002	941	4000	24	15.0	0.6	0.0 + 0.2	(2.2)	0	(0.1)	0		2.3				
-1003	33	4000	1	15.0	0.4	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1				
-1004	399	4000	10	15.0	0.5	0.0 + 0.1	(0.8)	0	(0.1)	0		0.8				
-1111	10	10000	0	3.6	30.7	0.1 + 0.0	(1.2)	70	(0.0)	0		1.2	1	65	99	
-1112	10	10000	1	3.6	44.5	0.1 + 0.0	(1.8)	84	(0.0)	0		1.8	1	110	8	
-1113	10	10000	0	3.6	5.4	0.0 + 0.0	(0.2)	28	(0.0)	0		0.2	1	14	99	
-1114	10	10000	0	3.6	2.0	0.0 + 0.0	(0.1)	16	(0.0)	0		0.1	1	0	99	
-1115	10	10000	0	3.6	5.3	0.0 + 0.0	(0.2)	38	(0.0)	0		0.2	1	18	83	108 114
-1116	10	10000	0	3.6	28.6	0.1 + 0.0	(1.1)	67	(0.0)	0		1.1	1	90	8	
-2001	512	4000	13	15.0	0.5	0.0 + 0.1	(1.0)	0	(0.1)	0		1.1				
-2002	40	4000	1	15.0	0.5	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1				
-2111	10	10000	0	3.6	13.9	0.0 + 0.0	(0.5)	46	(0.0)	0		0.6	2	82	25	
-2112	10	10000	0	3.6	38.5	0.1 + 0.0	(1.5)	78	(0.0)	0		1.5	2	51	75	

-2113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	2	56	75		
-2115	10	10000	0	3.6	14.8	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	30	91		
-2116	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	2	31	91		
-2117	10	10000	0	3.6	22.7	0.1 +	0.0	(0.9)	59	(0.0)	0		0.9	2	99	25		
-2118	10	10000	0	3.6	25.2	0.1 +	0.0	(1.0)	63	(0.0)	0		1.0	2	103	25		
-2119	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	2	84	91		
-3001	990<	4000	25	3.8	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.5					
-3002	1389<	4000	35	15.0	0.7	0.0 +	0.3	(3.8)	1	(0.3)	0		4.0					
-3111	10	10000	0	3.6	32.9	0.1 +	0.0	(1.3)	72	(0.0)	0		1.3	3	28	60		
-3112	10	10000	0	3.6	2.1	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	3	105	83		
-3113	10	10000	0	3.6	36.8	0.1 +	0.0	(1.5)	76	(0.0)	0		1.5	3	63	89		
-3114	10	10000	0	3.6	5.1	0.0 +	0.0	(0.2)	27	(0.0)	0		0.2	3	87	52		
-3115	10	10000	0	3.6	9.1	0.0 +	0.0	(0.4)	50	(0.0)	0		0.4	3	111	24	61	82
-3116	10	10000	0	3.6	16.9	0.0 +	0.0	(0.7)	51	(0.0)	0		0.7	3	30	87		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	3	33	55		
-3118	10	10000	0	3.6	4.5	0.0 +	0.0	(0.2)	25	(0.0)	0		0.2	3	55	22		
-3119	10	10000	1	3.6	40.1	0.1 +	0.0	(1.6)	80	(0.0)	0		1.6	3	35	57		
-4001	1296<	4000	32	15.0	0.7	0.0 +	0.2	(3.4)	1	(0.2)	0		3.6					
-4002	1006<	4000	25	15.0	0.6	0.0 +	0.2	(2.4)	0	(0.2)	0		2.5					
-4003	533	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-4004	634	4000	16	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
-4111	10	10000	1	3.6	41.0	0.1 +	0.0	(1.6)	81	(0.0)	0		1.6	4	42	64		
-4112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	4	46	64		
-4113	10	10000	0	3.6	36.0	0.1 +	0.0	(1.4)	76	(0.0)	0		1.4	4	37	64		
-4114	10	10000	0	3.6	14.9	0.0 +	0.0	(0.6)	48	(0.0)	0		0.6	4	75	15		
-4115	10	10000	0	3.6	6.0	0.0 +	0.0	(0.2)	29	(0.0)	0		0.2	4	75	37		
-4116	10	10000	1	3.6	46.3	0.1 +	0.0	(1.8)	86	(0.0)	0		1.8	4	48	64		
-5001	842<	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.0					
-5002	29	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	528	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-5111	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	5	78	88		
-6001	77	4000	2	7.5	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-6111	10	10000	0	3.6	1.7	0.0 +	0.0	(0.1)	14	(0.0)	0		0.1	6	81	61		
-6112	10	10000	2	3.6	57.8	0.2 +	0.0	(2.3)	96	(0.0)	0		2.3	6	69	74		
-6113	10	10000	1	3.6	48.4	0.1 +	0.0	(1.9)	88	(0.0)	0		1.9	6	61	74		
-8001	281	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6					
-8111	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	8	112	60		
-8112	10	10000	1	3.6	45.5	0.1 +	0.0	(1.8)	85	(0.0)	0		1.8	8	89	105		
-8113	10	10000	0	3.6	26.5	0.1 +	0.0	(1.0)	64	(0.0)	0		1.1	8	65	105		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
8028.0	638.2	12.6	190.7	280.3	(6687.4)	+	(750.2)	+	(0.0)	=	7437.6	TOTALS
												ROUTE
423.8	40.6	10.4	11.4	20.4	(451.0)	+	(69.5)	+	(0.0)	=	520.6	1
574.0	23.8	24.1	9.9	1.9	(168.7)	+	(60.7)	+	(0.0)	=	229.4	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	531.1	+	546.6	+	342.7	=	1420.3

NO. OF ENTRIES TO SUBPT = 17
NO. OF LINKS RECALCULATED= 843

PROGRAM TRANSYT FINISHED

2020 Edge Lane SAT Peak - Proposed

PRT File
2020 SAT Peak : 13:30 - 14:30

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1                 _________________ T R A N S Y T 12 _________________

                            Traffic Network Study Tool

                        Analysis Program Release 5  (January 2007)
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                       program advice and maintenance, contact:

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                   Wokingham, Berks.       Web:    www.trlsoftware.co.uk
                   RG40 3GA,UK
 -------------------------------------------------------------------------------
 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:- "2020 SAT PEAK PROPOSED.DAT"   at 16:45   on 20100929

TRANSYT 12.0

Edge Lane - AM Peak


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  NUMBER OF NODES                    =    7
  NUMBER OF LINKS                    =  120
  NUMBER OF OPTIMISED NODES          =    7
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   60
  MAXIMUM NUMBER OF SHARED STOPLINES =    0
  MAXIMUM NUMBER OF TIMING POINTS    =    5
  MAXIMUM LINKS AT ANY NODE          =   24


  CORE REQUESTED =  21339 WORDS
  CORE AVAILABLE =  96000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- Edge Lane - AM Peak
 CARD   CARD   CYCLE  NO. OF   TIME EFFECTIVE-GREEN  EQUISAT 0=UNEQUAL FLOW   CRUISE-SPEEDS   OPTIMISE  EXTRA  HILL-   DELAY   STOP
  NO.   TYPE   TIME    STEPS  PERIOD DISPLACEMENTS  SETTINGS  CYCLE   SCALE   SCALE  CARD32   0=NONE   COPIES  CLIMB   VALUE   VALUE
                        PER   1-1200  START    END     0=NO  1=EQUAL  10-200  50-200 0=TIMES  1=O/SET   FINAL  OUTPUT  P PER   P PER
               (SEC)   CYCLE   MINS.  (SEC)   (SEC)    1=YES  CYCLE      %       %   1=SPEEDS 2=FULL   OUTPUT  1=FULL  PCU-H    100
   2)=   1     120      60      60       2       3       1       1     100     100       1       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2       1       2       3       4       5       6       8       0       0       0       0       0       0       0       0

                                NODE CARDS:  MINIMUM STAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
   4)=  10       1               7       0       6       7       4
   5)=  10       2               2       2       5       7       7
   6)=  10       3               7       5       4       5
   7)=  10       4               7       3       7
   8)=  10       5              10      10       7      10       7
   9)=  10       6               7       0       5
  10)=  10       8               7       0       7

                                NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  11)=  11       1               7      10       6       7      11
  12)=  11       2              10       5       8       6       9
  13)=  11       3               9      11      13      13
  14)=  11       4              13       7      11
  15)=  11       5               7       7       7       7       7
  16)=  11       6               7       5       8
  17)=  11       8               8      10       8

