WEST HENDON

TRANSPORT ASSESSMENT ANNEX: TRANSYT OUTPUT FILES

March 2013

Halcrow

Base TRANSYT Model Outputs

As reported in Transport Assessment Appendix R

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
 THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS
 IN NO WAY RELIEVED OF THEIR RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION
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Run with file:- "WEST HENDON A5_BASE_AM_V3.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
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  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  14028 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
88)=	32	1010	814	0	4010	727	15	4021	87	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1006	0	3430	622	19	3443	384	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1017	0	4110	672	23	4121	345	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1319	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	986	0	2011	952	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	662	0	2030	643	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	672	0	1010	672	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	142	0	1010	142	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	622	0	4130	622	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	383	0	5010	383	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	384	0	5010	384	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	525	0	3411	142	18	3442	383	10	0	0	0	0	0	0
117)=	32	4010	727	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	154	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	479	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	87	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	211	0	1030	211	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	819	0	1030	775	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1376	0	4020	479	18	4030	78	18	4031	819	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	287	0	4012	154	18	4030	133	18	0	0	0	0	0	0
128)=	32	4110	672	0	7010	672	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	229	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	345	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	662	0	3010	662	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	269	0	4120	229	18	4130	40	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	767	0	6010	94	3	6020	673	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	94	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	731	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	673	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

```
147)=  32    6099     731       0    6011     731      18       0       0       0       0       0       0       0       0       0
148)=  32    7010     672       0    3410     672       8       0       0       0       0       0       0       0       0       0
149)=  32    7011      50       0    3412      22    3200    3440      28    3200       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.
150)=  33    4110   2040       4       0       0       0       0
151)=  33    4130   1696       3       0       0       0       0

                                                GRAPH  PLOT  CARDS
CARD   CARD   LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO.   TYPE    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.
152)=  35    4031       0       0       0       0       0       0       0       0       0       0       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
153)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
159)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
160)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
161)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

                                                USER-DEFINED ROUTES

CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

162)=  41       1    Southbound
163)=  41       2    Northbound

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.

164)=  42       1    2030    3010    4130    3430    1030    4031    4097
165)=  42       2    4010    1010    3410    7010    4110    2011    2098

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

     75 SECOND CYCLE  75 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

   34       3      12      50      67
   40       2      26      67
   41       3       0      36      42

 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)

 1010     814   2055     40  15.0   1.4    0.0 +  0.3  (  4.7)     2  (  0.2)      0  ( 0.0)*       4.9
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1030    1007   2055     49  19.0   1.7    0.0 +  0.5  (  6.8)     2  (  0.3)      0  ( 0.0)*       7.1
 1031BL    22   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1040      44    715      9  20.0   4.0    0.0 +  0.0  (  0.7)     0  (  0.0)      0                0.7
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      65   1000     21   3.0   7.2    0.0 +  0.1  (  1.8)     0  (  0.0)      0  ( 0.0)*       1.8
 2011    1017   2115S    50  21.3   1.9    0.1 +  0.5  (  7.7)    12  (  2.6)      7  ( 0.0)*      10.3
 2012BL    50   2011L    50  29.3   2.1    0.0 +  0.0  (  0.4)    21  (  0.1)      7  ( 0.0)*       0.6
 2030    1319   3786S    36  18.0   0.7    0.0 +  0.3  (  3.9)     1  (  0.3)      0                4.2
 2031BL    50   2030L    36  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.2
 2040      34    600     30  18.0  24.5    0.0 +  0.2  (  3.3)    84  (  0.6)      0                3.9
 2041      19    715      5  18.0   4.6    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 2097BL    50   2098L    13  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098     986   8000S    13  18.0   0.3    0.0 +  0.1  (  1.0)     0  (  0.1)      0                1.1
 2099     740   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.1)      0                0.8
 3010     663   2075     32  17.0   1.3    0.0 +  0.2  (  3.3)     2  (  0.2)      0                3.6
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 3410     672   1910     85   6.0  49.5    6.5 +  2.7  (131.2)   116  ( 13.3)     16     +        144.5     34     20  50
 3411     142   1993S    20   6.0  27.9    1.0 +  0.1  ( 15.6)    96  (  2.3)      3               17.9     34     20  50
 3412BL    22   3411L    20  36.0  17.7    0.1 +  0.0  (  1.5)    79  (  0.0)      3                1.5     34     20  50
 3430     623   1972     72  11.0   9.1    0.3 +  1.3  ( 22.3)    55  (  6.5)     12               28.8     34     18  50
 3431BL    22   1915      3  12.9   2.4    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*       0.2     34     18  50
 3440BL    28   1665     14   9.0  40.0    0.2 +  0.1  (  4.4)   101  (  0.4)      1                4.8     34      4  12
 3442     384   1787     62   7.0  27.9    2.2 +  0.8  ( 42.3)    90  (  8.0)      7               50.3     34     62  12
 3443     384   1577     70   7.0  32.0    2.3 +  1.2  ( 48.5)    96  (  8.7)      8               57.1     34     62  12
 3450      50  10000      4  10.0  30.0    0.4 +  0.0  (  5.9)    88  (  0.0)      1                5.9     34     58  67
 3451      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     34     20  50
 3499     525   8000      7  12.2   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0                0.5
 4010     727   1949     76  18.0  22.9    3.1 +  1.5  ( 65.8)    86  ( 13.3)     14               79.1     40     31  67
 4011BL    22   4012L    21  22.5  13.4    0.1 +  0.0  (  1.2)    57  (  0.2)      2                1.3     40     31  67
 4012     154   1707S    21  18.0  13.4    0.5 +  0.1  (  8.2)    57  (  1.9)      2               10.0     40     31  67
 4020     479   1754     71  20.0  28.3    2.6 +  1.2  ( 53.5)    93  (  7.6)     10               61.1     40     73  26
 4021      87   1641     14  18.0  18.2    0.4 +  0.1  (  6.2)    66  (  1.2)      1                7.5     40     73  26
 4030     211   1774     79   5.0  50.5    1.2 +  1.8  ( 42.0)   130  (  3.9)      6               46.0     40     31  71
 4031     819   1907S    89   4.9  28.0    2.6 +  3.8  ( 90.4)    80  (  9.4)     16     +         99.8     40     31  67
 4032BL    22   4031L    89  39.8  39.1    0.1 +  0.1  (  3.4)   111  (  0.0)     16  ( 1.9)*     193.6     40     31  67
 4097    1376   8000S    17  18.0   0.3    0.0 +  0.1  (  1.5)     0  (  0.1)      0                1.6
 4098BL    22   4097L    17  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 4099     287   8000      4  18.0   0.2    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 4110     672   2383f    68   7.0  34.2    5.3 +  1.1  ( 90.8)    81  (  6.0)     11     +         96.7     41     12  42
 4111BL    50   2040      7  26.4  21.9    0.3 +  0.0  (  4.3)    60  (  0.0)      1                4.3     41     16  42
 4120     229   1959     38  20.0  25.3    1.3 +  0.3  ( 22.8)    82  (  3.2)      4               26.0     41     53   0
 4121     345   1773     63  18.0  31.4    2.1 +  0.9  ( 42.7)    94  (  6.9)      7               49.6     41     53   0
 4130     663   2488f    80   5.0  31.5    3.9 +  1.9  ( 82.4)    98  (  9.3)     14     +         91.7     41     12  36
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    50   1696     12  31.8  26.3    0.3 +  0.1  (  5.2)    82  (  0.0)      1                5.2     41     18  36
 4150      50  10000      2  10.0  19.0    0.3 +  0.0  (  3.7)    70  (  0.0)      1                3.7     41     53   0
 4151      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     41     12  42
 4198BL    28   4199L     4  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
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 4199     269   8000S     4  18.0   0.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.3
 5010     767   3929S    20   3.0   0.6    0.0 +  0.1  (  1.7)      1  (  0.1)       0                1.9
 5011BL    28   5010L    20   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010      94    715     17  18.0   3.9    0.0 +  0.1  (  1.4)      0  (  0.0)       0                1.4
 6011     731   1618S    47  18.0   2.1    0.0 +  0.4  (  6.0)      3  (  0.4)       0                6.5
 6012BL    28   6011L    47  22.5   2.1    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.2
 6020     673   1800S    39  18.0   1.6    0.0 +  0.3  (  4.3)      2  (  0.3)       0                4.7
 6021BL    28   6020L    39  22.5   1.6    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L     9  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     731   8000S     9  18.0   0.2    0.0 +  0.1  (  0.7)      0  (  0.1)       0                0.8
 7010     672   2055     33   8.0   1.3    0.0 +  0.2  (  3.5)      2  (  0.2)       0                3.6
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     10  10.0  55.0    0.1 +  0.1  (  2.2)    120  (  0.0)       0                2.2     41     39  42
                 *** f - average saturation flow for flared link ***

  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)

  3108.7         142.5       21.8         37.3     23.0    ( 856.2) + (  108.1)  +  ( 190.2)   =    1154.5      TOTALS
    96.7           5.9       16.3          1.1      0.4    (  21.9) + (    0.9)  +  ( 190.2)   =     213.0      BUSES
  3011.9         136.6       22.0         36.2     22.6    ( 834.2) + (  107.2)  +  (   0.0)   =     941.5      OTHER
-----------------------------------------------------------------------------------------------------------------------
                                                                                                                ROUTE
   970.7          40.7       23.9          6.7      8.1    ( 210.6) + (   26.2)  +  (   0.0)   =     236.8        1
   842.6          43.3       19.4         15.0      6.5    ( 304.5) + (   35.7)  +  (   0.0)   =     340.2        2


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

FUEL CONSUMPTION PREDICTIONS       176.7         +      69.6         +      49.5         =     295.8

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62

CYCLIC FLOW PROFILE GRAPHS

.
LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.44
     I
     I
     I
     I
 2000+
     I                                       ^^^^^^^^ ^^^^^^
     I                                ^^  ^^^^^^^^^^^^^^^^^^^
     I                                ^^^ ^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^
 1500+                                ^^^^^^^^^^^^^^^^^^^^^^^   @@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@
     I                   111111       ^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@
 1000+                 111111111      ^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@
     I              1111111111111     ^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@1
     I             111111111111111    ^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I            1111111111111111111 ^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@111
     I            11111111111111111111^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@1111
  500+1          111111111111111111111@@^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11        1111111111111111111111@@@@^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11111    11111111111111111111111@@@@@@@@^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
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     +=========#=========#=========#=.........1.........1.........1........=#=====
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PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_BASE_PM_V3.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13827 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
87)=	32	1010	859	0	4010	799	15	4021	60	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	875	0	3430	606	19	3443	269	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	151	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1025	0	4110	673	23	4121	352	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1045	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1014	0	2011	959	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	658	0	2030	627	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	673	0	1010	673	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	186	0	1010	186	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	606	0	4130	606	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	401	0	5010	401	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	269	0	5010	269	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	587	0	3411	186	18	3442	401	18	0	0	0	0	0	0
116)=	32	4010	799	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	378	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	219	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	60	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	236	0	1030	236	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	780	0	1030	629	5	1040	151	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1009	0	4020	219	18	4030	10	18	4031	780	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	604	0	4012	378	18	4030	226	18	0	0	0	0	0	0
127)=	32	4110	673	0	7010	673	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	217	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	352	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	658	0	3010	658	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	269	0	4120	217	18	4130	52	18	0	0	0	0	0	0
137)=	32	5010	670	0	6010	126	3	6020	544	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	126	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	620	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	544	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	620	0	6011	620	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	673	0	3410	673	8	0	0	0	0	0	0	0	0	0

147)=	32	7011	53	0	3412	25	3200	3440	28	3200	0	0	0	0	0	0

LINK CARDS : FLARE SATURATION FLOW DATA

	CARD TYPE	LINK NO.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.
			..LANE 1..		..LANE 2..		..LANE 3..	
148)=	33	4110	2040	4	0	0	0	0
149)=	33	4130	1696	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
150)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
151)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
152)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
153)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

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

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75 SECOND CYCLE 75 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