                                NODE CARDS:  STAGE CHANGE TIMES (WORKING)
 CARD   CARD   NODE   Sgl/Dbl   S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.   Cycled
  18)=  12       1       1     118      12      51      83     103
  19)=  12       2       1     102     114      35      64      86
  20)=  12       3       1      89     119      28      54
  21)=  12       4       1      65      24      47
  22)=  12       5       1       6      48      65      79     112
  23)=  12       6       1      18     115       0
  24)=  12       8       1     104      58      78

                                              LINK CARDS:   GIVEWAY DATA
                    PRIORITY LINKS   LINK1 GIVEWAY COEFFS.
 CARD   CARD   LINK    LINK1   LINK2    ONLY      A1      A2                                                  LINK    STOP     MAX   DELAY  DISPSN
 NO.    TYPE    NO.      NO.     NO.  % FLOW    X100    X100                                                LENGTH WT.X100   FLOW  WT.X100    X100
  25)=  30     311    -3001       0       0      22       0       0       0       0       0      60       0     715       0       0
  26)=  30     315      321       0       0      50       0       0       0       0       0     350       0    1000       0       0
  27)=  30     414      418       0       0      50       0       0       0       0       0      60       0    1000       0       0
  28)=  30     511      514       0       0      50       0       0       0       0       0     100       0    1000       0       0
  29)=  30     513      515       0       0      50       0       0       0       0       0      50       0    1000       0       0
  30)=  30     616      614       0       0      50       0       0       0       0       0     110       0    1000       0       0

                                              LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                  SECOND  GREEN
 CARD   CARD   LINK     EXIT         START           END           START           END        LINK    STOP     SAT   DELAY   DISPSN
  NO.   TYPE    NO.     NODE     STAGE    LAG    STAGE    LAG    STAGE    LAG    STAGE    LAG  LENGTH  WT.X100  FLOW  WT.X100    X100
  31)=  31     111        1         1       6        3       0       0       0       0       0     200       0    1975       0       0
  32)=  31     112        1         1       6        3       0       0       0       0       0     200       0    2095       0       0
```

33)=	31	113	1	1	7	2	0	0	0	0	0	60	0	1955	0	0
34)=	31	114	1	5	10	2	0	0	0	0	0	200	0	1955	0	0
35)=	31	115	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
36)=	31	116	1	5	8	1	0	0	0	0	0	200	0	1955	0	0
37)=	31	117	1	2	9	4	1	0	0	0	0	70	0	2055	0	0
38)=	31	118	1	2	9	4	1	0	0	0	0	830	0	2250	0	0
39)=	31	119	1	2	9	4	1	0	0	0	0	830	0	2095	0	0
40)=	31	120	1	3	6	4	1	0	0	0	0	70	0	2000	0	0
41)=	31	121	1	4	7	5	0	0	0	0	0	200	0	1895	0	0
42)=	31	122	1	4	7	5	0	0	0	0	0	65	0	1915	0	0
43)=	31	211	2	2	5	4	0	0	0	0	0	830	0	1932	0	0
44)=	31	212	2	2	5	4	0	0	0	0	0	830	0	2075	0	0
45)=	31	213	2	3	6	4	0	0	0	0	0	120	0	1741	0	0
46)=	31	214	2	3	8	5	2	0	0	0	0	200	0	1967	0	0
47)=	31	215	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
48)=	31	216	2	4	6	5	0	0	0	0	0	200	0	1900	0	0
49)=	31	217	2	1	7	3	1	0	0	0	0	120	0	1832	0	0
50)=	31	218	2	1	10	3	0	0	0	0	0	350	0	2100	0	0
51)=	31	219	2	1	10	3	0	0	0	0	0	350	0	2400	0	0
52)=	31	220	2	5	7	1	0	0	0	0	0	100	0	1882	0	0
53)=	31	221	2	1	5	2	0	0	0	0	0	20	0	1700	0	0
54)=	31	312	3	2	5	3	3	0	0	0	0	350	0	1925	0	0
55)=	31	313	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
56)=	31	314	3	2	5	3	3	0	0	0	0	350	0	2085	0	0
57)=	31	315	3	2	5	3	5	0	0	0	0	350	0	1837	0	0
58)=	31	316	3	3	10	4	0	0	0	0	0	155	0	1980	0	0
59)=	31	317	3	3	10	4	0	0	0	0	0	155	0	2120	0	0
60)=	31	318	3	3	10	4	0	0	0	0	0	155	0	2100	0	0
61)=	31	319	3	3	10	4	0	0	0	0	0	155	0	2053	0	0
62)=	31	321	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
63)=	31	322	3	1	9	3	1	0	0	0	0	230	0	2100	0	0
64)=	31	323	3	1	9	3	1	0	0	0	0	230	0	2075	0	0
65)=	31	324	3	1	9	2	2	0	0	0	0	230	0	2100	0	0
66)=	31	326	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
67)=	31	327	3	4	12	1	1	0	0	0	0	200	0	2150	0	0
68)=	31	328	3	4	12	1	1	0	0	0	0	45	0	1999	0	0
69)=	31	411	4	1	12	3	0	0	0	0	0	200	0	1965	0	0
70)=	31	412	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
71)=	31	413	4	1	12	3	0	0	0	0	0	200	0	2105	0	0
72)=	31	414	4	2	5	3	2	0	0	0	0	60	0	2000	0	0
73)=	31	415	4	2	7	1	6	0	0	0	0	200	0	1807	0	0
74)=	31	416	4	3	5	1	6	0	0	0	0	200	0	1915	0	0
75)=	31	417	4	1	13	2	0	0	0	0	0	50	0	1786	0	0
76)=	31	418	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
77)=	31	419	4	1	13	2	0	0	0	0	0	200	0	2200	0	0
78)=	31	420	4	1	13	2	0	0	0	0	0	80	0	2095	0	0
79)=	31	511	5	3	7	4	2	5	7	1	2	100	0	1854	0	0
80)=	31	512	5	1	7	2	0	4	7	5	0	200	0	2113	0	0
81)=	31	513	5	1	7	2	2	4	7	5	2	50	0	1800	0	0
82)=	31	514	5	3	7	4	0	5	7	1	0	200	0	1769	0	0
83)=	31	515	5	1	7	2	0	4	7	5	0	85	0	4010	0	0
84)=	31	611	6	3	7	1	2	0	0	0	0	100	0	1811	0	0
85)=	31	612	6	3	7	1	2	0	0	0	0	100	0	1800	0	0
86)=	31	613	6	1	7	2	0	0	0	0	0	85	0	1943	0	0
87)=	31	614	6	1	7	2	0	0	0	0	0	85	0	1965	0	0
88)=	31	615	6	1	7	3	0	0	0	0	0	110	0	1965	0	0
89)=	31	616	6	1	7	3	2	0	0	0	0	110	0	1800	0	0
90)=	31	811	8	1	8	3	0	0	0	0	0	370	0	1915	0	0
91)=	31	812	8	1	8	3	0	0	0	0	0	370	0	2055	0	0
92)=	31	813	8	2	6	3	0	0	0	0	0	76	0	1750	0	0
93)=	31	814	8	2	10	1	2	0	0	0	0	200	0	1750	0	0
94)=	31	815	8	3	6	1	2	0	0	0	0	65	0	1750	0	0
95)=	31	816	8	1	8	2	0	0	0	0	0	200	0	1950	0	0
96)=	31	817	8	1	8	2	0	0	0	0	0	200	0	2055	0	0
97)=	31	-1001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
98)=	31	-1002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
99)=	31	-1003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
100)=	31	-1004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
101)=	31	-1111	1	3	6	5	0	0	0	0	0	10	0	10000	0	0
102)=	31	-1112	1	5	11	2	0	0	0	0	0	10	0	10000	0	0
103)=	31	-1113	1	2	6	5	0	0	0	0	0	10	0	10000	0	0
104)=	31	-1114	1	1	6	5	0	0	0	0	0	10	0	10000	0	0
105)=	31	-1115	1	2	10	4	0	5	9	1	0	10	0	10000	0	0
106)=	31	-1116	1	4	7	2	0	0	0	0	0	10	0	10000	0	0
107)=	31	-2001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
108)=	31	-2002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
109)=	31	-2111	2	5	7	3	0	0	0	0	0	10	0	10000	0	0
110)=	31	-2112	2	4	0	5	0	0	0	0	0	10	0	10000	0	0
111)=	31	-2113	2	4	5	5	0	0	0	0	0	10	0	10000	0	0
112)=	31	-2115	2	3	5	1	0	0	0	0	0	10	0	10000	0	0
113)=	31	-2116	2	3	6	1	0	0	0	0	0	10	0	10000	0	0
114)=	31	-2117	2	1	8	3	0	0	0	0	0	10	0	10000	0	0
115)=	31	-2118	2	2	0	3	0	0	0	0	0	10	0	10000	0	0
116)=	31	-2119	2	5	9	1	0	0	0	0	0	10	0	10000	0	0
117)=	31	-3001	0	0	0	0	0	0	0	0	0	50	0	4000	0	0
118)=	31	-3002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
119)=	31	-3111	3	3	6	4	10	0	0	0	0	10	0	10000	0	0
120)=	31	-3112	3	2	5	1	2	0	0	0	0	10	0	10000	0	0
121)=	31	-3113	3	4	13	1	8	0	0	0	0	10	0	10000	0	0
122)=	31	-3114	3	1	6	4	2	0	0	0	0	10	0	10000	0	0
123)=	31	-3115	3	2	11	3	2	4	11	1	1	10	0	10000	0	0
124)=	31	-3116	3	3	8	1	6	0	0	0	0	10	0	10000	0	0
125)=	31	-3117	3	3	11	4	5	0	0	0	0	10	0	10000	0	0
126)=	31	-3118	3	4	5	3	0	0	0	0	0	10	0	10000	0	0
127)=	31	-3119	3	3	13	4	7	0	0	0	0	10	0	10000	0	0
128)=	31	-4001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
129)=	31	-4002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
130)=	31	-4003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
131)=	31	-4004	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
132)=	31	-4111	4	3	5	1	0	0	0	0	0	10	0	10000	0	0
133)=	31	-4112	4	3	9	1	0	0	0	0	0	10	0	10000	0	0
134)=	31	-4113	4	3	0	1	0	0	0	0	0	10	0	10000	0	0
135)=	31	-4114	4	1	11	2	0	0	0	0	0	10	0	10000	0	0
136)=	31	-4115	4	1	11	3	0	0	0	0	0	10	0	10000	0	0
137)=	31	-4116	4	3	11	1	0	0	0	0	0	10	0	10000	0	0
138)=	31	-5001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
139)=	31	-5002	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
140)=	31	-5003	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
141)=	31	-5111	5	2	7	3	0	0	0	0	0	10	0	10000	0	0
142)=	31	-6001	0	0	0	0	0	0	0	0	0	100	0	4000	0	0
143)=	31	-6111	6	1	7	3	0	0	0	0	0	10	0	10000	0	0
144)=	31	-6112	6	3	8	1	0	0	0	0	0	10	0	10000	0	0
145)=	31	-6113	6	2	5	1	0	0	0	0	0	10	0	10000	0	0
146)=	31	-8001	0	0	0	0	0	0	0	0	0	200	0	4000	0	0
147)=	31	-8111	8	1	7	2	0	0	0	0	0	10	0	10000	0	0
148)=	31	-8112	8	3	8	1	0	0	0	0	0	10	0	10000	0	0
149)=	31	-8113	8	2	5	1	0	0	0	0	0	10	0	10000	0	0

LINK CARDS: FLOW DATA

					ENTRY 1			ENTRY 2			ENTRY 3			ENTRY 4		
CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED	LINK NO.	FLOW	CRUISE SPEED
150)=	32	111	771	0	0	0	48	0	0	0	0	0	0	0	0	0

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151)=  32     112     771       0       0       0      48       0       0       0       0       0       0       0       0       0
152)=  32     113      11       0       0       0      48       0       0       0       0       0       0       0       0       0
153)=  32     114      14       0       0       0      48       0       0       0       0       0       0       0       0       0
154)=  32     115      10       0       0       0      48       0       0       0       0       0       0       0       0       0
155)=  32     116      10       0       0       0      48       0       0       0       0       0       0       0       0       0
156)=  32     117      10       0     816      10      48       0       0       0       0       0       0       0       0       0
157)=  32     118    1030       0     814     276      48     816     754      48       0       0       0       0       0       0
158)=  32     119     551       0     817     644      48       0       0       0       0       0       0       0       0       0
159)=  32     120     458       0     814      80      48     817     378      48       0       0       0       0       0       0
160)=  32     121     265       0       0       0      48       0       0       0       0       0       0       0       0       0
161)=  32     122      69       0       0       0      48       0       0       0       0       0       0       0       0       0
162)=  32     211     710       0     811     385      48     815     325      48       0       0       0       0       0       0
163)=  32     212     710       0     811     557      48     812     212      48       0       0       0       0       0       0
164)=  32     213     364       0     812     364      48       0       0       0       0       0       0       0       0       0
165)=  32     214     385       0       0       0      48       0       0       0       0       0       0       0       0       0
166)=  32     215     315       0       0       0      48       0       0       0       0       0       0       0       0       0
167)=  32     216     295       0       0       0      48       0       0       0       0       0       0       0       0       0
168)=  32     217     521       0     321     439      48     327      82      48       0       0       0       0       0       0
169)=  32     218     805       0     316      67      48     321      68      48     322     415      48     328     255      48
170)=  32     219     805       0     322     338      48     323     470      48       0       0       0       0       0       0
171)=  32     220      99       0       0       0      48       0       0       0       0       0       0       0       0       0
172)=  32     221      31       0     323      31      48       0       0       0       0       0       0       0       0       0
173)=  32     311     506       0     211     338      48     215     168      48       0       0       0       0       0       0
174)=  32     312     445       0     211     251      48     215     133      48     220      61      48       0       0       0
175)=  32     313     521       0     211      85      48     212     292      48     216     295      48       0       0       0
176)=  32     314     322       0     212     322      48       0       0       0       0       0       0       0       0       0
177)=  32     315      96       0     212      96      48       0       0       0       0       0       0       0       0       0
178)=  32     316     301       0     611      49      48     613     252      48       0       0       0       0       0       0
179)=  32     317     301       0     613     301      48       0       0       0       0       0       0       0       0       0
180)=  32     318     154       0     611      49      48     614     105      48       0       0       0       0       0       0
181)=  32     319     154       0     614     154      48       0       0       0       0       0       0       0       0       0
182)=  32     321     753       0     415     126      48     418     627      48       0       0       0       0       0       0
183)=  32     322     753       0     415      84      48     419     669      48       0       0       0       0       0       0
184)=  32     323     501       0     419     301      48     420     200      48       0       0       0       0       0       0
185)=  32     324     503       0     415     211      48     420     292      48       0       0       0       0       0       0
186)=  32     326     408       0       0       0      48       0       0       0       0       0       0       0       0       0
187)=  32     327     489       0       0       0      48       0       0       0       0       0       0       0       0       0
188)=  32     328     255       0       0       0      48       0       0       0       0       0       0       0       0       0
189)=  32     411     736       0     312     445      48     318     154      48     326     137      48       0       0       0
190)=  32     412     613       0     313     521      48     319      92      48       0       0       0       0       0       0
191)=  32     413     236       0     314     174      48     319      62      48       0       0       0       0       0       0
192)=  32     414     285       0     314     148      48     326     137      48       0       0       0       0       0       0
193)=  32     415     421       0       0       0      48       0       0       0       0       0       0       0       0       0
194)=  32     416     202       0       0       0      48       0       0       0       0       0       0       0       0       0
195)=  32     417     239       0       0       0      48       0       0       0       0       0       0       0       0       0
196)=  32     418     627       0       0       0      48       0       0       0       0       0       0       0       0       0
197)=  32     419     970       0       0       0      48       0       0       0       0       0       0       0       0       0
198)=  32     420     492       0       0       0      48       0       0       0       0       0       0       0       0       0
199)=  32     511      40       0       0       0      48       0       0       0       0       0       0       0       0       0
200)=  32     512     880       0       0       0      48       0       0       0       0       0       0       0       0       0
201)=  32     513     136       0       0       0      48       0       0       0       0       0       0       0       0       0
202)=  32     514      75       0       0       0      48       0       0       0       0       0       0       0       0       0
203)=  32     515     968       0     612     112      48     615     852      48       0       0       0       0       0       0
204)=  32     611      98       0       0       0      48       0       0       0       0       0       0       0       0       0
205)=  32     612     112       0       0       0      48       0       0       0       0       0       0       0       0       0
206)=  32     613     656       0     511      10      48     512     631      48     514      15      48       0       0       0
207)=  32     614     259       0     511      10      48     512     239      48     514      10      48       0       0       0
208)=  32     615     852       0     315      96      48     321     216      48     326     134      48     327     320      48
209)=  32     616     117       0     321      30      48     327      87      48       0       0       0       0       0       0
210)=  32     811     942       0     111     707      48     116      10      48     121     225      48       0       0       0
211)=  32     812     576       0     112     596      48       0       0       0       0       0       0       0       0       0
212)=  32     813     205       0     112     175      48     121      30      48       0       0       0       0       0       0
213)=  32     814     356       0       0       0      48       0       0       0       0       0       0       0       0       0
214)=  32     815     325       0       0       0      48       0       0       0       0       0       0       0       0       0
215)=  32     816    1060       0     214     231      48     218     805      48     220      24      48       0       0       0
216)=  32     817    1022       0     214     154      48     219     805      48       0       0       0       0       0       0
217)=  32   -1001     551       0     119     551      48       0       0       0       0       0       0       0       0       0
218)=  32   -1002    1113       0     114      14      48     118    1030      48     122      69      48       0       0       0
219)=  32   -1003      31       0     113      11      48     117      10      48     121      10      48       0       0       0
220)=  32   -1004     532       0     111      64      48     115      10      48     120     458      48       0       0       0
221)=  32   -1111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
222)=  32   -1112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
223)=  32   -1113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
224)=  32   -1114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
225)=  32   -1115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
226)=  32   -1116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
227)=  32   -2001     899       0     213     364      48     217     521      48     220      14      48       0       0       0
228)=  32   -2002      81       0     211      36      48     215      14      48     221      31      48       0       0       0
229)=  32   -2111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
230)=  32   -2112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
231)=  32   -2113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
232)=  32   -2115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
233)=  32   -2116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
234)=  32   -2117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
235)=  32   -2118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
236)=  32   -2119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
237)=  32   -3001    1038       0     316     234      48     317     301      48     324     503      48       0       0       0
238)=  32   -3002    1544       0     311     506      48   -3001    1038      48       0       0       0       0       0       0
239)=  32   -3111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
240)=  32   -3112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
241)=  32   -3113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
242)=  32   -3114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
243)=  32   -3115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
244)=  32   -3116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
245)=  32   -3117      10       0       0       0      10       0       0       0       0       0       0       0       0       0
246)=  32   -3118      10       0       0       0      10       0       0       0       0       0       0       0       0       0
247)=  32   -3119      10       0       0       0      10       0       0       0       0       0       0       0       0       0
248)=  32   -4001     837       0     411     736      48     416     101      48       0       0       0       0       0       0
249)=  32   -4002     680       0     412     613      48     416      67      48       0       0       0       0       0       0
250)=  32   -4003     270       0     413     236      48     416      34      48       0       0       0       0       0       0
251)=  32   -4004     524       0     414     285      48     417     239      48       0       0       0       0       0       0
252)=  32   -4111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
253)=  32   -4112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
254)=  32   -4113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
255)=  32   -4114      10       0       0       0      10       0       0       0       0       0       0       0       0       0
256)=  32   -4115      10       0       0       0      10       0       0       0       0       0       0       0       0       0
257)=  32   -4116      10       0       0       0      10       0       0       0       0       0       0       0       0       0
258)=  32   -5001     972       0     511      10      48     514      40      48     515     922      48       0       0       0
259)=  32   -5002      30       0     512      10      48     514      10      48     515      10      48       0       0       0
260)=  32   -5003     182       0     511      10      48     513     136      48     515      36      48       0       0       0
261)=  32   -5111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
262)=  32   -6001     220       0     613     103      48     616     117      48       0       0       0       0       0       0
263)=  32   -6111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
264)=  32   -6112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
265)=  32   -6113      10       0       0       0      10       0       0       0       0       0       0       0       0       0
266)=  32   -8001     501       0     813     205      48     816     296      48       0       0       0       0       0       0
267)=  32   -8111      10       0       0       0      10       0       0       0       0       0       0       0       0       0
268)=  32   -8112      10       0       0       0      10       0       0       0       0       0       0       0       0       0
269)=  32   -8113      10       0       0       0      10       0       0       0       0       0       0       0       0       0

                    LINK CARDS : FLARE SATURATION FLOW DATA
                    ..LANE  1..     ..LANE  2..     ..LANE  3..
      CARD   LINK   SAT.     CAPAC  SAT.     CAPAC  SAT.     CAPAC
```

```
       TYPE    NO.   FLOW      VEH.  FLOW      VEH.  FLOW      VEH.
270)=  33     316       0       0       0       0       0       0
271)=  33     321       0       0       0       0       0       0
272)=  33     324       0       0       0       0       0       0
```