34	3	40	5	21							
40	2	45	22								
41	2	0	40								

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND
1010	859	2055	42	15.0	1.5	0.0 +	0.4	(5.1)	2	(0.2)	0	(0.0)*	5.3			
1011BL	25	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	875	2055	43	19.0	1.5	0.0 +	0.4	(5.3)	2	(0.3)	0	(0.0)*	5.5			
1031BL	25	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	151	715	29	20.0	4.8	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	66	1000	15	3.0	4.6	0.0 +	0.1	(1.2)	0	(0.0)	0	(0.0)*	1.2			
2011	1025	2115S	51	21.3	2.3	0.2 +	0.5	(9.4)	25	(5.6)	12	(0.0)*	15.1			
2012BL	53	2011L	51	29.3	3.0	0.0 +	0.0	(0.6)	51	(0.4)	12	(0.0)*	1.0			
2030	1045	3786S	29	18.0	0.7	0.0 +	0.2	(2.8)	1	(0.2)	0		3.0			
2031BL	53	2030L	29	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	55	600	33	18.0	20.3	0.1 +	0.2	(4.4)	54	(0.6)	1		5.0			
2041	31	715	7	18.0	4.1	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
2097BL	53	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1015	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	484	8000	6	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
3010	658	2075	32	17.0	1.3	0.0 +	0.2	(3.3)	2	(0.2)	0		3.5			
3011BL	53	1945	3	20.8	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	673	1910	80	6.0	43.9	6.2 +	2.0	(116.5)	111	(12.7)	16	+	129.2	34	48	5
3411	186	1993S	24	6.0	27.2	1.3 +	0.1	(20.0)	97	(3.1)	4		23.0	34	48	5
3412BL	25	3411L	24	35.0	20.3	0.1 +	0.0	(2.0)	82	(0.0)	4		2.0	34	48	5
3430	605	1972	66	11.0	30.0	4.1 +	1.0	(71.6)	107	(12.4)	14		84.0	34	46	5
3431BL	25	1915	3	12.9	14.8	0.1 +	0.0	(1.5)	92	(0.3)	0	(0.0)*	1.8	34	46	5
3440BL	28	1665	16	9.0	42.5	0.2 +	0.1	(4.7)	104	(0.4)	1		5.1	34	33	40
3442	401	1787	70	7.0	32.7	2.5 +	1.2	(51.7)	97	(9.1)	8		60.9	34	17	40
3443	269	1577	53	19.0	28.6	1.6 +	0.6	(30.3)	91	(0.8)	5		31.1	34	17	40
3450	50	10000	4	10.0	31.0	0.4 +	0.0	(6.1)	90	(0.0)	1		6.1	34	13	21
3451	50	10000	1	10.0	12.5	0.2 +	0.0	(2.5)	56	(0.0)	1		2.5	34	48	5
3499	586	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4010	799	1949	81	18.0	24.8	3.4 +	2.1	(78.2)	91	(15.4)	16		93.6	40	60	22
4011BL	25	4012L	37	22.5	9.0	0.0 +	0.0	(0.9)	47	(0.2)	4		1.1	40	50	22
4012	378	1707S	37	18.0	9.0	0.7 +	0.3	(13.4)	47	(3.8)	4		17.2	40	50	22
4020	219	1754	52	20.0	33.6	1.5 +	0.5	(29.0)	96	(3.6)	4		32.6	40	28	45
4021	60	1641	15	18.0	27.9	0.4 +	0.1	(6.6)	83	(1.1)	1		7.7	40	28	45
4030	236	1774	64	5.0	27.3	0.9 +	0.9	(25.4)	109	(3.7)	4		29.1	40	50	23
4031	779	1907S	66	4.8	8.1	0.8 +	0.9	(24.8)	38	(4.3)	7		29.1	40	50	22
4032BL	25	4031L	66	23.8	7.3	0.0 +	0.0	(0.7)	21	(0.0)	7	(0.0)*	0.7	40	50	22
4097	1008	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
4098BL	25	4097L	13	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	604	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4110	673	2415f	72	8.0	24.0	3.2 +	1.3	(63.7)	109	(6.4)	15	+	70.1	41	12	40
4111BL	53	2040	8	31.4	18.4	0.2 +	0.0	(3.8)	84	(0.0)	1		3.9	41	16	40
4120	217	1959	33	20.0	22.9	1.1 +	0.2	(19.6)	78	(2.9)	4		22.5	41	51	0
4121	352	1773	60	18.0	28.3	2.0 +	0.7	(39.3)	90	(6.7)	7		46.0	41	51	0
4130	658	2428f	70	5.0	23.9	3.2 +	1.2	(62.1)	85	(7.9)	12	+	70.0	41	12	40

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75 SECOND CYCLE 75 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND
4131BL	53	1696	10	31.8	22.5	0.3 +	0.1	(4.7)	76	(0.0)	1		4.7	41	18	40
4150	50	10000	2	10.0	17.5	0.2 +	0.0	(3.5)	67	(0.0)	1		3.5	41	51	0
4151	50	10000	1	10.0	14.9	0.2 +	0.0	(2.9)	62	(0.0)	1		2.9	41	12	40
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	270	8000S	4	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.3			
5010	670	3929S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6010	126	715	21	18.0	3.9	0.0 +	0.1	(1.9)	0	(0.0)	0		1.9			
6011	620	1618S	40	18.0	1.9	0.0 +	0.3	(4.5)	2	(0.3)	0		4.9			
6012BL	28	6011L	40	22.5	1.9	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6020	544	1800S	32	18.0	1.5	0.0 +	0.2	(3.1)	2	(0.2)	0		3.4			
6021BL	28	6020L	32	22.5	1.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	8	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	620	8000S	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
7010	673	2055	33	8.0	1.3	0.0 +	0.2	(3.5)	2	(0.2)	0		3.6			
7011BL	53	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			

*** 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)	
2955.8	132.4	22.3	35.2	17.0	(741.2) +	(103.5) +	(0.0) =	844.8	TOTALS

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   102.6          6.0       17.0          1.0      0.4    (  20.2) + (    1.4)  +  (   0.0)   =      21.7      BUSES
  2853.2        126.4       22.6         34.2     16.6    ( 721.0) + (  102.1)  +  (   0.0)   =     823.1      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                 ROUTE

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

FUEL CONSUMPTION PREDICTIONS       169.1         +      60.1         +      47.4         =     276.6

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

PROGRAM TRANSYT FINISHED
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PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
 THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS
 IN NO WAY RELIEVED OF THEIR RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION
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Run with file:- "WEST HENDON A5_BASE_SAT V2.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


  PARAMETERS CONTROLLING DIMENSIONS OF PROBLEM :
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  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13521 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34               7       1       5
  19)=  10      40               7       7
  20)=  10      41              12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34               8      12      12
  22)=  11      40               5       6
  23)=  11      41              12       0      11

                                 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
  24)=  12      34       1      12      45      58
  25)=  12      40       1      26       4
  26)=  12      41       1       0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	873	0	4010	803	15	4021	70	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	897	0	3430	566	19	3443	331	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1027	0	4110	623	23	4121	295	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1108	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	997	0	2011	972	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	595	0	2030	578	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	732	0	1010	732	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	141	0	1010	141	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	566	0	4130	368	11	4132	198	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	312	0	5010	312	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	331	0	5010	331	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	453	0	3411	141	18	3442	312	10	0	0	0	0	0	0
120)=	32	4010	803	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	186	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	235	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	70	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	148	0	1030	148	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	848	0	1030	739	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1083	0	4020	235	18	4031	848	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	334	0	4012	186	18	4030	148	18	0	0	0	0	0	0
131)=	32	4110	623	0	7010	623	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	181	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	295	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	368	0	3010	368	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	227	0	3010	227	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	210	0	4120	181	18	4132	29	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	643	0	6010	194	3	6020	449	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	194	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	552	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	449	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	552	0	6011	552	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	732	0	3410	732	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
1010	873	2055	42	15.0	1.5	0.0 +	0.4	(5.2)	2	(0.3)	0	(0.0)*	5.5			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	897	2055	44	19.0	1.6	0.0 +	0.4	(5.5)	2	(0.3)	0	(0.0)*	5.8			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	21	20.0	4.4	0.0 +	0.1	(1.9)	0	(0.0)	0		1.9			
1099	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	55	1000	13	3.0	5.0	0.0 +	0.1	(1.1)	0	(0.0)	0	(0.0)*	1.1			
2011	1026	2115S	51	21.6	1.7	0.0 +	0.5	(7.0)	3	(0.6)	1		7.6			
2012BL	50	2011L	51	68.5	1.7	0.0 +	0.0	(0.3)	3	(0.0)	1	(0.0)*	0.4			
2030	1108	3786S	31	18.0	0.7	0.0 +	0.2	(3.0)	1	(0.2)	0		3.2			
2031BL	50	2030L	31	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	33	600	23	18.0	17.0	0.0 +	0.2	(2.2)	33	(0.2)	0		2.4			
2041	17	715	4	18.0	4.1	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	996	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	585	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	595	2075	29	17.0	1.2	0.0 +	0.2	(2.9)	2	(0.2)	0		3.1			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	732	1910	97	6.0	72.5	5.5 +	9.3	(209.3)	158	(19.7)	23	+	229.0	34	20	45
3411	141	1993S	21	6.0	20.7	0.7 +	0.1	(11.5)	89	(2.2)	3		13.7	34	20	45
3412BL	22	3411L	21	36.0	13.6	0.1 +	0.0	(1.2)	67	(0.0)	3		1.2	34	20	45
3430	566	1972	68	11.0	8.4	0.3 +	1.0	(18.7)	57	(6.2)	10		24.9	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	313	1787	52	7.0	24.1	1.5 +	0.5	(29.7)	86	(6.3)	5		36.0	34	57	12
3443	331	1577	63	7.0	27.7	1.7 +	0.8	(36.1)	93	(7.2)	6		43.4	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	454	8000	6	12.5	0.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5			
4010	803	1949	68	18.0	13.4	1.9 +	1.1	(42.6)	69	(11.7)	11		54.3	40	31	4
4011BL	22	4012L	20	22.5	8.0	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	186	1707S	20	18.0	8.0	0.3 +	0.1	(5.9)	45	(1.8)	2		7.6	40	31	4
4020	235	1754	52	20.0	29.3	1.4 +	0.5	(27.1)	95	(3.8)	4		30.9	40	10	26
4021	70	1641	17	18.0	24.1	0.4 +	0.1	(6.7)	82	(1.2)	1		7.9	40	10	26
4030	147	1774	39	5.0	18.8	0.5 +	0.3	(10.9)	75	(1.6)	2		12.5	40	31	8
4031	848	1907S	75	4.9	12.4	1.4 +	1.5	(41.4)	52	(6.2)	9	+	47.6	40	31	4
4032BL	22	4031L	75	5.1	16.9	0.1 +	0.0	(1.5)	70	(0.2)	9	(0.0)*	3.9	40	31	4
4097	1083	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2			
4098BL	22	4097L	14	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	623	1919	67	7.0	28.0	3.8 +	1.0	(68.7)	77	(5.3)	9		74.0	41	12	43
4111BL	50	2040S	16	45.4	14.3	0.2 +	0.0	(2.8)	66	(0.0)	2		2.8	41	12	43
4120	181	1959	47	20.0	32.2	1.2 +	0.4	(23.0)	98	(3.0)	3		26.0	41	54	0
4121	295	1773	84	18.0	55.9	2.1 +	2.5	(65.1)	134	(8.4)	8		73.5	41	54	0
4130	368	2056	79	5.0	41.4	2.5 +	1.8	(60.2)	116	(6.1)	8		66.2	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
4131BL	50	1696S	72	31.8	39.8	0.3 +	0.2	(7.8)	114	(0.0)	6		7.9	41	12	26
4132	227	4131L	72	5.0	39.9	1.5 +	1.0	(35.7)	114	(3.7)	6		39.4	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	3	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	210	8000S	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	108	4111L	16	7.0	20.3	0.5 +	0.1	(8.7)	71	(0.9)	2		9.5	41	12	43
5010	643	3929S	17	3.0	0.6	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5			
5011BL	28	5010L	17	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

6010	194	715	32	18.0	4.3	0.0 +	0.2	(	3.3)	0	(	0.0)	0		3.3
6011	552	1618S	36	18.0	1.7	0.0 +	0.3	(	3.8)	3	(	0.3)	0		4.1
6012BL	24	6011L	36	22.5	1.7	0.0 +	0.0	(	0.2)	3	(	0.0)	0		0.2
6020	449	1800S	26	18.0	1.4	0.0 +	0.2	(	2.4)	2	(	0.2)	0		2.6
6021BL	28	6020L	26	22.5	1.4	0.0 +	0.0	(	0.2)	2	(	0.0)	0		0.2
6098BL	24	6099L	7	64.8	0.2	0.0 +	0.0	(	0.0)	0	(	0.0)	0		0.0
6099	552	8000S	7	18.0	0.2	0.0 +	0.0	(	0.5)	0	(	0.0)	0		0.6
7010	732	2055	36	8.0	1.4	0.0 +	0.3	(	3.9)	2	(	0.2)	0		4.1
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(	0.2)	1	(	0.0)	0		0.2

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)	
2791.9	130.3	21.4	29.0	26.2	(783.5) +	(	99.1)	+ (	2.2)	=	884.9	TOTALS
95.1	6.4	14.8	0.9	0.5	(19.5) +	(	0.9)	+ (	2.2)	=	22.6	BUSES
2696.7	123.8	21.8	28.2	25.7	(764.0) +	(	98.2)	+ (	0.0)	=	862.3	OTHER
												ROUTE
820.6	31.2	26.3	4.2	5.2	(132.7) +	(	19.3)	+ (	0.0)	=	152.1	1
875.7	46.6	18.8	11.2	12.6	(337.8) +	(	37.8)	+ (	0.0)	=	375.6	2

****

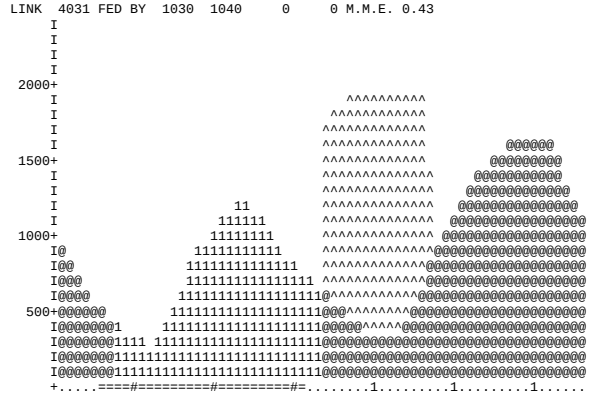
	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	159.0	+	63.5	+	45.8	=	268.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 63

CYCLIC FLOW PROFILE GRAPHS

.

LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.43



PROGRAM TRANSYT FINISHED

TRANSYT Model Outputs

As reported in Transport Assessment Appendix S

PRT

PRT File
AM Peak : 2011 Flow + Committed + Full Dev 0800-0900

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1            _______________ T R A N S Y T 12 _______________

                      Traffic Network Study Tool

                 Analysis Program Release 7  (July 2010)
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            ____________________________________________


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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:- "WEST HENDON A5_110FULL_DEV_AM.DAT"   at 16:42   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   86
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    4
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1                7       7
  31)=  10       5                7       7
  32)=  10      34                6       3       5
  33)=  10      40                7       0       7       3
  34)=  10      41                7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1               15       5
  36)=  11       5               13       5
  37)=  11      34                8      10       9
  38)=  11      40               15       5       5       9
  39)=  11      41               11       6       5

                                 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				
40)=	12	1	1	30	17		
41)=	12	5	1	82	70		
42)=	12	34	1	22	76	1	
43)=	12	40	1	26	73	78	14
44)=	12	41	1	31	87	21	

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	0	4110	96	0	50	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START FIRST GREEN LAG	END STAGE	END LAG	START STAGE	START SECOND GREEN LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	699	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	3	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	8	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	11	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	11	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1087	0	4010	979	8	4020	108	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1307	0	330	1297	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1087	0	110	1087	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	56	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	39	0	210	39	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1297	0	3430	955	7	3442	50	9	3443	292	9	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1634	0	4120	299	7	4130	249	5	4131	1086	5	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1426	0	4110	1318	8	4120	108	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1396	0	620	10	18	630	1393	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1425	0	510	1426	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1393	0	2030	1375	5	2041	18	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	699	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	144	0	130	144	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	1163	0	130	1163	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	54	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	10	0	1031	10	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	74	0	2011	74	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1425	0	610	1422	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1554	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	36	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	18	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1387	0	2011	1351	18	2040	36	18	0	0	0	0	0	0
177)=	32	2099	253	0	2010	74	18	2030	179	18	0	0	0	0	0	0