USER-DEFINED ROUTES

```
CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

273)=  41       1    St Oswald's St - Rathbone Rd
274)=  41       2    Edge Lane Drive - Rathbone Road

CARD   CARD  ROUTE    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO    TYPE  NUMBER    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.

275)=  42       1     327     615     515    5001
276)=  42       2     418     321     615     515    5001

*****END OF SUBROUTINE TINPUT*****
```

120 SECOND CYCLE 60 STEPS

INITIAL SETTINGS
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	118	12	49	80	103					
2	5	102	114	34	62	86					
3	4	89	1	29	55						
4	3	65	24	47							
5	5	6	48	65	79	112					
6	3	18	115	0							
8	3	104	58	78							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
111	771	1975	102	15.0	121.7	8.3 +	17.8	(370.2)	154	(38.1)	43	+	408.4	1	4	49		
112	771	2095	96	15.0	73.5	7.7 +	8.0	(223.6)	122	(30.2)	33		253.8	1	4	49		
113	11	1955	8	4.5	67.3	0.2 +	0.0	(2.9)	103	(0.4)	0		3.3	1	5	12		
114	14	1955	4	15.0	47.4	0.2 +	0.0	(2.6)	85	(0.4)	0		3.0	1	113	12		
115	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	111	118		
116	10	1955	8	15.0	67.2	0.1 +	0.0	(2.7)	103	(0.3)	0		3.0	1	111	118		
117	10	2055	1	5.3	6.3	0.0 +	0.0	(0.2)	34	(0.1)	0		0.4	1	21	81		
118	994<	2250	87	62.3	39.8	7.8 +	3.2	(156.0)	84	(27.7)	30		183.7	1	21	81		
119	552	2095	52	62.3	32.6	4.5 +	0.5	(70.9)	67	(11.9)	12		82.8	1	21	81		
120	458	2000	102	5.3	142.8	5.3 +	12.9	(258.0)	166	(24.4)	28	+	282.4	1	55	81		
121	265	1895	99	15.0	150.8	3.8 +	7.3	(157.7)	164	(14.0)	16		171.6	1	87	103		
122	69	1915	25	4.9	54.7	0.9 +	0.2	(14.9)	94	(2.1)	2		17.0	1	87	103		
211	704	1932	68	62.3	18.0	2.4 +	1.1	(50.0)	50	(11.4)	13		61.4	2	119	62		
212	703	2075	64	62.3	25.8	4.2 +	0.9	(71.6)	85	(19.4)	21		91.0	2	119	62		
213	365	1741	109	9.0	254.5	5.8 +	20.0	(366.4)	200	(23.3)	33	+	389.7	2	40	62		
214	385	1967	50	15.0	32.3	3.0 +	0.5	(49.0)	76	(9.4)	10		58.4	2	42	88		
215	315	1900	105	15.0	202.1	4.6 +	13.1	(251.1)	187	(19.0)	24		270.0	2	68	86		
216	295	1900	98	15.0	138.8	4.1 +	7.3	(161.6)	158	(15.0)	17		176.5	2	68	86		
217	512	1832	71	9.0	15.7	1.0 +	1.2	(31.7)	45	(7.6)	10		39.3	2	109	35		
218	801	2100	106	26.3	173.1	7.8 +	30.8	(547.0)	177	(45.7)	58		592.8	2	112	34		
219	805	2400	94	26.3	47.7	4.7 +	6.0	(151.5)	66	(17.0)	26		168.5	2	112	34		
220	99	1882	63	7.5	83.5	1.5 +	0.8	(32.6)	118	(3.7)	4		36.3	2	93	102		
221	31	1700	27	1.5	72.6	0.4 +	0.2	(8.9)	88	(0.9)	1		9.8	2	107	114		
311	496	715	97	4.5	66.8	1.5 +	7.7	(130.8)	126	(20.4)	24	+	151.2					
312	437	1925	101	26.2	145.4	6.1 +	11.5	(250.6)	158	(22.6)	26		273.2	3	6	32		
313	517	2085	110	26.3	261.1	8.9 +	28.6	(532.5)	202	(33.8)	46		566.3	3	6	32		
314	319	2085	68	26.3	75.3	5.6 +	1.1	(94.8)	89	(9.2)	10		104.0	3	6	32		
315	96	1837	67	26.3	104.1	1.8 +	1.0	(39.4)	114	(3.5)	4		42.9	3	6	34		
316	301	1980f	107	11.6	223.7	3.4 +	15.3	(265.6)	197	(19.1)	25		284.6	3	39	55		
317	301	2120	100	11.6	143.5	3.2 +	8.8	(170.4)	162	(15.6)	19		186.0	3	39	55		
318	154	2100	52	11.6	42.3	1.3 +	0.5	(25.7)	98	(4.9)	5		30.5	3	39	55		
319	154	2053	53	11.6	47.6	1.5 +	0.6	(28.9)	93	(4.6)	5		33.5	3	39	55		
321	753	2100f	81	17.3	29.9	4.1 +	2.1	(88.8)	93	(22.5)	25		111.3	3	98	30		
322	754	2100	81	17.3	23.9	2.9 +	2.1	(71.2)	72	(17.4)	22		88.6	3	98	30		
323	500	2075	55	17.3	12.2	1.1 +	0.6	(24.1)	36	(5.8)	8		29.9	3	98	30		
324	504	2100f	111	17.3	255.6	7.1 +	28.7	(508.1)	205	(33.1)	46	+	541.3	3	98	3		
326	408	2150	95	15.0	100.3	5.4 +	6.0	(161.5)	135	(17.7)	19		179.1	3	67	90		
327	489	2150	114	15.0	297.1	7.2 +	33.2	(573.1)	216	(33.9)	50	+	607.0	3	67	90		
328	255	1999	64	3.4	56.3	3.1 +	0.9	(56.6)	99	(8.1)	9	+	64.7	3	67	90		
411	725<	1965	49	15.0	9.1	1.4 +	0.5	(26.0)	32	(7.7)	9		33.7	4	77	47		
412	561<	2105	35	15.0	7.2	0.8 +	0.3	(15.9)	23	(4.5)	5		20.4	4	77	47		

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END 1ST (SECONDS)	GREEN TIMES END 2ND (SECONDS)
413	234	2105	15	15.0	7.3	0.4 +	0.1	(6.8)	30	(2.3)	2		9.1	4	77	47		
414	284	2000	81	4.5	69.5	3.5 +	2.0	(77.8)	119	(10.9)	11	+	88.7	4	29	49		
415	421	1807	68	15.0	43.0	4.0 +	1.1	(71.4)	90	(12.1)	13		83.5	4	31	71		
416	202	1915	63	15.0	61.7	2.6 +	0.8	(49.2)	102	(6.6)	7		55.8	4	52	71		
417	239	1786	24	3.8	15.9	0.9 +	0.2	(15.0)	50	(3.8)	4		18.8	4	78	24		
418	627	2200	51	15.0	19.4	2.9 +	0.5	(47.9)	60	(12.2)	13		60.1	4	78	24		
419	970	2200	79	15.0	27.8	5.6 +	1.9	(106.4)	80	(24.8)	27		131.2	4	78	24		
420	492	2095	42	6.0	18.0	2.1 +	0.4	(34.9)	56	(8.9)	10		43.7	4	78	24		
511	40	1854	25	7.5	40.2	0.3 +	0.2	(6.3)	130	(1.7)	1		8.0	5	72	81	119	8
512	880	2113	79	15.0	20.4	3.1 +	1.9	(70.7)	84	(23.8)	18		94.5	5	13	48	86	112
513	136	1800	63	3.8	40.6	0.7 +	0.8	(21.8)	140	(6.1)	3		27.9	5	13	50	86	114
514	75	1769	32	15.0	36.2	0.5 +	0.2	(10.7)	103	(2.5)	2		13.2	5	72	79	119	6
515	926<	4010	44	6.4	4.0	0.6 +	0.4	(14.5)	27	(8.5)	8		23.0	5	13	48	86	112
611	98	1811	46	7.5	65.3	1.3 +	0.4	(25.2)	103	(3.2)	3		28.5	6	7	20		
612	112	1800	53	7.5	68.0	1.6 +	0.6	(30.1)	105	(3.8)	4		33.8	6	7	20		
613	657	1943	45	6.4	5.8	0.7 +	0.4	(15.0)	34	(7.2)	9		22.3	6	25	115		
614	259	1965	17	6.4	3.9	0.2 +	0.1	(4.0)	21	(1.7)	2		5.7	6	25	115		
615	810<	1965	52	8.3	6.4	0.9 +	0.5	(20.4)	43	(11.8)	13		32.3	6	25	0		
616	107	1800	15	8.3	5.2	0.1 +	0.1	(2.2)	15	(0.6)	1		2.8	6	25	2		
811	929<	1915	67	27.7	5.5	0.4 +	1.0	(20.2)	12	(3.5)	5		23.7	8	112	78		
812	577	2055	39	27.8	3.6	0.3 +	0.3	(8.2)	8	(1.5)	2		9.7	8	112	78		
813	204	1750	93	5.7	125.1	2.7 +	4.4	(100.7)	155	(10.2)	11		110.9	8	64	78		
814	356	1750	63	15.0	42.7	3.4 +	0.8	(60.0)	88	(10.1)	11		70.1	8	68	106		
815	325	1750	97	4.9	123.2	4.3 +	6.8	(158.0)	149	(15.6)	17	+	173.6	8	84	106		
816	1007<	1950	93	15.0	29.9	2.9 +	5.5	(118.6)	51	(17.4)	22		136.0	8	112	58		
817	1022	2055	89	15.0	22.1	2.4 +	3.8	(89.3)	65	(21.5)	29		110.8	8	112	58		
-1001	552	4000	14	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2					
-1002	1077<	4000	27	15.0	0.6	0.0 +	0.2	(2.6)	0	(0.2)	0		2.8					

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	MEAN MAX. QUEUE (PCU)	AVERAGE EXCESS QUEUE (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN START 1ST	END	START 2ND	END
-1003	31	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-1004	524	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-1111	10	10000	0	3.6	21.4	0.1 +	0.0	(0.8)	58	(0.0)	0		0.9	1	55	103		
-1112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	1	114	12		
-1113	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	1	18	103		
-1114	10	10000	0	3.6	2.0	0.0 +	0.0	(0.1)	16	(0.0)	0		0.1	1	4	103		
-1115	10	10000	0	3.6	7.0	0.0 +	0.0	(0.3)	44	(0.0)	0		0.3	1	22	80	112	118
-1116	10	10000	0	3.6	23.3	0.1 +	0.0	(0.9)	60	(0.0)	0		0.9	1	87	12		
-2001	860<	4000	21	15.0	0.6	0.0 +	0.1	(1.9)	0	(0.1)	0		2.1					
-2002	79	4000	2	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.2					
-2111	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	93	34		
-2112	10	10000	0	3.6	39.3	0.1 +	0.0	(1.5)	79	(0.0)	0		1.6	2	62	86		
-2113	10	10000	1	3.6	42.8	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	2	67	86		
-2115	10	10000	0	3.6	13.4	0.0 +	0.0	(0.5)	45	(0.0)	0		0.5	2	39	102		
-2116	10	10000	0	3.6	14.4	0.0 +	0.0	(0.6)	47	(0.0)	0		0.6	2	40	102		
-2117	10	10000	0	3.6	24.5	0.1 +	0.0	(1.0)	62	(0.0)	0		1.0	2	110	34		
-2118	10	10000	0	3.6	27.2	0.1 +	0.0	(1.1)	65	(0.0)	0		1.1	2	114	34		
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(2.2)	94	(0.0)	0		2.2	2	95	102		
-3001	974<	4000	24	3.8	0.6	0.0 +	0.2	(2.3)	0	(0.2)	0		2.4					
-3002	1469<	4000	37	15.0	0.7	0.0 +	0.3	(4.1)	1	(0.3)	0		4.4					
-3111	10	10000	0	3.6	33.7	0.1 +	0.0	(1.3)	73	(0.0)	0		1.3	3	35	65		
-3112	10	10000	0	3.6	5.4	0.0 +	0.0	(0.2)	28	(0.0)	0		0.2	3	6	91		
-3113	10	10000	0	3.6	35.2	0.1 +	0.0	(1.4)	75	(0.0)	0		1.4	3	68	97		
-3114	10	10000	0	3.6	6.0	0.0 +	0.0	(0.2)	29	(0.0)	0		0.2	3	95	57		
-3115	10	10000	0	3.6	12.9	0.0 +	0.0	(0.5)	61	(0.0)	0		0.5	3	12	31	66	90
-3116	10	10000	0	3.6	15.9	0.0 +	0.0	(0.6)	49	(0.0)	0		0.6	3	37	95		