178)=	32	3410	161	0	210	161	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	943	0	210	887	9	220	56	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1644	0	430	1634	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	505	0	5010	505	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	292	0	5010	292	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1169	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	627	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	144	0	1030	144	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	1217	0	1031	1163	4	1040	54	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1738	0	4020	521	18	4031	1217	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	334	0	4010	190	18	4030	144	18	0	0	0	0	0	0
202)=	32	4110	1398	0	3411	943	15	3442	455	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	407	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	310	0	530	310	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	1086	0	530	1086	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	141	0	4110	80	18	4130	61	18	0	0	0	0	0	0
210)=	32	5010	797	0	6010	35	3	6020	762	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	850	0	3410	161	9	3430	689	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	35	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	74	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	762	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	850	0	5020	850	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	924	0	6011	74	18	6030	850	18	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.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
230)=	41	1	Southbound
231)=	41	2	Northbound

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.
232)=	42	1	2030	530	4130	3430	1030	4031	4097						
233)=	42	2	210	3410	4110	2011	2098								

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

.

88 SECOND CYCLE 88 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	2	30	17								
5	2	82	70								
34	3	22	76	1							
40	4	26	73	78	14						
41	3	31	87	21							

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)	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)
110	1088	3940S	41	8.2	1.7	0.2 +	0.3	(7.4)	4	(0.7)	1		8.1	1	45	17
111BL	22	110L	41	8.8	1.1	0.0 +	0.0	(0.1)	1	(0.0)	1		0.1	1	45	17
130	1306	4030S	48	12.0	6.1	1.8 +	0.4	(31.6)	31	(6.6)	11		38.2	1	45	17
131BL	22	130L	48	12.8	1.6	0.0 +	0.0	(0.1)	10	(0.0)	11		0.2	1	45	17
210	1088	3940S	28	8.0	0.6	0.0 +	0.2	(2.7)	1	(0.1)	0	(0.0)*	2.8			
211BL	22	210L	28	8.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
220	56	715	12	18.0	5.3	0.0 +	0.1	(1.2)	21	(0.2)	0		1.4			
299	39	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
330	1296	4030S	33	7.5	0.7	0.0 +	0.2	(3.4)	1	(0.1)	0		3.5			
331BL	22	330L	33	7.4	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
340	10	715	2	18.0	4.3	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
399	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
430	1634	3960S	43	5.4	0.8	0.0 +	0.4	(5.1)	1	(0.1)	0		5.2			
431BL	50	430L	43	5.7	0.8	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
440	10	715	3	18.0	5.5	0.0 +	0.0	(0.2)	4	(0.0)	0		0.2			
510	1425	3970S	51	8.2	7.6	2.5 +	0.5	(42.9)	36	(8.2)	13		51.1	5	7	70
511BL	50	510L	51	8.7	7.8	0.1 +	0.0	(1.5)	36	(0.3)	13		1.8	5	7	70
530	1396	3950S	50	6.1	6.4	2.0 +	0.5	(35.2)	43	(1.2)	15		36.4	5	7	70
531BL	50	530L	50	6.9	6.4	0.1 +	0.0	(1.3)	43	(0.3)	15		1.6	5	7	70
610	1425	2132S	69	7.0	7.5	1.9 +	1.1	(42.0)	76	(17.5)	21	+	59.5			
611BL	50	610L	69	7.5	5.4	0.0 +	0.0	(1.1)	66	(0.5)	21	+	1.5			
620	10	658	7	18.0	23.4	0.0 +	0.0	(0.9)	91	(0.2)	0		1.1			
630	1392	3995S	36	5.0	0.7	0.0 +	0.3	(3.9)	0	(0.0)	0		3.9			
631BL	50	630L	36	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
699	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
1030	144	1833	8	2.0	1.1	0.0 +	0.0	(0.6)	1	(0.0)	0		0.6			
1031	1162	3960S	30	2.0	0.6	0.0 +	0.2	(3.0)	1	(0.1)	0	(0.0)*	3.1			
1032BL	22	1031L	30	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1040	54	715	8	20.0	2.9	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
1099	9	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	74	850	26	3.0	8.4	0.0 +	0.2	(2.5)	0	(0.0)	0	(0.0)*	2.5			
2011	1427	2055S	72	6.0	3.3	0.1 +	1.2	(18.8)	16	(3.7)	17	+	22.5			
2012BL	50	2011L	72	6.4	3.2	0.0 +	0.0	(0.6)	9	(0.1)	17	(0.4)*	40.2			
2030	1554	4033S	40	18.0	0.7	0.0 +	0.3	(4.5)	1	(0.3)	0		4.8			
2031BL	50	2030L	40	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	36	600	61	18.0	88.6	0.1 +	0.7	(12.6)	196	(1.5)	1		14.1			
2041	18	715	5	18.0	5.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4			
2097BL	50	2098L	18	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1389	8000S	18	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
2099	254	8000	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
3410	161	1791	69	9.0	37.4	0.6 +	1.1	(23.8)	105	(2.6)	4		26.3	34	29	1
3411	943	2430Sf	73	9.1	27.6	5.9 +	1.3	(102.8)	75	(10.7)	17	+	113.6	34	29	76
3412BL	22	3411L	73	38.8	28.7	0.1 +	0.0	(2.5)	97	(0.3)	17	+	2.8	34	29	76

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88 SECOND CYCLE 88 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)	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)
3430	1644	3704S	81	9.1	20.1	7.2 +	2.0	(130.2)	74	(19.7)	32	+	149.9	34	30	79
3431BL	50	3430L	81	9.8	14.7	0.1 +	0.1	(2.9)	62	(0.4)	32	+	3.3	34	30	79
3440BL	28	3442L	84	7.2	52.1	0.3 +	0.1	(5.8)	113	(0.5)	15		6.2	34	8	22
3442	505	3730S	84	7.0	52.1	5.0 +	2.4	(103.8)	113	(8.1)	15		111.9	34	8	22
3443	292	1641	63	7.0	37.6	2.2 +	0.8	(43.3)	96	(4.0)	7		47.3	34	86	22
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	27	76
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	10	22
4010	1169	3804S	83	18.0	32.5	8.1 +	2.4	(149.9)	96	(23.7)	29		173.6	40	41	73
4011BL	22	4010L	83	22.5	32.5	0.2 +	0.0	(2.8)	96	(0.3)	29		3.1	40	41	73
4020	627	2834f	97	18.0	83.8	5.6 +	9.0	(207.3)	146	(19.3)	24		226.7	40	83	14
4030	144	1833	79	4.0	73.0	1.2 +	1.7	(41.5)	136	(2.6)	5		44.1	40	41	80
4031	1216	3960S	72	4.0	18.9	5.1 +	1.3	(90.5)	42	(6.9)	14		97.4	40	41	78
4032BL	22	4031L	72	38.2	27.9	0.1 +	0.0	(2.4)	88	(0.0)	14	(0.0)*	3.2	40	41	78
4097	1737	8000S	22	18.0	0.3	0.0 +	0.1	(2.0)	0	(0.1)	0		2.1			
4098BL	22	4097L	22	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	1398	3922S	71	15.7	15.9	5.0 +	1.2	(87.6)	87	(19.6)	31		107.2	41	42	87
4111BL	50	4110L	71	25.0	16.6	0.2 +	0.0	(3.3)	75	(0.5)	31		3.8	41	42	87
4120	407	2292f	92	18.0	73.3	3.8 +	4.5	(117.7)	135	(11.6)	14		129.3	41	5	21
4130	310	2018	80	7.0	58.2	3.1 +	1.9	(71.1)	123	(5.1)	9		76.2	41	42	1
4131	1086	1905S	85	7.0	20.6	3.7 +	2.6	(88.4)	103	(15.0)	30	+	103.4	41	26	87
4132BL	50	4131L	85	7.0	20.7	0.2 +	0.1	(4.1)	105	(0.8)	30	+	4.8	41	26	87
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26	31
4199	142	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	797	3910S	21	3.0	0.6	0.0 +	0.1	(1.8)	1	(0.1)	0		1.9			
5011BL	28	5010L	21	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	852	1975S	45	9.0	1.6	0.0 +	0.4	(5.5)	2	(0.1)	0		5.7			
5021BL	28	5020L	45	7.2	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	35	715	6	18.0	3.6	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
6011	74	1618	5	18.0	1.2	0.0 +	0.0	(0.3)	1	(0.0)	0		0.4			
6020	762	1800S	44	18.0	1.8	0.0 +	0.4	(5.4)	2	(0.3)	0		5.7			
6021BL	28	6020L	44	22.5	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	852	1975S	45	3.0	1.6	0.0 +	0.4	(5.5)	2	(0.3)	0		5.8			
6031BL	28	6030L	45	3.6	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	12	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	926	8000S	12	18.0	0.3	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0			
-180	50	10000	5	10.0	37.8	0.5 +	0.0	(7.4)	92	(0.0)	1		7.5	1	22	30
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	75	82
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	84	22
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	84	1
-4080	10	10000	0	10.0	11.1	0.0 +	0.0	(0.4)	49	(0.0)	0		0.4	40	78	34
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	23	34
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	19	26

*** 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)	
3701.9	211.2	17.5	67.7	41.4	(1548.1) +	(195.0) +	(40.3) =	1783.3	TOTALS
88.4	5.4	16.4	1.4	0.7	(29.8) +	(4.0) +	(40.3) =	74.1	BUSES
3613.5	205.9	17.6	66.2	40.7	(1518.3) +	(191.0) +	(0.0) =	1709.3	OTHER

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	218.1	+	127.1	+	89.3	=	434.5

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NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

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

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  567
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   23
NO. OF LINKS RECALCULATED=  989
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  639
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
```

```
    88.4          5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5        205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  669
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  634
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

  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)

  3701.9         211.2       17.5         67.7     41.4    (1548.1) + (  195.0)  +  (  40.3)   =    1783.3      TOTALS
    88.4           5.4       16.4          1.4      0.7    (  29.8) + (    4.0)  +  (  40.3)   =      74.1      BUSES
  3613.5         205.9       17.6         66.2     40.7    (1518.3) + (  191.0)  +  (   0.0)   =    1709.3      OTHER

NO. OF ENTRIES TO SUBPT  =   23
NO. OF LINKS RECALCULATED= 1302
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      30      17
    5       2      82      70
   34       3      22      76       1
   40       4      26      73      78      14
   41       3      31      87      21

 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)

  110    1088   3940S    41   8.2   1.7    0.2 +  0.3  (  7.4)     4  (  0.7)      1                8.1      1     45  17
  111BL    22    110L    41   8.8   1.1    0.0 +  0.0  (  0.1)     1  (  0.0)      1                0.1      1     45  17
  130    1306   4030S    48  12.0   6.1    1.8 +  0.4  ( 31.6)    31  (  6.6)     11               38.2      1     45  17
  131BL    22    130L    48  12.8   1.6    0.0 +  0.0  (  0.1)    10  (  0.0)     11                0.2      1     45  17
  210    1088   3940S    28   8.0   0.6    0.0 +  0.2  (  2.7)     1  (  0.1)      0  ( 0.0)*       2.8
  211BL    22    210L    28   8.4   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  220      56    715    12  18.0   5.3    0.0 +  0.1  (  1.2)    21  (  0.2)      0                1.4
  299      39   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  330    1296   4030S    33   7.5   0.7    0.0 +  0.2  (  3.4)     1  (  0.1)      0                3.5
  331BL    22    330L    33   7.4   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  340      10    715      2  18.0   4.3    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
  399      10   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  430    1634   3960S    43   5.4   0.8    0.0 +  0.4  (  5.1)     1  (  0.1)      0                5.2
  431BL    50    430L    43   5.7   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
  440      10    715      3  18.0   5.5    0.0 +  0.0  (  0.2)     4  (  0.0)      0                0.2
  510    1425   3970S    51   8.2   7.6    2.5 +  0.5  ( 42.9)    36  (  8.2)     13               51.1      5      7  70
  511BL    50    510L    51   8.7   7.8    0.1 +  0.0  (  1.5)    36  (  0.3)     13                1.8      5      7  70
  530    1396   3950S    50   6.1   6.4    2.0 +  0.5  ( 35.2)    43  (  1.2)     15               36.4      5      7  70
  531BL    50    530L    50   6.9   6.4    0.1 +  0.0  (  1.3)    43  (  0.3)     15                1.6      5      7  70
  610    1425   2132S    69   7.0   7.5    1.9 +  1.1  ( 42.0)    76  ( 17.5)     21     +         59.5
  611BL    50    610L    69   7.5   5.4    0.0 +  0.0  (  1.1)    66  (  0.5)     21     +          1.5
  620      10    658      7  18.0  23.4    0.0 +  0.0  (  0.9)    91  (  0.2)      0                1.1
  630    1392   3995S    36   5.0   0.7    0.0 +  0.3  (  3.9)     0  (  0.0)      0                3.9
  631BL    50    630L    36   5.4   0.7    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
  699      11   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 1030     144   1833     8   2.0   1.1    0.0 +  0.0  (  0.6)     1  (  0.0)      0                0.6
 1031    1162   3960S    30   2.0   0.6    0.0 +  0.2  (  3.0)     1  (  0.1)      0  ( 0.0)*       3.1
 1032BL    22   1031L    30   2.1   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 1040      54    715     8  20.0   2.9    0.0 +  0.0  (  0.6)     0  (  0.0)      0                0.6
 1099       9   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      74    850    26   3.0   8.4    0.0 +  0.2  (  2.5)     0  (  0.0)      0  ( 0.0)*       2.5
 2011    1427   2055S    72   6.0   3.3    0.1 +  1.2  ( 18.8)    16  (  3.7)     17     +         22.5
 2012BL    50   2011L    72   6.4   3.2    0.0 +  0.0  (  0.6)     9  (  0.1)     17  ( 0.4)*      40.2
 2030    1554   4033S    40  18.0   0.7    0.0 +  0.3  (  4.5)     1  (  0.3)      0                4.8
 2031BL    50   2030L    40  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.2
 2040      36    600    61  18.0  88.6    0.1 +  0.7  ( 12.6)   196  (  1.5)      1               14.1
 2041      18    715     5  18.0   5.2    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 2097BL    50   2098L    18  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1389   8000S    18  18.0   0.3    0.0 +  0.1  (  1.5)     0  (  0.1)      0                1.6
 2099     254   8000     3  18.0   0.2    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
 3410     161   1791    69   9.0  37.4    0.6 +  1.1  ( 23.8)   105  (  2.6)      4               26.3     34     29   1
 3411     943   2430Sf   73   9.1  27.6    5.9 +  1.3  (102.8)    75  ( 10.7)     17     +        113.6     34     29  76
 3412BL    22   3411L    73  38.8  28.7    0.1 +  0.0  (  2.5)    97  (  0.3)     17     +          2.8     34     29  76
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     88 SECOND CYCLE  88 STEPS
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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)
3430	1644	3704S	81	9.1	20.1	7.2 +	2.0	(130.2)	74	(19.7)	32	+	149.9	34	30	79		
3431BL	50	3430L	81	9.8	14.7	0.1 +	0.1	(2.9)	62	(0.4)	32	+	3.3	34	30	79		
3440BL	28	3442L	84	7.2	52.1	0.3 +	0.1	(5.8)	113	(0.5)	15		6.2	34	8	22		
3442	505	3730S	84	7.0	52.1	5.0 +	2.4	(103.8)	113	(8.1)	15		111.9	34	8	22		
3443	292	1641	63	7.0	37.6	2.2 +	0.8	(43.3)	96	(4.0)	7		47.3	34	86	22		
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	27	76		
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	10	22		
4010	1169	3804S	83	18.0	32.5	8.1 +	2.4	(149.9)	96	(23.7)	29		173.6	40	41	73		
4011BL	22	4010L	83	22.5	32.5	0.2 +	0.0	(2.8)	96	(0.3)	29		3.1	40	41	73		
4020	627	2834f	97	18.0	83.8	5.6 +	9.0	(207.3)	146	(19.3)	24		226.7	40	83	14		
4030	144	1833	79	4.0	73.0	1.2 +	1.7	(41.5)	136	(2.6)	5		44.1	40	41	80		
4031	1216	3960S	72	4.0	18.9	5.1 +	1.3	(90.5)	42	(6.9)	14		97.4	40	41	78		
4032BL	22	4031L	72	38.2	27.9	0.1 +	0.0	(2.4)	88	(0.0)	14	(0.0)*	3.2	40	41	78		
4097	1737	8000S	22	18.0	0.3	0.0 +	0.1	(2.0)	0	(0.1)	0		2.1					
4098BL	22	4097L	22	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
4110	1398	3922S	71	15.7	15.9	5.0 +	1.2	(87.6)	87	(19.6)	31		107.2	41	42	87		
4111BL	50	4110L	71	25.0	16.6	0.2 +	0.0	(3.3)	75	(0.5)	31		3.8	41	42	87		
4120	407	2292f	92	18.0	73.3	3.8 +	4.5	(117.7)	135	(11.6)	14		129.3	41	5	21		
4130	310	2018	80	7.0	58.2	3.1 +	1.9	(71.1)	123	(5.1)	9		76.2	41	42	1		
4131	1086	1905S	85	7.0	20.6	3.7 +	2.6	(88.4)	103	(15.0)	30	+	103.4	41	26	87		
4132BL	50	4131L	85	7.0	20.7	0.2 +	0.1	(4.1)	105	(0.8)	30	+	4.8	41	26	87		
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26	31		
4199	142	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
5010	797	3910S	21	3.0	0.6	0.0 +	0.1	(1.8)	1	(0.1)	0		1.9					
5011BL	28	5010L	21	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
5020	852	1975S	45	9.0	1.6	0.0 +	0.4	(5.5)	2	(0.1)	0		5.7					
5021BL	28	5020L	45	7.2	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6010	35	715	6	18.0	3.6	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
6011	74	1618	5	18.0	1.2	0.0 +	0.0	(0.3)	1	(0.0)	0		0.4					
6020	762	1800S	44	18.0	1.8	0.0 +	0.4	(5.4)	2	(0.3)	0		5.7					
6021BL	28	6020L	44	22.5	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6030	852	1975S	45	3.0	1.6	0.0 +	0.4	(5.5)	2	(0.3)	0		5.8					
6031BL	28	6030L	45	3.6	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6098BL	28	6099L	12	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
6099	926	8000S	12	18.0	0.3	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-180	50	10000	5	10.0	37.8	0.5 +	0.0	(7.4)	92	(0.0)	1		7.5	1	22	30		
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	75	82		
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	84	22		
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	84	1		
-4080	10	10000	0	10.0	11.1	0.0 +	0.0	(0.4)	49	(0.0)	0		0.4	40	78	34		
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	23	34		
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	19	26		

*** 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)	
3701.9	211.2	17.5	67.7	41.4	(1548.1) +	(195.0) +	(40.3) =	1783.3	TOTALS
88.4	5.4	16.4	1.4	0.7	(29.8) +	(4.0) +	(40.3) =	74.1	BUSES
3613.5	205.9	17.6	66.2	40.7	(1518.3) +	(191.0) +	(0.0) =	1709.3	OTHER
									ROUTE
951.1	48.5	19.6	17.4	6.1	(334.1) +	(33.3) +	(0.0) =	367.4	1
653.7	27.7	23.6	5.7	3.8	(134.5) +	(26.1) +	(0.0) =	160.5	2

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	218.1	+	127.1	+	89.3	=	434.5

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 662

PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow + Committed + Full Dev 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ______________________________________________


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 ---------------------------------------------------------------------------
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Run with file:- "WEST HENDON A5_110FULL_DEV_PM.DAT"   at 16:42   on 20130312

TRANSYT 12.0

West Hendon Broadway Proposed Model PM


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

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   86
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    4
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Proposed Model PM
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                  LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1               7       7
  31)=  10       5               7       7
  32)=  10      34               7       3       5
  33)=  10      40               7       0       7       3
  34)=  10      41               7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1              15       5
  36)=  11       5              13       5
  37)=  11      34               8      10       9
  38)=  11      40              15       5       5       9
  39)=  11      41              10       6       5

                                 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			
40)=	12	1	1	55	43	
41)=	12	5	1	43	31	
42)=	12	34	1	76	42	55
43)=	12	40	1	70	35	45 58
44)=	12	41	1	44	21	34

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	4110	0	0	50	0	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	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
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	633	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	0	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	5	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	10	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	10	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1186	0	4010	1115	8	4020	71	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1089	0	330	1079	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1186	0	110	1186	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	27	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	56	0	210	56	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1079	0	3430	799	7	3443	280	9	0	0	0	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1207	0	4120	122	7	4131	1085	5	0	0	0	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1405	0	4110	1312	8	4120	93	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1249	0	620	10	18	630	1246	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1405	0	510	1405	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1246	0	2030	1215	5	2041	31	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	633	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	243	2	130	243	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	846	0	130	846	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	200	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	52	0	1031	52	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	69	0	2011	69	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1405	0	610	1402	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1311	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1391	0	2011	1336	18	2040	55	18	0	0	0	0	0	0
177)=	32	2099	165	0	2010	69	18	2030	96	18	0	0	0	0	0	0
178)=	32	3410	192	0	210	192	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	965	0	210	938	9	220	27	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1217	0	430	1207	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	479	0	5010	479	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	280	0	5010	280	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1522	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	303	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	243	0	1030	243	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	994	0	1031	794	4	1040	200	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1226	0	4020	232	18	4031	994	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	650	0	4010	407	18	4030	243	18	0	0	0	0	0	0
202)=	32	4110	1444	0	3411	965	15	3442	479	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	215	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	164	0	530	164	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	1085	0	530	1085	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	296	0	4110	132	18	4130	164	18	0	0	0	0	0	0
210)=	32	5010	759	0	6010	97	3	6020	662	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	610	0	3410	192	9	3430	418	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	97	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	144	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	662	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	610	0	5020	610	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	754	0	6011	144	18	6030	610	18	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.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
230)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
231)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
232)=	41	1	Southbound
233)=	41	2	Northbound

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.
234)=	42	1	2030	530	4131	3430	1030	4031	4097						
235)=	42	2	210	3410	4110	2011	2098								

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

.

88 SECOND CYCLE 88 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	2	55	43								
5	2	43	31								
34	3	76	42	55							

40	4	70	35	45	58
41	3	44	21	34	

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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END 1ST	START 2ND	END 2ND
110	1185	3940S	43	8.1	1.8	0.2 +	0.4	(8.5)	8	(1.6)	2		10.1	1	70	43		
111BL	22	110L	43	8.8	1.4	0.0 +	0.0	(0.1)	2	(0.0)	2		0.1	1	70	43		
130	1086	4030S	39	12.1	3.8	0.8 +	0.3	(16.4)	16	(2.8)	5		19.2	1	70	43		
131BL	22	130L	39	12.8	3.9	0.0 +	0.0	(0.3)	15	(0.0)	5		0.4	1	70	43		
210	1185	3940S	31	8.0	0.7	0.0 +	0.2	(3.1)	1	(0.1)	0	(0.0)*	3.2					
211BL	22	210L	31	8.4	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
220	27	715	6	18.0	4.3	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
299	57	8000	1	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
330	1076	4030S	27	7.5	0.6	0.0 +	0.2	(2.6)	1	(0.1)	0		2.7					
331BL	22	330L	27	7.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
340	10	715	2	18.0	3.9	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2					
399	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
430	1205	3960S	32	5.2	0.7	0.0 +	0.2	(3.2)	1	(0.1)	0		3.2					
431BL	50	430L	32	5.7	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
440	10	715	2	18.0	4.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2					
510	1403	3970S	50	8.1	2.5	0.5 +	0.5	(13.9)	9	(2.0)	3		15.9	5	56	31		
511BL	50	510L	50	8.7	1.3	0.0 +	0.0	(0.2)	1	(0.0)	3		0.3	5	56	31		
530	1247	3950S	45	6.1	6.0	1.7 +	0.4	(29.6)	40	(1.0)	13		30.7	5	56	31		
531BL	50	530L	45	6.9	6.0	0.1 +	0.0	(1.2)	40	(0.3)	13		1.5	5	56	31		
610	1403	2132S	68	7.0	3.8	0.5 +	1.0	(21.1)	38	(8.6)	13		29.6					
611BL	50	610L	68	7.5	3.4	0.0 +	0.0	(0.7)	27	(0.2)	13		0.9					
620	10	658	6	18.0	17.2	0.0 +	0.0	(0.7)	88	(0.2)	0		0.9					
630	1245	3995S	32	5.0	0.7	0.0 +	0.2	(3.3)	0	(0.0)	0		3.3					
631BL	50	630L	32	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
633	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
1030	243	1833	13	2.0	1.1	0.0 +	0.1	(1.1)	1	(0.1)	0	(0.0)*	1.1					
1031	843	3960S	22	2.0	0.6	0.0 +	0.1	(1.9)	1	(0.1)	0	(0.0)*	2.0					
1032BL	22	1031L	22	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
1040	200	715	30	20.0	3.9	0.0 +	0.2	(3.1)	0	(0.0)	0		3.1					
1099	52	8000	1	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
2010	70	850	19	3.0	5.9	0.0 +	0.1	(1.6)	0	(0.0)	0	(0.0)*	1.6					
2011	1402	2055S	71	6.0	3.1	0.0 +	1.2	(16.9)	7	(1.7)	9	(0.0)*	18.6					
2012BL	50	2011L	71	6.4	3.0	0.0 +	0.0	(0.6)	6	(0.0)	9	(0.0)*	0.6					
2030	1311	4033S	34	18.0	0.7	0.0 +	0.2	(3.5)	1	(0.2)	0		3.7					
2031BL	50	2030L	34	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
2040	55	600	73	18.0	105.0	0.4 +	1.2	(22.8)	156	(1.8)	2		24.6					
2041	31	715	7	18.0	4.7	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
2097BL	50	2098L	18	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
2098	1387	8000S	18	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6					
2099	167	8000	2	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2					
3410	192	1791	46	9.0	12.3	0.2 +	0.4	(9.3)	52	(1.5)	3		10.9	34	83	55		
3411	963	2430Sf	74	9.1	20.6	4.1 +	1.4	(78.2)	57	(8.3)	13		86.5	34	83	42		
3412BL	22	3411L	74	38.8	26.5	0.1 +	0.0	(2.3)	91	(0.3)	13		2.6	34	83	42		

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88 SECOND CYCLE 88 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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	END 1ST	START 2ND	END 2ND
3430	1215	3704S	64	9.1	15.6	4.4 +	0.8	(74.7)	77	(15.1)	26		89.7	34	84	42		
3431BL	50	3430L	64	9.8	13.6	0.2 +	0.0	(2.7)	77	(0.5)	26		3.2	34	84	42		
3440BL	28	3442L	80	7.2	48.7	0.3 +	0.1	(5.4)	109	(0.4)	14		5.8	34	62	76		
3442	480	3730S	80	7.0	48.7	4.7 +	1.8	(92.1)	109	(7.4)	14		99.6	34	62	76		
3443	279	1641	60	7.0	36.8	2.1 +	0.7	(40.5)	94	(3.8)	7		44.2	34	52	76		
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	81	42		
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	64	76		
4010	1522	3804S	92	18.0	34.8	9.7 +	5.0	(208.9)	103	(33.2)	40		242.1	40	85	35		
4011BL	22	4010L	92	22.5	34.8	0.1 +	0.1	(3.0)	103	(0.3)	40		3.3	40	85	35		
4020	303	3395f	87	18.0	74.8	3.3 +	3.0	(89.4)	133	(8.5)	10		97.9	40	50	58		
4030	243	1833	92	4.0	87.7	1.6 +	4.3	(84.1)	154	(5.0)	10	+	89.1	40	85	47		
4031	991	3960S	46	4.0	8.1	1.8 +	0.4	(31.8)	44	(5.9)	12		37.7	40	85	45		
4032BL	22	4031L	46	38.2	18.2	0.1 +	0.0	(1.6)	74	(0.0)	12	(0.0)*	1.6	40	85	45		
4097	1223	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4099	651	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7					
4110	1443	3922S	60	15.7	7.9	2.4 +	0.7	(44.7)	41	(9.4)	15		54.1	41	54	21		
4111BL	50	4110L	60	25.0	9.6	0.1 +	0.0	(1.9)	41	(0.3)	15		2.2	41	54	21		
4120	215	3007f	79	18.0	67.9	2.3 +	1.7	(57.6)	125	(5.7)	7		63.3	41	27	34		
4130	165	2018	91	7.0	89.1	0.5 +	3.5	(58.0)	155	(3.4)	6		61.4	41	54	23		
4131	1083	1905S	74	7.0	9.3	1.5 +	1.3	(39.8)	70	(10.2)	18	+	50.0	41	39	21		
4132BL	50	4131L	74	7.0	8.8	0.1 +	0.1	(1.7)	65	(0.5)	18	+	2.2	41	39	21		
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	39	44		
4199	297	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
5010	759	3910S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0		1.8					
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
5020	610	1975S	32	9.0	1.3	0.0 +	0.2	(3.2)	2	(0.1)	0		3.3					
5021BL	28	5020L	32	7.2	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2					
6010	97	715	17	18.0	3.9	0.0 +	0.1	(1.5)	0	(0.0)	0		1.5					
6011	144	1618	9	18.0	1.2	0.0 +	0.0	(0.7)	1	(0.0)	0		0.7					
6020	662	1800S	38	18.0	1.6	0.0 +	0.3	(4.2)	2	(0.3)	0		4.5					
6021BL	28	6020L	38	22.5	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6030	610	1975S	32	3.0	1.3	0.0 +	0.2	(3.2)	2	(0.2)	0		3.4					
6031BL	28	6030L	32	3.6	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2					
6098BL	28	6099L	10	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
6099	754	8000S	10	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8					
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	48	55		
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	36	43		
-3460	10	10000	0	10.0	20.0	0.1 +	0.0	(0.8)	66	(0.0)	0		0.8	34	47	76		
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	50	55		
-4080	10	10000	0	10.0	14.3	0.0 +	0.0	(0.6)	56	(0.0)	0		0.6	40	40	78		
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	67	78		
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	63	70		

*** 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)	
3473.2	174.8	19.9	45.0	34.0	(1122.4) +	(141.7) +	(0.0) =	1264.1	TOTALS
88.4	4.9	18.1	1.1	0.6	(23.0) +	(3.0) +	(0.0) =	25.9	BUSES
3384.8	169.9	19.9	44.0	33.5	(1099.4) +	(138.7) +	(0.0) =	1238.1	OTHER

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88 SECOND CYCLE 88 STEPS

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

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FUEL CONSUMPTION PREDICTIONS       204.2         +      92.6         +      65.1         =     361.9

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      55      43
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.4) + (  141.7)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.4) + (  138.7)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  575
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      55      43
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.4) + (  141.7)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.4) + (  138.7)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  570
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      55      43
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.4) + (  141.7)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.4) + (  138.7)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   21
NO. OF LINKS RECALCULATED=  826
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      55      43
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.4) + (  141.7)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.4) + (  138.7)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  614
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      55      43
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)
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```
  3473.2         174.8       19.9         45.0     34.0    (1122.4) + (  141.7)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.4) + (  138.7)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  662
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      56      44
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.5) + (  141.6)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.5) + (  138.6)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  620
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      56      44
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

  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)

  3473.2         174.8       19.9         45.0     34.0    (1122.5) + (  141.6)  +  (   0.0)   =    1264.1      TOTALS
    88.4           4.9       18.1          1.1      0.6    (  23.0) + (    3.0)  +  (   0.0)   =      25.9      BUSES
  3384.8         169.9       19.9         44.0     33.5    (1099.5) + (  138.6)  +  (   0.0)   =    1238.1      OTHER

NO. OF ENTRIES TO SUBPT  =   21
NO. OF LINKS RECALCULATED= 1122
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      56      44
    5       2      43      31
   34       3      76      42      55
   40       4      70      35      45      58
   41       3      44      21      34

 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)

  110    1185   3940S    43   8.1   1.8    0.2 +  0.4  (  8.3)      7  (  1.5)       2                9.9      1     71  44
  111BL    22    110L    43   8.8   1.3    0.0 +  0.0  (  0.1)      2  (  0.0)       2                0.1      1     71  44
  130    1086   4030S    39  12.1   3.6    0.8 +  0.3  ( 15.5)     16  (  2.7)       4               18.3      1     71  44
  131BL    22    130L    39  12.8   3.7    0.0 +  0.0  (  0.3)     13  (  0.0)       4                0.4      1     71  44