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END	START 2ND	END
-3117	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	40	60		
-3118	10	10000	0	3.6	4.2	0.0 +	0.0	(0.2)	24	(0.0)	0		0.2	3	60	29		
-3119	10	10000	1	3.6	42.7	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	42	62		
-4001	826<	4000	21	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		2.0					
-4002	628<	4000	16	15.0	0.5	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
-4003	268	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
-4004	523	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1					
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	52	65		
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	56	65		
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	47	65		
-4114	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	4	76	24		
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	76	47		
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	58	65		
-5001	931<	4000	23	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.1)	0		2.3					
-5002	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
-5003	181	4000	5	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4					
-5111	10	10000	1	3.6	51.5	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	55	65		
-6001	210	4000	5	7.5	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4					
-6111	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	6	25	0		
-6112	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	6	8	18		
-6113	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	6	0	18		
-8001	487<	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0					
-8111	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	8	111	58		
-8112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	8	86	104		
-8113	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	8	63	104		

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
7605.0	667.8	11.4	192.9	316.4	(7232.9)	+	(838.8)	+	(0.0)	=	8071.7	TOTALS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	503.0	+	590.7	+	383.0	=	1476.7

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 120

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18
- (SECONDS)

1	5	118	12	49	80	103
2	5	102	114	34	62	86
3	4	89	1	29	55	
4	3	65	24	47		
5	5	6	48	65	79	112
6	3	18	115	0		
8	3	104	58	78		

TOTAL DISTANCE TRAVELLED (PCU-KM/H)	TOTAL TIME SPENT (PCU-H/H)	MEAN JOURNEY SPEED (KM/H)	TOTAL UNIFORM DELAY (PCU-H/H)	TOTAL RANDOM+ OVERSAT DELAY (PCU-H/H)	TOTAL COST OF DELAY ($/H)		TOTAL COST OF STOPS ($/H)		PENALTY FOR EXCESS QUEUES ($/H)		TOTAL PERFORMANCE INDEX ($/H)	
7605.0	667.8	11.4	192.9	316.4	(7232.9)	+	(838.8)	+	(0.0)	=	8071.7	TOTALS

NO. OF ENTRIES TO SUBPT = 15
NO. OF LINKS RECALCULATED= 625

.

120 SECOND CYCLE 60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 18 48
- (SECONDS)

1	5	118	12	49	80	103
2	5	102	114	34	62	86
3	4	89	1	29	55	
4	3	65	24	47		
5	5	6	48	65	79	112
6	3	18	115	0		
8	3	104	58	78		