  210    1185   3940S    31   8.0   0.7    0.0 +  0.2  (  3.1)      1  (  0.1)       0  ( 0.0)*       3.2
  211BL    22    210L    31   8.4   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  220      27    715      6  18.0   4.3    0.0 +  0.0  (  0.5)      0  (  0.0)       0                0.5
  299      57   8000      1  18.0   0.2    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
  330    1076   4030S    27   7.5   0.6    0.0 +  0.2  (  2.6)      1  (  0.1)       0                2.7
  331BL    22    330L    27   7.4   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  340      10    715      2  18.0   3.9    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
  399      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
  430    1205   3960S    32   5.2   0.7    0.0 +  0.2  (  3.2)      1  (  0.1)       0                3.2
  431BL    50    430L    32   5.7   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  440      10    715      2  18.0   4.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
  510    1403   3970S    50   8.1   2.5    0.5 +  0.5  ( 13.9)      9  (  2.0)       3               15.9      5     56  31
  511BL    50    510L    50   8.7   1.3    0.0 +  0.0  (  0.2)      1  (  0.0)       3                0.3      5     56  31
  530    1247   3950S    45   6.1   6.0    1.7 +  0.4  ( 29.6)     40  (  1.0)      13               30.7      5     56  31
  531BL    50    530L    45   6.9   6.0    0.1 +  0.0  (  1.2)     40  (  0.3)      13                1.5      5     56  31
  610    1403   2132S    68   7.0   3.8    0.5 +  1.0  ( 21.1)     38  (  8.6)      13               29.6
  611BL    50    610L    68   7.5   3.4    0.0 +  0.0  (  0.7)     27  (  0.2)      13                0.9
  620      10    658      6  18.0  17.1    0.0 +  0.0  (  0.7)     88  (  0.2)       0                0.9
  630    1245   3995S    32   5.0   0.7    0.0 +  0.2  (  3.3)      0  (  0.0)       0                3.3
  631BL    50    630L    32   5.4   0.7    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
  633      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 1030     243   1833     13   2.0   1.1    0.0 +  0.1  (  1.1)      1  (  0.1)       0  ( 0.0)*       1.1
 1031     843   3960S    22   2.0   0.6    0.0 +  0.1  (  1.9)      1  (  0.1)       0  ( 0.0)*       2.0
 1032BL    22   1031L    22   2.1   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 1040     200    715     30  20.0   3.9    0.0 +  0.2  (  3.1)      0  (  0.0)       0                3.1
 1099      52   8000      1  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 2010      70    850     19   3.0   5.9    0.0 +  0.1  (  1.6)      0  (  0.0)       0  ( 0.0)*       1.6
 2011    1402   2055S    71   6.0   3.1    0.0 +  1.2  ( 16.9)      7  (  1.7)       9  ( 0.0)*      18.6
 2012BL    50   2011L    71   6.4   3.0    0.0 +  0.0  (  0.6)      6  (  0.0)       9  ( 0.0)*       0.6
 2030    1311   4033S    34  18.0   0.7    0.0 +  0.2  (  3.5)      1  (  0.2)       0                3.7
 2031BL    50   2030L    34  22.5   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 2040      55    600     73  18.0 104.9    0.4 +  1.2  ( 22.8)    156  (  1.8)       2               24.6
 2041      31    715      7  18.0   4.7    0.0 +  0.0  (  0.6)      0  (  0.0)       0                0.6
 2097BL    50   2098L    18  22.5   0.3    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
 2098    1387   8000S    18  18.0   0.3    0.0 +  0.1  (  1.5)      0  (  0.1)       0                1.6
 2099     167   8000      2  18.0   0.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
 3410     192   1791     46   9.0  12.4    0.2 +  0.4  (  9.4)     53  (  1.5)       2               10.9     34     83  55
 3411     963   2430Sf   74   9.1  20.6    4.1 +  1.4  ( 78.3)     56  (  8.3)      13               86.6     34     83  42
 3412BL    22   3411L    74  38.8  26.6    0.1 +  0.0  (  2.3)     91  (  0.3)      13                2.6     34     83  42
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88 SECOND CYCLE 88 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 ($/H)	STOPS MEAN STOPS (%)	STOPS COST OF STOPS ($/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)
3430	1215	3704S	64	9.1	15.6	4.4 +	0.8	(74.7)	77	(15.1)	26		89.7	34	84	42
3431BL	50	3430L	64	9.8	13.6	0.2 +	0.0	(2.7)	77	(0.5)	26		3.2	34	84	42
3440BL	28	3442L	80	7.2	48.7	0.3 +	0.1	(5.4)	109	(0.4)	14		5.8	34	62	76
3442	480	3730S	80	7.0	48.7	4.7 +	1.8	(92.1)	109	(7.4)	14		99.6	34	62	76
3443	279	1641	60	7.0	36.8	2.1 +	0.7	(40.5)	94	(3.8)	7		44.2	34	52	76
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	81	42
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	64	76
4010	1522	3804S	92	18.0	34.8	9.7 +	5.0	(208.9)	103	(33.2)	40		242.1	40	85	35
4011BL	22	4010L	92	22.5	34.8	0.1 +	0.1	(3.0)	103	(0.3)	40		3.3	40	85	35
4020	303	3395f	87	18.0	74.8	3.3 +	3.0	(89.4)	133	(8.5)	10		97.9	40	50	58
4030	243	1833	92	4.0	87.9	1.6 +	4.3	(84.2)	154	(5.0)	10	+	89.2	40	85	47
4031	991	3960S	46	4.0	8.3	1.9 +	0.4	(32.4)	44	(5.9)	12		38.3	40	85	45
4032BL	22	4031L	46	38.2	18.4	0.1 +	0.0	(1.6)	75	(0.0)	12	(0.0)*	1.6	40	85	45
4097	1223	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	651	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
4110	1443	3922S	60	15.7	7.9	2.4 +	0.7	(44.7)	41	(9.5)	15		54.2	41	54	21
4111BL	50	4110L	60	25.0	9.6	0.1 +	0.0	(1.9)	41	(0.3)	15		2.2	41	54	21
4120	215	3007f	79	18.0	67.9	2.3 +	1.7	(57.6)	125	(5.7)	7		63.3	41	27	34
4130	165	2018	91	7.0	89.4	0.5 +	3.6	(58.2)	156	(3.4)	6		61.6	41	54	23
4131	1083	1905S	74	7.0	9.3	1.5 +	1.3	(39.8)	70	(10.2)	18	+	50.0	41	39	21
4132BL	50	4131L	74	7.0	8.8	0.1 +	0.1	(1.7)	65	(0.5)	18	+	2.2	41	39	21
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	39	44
4199	297	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
5010	759	3910S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0		1.8			
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	610	1975S	32	9.0	1.3	0.0 +	0.2	(3.2)	2	(0.1)	0		3.3			
5021BL	28	5020L	32	7.2	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2			
6010	97	715	17	18.0	3.9	0.0 +	0.1	(1.5)	0	(0.0)	0		1.5			
6011	144	1618	9	18.0	1.2	0.0 +	0.0	(0.7)	1	(0.0)	0		0.7			
6020	662	1800S	38	18.0	1.6	0.0 +	0.3	(4.2)	2	(0.3)	0		4.5			
6021BL	28	6020L	38	22.5	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	610	1975S	32	3.0	1.3	0.0 +	0.2	(3.2)	2	(0.2)	0		3.4			
6031BL	28	6030L	32	3.6	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2			
6098BL	28	6099L	10	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	754	8000S	10	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	49	56
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	36	43
-3460	10	10000	0	10.0	20.0	0.1 +	0.0	(0.8)	66	(0.0)	0		0.8	34	47	76
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	50	55
-4080	10	10000	0	10.0	14.3	0.0 +	0.0	(0.6)	56	(0.0)	0		0.6	40	40	78
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	67	78
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	63	70

*** 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)	
3473.2	174.8	19.9	45.0	34.0	(1122.5) +	(141.6) +	(0.0) =	1264.1	TOTALS
88.4	4.9	18.1	1.1	0.6	(23.0) +	(3.0) +	(0.0) =	25.9	BUSES
3384.8	169.9	19.9	44.0	33.5	(1099.5) +	(138.6) +	(0.0) =	1238.1	OTHER
									ROUTE
796.1	34.1	23.4	9.4	3.4	(182.4) +	(32.5) +	(0.0) =	214.9	1
670.0	24.0	27.9	2.7	2.6	(75.5) +	(12.9) +	(0.0) =	88.4	2

.

88 SECOND CYCLE 88 STEPS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	204.2	+	92.7	+	65.0	=	361.8

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 662

PROGRAM TRANSYT FINISHED

PRT

PRT File
Sat Peak : 2011 Flow + Committed + Full Dev

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
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 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_110FULL_DEV_SAT.DAT"   at 16:42   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                     =    5
  NUMBER OF LINKS                     =   86
  NUMBER OF OPTIMISED NODES           =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS     =    0
  NUMBER OF STEPS IN CYCLE            =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS     =    4
  MAXIMUM LINKS AT ANY NODE           =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1                7       7
  31)=  10       5                7       7
  32)=  10      34                6       3       5
  33)=  10      40                7       0       7       3
  34)=  10      41                7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1               15       5
  36)=  11       5               13       5
  37)=  11      34                8      10       9
  38)=  11      40               15       5       5       9
  39)=  11      41               11       6       5

                                 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				
40)=	12	1	1	27	15		
41)=	12	5	1	85	73		
42)=	12	34	1	32	86	11	
43)=	12	40	1	23	79	84	11
44)=	12	41	1	33	10	23	

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	0	4110	96	0	50	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	FIRST GREEN LAG	END STAGE	LAG	START STAGE	SECOND GREEN LAG	END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	699	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	3	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	8	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	11	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	11	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1148	0	4010	1064	8	4020	84	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1133	0	330	1123	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1148	0	110	1148	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	25	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	20	0	210	20	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1123	0	3430	801	7	3443	322	9	0	0	0	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1328	0	4120	92	7	4130	249	5	4131	987	5	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1374	0	4110	1309	8	4120	65	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1301	0	620	10	18	630	1298	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1374	0	510	1374	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1298	0	2030	1281	5	2041	17	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	699	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	162	0	130	162	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	971	0	130	971	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	200	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	52	0	1031	52	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	57	0	2011	57	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1374	0	610	1371	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1354	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1350	0	2011	1317	18	2040	33	18	0	0	0	0	0	0
177)=	32	2099	130	0	2010	57	18	2030	73	18	0	0	0	0	0	0
178)=	32	3410	138	0	210	138	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	1015	0	210	990	9	220	25	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1338	0	430	1328	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	375	0	5010	375	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	322	0	5010	322	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1268	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	337	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	162	0	1030	162	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	1119	0	1031	919	4	1040	200	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1372	0	4020	253	18	4031	1119	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	366	0	4010	204	18	4030	162	18	0	0	0	0	0	0
202)=	32	4110	1390	0	3411	1015	15	3442	375	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	157	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	314	0	530	314	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	987	0	530	987	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	148	0	4110	83	18	4130	65	18	0	0	0	0	0	0
210)=	32	5010	697	0	6010	171	3	6020	526	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	675	0	3410	138	9	3430	537	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	171	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	19	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	526	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	675	0	5020	675	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	694	0	6011	19	18	6030	675	18	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.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
230)=	41	1	Southbound
231)=	41	2	Northbound

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.
232)=	42	1	2030	530	4130	3430	1030	4031	4097						
233)=	42	2	210	3410	4110	2011	2098								

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

.

88 SECOND CYCLE 88 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	2	27	15								
5	2	85	73								
34	3	32	86	11							
40	4	23	79	84	11						
41	3	33	10	23							

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 DELAY (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)	START END 2ND (SECONDS)
110	1149	3940S	42	8.1	1.9	0.3 +	0.4	(8.8)	5	(0.9)	1		9.7	1	42	15
111BL	22	110L	42	8.8	1.1	0.0 +	0.0	(0.1)	1	(0.0)	1		0.1	1	42	15
130	1131	4030S	41	12.1	6.1	1.6 +	0.3	(27.3)	38	(6.9)	11		34.2	1	42	15
131BL	22	130L	41	12.8	2.6	0.0 +	0.0	(0.2)	7	(0.0)	11		0.2	1	42	15
210	1149	3940S	30	8.0	0.7	0.0 +	0.2	(2.9)	1	(0.1)	0	(0.0)*	3.1			
211BL	22	210L	30	8.4	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
220	25	715	5	18.0	4.4	0.0 +	0.0	(0.4)	7	(0.0)	0		0.5			
299	21	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
330	1121	4030S	28	7.6	0.6	0.0 +	0.2	(2.8)	1	(0.1)	0		2.9			
331BL	22	330L	28	7.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
340	10	715	2	18.0	4.0	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
399	9	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
430	1327	3960S	35	5.1	0.7	0.0 +	0.3	(3.6)	1	(0.1)	0		3.7			
431BL	50	430L	35	5.7	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
440	10	715	2	18.0	4.5	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
510	1375	3970S	49	8.1	5.6	1.7 +	0.5	(30.6)	40	(8.8)	14		39.4	5	10	73
511BL	50	510L	49	8.7	6.6	0.1 +	0.0	(1.3)	38	(0.3)	14		1.6	5	10	73
530	1300	3950S	47	6.1	6.1	1.8 +	0.4	(31.4)	41	(1.1)	14		32.5	5	10	73
531BL	50	530L	47	6.9	6.1	0.1 +	0.0	(1.2)	41	(0.3)	14		1.5	5	10	73
610	1375	2132S	67	7.0	6.9	1.7 +	1.0	(37.2)	76	(16.8)	19	+	54.1			
611BL	50	610L	67	7.5	4.4	0.0 +	0.0	(0.9)	51	(0.4)	19	+	1.2			
620	10	658	6	18.0	21.0	0.0 +	0.0	(0.8)	86	(0.2)	0		1.0			
630	1298	3995S	34	5.0	0.7	0.0 +	0.2	(3.5)	0	(0.0)	0		3.5			
631BL	50	630L	34	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
699	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
1030	161	1833	9	2.0	1.1	0.0 +	0.0	(0.7)	1	(0.0)	0		0.7			
1031	971	3960S	25	2.0	0.6	0.0 +	0.2	(2.3)	1	(0.1)	0	(0.0)*	2.4			
1032BL	22	1031L	25	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1040	200	715	29	20.0	3.7	0.0 +	0.2	(3.0)	0	(0.0)	0		3.0			
1099	52	8000	1	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	58	850	16	3.0	5.9	0.0 +	0.1	(1.4)	0	(0.0)	0	(0.0)*	1.4			
2011	1374	2055S	69	6.0	3.0	0.1 +	1.1	(16.4)	13	(2.8)	14	+	19.2			
2012BL	50	2011L	69	6.4	2.9	0.0 +	0.0	(0.6)	6	(0.0)	14	(0.1)*	11.0			
2030	1354	4033S	35	18.0	0.7	0.0 +	0.3	(3.7)	1	(0.2)	0		3.9			
2031BL	50	2030L	35	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	33	600	41	18.0	49.3	0.1 +	0.3	(6.4)	142	(1.0)	1		7.4			
2041	17	715	4	18.0	4.6	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	17	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1349	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.5			
2099	131	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
3410	138	1791	58	9.0	31.8	0.5 +	0.7	(17.3)	109	(2.3)	3		19.6	34	39	11
3411	1016	2430Sf	78	9.0	20.7	4.1 +	1.7	(82.8)	72	(11.1)	18	+	93.9	34	39	86
3412BL	22	3411L	78	38.8	30.7	0.1 +	0.0	(2.7)	98	(0.3)	18	+	3.0	34	39	86

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88 SECOND CYCLE 88 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 DELAY (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)	START END 2ND (SECONDS)
3430	1337	3704S	66	9.1	6.7	1.6 +	0.9	(35.2)	24	(5.2)	9		40.4	34	40	1
3431BL	50	3430L	66	9.8	4.7	0.0 +	0.0	(0.9)	19	(0.1)	9		1.1	34	40	1
3440BL	28	3442L	63	7.2	41.6	0.3 +	0.1	(4.6)	99	(0.4)	10		5.0	34	18	32
3442	375	3730S	63	7.0	41.6	3.5 +	0.8	(61.6)	99	(5.3)	10		66.9	34	18	32
3443	322	1641	69	7.0	40.4	2.5 +	1.1	(51.3)	100	(4.6)	8		55.9	34	8	32
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	37	86
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	20	32
4010	1268	3804S	71	18.0	21.6	6.4 +	1.2	(108.1)	79	(21.3)	26		129.4	40	38	79
4011BL	22	4010L	71	22.5	21.6	0.1 +	0.0	(1.9)	79	(0.2)	26		2.1	40	38	79
4020	337	3395f	79	18.0	57.2	3.5 +	1.9	(76.0)	116	(8.3)	10		84.3	40	1	11
4030	161	1833	74	4.0	59.5	1.3 +	1.3	(37.8)	124	(2.7)	5		40.5	40	38	86
4031	1118	3960S	54	4.0	12.6	3.3 +	0.6	(55.5)	39	(5.9)	11		61.4	40	38	84
4032BL	22	4031L	54	38.2	18.9	0.1 +	0.0	(1.6)	77	(0.0)	11	(0.0)*	1.7	40	38	84
4097	1371	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
4098BL	22	4097L	17	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	364	8000	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4			
4110	1391	3922S	59	15.5	6.6	1.8 +	0.7	(36.0)	44	(9.8)	19		45.7	41	44	10
4111BL	50	4110L	59	25.0	9.4	0.1 +	0.0	(1.8)	64	(0.5)	19		2.3	41	44	10
4120	157	3007f	57	18.0	53.4	1.7 +	0.7	(33.1)	109	(3.6)	4		36.7	41	16	23
4130	315	2018	70	7.0	40.2	2.4 +	1.1	(49.9)	106	(4.5)	8		54.4	41	44	12
4131	985	1905S	67	7.0	13.0	2.6 +	1.0	(50.5)	84	(11.1)	22	+	61.6	41	28	10
4132BL	50	4131L	67	7.0	13.1	0.1 +	0.0	(2.6)	86	(0.6)	22	+	3.2	41	28	10
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	28	33
4199	149	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	697	3910S	19	3.0	0.6	0.0 +	0.1	(1.6)	1	(0.1)	0		1.6			
5011BL	28	5010L	19	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	675	1975S	36	9.0	1.4	0.0 +	0.3	(3.8)	2	(0.1)	0		3.9			
5021BL	28	5020L	36	7.2	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	171	715	29	18.0	4.3	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
6011	19	1618	1	18.0	1.1	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6020	526	1800S	31	18.0	1.4	0.0 +	0.2	(3.0)	2	(0.2)	0		3.2			
6021BL	28	6020L	31	22.5	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	675	1975S	36	3.0	1.4	0.0 +	0.3	(3.8)	2	(0.2)	0		4.0			
6031BL	28	6030L	36	3.6	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	694	8000S	9	18.0	0.2	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	20	27
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	78	85
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	6	32
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	6	11
-4080	10	10000	0	10.0	16.1	0.0 +	0.0	(0.6)	59	(0.0)	0		0.6	40	84	31
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	20	31
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	16	23

*** 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)	
3305.4	157.5	21.0	44.6	21.3	(936.3) +	(139.0) +	(10.3) =	1085.6	TOTALS
88.4	4.8	18.4	1.1	0.4	(21.6) +	(3.2) +	(10.3) =	35.2	BUSES
3217.0	152.7	21.1	43.5	20.9	(914.7) +	(135.7) +	(0.0) =	1050.4	OTHER

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	195.2	+	77.6	+	63.8	=	336.6

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NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  613
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  616
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   19
NO. OF LINKS RECALCULATED=  854
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  655
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
```

```
    88.4          4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0        152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  697
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  657
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

  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)

  3305.4         157.5       21.0         44.6     21.3    ( 936.3) + (  139.0)  +  (  10.3)   =    1085.6      TOTALS
    88.4           4.8       18.4          1.1      0.4    (  21.6) + (    3.2)  +  (  10.3)   =      35.2      BUSES
  3217.0         152.7       21.1         43.5     20.9    ( 914.7) + (  135.7)  +  (   0.0)   =    1050.4      OTHER

NO. OF ENTRIES TO SUBPT  =   19
NO. OF LINKS RECALCULATED= 1171
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      27      15
    5       2      85      73
   34       3      32      86      11
   40       4      23      79      84      11
   41       3      33      10      23

 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)

  110    1149   3940S    42   8.1   1.9    0.3 +  0.4  (  8.8)     5  (  0.9)      1                9.7      1     42  15
  111BL    22    110L    42   8.8   1.1    0.0 +  0.0  (  0.1)     1  (  0.0)      1                0.1      1     42  15
  130    1131   4030S    41  12.1   6.1    1.6 +  0.3  ( 27.3)    38  (  6.9)     11               34.2      1     42  15
  131BL    22    130L    41  12.8   2.6    0.0 +  0.0  (  0.2)     7  (  0.0)     11                0.2      1     42  15
  210    1149   3940S    30   8.0   0.7    0.0 +  0.2  (  2.9)     1  (  0.1)      0  ( 0.0)*       3.1
  211BL    22    210L    30   8.4   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  220      25    715      5  18.0   4.4    0.0 +  0.0  (  0.4)     7  (  0.0)      0                0.5
  299      21   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  330    1121   4030S    28   7.6   0.6    0.0 +  0.2  (  2.8)     1  (  0.1)      0                2.9
  331BL    22    330L    28   7.4   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  340      10    715      2  18.0   4.0    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
  399       9   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  430    1327   3960S    35   5.1   0.7    0.0 +  0.3  (  3.6)     1  (  0.1)      0                3.7
  431BL    50    430L    35   5.7   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  440      10    715      2  18.0   4.5    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
  510    1375   3970S    49   8.1   5.6    1.7 +  0.5  ( 30.6)    40  (  8.8)     14               39.4      5     10  73
  511BL    50    510L    49   8.7   6.6    0.1 +  0.0  (  1.3)    38  (  0.3)     14                1.6      5     10  73
  530    1300   3950S    47   6.1   6.1    1.8 +  0.4  ( 31.4)    41  (  1.1)     14               32.5      5     10  73
  531BL    50    530L    47   6.9   6.1    0.1 +  0.0  (  1.2)    41  (  0.3)     14                1.5      5     10  73
  610    1375   2132S    67   7.0   6.9    1.7 +  1.0  ( 37.2)    76  ( 16.8)     19     +         54.1
  611BL    50    610L    67   7.5   4.4    0.0 +  0.0  (  0.9)    51  (  0.4)     19     +          1.2
  620      10    658      6  18.0  21.0    0.0 +  0.0  (  0.8)    86  (  0.2)      0                1.0
  630    1298   3995S    34   5.0   0.7    0.0 +  0.2  (  3.5)     0  (  0.0)      0                3.5
  631BL    50    630L    34   5.4   0.7    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
  699      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 1030     161   1833      9   2.0   1.1    0.0 +  0.0  (  0.7)     1  (  0.0)      0                0.7
 1031     971   3960S    25   2.0   0.6    0.0 +  0.2  (  2.3)     1  (  0.1)      0  ( 0.0)*       2.4
 1032BL    22   1031L    25   2.1   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 1040     200    715     29  20.0   3.7    0.0 +  0.2  (  3.0)     0  (  0.0)      0                3.0
 1099      52   8000      1  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      58    850     16   3.0   5.9    0.0 +  0.1  (  1.4)     0  (  0.0)      0  ( 0.0)*       1.4
 2011    1374   2055S    69   6.0   3.0    0.1 +  1.1  ( 16.4)    13  (  2.8)     14     +         19.2
 2012BL    50   2011L    69   6.4   2.9    0.0 +  0.0  (  0.6)     6  (  0.0)     14  ( 0.1)*       11.0
 2030    1354   4033S    35  18.0   0.7    0.0 +  0.3  (  3.7)     1  (  0.2)      0                3.9
 2031BL    50   2030L    35  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 2040      33    600     41  18.0  49.3    0.1 +  0.3  (  6.4)   142  (  1.0)      1                7.4
 2041      17    715      4  18.0   4.6    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 2097BL    50   2098L    17  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1349   8000S    17  18.0   0.3    0.0 +  0.1  (  1.5)     0  (  0.1)      0                1.5
 2099     131   8000      2  18.0   0.2    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 3410     138   1791     58   9.0  31.8    0.5 +  0.7  ( 17.3)   109  (  2.3)      3               19.6     34     39  11
 3411    1016   2430Sf   78   9.0  20.7    4.1 +  1.7  ( 82.8)    72  ( 11.1)     18     +         93.9     34     39  86
 3412BL    22   3411L    78  38.8  30.7    0.1 +  0.0  (  2.7)    98  (  0.3)     18     +          3.0     34     39  86
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     88 SECOND CYCLE  88 STEPS
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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)	DELAY RANDOM+ OVERSAT ($/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS (%)	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)
3430	1337	3704S	66	9.1	6.7	1.6 +	0.9	(35.2)	24	(5.2)	9		40.4	34	40	1
3431BL	50	3430L	66	9.8	4.7	0.0 +	0.0	(0.9)	19	(0.1)	9		1.1	34	40	1
3440BL	28	3442L	63	7.2	41.6	0.3 +	0.1	(4.6)	99	(0.4)	10		5.0	34	18	32
3442	375	3730S	63	7.0	41.6	3.5 +	0.8	(61.6)	99	(5.3)	10		66.9	34	18	32
3443	322	1641	69	7.0	40.4	2.5 +	1.1	(51.3)	100	(4.6)	8		55.9	34	8	32
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	37	86
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	20	32
4010	1268	3804S	71	18.0	21.6	6.4 +	1.2	(108.1)	79	(21.3)	26		129.4	40	38	79
4011BL	22	4010L	71	22.5	21.6	0.1 +	0.0	(1.9)	79	(0.2)	26		2.1	40	38	79
4020	337	3395f	79	18.0	57.2	3.5 +	1.9	(76.0)	116	(8.3)	10		84.3	40	1	11
4030	161	1833	74	4.0	59.5	1.3 +	1.3	(37.8)	124	(2.7)	5		40.5	40	38	86
4031	1118	3960S	54	4.0	12.6	3.3 +	0.6	(55.5)	39	(5.9)	11		61.4	40	38	84
4032BL	22	4031L	54	38.2	18.9	0.1 +	0.0	(1.6)	77	(0.0)	11	(0.0)*	1.7	40	38	84
4097	1371	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
4098BL	22	4097L	17	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	364	8000	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4			
4110	1391	3922S	59	15.5	6.6	1.8 +	0.7	(36.0)	44	(9.8)	19		45.7	41	44	10
4111BL	50	4110L	59	25.0	9.4	0.1 +	0.0	(1.8)	64	(0.5)	19		2.3	41	44	10
4120	157	3007f	57	18.0	53.4	1.7 +	0.7	(33.1)	109	(3.6)	4		36.7	41	16	23
4130	315	2018	70	7.0	40.2	2.4 +	1.1	(49.9)	106	(4.5)	8		54.4	41	44	12
4131	985	1905S	67	7.0	13.0	2.6 +	1.0	(50.5)	84	(11.1)	22	+	61.6	41	28	10
4132BL	50	4131L	67	7.0	13.1	0.1 +	0.0	(2.6)	86	(0.6)	22	+	3.2	41	28	10
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	28	33
4199	149	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	697	3910S	19	3.0	0.6	0.0 +	0.1	(1.6)	1	(0.1)	0		1.6			
5011BL	28	5010L	19	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	675	1975S	36	9.0	1.4	0.0 +	0.3	(3.8)	2	(0.1)	0		3.9			
5021BL	28	5020L	36	7.2	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	171	715	29	18.0	4.3	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
6011	19	1618	1	18.0	1.1	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6020	526	1800S	31	18.0	1.4	0.0 +	0.2	(3.0)	2	(0.2)	0		3.2			
6021BL	28	6020L	31	22.5	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	675	1975S	36	3.0	1.4	0.0 +	0.3	(3.8)	2	(0.2)	0		4.0			
6031BL	28	6030L	36	3.6	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	694	8000S	9	18.0	0.2	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	20	27
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	78	85
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	6	32
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	6	11
-4080	10	10000	0	10.0	16.1	0.0 +	0.0	(0.6)	59	(0.0)	0		0.6	40	84	31
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	20	31
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	16	23

*** 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)	
3305.4	157.5	21.0	44.6	21.3	(936.3) +	(139.0) +	(10.3) =	1085.6	TOTALS
88.4	4.8	18.4	1.1	0.4	(21.6) +	(3.2) +	(10.3) =	35.2	BUSES
3217.0	152.7	21.1	43.5	20.9	(914.7) +	(135.7) +	(0.0) =	1050.4	OTHER
									ROUTE
802.7	33.7	23.8	9.0	3.5	(177.8) +	(16.9) +	(0.0) =	194.8	1
644.9	23.2	27.8	2.4	2.8	(74.1) +	(15.1) +	(0.0) =	89.2	2

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	195.2	+	77.6	+	63.8	=	336.6

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 697

PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
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 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_BASE_AM_V3.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  14028 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
88)=	32	1010	814	0	4010	727	15	4021	87	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1006	0	3430	622	19	3443	384	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1017	0	4110	672	23	4121	345	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1319	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	986	0	2011	952	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	662	0	2030	643	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	672	0	1010	672	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	142	0	1010	142	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	622	0	4130	622	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	383	0	5010	383	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	384	0	5010	384	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	525	0	3411	142	18	3442	383	10	0	0	0	0	0	0
117)=	32	4010	727	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	154	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	479	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	87	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	211	0	1030	211	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	819	0	1030	775	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1376	0	4020	479	18	4030	78	18	4031	819	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	287	0	4012	154	18	4030	133	18	0	0	0	0	0	0
128)=	32	4110	672	0	7010	672	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	229	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	345	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	662	0	3010	662	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	269	0	4120	229	18	4130	40	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	767	0	6010	94	3	6020	673	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	94	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	731	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	673	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

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147)=  32    6099     731       0    6011     731      18       0       0       0       0       0       0       0       0       0
148)=  32    7010     672       0    3410     672       8       0       0       0       0       0       0       0       0       0
149)=  32    7011      50       0    3412      22    3200    3440      28    3200       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.
150)=  33    4110   2040       4       0       0       0       0
151)=  33    4130   1696       3       0       0       0       0

                                                GRAPH  PLOT  CARDS
CARD   CARD   LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO.   TYPE    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.
152)=  35    4031       0       0       0       0       0       0       0       0       0       0       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
153)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
159)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
160)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
161)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

                                                USER-DEFINED ROUTES

CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

162)=  41       1    Southbound
163)=  41       2    Northbound

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.

164)=  42       1    2030    3010    4130    3430    1030    4031    4097
165)=  42       2    4010    1010    3410    7010    4110    2011    2098

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

     75 SECOND CYCLE  75 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

   34       3      12      50      67
   40       2      26      67
   41       3       0      36      42

 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)

 1010     814   2055     40  15.0   1.4    0.0 +  0.3  (  4.7)     2  (  0.2)      0  ( 0.0)*       4.9
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1030    1007   2055     49  19.0   1.7    0.0 +  0.5  (  6.8)     2  (  0.3)      0  ( 0.0)*       7.1