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY	TOTAL COST OF STOPS	PENALTY FOR EXCESS QUEUES	TOTAL PERFORMANCE INDEX

```
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  7605.0         667.8       11.4        192.9    316.4    (7232.9) + (  838.8)  +  (   0.0)   =    8071.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  625
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1
 - (SECONDS)

    1       5     117      11      49      80     102
    2       5     100     112      33      62      84
    3       4      90       0      29      55
    4       3      65      24      47
    5       5       6      48      65      79     112
    6       3      18     115       0
    8       3     104      58      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT    OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS       QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  7605.0         657.9       11.6        190.9    308.5    (7092.1) + (  824.6)  +  (   0.0)   =    7916.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   52
NO. OF LINKS RECALCULATED= 1495
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18
 - (SECONDS)

    1       5     117      11      49      80     102
    2       5     100     112      33      62      84
    3       4      90       0      29      55
    4       3      65      24      47
    5       5       6      48      65      79     112
    6       3      18     115       0
    8       3     104      58      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT    OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS       QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  7605.0         657.9       11.6        190.9    308.5    (7092.1) + (  824.6)  +  (   0.0)   =    7916.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  686
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48
 - (SECONDS)

    1       5     117      11      49      80     102
    2       5     100     112      33      62      84
    3       4      90       0      29      55
    4       3      65      24      47
    5       5       6      48      65      79     112
    6       3      18     115       0
    8       3     104      58      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT    OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS       QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  7605.0         657.9       11.6        190.9    308.5    (7092.1) + (  824.6)  +  (   0.0)   =    7916.7      TOTALS

NO. OF ENTRIES TO SUBPT  =   15
NO. OF LINKS RECALCULATED=  716
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1
 - (SECONDS)

    1       5     117      11      49      80     102
    2       5     102     114      35      64      86
    3       4      89     119      28      54
    4       3      65      24      47
    5       5       6      48      65      79     112
    6       3      18     115       0
    8       3     104      58      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
TRAVELLED        SPENT      SPEED         DELAY    OVERSAT    OF          OF          EXCESS       INDEX
                                                     DELAY    DELAY       STOPS       QUEUES
(PCU-KM/H)     (PCU-H/H)    (KM/H)     (PCU-H/H)(PCU-H/H)   ($/H)       ($/H)         ($/H)        ($/H)

  7605.0         657.2       11.6        190.3    308.5    (7082.2) + (  821.0)  +  (   0.0)   =    7903.3      TOTALS

NO. OF ENTRIES TO SUBPT  =   17
NO. OF LINKS RECALCULATED=  758
.

    120 SECOND CYCLE  60 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   18  48  -1  18  48   1  -1
 - (SECONDS)

    1       5     116      10      49      81     101
    2       5     102     114      35      64      86
    3       4      89     119      28      54
    4       3      65      24      47
    5       5       6      48      65      79     112
    6       3      18     115       0
    8       3     104      58      78

  TOTAL          TOTAL       MEAN         TOTAL    TOTAL    TOTAL       TOTAL        PENALTY       TOTAL
 DISTANCE         TIME     JOURNEY       UNIFORM   RANDOM+   COST        COST          FOR       PERFORMANCE
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TRAVELLED (PCU-KM/H)	SPENT (PCU-H/H)	SPEED (KM/H)	DELAY (PCU-H/H)	OVERSAT DELAY (PCU-H/H)	OF DELAY ($/H)	OF STOPS ($/H)	EXCESS QUEUES ($/H)	INDEX ($/H)	
7605.0	655.4	11.6	188.5	308.5	(7057.1) + (810.6)	+ (0.0)	= 7867.6	TOTALS	

NO. OF ENTRIES TO SUBPT = 51
NO. OF LINKS RECALCULATED= 1888

120 SECOND CYCLE 60 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 18 48 -1 18 48 1 -1 1
- (SECONDS)

NODE NO	NUMBER OF STAGES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7	STAGE 8	STAGE 9	STAGE 10
1	5	116	10	49	81	101					
2	5	102	114	35	64	86					
3	4	89	119	28	54						
4	3	65	24	47							
5	5	6	48	65	79	112					
6	3	18	115	0							
8	3	104	58	78							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END (SECONDS)	GREEN TIMES END (SECONDS)
111	771	1975	98	15.0	81.8	7.6 + 9.9		(248.7)	129	(31.9)	35		280.5	1	2	49		
112	771	2095	92	15.0	57.6	7.3 + 5.0		(175.0)	109	(26.9)	29		202.0	1	2	49		
113	11	1955	8	4.5	67.3	0.2 + 0.0		(2.9)	103	(0.4)	0		3.3	1	3	10		
114	14	1955	4	15.0	47.4	0.2 + 0.0		(2.6)	85	(0.4)	0		3.0	1	111	10		
115	10	1955	8	15.0	67.2	0.1 + 0.0		(2.7)	103	(0.3)	0		3.0	1	109	116		
116	10	1955	8	15.0	67.2	0.1 + 0.0		(2.7)	103	(0.3)	0		3.0	1	109	116		
117	10	2055	1	5.3	5.5	0.0 + 0.0		(0.2)	31	(0.1)	0		0.3	1	19	82		
118	1006<	2250	84	62.3	34.9	7.2 + 2.5		(138.6)	79	(26.1)	28		164.7	1	19	82		
119	552	2095	49	62.3	29.7	4.1 + 0.5		(64.7)	65	(11.5)	12		76.2	1	19	82		
120	458	2000	98	5.3	109.1	5.1 + 8.7		(197.1)	147	(21.6)	24	+	218.7	1	55	82		
121	265	1895	120	15.0	395.7	4.5 + 24.6		(413.6)	234	(19.9)	34		433.5	1	88	101		
122	69	1915	31	4.9	60.2	0.9 + 0.2		(16.4)	97	(2.2)	2		18.5	1	88	101		
211	694<	1932	65	62.3	16.2	2.2 + 0.9		(44.4)	47	(10.7)	12		55.1	2	119	64		
212	690<	2075	60	62.3	24.7	4.0 + 0.8		(67.3)	83	(19.0)	20		86.3	2	119	64		
213	365	1741	105	9.0	190.6	4.9 + 14.5		(274.4)	178	(20.8)	27	+	295.1	2	41	64		
214	385	1967	51	15.0	33.2	3.0 + 0.5		(50.5)	77	(9.6)	10		60.0	2	43	88		
215	315	1900	117	15.0	354.0	5.0 + 26.0		(439.8)	227	(23.0)	37	+	462.8	2	70	86		
216	295	1900	110	15.0	265.0	4.5 + 17.2		(308.4)	208	(19.7)	27		328.0	2	70	86		
217	515	1832	70	9.0	14.4	0.9 + 1.2		(29.3)	43	(7.3)	10		36.5	2	109	36		
218	801	2100	104	26.3	139.2	7.1 + 23.9		(439.7)	162	(41.8)	51		481.5	2	112	35		
219	805	2400	91	26.3	39.9	4.2 + 4.8		(126.6)	50	(12.9)	21		139.5	2	112	35		
220	99	1882	63	7.5	83.5	1.5 + 0.8		(32.6)	118	(3.7)	4		36.3	2	93	102		
221	31	1700	27	1.5	72.6	0.4 + 0.2		(8.9)	87	(0.9)	1		9.7	2	107	114		
311	474<	715	92	4.5	42.0	1.0 + 4.5		(78.6)	99	(16.1)	20	+	94.7					
312	420<	1925	94	26.2	93.9	5.6 + 5.3		(155.6)	121	(17.3)	19		172.9	3	4	31		
313	492<	2085	101	26.3	145.5	7.3 + 12.6		(282.4)	150	(25.1)	29		307.5	3	4	31		
314	313	2085	64	26.3	74.0	5.5 + 0.9		(91.4)	87	(9.0)	9		100.4	3	4	31		
315	94	1837	70	26.3	112.2	1.8 + 1.1		(41.6)	118	(3.6)	4		45.2	3	4	33		
316	301	1980f	107	11.6	224.2	3.4 + 15.3		(266.1)	197	(19.1)	25		285.2	3	38	54		
317	301	2120	100	11.6	144.2	3.3 + 8.8		(171.2)	162	(15.6)	19		186.9	3	38	54		
318	154	2100	52	11.6	42.0	1.3 + 0.5		(25.5)	98	(4.8)	5		30.4	3	38	54		
319	154	2053	53	11.6	47.7	1.5 + 0.6		(29.0)	91	(4.5)	5		33.5	3	38	54		
321	753	2100f	83	17.3	31.7	4.3 + 2.3		(94.2)	95	(23.0)	25		117.2	3	98	29		
322	754	2100	83	17.3	25.8	3.1 + 2.3		(76.8)	75	(18.2)	23		95.0	3	98	29		