 1031BL    22   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1040      44    715      9  20.0   4.0    0.0 +  0.0  (  0.7)     0  (  0.0)      0                0.7
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      65   1000     21   3.0   7.2    0.0 +  0.1  (  1.8)     0  (  0.0)      0  ( 0.0)*       1.8
 2011    1017   2115S    50  21.3   1.9    0.1 +  0.5  (  7.7)    12  (  2.6)      7  ( 0.0)*      10.3
 2012BL    50   2011L    50  29.3   2.1    0.0 +  0.0  (  0.4)    21  (  0.1)      7  ( 0.0)*       0.6
 2030    1319   3786S    36  18.0   0.7    0.0 +  0.3  (  3.9)     1  (  0.3)      0                4.2
 2031BL    50   2030L    36  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.2
 2040      34    600     30  18.0  24.5    0.0 +  0.2  (  3.3)    84  (  0.6)      0                3.9
 2041      19    715      5  18.0   4.6    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 2097BL    50   2098L    13  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098     986   8000S    13  18.0   0.3    0.0 +  0.1  (  1.0)     0  (  0.1)      0                1.1
 2099     740   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.1)      0                0.8
 3010     663   2075     32  17.0   1.3    0.0 +  0.2  (  3.3)     2  (  0.2)      0                3.6
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 3410     672   1910     85   6.0  49.5    6.5 +  2.7  (131.2)   116  ( 13.3)     16     +        144.5     34     20  50
 3411     142   1993S    20   6.0  27.9    1.0 +  0.1  ( 15.6)    96  (  2.3)      3               17.9     34     20  50
 3412BL    22   3411L    20  36.0  17.7    0.1 +  0.0  (  1.5)    79  (  0.0)      3                1.5     34     20  50
 3430     623   1972     72  11.0   9.1    0.3 +  1.3  ( 22.3)    55  (  6.5)     12               28.8     34     18  50
 3431BL    22   1915      3  12.9   2.4    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*       0.2     34     18  50
 3440BL    28   1665     14   9.0  40.0    0.2 +  0.1  (  4.4)   101  (  0.4)      1                4.8     34      4  12
 3442     384   1787     62   7.0  27.9    2.2 +  0.8  ( 42.3)    90  (  8.0)      7               50.3     34     62  12
 3443     384   1577     70   7.0  32.0    2.3 +  1.2  ( 48.5)    96  (  8.7)      8               57.1     34     62  12
 3450      50  10000      4  10.0  30.0    0.4 +  0.0  (  5.9)    88  (  0.0)      1                5.9     34     58  67
 3451      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     34     20  50
 3499     525   8000      7  12.2   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0                0.5
 4010     727   1949     76  18.0  22.9    3.1 +  1.5  ( 65.8)    86  ( 13.3)     14               79.1     40     31  67
 4011BL    22   4012L    21  22.5  13.4    0.1 +  0.0  (  1.2)    57  (  0.2)      2                1.3     40     31  67
 4012     154   1707S    21  18.0  13.4    0.5 +  0.1  (  8.2)    57  (  1.9)      2               10.0     40     31  67
 4020     479   1754     71  20.0  28.3    2.6 +  1.2  ( 53.5)    93  (  7.6)     10               61.1     40     73  26
 4021      87   1641     14  18.0  18.2    0.4 +  0.1  (  6.2)    66  (  1.2)      1                7.5     40     73  26
 4030     211   1774     79   5.0  50.5    1.2 +  1.8  ( 42.0)   130  (  3.9)      6               46.0     40     31  71
 4031     819   1907S    89   4.9  28.0    2.6 +  3.8  ( 90.4)    80  (  9.4)     16     +         99.8     40     31  67
 4032BL    22   4031L    89  39.8  39.1    0.1 +  0.1  (  3.4)   111  (  0.0)     16  ( 1.9)*     193.6     40     31  67
 4097    1376   8000S    17  18.0   0.3    0.0 +  0.1  (  1.5)     0  (  0.1)      0                1.6
 4098BL    22   4097L    17  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 4099     287   8000      4  18.0   0.2    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 4110     672   2383f    68   7.0  34.2    5.3 +  1.1  ( 90.8)    81  (  6.0)     11     +         96.7     41     12  42
 4111BL    50   2040      7  26.4  21.9    0.3 +  0.0  (  4.3)    60  (  0.0)      1                4.3     41     16  42
 4120     229   1959     38  20.0  25.3    1.3 +  0.3  ( 22.8)    82  (  3.2)      4               26.0     41     53   0
 4121     345   1773     63  18.0  31.4    2.1 +  0.9  ( 42.7)    94  (  6.9)      7               49.6     41     53   0
 4130     663   2488f    80   5.0  31.5    3.9 +  1.9  ( 82.4)    98  (  9.3)     14     +         91.7     41     12  36
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    50   1696     12  31.8  26.3    0.3 +  0.1  (  5.2)    82  (  0.0)      1                5.2     41     18  36
 4150      50  10000      2  10.0  19.0    0.3 +  0.0  (  3.7)    70  (  0.0)      1                3.7     41     53   0
 4151      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     41     12  42
 4198BL    28   4199L     4  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
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 4199     269   8000S     4  18.0   0.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.3
 5010     767   3929S    20   3.0   0.6    0.0 +  0.1  (  1.7)      1  (  0.1)       0                1.9
 5011BL    28   5010L    20   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010      94    715     17  18.0   3.9    0.0 +  0.1  (  1.4)      0  (  0.0)       0                1.4
 6011     731   1618S    47  18.0   2.1    0.0 +  0.4  (  6.0)      3  (  0.4)       0                6.5
 6012BL    28   6011L    47  22.5   2.1    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.2
 6020     673   1800S    39  18.0   1.6    0.0 +  0.3  (  4.3)      2  (  0.3)       0                4.7
 6021BL    28   6020L    39  22.5   1.6    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L     9  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     731   8000S     9  18.0   0.2    0.0 +  0.1  (  0.7)      0  (  0.1)       0                0.8
 7010     672   2055     33   8.0   1.3    0.0 +  0.2  (  3.5)      2  (  0.2)       0                3.6
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     10  10.0  55.0    0.1 +  0.1  (  2.2)    120  (  0.0)       0                2.2     41     39  42
                 *** f - average saturation flow for flared link ***

  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)

  3108.7         142.5       21.8         37.3     23.0    ( 856.2) + (  108.1)  +  ( 190.2)   =    1154.5      TOTALS
    96.7           5.9       16.3          1.1      0.4    (  21.9) + (    0.9)  +  ( 190.2)   =     213.0      BUSES
  3011.9         136.6       22.0         36.2     22.6    ( 834.2) + (  107.2)  +  (   0.0)   =     941.5      OTHER
-----------------------------------------------------------------------------------------------------------------------
                                                                                                                ROUTE
   970.7          40.7       23.9          6.7      8.1    ( 210.6) + (   26.2)  +  (   0.0)   =     236.8        1
   842.6          43.3       19.4         15.0      6.5    ( 304.5) + (   35.7)  +  (   0.0)   =     340.2        2


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

FUEL CONSUMPTION PREDICTIONS       176.7         +      69.6         +      49.5         =     295.8

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62

CYCLIC FLOW PROFILE GRAPHS

.
LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.44
     I
     I
     I
     I
 2000+
     I                                       ^^^^^^^^ ^^^^^^
     I                                ^^  ^^^^^^^^^^^^^^^^^^^
     I                                ^^^ ^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^
 1500+                                ^^^^^^^^^^^^^^^^^^^^^^^   @@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@
     I                                ^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@
     I                   111111       ^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@
 1000+                 111111111      ^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@
     I              1111111111111     ^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@1
     I             111111111111111    ^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I            1111111111111111111 ^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@111
     I            11111111111111111111^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@1111
  500+1          111111111111111111111@@^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11        1111111111111111111111@@@@^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11111    11111111111111111111111@@@@@@@@^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I111111111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I111111111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     +=========#=========#=========#=.........1.........1.........1........=#=====
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PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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                  program advice and maintenance, contact:

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            Nine Mile Ride         Email:  softwarebureau@trl.co.uk
            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:- "WEST HENDON A5_BASE_PM_V3.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13827 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
87)=	32	1010	859	0	4010	799	15	4021	60	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	875	0	3430	606	19	3443	269	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	151	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1025	0	4110	673	23	4121	352	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1045	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1014	0	2011	959	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	658	0	2030	627	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	673	0	1010	673	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	186	0	1010	186	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	606	0	4130	606	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	401	0	5010	401	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	269	0	5010	269	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	587	0	3411	186	18	3442	401	18	0	0	0	0	0	0
116)=	32	4010	799	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	378	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	219	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	60	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	236	0	1030	236	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	780	0	1030	629	5	1040	151	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1009	0	4020	219	18	4030	10	18	4031	780	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	604	0	4012	378	18	4030	226	18	0	0	0	0	0	0
127)=	32	4110	673	0	7010	673	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	217	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	352	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	658	0	3010	658	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	269	0	4120	217	18	4130	52	18	0	0	0	0	0	0
137)=	32	5010	670	0	6010	126	3	6020	544	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	126	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	620	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	544	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	620	0	6011	620	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	673	0	3410	673	8	0	0	0	0	0	0	0	0	0

147)=	32	7011	53	0	3412	25	3200	3440	28	3200	0	0	0	0	0	0

LINK CARDS : FLARE SATURATION FLOW DATA

	CARD TYPE	LINK NO.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.
			..LANE 1..		..LANE 2..		..LANE 3..	
148)=	33	4110	2040	4	0	0	0	0
149)=	33	4130	1696	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
150)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
151)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
152)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
153)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

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

.

75 SECOND CYCLE 75 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
34	3	40	5	21							
40	2	45	22								
41	2	0	40								

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND
1010	859	2055	42	15.0	1.5	0.0 +	0.4	(5.1)	2	(0.2)	0	(0.0)*	5.3			
1011BL	25	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	875	2055	43	19.0	1.5	0.0 +	0.4	(5.3)	2	(0.3)	0	(0.0)*	5.5			
1031BL	25	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	151	715	29	20.0	4.8	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	66	1000	15	3.0	4.6	0.0 +	0.1	(1.2)	0	(0.0)	0	(0.0)*	1.2			
2011	1025	2115S	51	21.3	2.3	0.2 +	0.5	(9.4)	25	(5.6)	12	(0.0)*	15.1			
2012BL	53	2011L	51	29.3	3.0	0.0 +	0.0	(0.6)	51	(0.4)	12	(0.0)*	1.0			
2030	1045	3786S	29	18.0	0.7	0.0 +	0.2	(2.8)	1	(0.2)	0		3.0			
2031BL	53	2030L	29	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	55	600	33	18.0	20.3	0.1 +	0.2	(4.4)	54	(0.6)	1		5.0			
2041	31	715	7	18.0	4.1	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
2097BL	53	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1015	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	484	8000	6	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
3010	658	2075	32	17.0	1.3	0.0 +	0.2	(3.3)	2	(0.2)	0		3.5			
3011BL	53	1945	3	20.8	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	673	1910	80	6.0	43.9	6.2 +	2.0	(116.5)	111	(12.7)	16	+	129.2	34	48	5
3411	186	1993S	24	6.0	27.2	1.3 +	0.1	(20.0)	97	(3.1)	4		23.0	34	48	5
3412BL	25	3411L	24	35.0	20.3	0.1 +	0.0	(2.0)	82	(0.0)	4		2.0	34	48	5
3430	605	1972	66	11.0	30.0	4.1 +	1.0	(71.6)	107	(12.4)	14		84.0	34	46	5
3431BL	25	1915	3	12.9	14.8	0.1 +	0.0	(1.5)	92	(0.3)	0	(0.0)*	1.8	34	46	5
3440BL	28	1665	16	9.0	42.5	0.2 +	0.1	(4.7)	104	(0.4)	1		5.1	34	33	40
3442	401	1787	70	7.0	32.7	2.5 +	1.2	(51.7)	97	(9.1)	8		60.9	34	17	40
3443	269	1577	53	19.0	28.6	1.6 +	0.6	(30.3)	91	(0.8)	5		31.1	34	17	40
3450	50	10000	4	10.0	31.0	0.4 +	0.0	(6.1)	90	(0.0)	1		6.1	34	13	21
3451	50	10000	1	10.0	12.5	0.2 +	0.0	(2.5)	56	(0.0)	1		2.5	34	48	5
3499	586	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4010	799	1949	81	18.0	24.8	3.4 +	2.1	(78.2)	91	(15.4)	16		93.6	40	60	22
4011BL	25	4012L	37	22.5	9.0	0.0 +	0.0	(0.9)	47	(0.2)	4		1.1	40	50	22
4012	378	1707S	37	18.0	9.0	0.7 +	0.3	(13.4)	47	(3.8)	4		17.2	40	50	22
4020	219	1754	52	20.0	33.6	1.5 +	0.5	(29.0)	96	(3.6)	4		32.6	40	28	45
4021	60	1641	15	18.0	27.9	0.4 +	0.1	(6.6)	83	(1.1)	1		7.7	40	28	45
4030	236	1774	64	5.0	27.3	0.9 +	0.9	(25.4)	109	(3.7)	4		29.1	40	50	23
4031	779	1907S	66	4.8	8.1	0.8 +	0.9	(24.8)	38	(4.3)	7		29.1	40	50	22
4032BL	25	4031L	66	23.8	7.3	0.0 +	0.0	(0.7)	21	(0.0)	7	(0.0)*	0.7	40	50	22
4097	1008	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
4098BL	25	4097L	13	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	604	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4110	673	2415f	72	8.0	24.0	3.2 +	1.3	(63.7)	109	(6.4)	15	+	70.1	41	12	40
4111BL	53	2040	8	31.4	18.4	0.2 +	0.0	(3.8)	84	(0.0)	1		3.9	41	16	40
4120	217	1959	33	20.0	22.9	1.1 +	0.2	(19.6)	78	(2.9)	4		22.5	41	51	0
4121	352	1773	60	18.0	28.3	2.0 +	0.7	(39.3)	90	(6.7)	7		46.0	41	51	0
4130	658	2428f	70	5.0	23.9	3.2 +	1.2	(62.1)	85	(7.9)	12	+	70.0	41	12	40

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75 SECOND CYCLE 75 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND
4131BL	53	1696	10	31.8	22.5	0.3 +	0.1	(4.7)	76	(0.0)	1		4.7	41	18	40
4150	50	10000	2	10.0	17.5	0.2 +	0.0	(3.5)	67	(0.0)	1		3.5	41	51	0
4151	50	10000	1	10.0	14.9	0.2 +	0.0	(2.9)	62	(0.0)	1		2.9	41	12	40
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	270	8000S	4	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.3			
5010	670	3929S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6010	126	715	21	18.0	3.9	0.0 +	0.1	(1.9)	0	(0.0)	0		1.9			
6011	620	1618S	40	18.0	1.9	0.0 +	0.3	(4.5)	2	(0.3)	0		4.9			
6012BL	28	6011L	40	22.5	1.9	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6020	544	1800S	32	18.0	1.5	0.0 +	0.2	(3.1)	2	(0.2)	0		3.4			
6021BL	28	6020L	32	22.5	1.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	8	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	620	8000S	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
7010	673	2055	33	8.0	1.3	0.0 +	0.2	(3.5)	2	(0.2)	0		3.6			
7011BL	53	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			

*** 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)	
2955.8	132.4	22.3	35.2	17.0	(741.2) +	(103.5) +	(0.0) =	844.8	TOTALS