323	500	2075	56	17.3	13.1	1.2 + 0.6		(25.9)	38	(6.2)	9		32.1	3	98	29		
324	504	2100f	120	17.3	378.9	8.4 + 44.6		(753.2)	231	(37.3)	64	+	790.4	3	98	1		
326	408	2150	91	15.0	83.6	5.3 + 4.2		(134.6)	123	(16.1)	17		150.7	3	66	90		
327	489	2150	109	15.0	237.6	6.9 + 25.4		(458.4)	200	(31.3)	42	+	489.7	3	66	90		
328	255	1999	61	3.4	54.2	3.1 + 0.8		(54.5)	96	(7.9)	8	+	62.3	3	66	90		
411	712<	1965	48	15.0	8.6	1.3 + 0.5		(24.2)	30	(7.2)	8		31.4	4	77	47		
412	579<	2105	36	15.0	6.8	0.8 + 0.3		(15.4)	22	(4.3)	4		19.7	4	77	47		

120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY (U+R+O=MEAN Q) (PCU-H/H)	RANDOM+ OVERSAT	COST OF DELAY ($/H)	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)	GREEN TIMES END (SECONDS)	GREEN TIMES END (SECONDS)
413	231	2105	14	15.0	7.4	0.4 + 0.1		(6.7)	30	(2.2)	2		9.0	4	77	47		
414	281	2000	80	4.5	70.3	3.6 + 1.9		(77.9)	117	(10.7)	11	+	88.6	4	29	49		
415	421	1807	68	15.0	43.0	4.0 + 1.1		(71.4)	90	(12.1)	13		83.5	4	31	71		
416	202	1915	63	15.0	61.7	2.6 + 0.8		(49.2)	102	(6.6)	7		55.8	4	52	71		
417	239	1786	24	3.8	15.9	0.9 + 0.2		(15.0)	50	(3.8)	4		18.8	4	78	24		
418	627	2200	51	15.0	19.4	2.9 + 0.5		(47.9)	60	(12.2)	13		60.1	4	78	24		
419	970	2200	79	15.0	27.8	5.6 + 1.9		(106.4)	80	(24.8)	27		131.2	4	78	24		
420	492	2095	42	6.0	18.0	2.1 + 0.4		(34.9)	56	(8.9)	10		43.7	4	78	24		
511	40	1854	25	7.5	40.2	0.3 + 0.2		(6.3)	130	(1.7)	1		8.0	5	72	81	119	8
512	880	2113	79	15.0	20.4	3.1 + 1.9		(70.7)	84	(23.8)	18		94.5	5	13	48	86	112
513	136	1800	62	3.8	39.8	0.7 + 0.8		(21.3)	138	(6.0)	3		27.3	5	13	50	86	114
514	75	1769	32	15.0	36.2	0.5 + 0.2		(10.7)	103	(2.5)	2		13.2	5	72	79	119	6
515	937<	4010	44	6.4	4.2	0.7 + 0.4		(15.3)	30	(9.3)	8		24.7	5	13	48	86	112
611	98	1811	46	7.5	65.3	1.3 + 0.4		(25.2)	103	(3.2)	3		28.5	6	7	20		
612	112	1800	53	7.5	68.0	1.6 + 0.6		(30.1)	105	(3.8)	4		33.8	6	7	20		
613	657	1943	45	6.4	5.8	0.7 + 0.4		(15.0)	34	(7.2)	9		22.3	6	25	115		
614	259	1965	17	6.4	3.9	0.2 + 0.1		(4.0)	21	(1.7)	2		5.7	6	25	115		
615	821<	1965	52	8.3	6.4	0.9 + 0.5		(20.8)	44	(12.2)	13		33.0	6	25	0		
616	110	1800	15	8.3	5.2	0.1 + 0.1		(2.2)	16	(0.6)	1		2.8	6	25	2		
811	904<	1915	65	27.7	5.1	0.3 + 0.9		(18.2)	9	(2.8)	3		21.0	8	112	78		
812	577	2055	39	27.8	3.3	0.2 + 0.3		(7.6)	7	(1.3)	1		8.8	8	112	78		
813	199	1750	91	5.7	115.0	2.6 + 3.7		(90.3)	145	(9.5)	10		99.8	8	64	78		
814	356	1750	63	15.0	42.7	3.4 + 0.8		(60.0)	88	(10.1)	11		70.1	8	68	106		
815	325	1750	97	4.9	123.2	4.3 + 6.8		(158.0)	149	(15.6)	17	+	173.6	8	84	106		
816	1025<	1950	94	15.0	33.9	3.0 + 6.6		(137.1)	57	(19.4)	24		156.5	8	112	58		
817	1022	2055	89	15.0	22.1	2.4 + 3.8		(89.2)	65	(21.2)	28		110.5	8	112	58		
-1001	552	4000	14	15.0	0.5	0.0 + 0.1		(1.1)	0	(0.1)	0		1.2					
-1002	1089<	4000	27	15.0	0.6	0.0 + 0.2		(2.7)	1	(0.2)	0		2.8					
-1003	30	4000	1	15.0	0.4	0.0 + 0.0		(0.1)	0	(0.0)	0		0.1					
-1004	533	4000	13	15.0	0.5	0.0 + 0.1		(1.1)	0	(0.1)	0		1.2					
-1111	10	10000	0	3.6	22.7	0.1 + 0.0		(0.9)	59	(0.0)	0		0.9	1	55	101		
-1112	10	10000	1	3.6	44.5	0.1 + 0.0		(1.8)	84	(0.0)	0		1.8	1	112	10		
-1113	10	10000	0	3.6	5.4	0.0 + 0.0		(0.2)	28	(0.0)	0		0.2	1	16	101		
-1114	10	10000	0	3.6	2.0	0.0 + 0.0		(0.1)	16	(0.0)	0		0.1	1	2	101		
-1115	10	10000	0	3.6	6.2	0.0 + 0.0		(0.2)	41	(0.0)	0		0.3	1	20	81	110	116
-1116	10	10000	0	3.6	25.9	0.1 + 0.0		(1.0)	64	(0.0)	0		1.0	1	88	10		
-2001	877<	4000	22	15.0	0.6	0.0 + 0.1		(2.0)	0	(0.1)	0		2.1					
-2002	78	4000	2	15.0	0.5	0.0 + 0.0		(0.1)	0	(0.0)	0		0.1					
-2111	10	10000	0	3.6	13.9	0.0 + 0.0		(0.5)	46	(0.0)	0		0.6	2	93	35		
-2112	10	10000	1	3.6	41.0	0.1 + 0.0		(1.6)	81	(0.0)	0		1.6	2	64	86		

-2113	10	10000	1	3.6	44.6	0.1 +	0.0	(	1.8)	84	(	0.0)	0		1.8	2	69	86			
-2115	10	10000	0	3.6	14.4	0.0 +	0.0	(	0.6)	47	(	0.0)	0		0.6	2	40	102			
-2116	10	10000	0	3.6	14.4	0.0 +	0.0	(	0.6)	47	(	0.0)	0		0.6	2	41	102			
-2117	10	10000	0	3.6	23.9	0.1 +	0.0	(	0.9)	61	(	0.0)	0		1.0	2	110	35			
-2118	10	10000	0	3.6	26.5	0.1 +	0.0	(	1.0)	64	(	0.0)	0		1.1	2	114	35			
-2119	10	10000	2	3.6	55.0	0.1 +	0.0	(	2.2)	94	(	0.0)	0		2.2	2	95	102			
-3001	939<	4000	23	3.8	0.6	0.0 +	0.2	(	2.2)	0	(	0.1)	0		2.3						
-3002	1413<	4000	35	15.0	0.7	0.0 +	0.3	(	3.9)	1	(	0.3)	0		4.1						
-3111	10	10000	0	3.6	34.4	0.1 +	0.0	(	1.4)	74	(	0.0)	0		1.4	3	34	64			
-3112	10	10000	0	3.6	4.8	0.0 +	0.0	(	0.2)	26	(	0.0)	0		0.2	3	4	91			
-3113	10	10000	0	3.6	33.7	0.1 +	0.0	(	1.3)	73	(	0.0)	0		1.3	3	67	97			
-3114	10	10000	0	3.6	6.3	0.0 +	0.0	(	0.2)	30	(	0.0)	0		0.3	3	95	56			
-3115	10	10000	0	3.6	11.9	0.0 +	0.0	(	0.5)	59	(	0.0)	0		0.5	3	10	30	65	90	
-3116	10	10000	0	3.6	15.9	0.0 +	0.0	(	0.6)	49	(	0.0)	0		0.6	3	36	95			

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120 SECOND CYCLE 60 STEPS

LINK NUMBER	FLOW INTO LINK	SAT FLOW	DEGREE OF SAT	MEAN TIMES PER PCU CRUISE	DELAY	DELAY (U+R+O=MEAN Q)	UNIFORM + RANDOM+ OVERSAT	COST OF DELAY	MEAN STOPS /PCU	COST OF STOPS	MEAN MAX. QUEUE	AVERAGE EXCESS	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES	EXIT NODE	GREEN TIMES START 1ST END	START 2ND END
	(PCU/H)	(PCU/H)	(%)	(SEC)	(SEC)	(PCU-H/H)		($/H)	(%)	($/H)	(PCU)	(PCU)	($/H)		(SECONDS)	
-3117	10	10000	1	3.6	41.9	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	39	59
-3118	10	10000	0	3.6	4.0	0.0 +	0.0	(0.2)	23	(0.0)	0		0.2	3	59	28
-3119	10	10000	1	3.6	41.9	0.1 +	0.0	(1.7)	82	(0.0)	0		1.7	3	41	61
-4001	813<	4000	20	15.0	0.6	0.0 +	0.1	(1.8)	0	(0.1)	0		1.9			
-4002	646<	4000	16	15.0	0.5	0.0 +	0.1	(1.4)	0	(0.1)	0		1.5			
-4003	265	4000	7	15.0	0.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
-4004	520	4000	13	15.0	0.5	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1			
-4111	10	10000	1	3.6	49.3	0.1 +	0.0	(1.9)	89	(0.0)	0		2.0	4	52	65
-4112	10	10000	1	3.6	53.5	0.1 +	0.0	(2.1)	93	(0.0)	0		2.1	4	56	65
-4113	10	10000	1	3.6	43.6	0.1 +	0.0	(1.7)	83	(0.0)	0		1.7	4	47	65
-4114	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	4	76	24
-4115	10	10000	0	3.6	3.7	0.0 +	0.0	(0.1)	23	(0.0)	0		0.2	4	76	47
-4116	10	10000	2	3.6	55.9	0.1 +	0.0	(2.2)	95	(0.0)	0		2.2	4	58	65
-5001	942<	4000	24	15.0	0.6	0.0 +	0.2	(2.2)	0	(0.1)	0		2.3			
-5002	30	4000	1	15.0	0.5	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
-5003	182	4000	5	15.0	0.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4			
-5111	10	10000	1	3.6	51.5	0.1 +	0.0	(2.0)	91	(0.0)	0		2.0	5	55	65
-6001	214	4000	5	7.5	0.5	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4			
-6111	10	10000	0	3.6	2.6	0.0 +	0.0	(0.1)	18	(0.0)	0		0.1	6	25	0
-6112	10	10000	1	3.6	52.4	0.1 +	0.0	(2.1)	92	(0.0)	0		2.1	6	8	18
-6113	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	6	0	18
-8001	486<	4000	12	15.0	0.5	0.0 +	0.1	(1.0)	0	(0.1)	0		1.0			
-8111	10	10000	0	3.6	11.6	0.0 +	0.0	(0.5)	42	(0.0)	0		0.5	8	111	58
-8112	10	10000	1	3.6	44.5	0.1 +	0.0	(1.8)	84	(0.0)	0		1.8	8	86	104
-8113	10	10000	0	3.6	25.9	0.1 +	0.0	(1.0)	64	(0.0)	0		1.0	8	63	104

*** f - average saturation flow for flared link ***

TOTAL DISTANCE TRAVELLED	TOTAL TIME SPENT	MEAN JOURNEY SPEED	TOTAL UNIFORM DELAY	TOTAL RANDOM+ OVERSAT DELAY	TOTAL COST OF DELAY		TOTAL COST OF STOPS		PENALTY FOR EXCESS QUEUES		TOTAL PERFORMANCE INDEX		
(PCU-KM/H)	(PCU-H/H)	(KM/H)	(PCU-H/H)	(PCU-H/H)	($/H)		($/H)		($/H)		($/H)		
7605.0	655.4	11.6	188.5	308.5	(7057.1)	+ (	810.6)	+ (	0.0)	=	7867.6	TOTALS	
												ROUTE	
468.2	44.7	10.5	8.5	26.5	(496.7)	+ (	53.0)	+ (	0.0)	=	549.7	1	
669.0	26.6	25.1	8.8	4.0	(180.4)	+ (	56.8)	+ (	0.0)	=	237.2	2	

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	503.0	+	576.4	+	370.2	=	1449.6

NO. OF ENTRIES TO SUBPT = 16
NO. OF LINKS RECALCULATED= 830

PROGRAM TRANSYT FINISHED