```
   102.6          6.0       17.0          1.0      0.4    (  20.2) + (    1.4)  +  (   0.0)   =      21.7      BUSES
  2853.2        126.4       22.6         34.2     16.6    ( 721.0) + (  102.1)  +  (   0.0)   =     823.1      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                 ROUTE

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

FUEL CONSUMPTION PREDICTIONS       169.1         +      60.1         +      47.4         =     276.6

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

PROGRAM TRANSYT FINISHED
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PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ________________________________________________


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

Run with file:- "WEST HENDON A5_BASE_SAT V2.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13521 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34               7       1       5
  19)=  10      40               7       7
  20)=  10      41              12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34               8      12      12
  22)=  11      40               5       6
  23)=  11      41              12       0      11

                                 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
  24)=  12      34       1      12      45      58
  25)=  12      40       1      26       4
  26)=  12      41       1       0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	873	0	4010	803	15	4021	70	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	897	0	3430	566	19	3443	331	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1027	0	4110	623	23	4121	295	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1108	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	997	0	2011	972	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	595	0	2030	578	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	732	0	1010	732	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	141	0	1010	141	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	566	0	4130	368	11	4132	198	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	312	0	5010	312	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	331	0	5010	331	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	453	0	3411	141	18	3442	312	10	0	0	0	0	0	0
120)=	32	4010	803	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	186	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	235	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	70	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	148	0	1030	148	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	848	0	1030	739	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1083	0	4020	235	18	4031	848	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	334	0	4012	186	18	4030	148	18	0	0	0	0	0	0
131)=	32	4110	623	0	7010	623	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	181	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	295	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	368	0	3010	368	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	227	0	3010	227	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	210	0	4120	181	18	4132	29	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	643	0	6010	194	3	6020	449	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	194	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	552	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	449	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	552	0	6011	552	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	732	0	3410	732	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

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66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
1010	873	2055	42	15.0	1.5	0.0 +	0.4	(5.2)	2	(0.3)	0	(0.0)*	5.5			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	897	2055	44	19.0	1.6	0.0 +	0.4	(5.5)	2	(0.3)	0	(0.0)*	5.8			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	21	20.0	4.4	0.0 +	0.1	(1.9)	0	(0.0)	0		1.9			
1099	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	55	1000	13	3.0	5.0	0.0 +	0.1	(1.1)	0	(0.0)	0	(0.0)*	1.1			
2011	1026	2115S	51	21.6	1.7	0.0 +	0.5	(7.0)	3	(0.6)	1		7.6			
2012BL	50	2011L	51	68.5	1.7	0.0 +	0.0	(0.3)	3	(0.0)	1	(0.0)*	0.4			
2030	1108	3786S	31	18.0	0.7	0.0 +	0.2	(3.0)	1	(0.2)	0		3.2			
2031BL	50	2030L	31	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	33	600	23	18.0	17.0	0.0 +	0.2	(2.2)	33	(0.2)	0		2.4			
2041	17	715	4	18.0	4.1	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	996	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	585	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	595	2075	29	17.0	1.2	0.0 +	0.2	(2.9)	2	(0.2)	0		3.1			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	732	1910	97	6.0	72.5	5.5 +	9.3	(209.3)	158	(19.7)	23	+	229.0	34	20	45
3411	141	1993S	21	6.0	20.7	0.7 +	0.1	(11.5)	89	(2.2)	3		13.7	34	20	45
3412BL	22	3411L	21	36.0	13.6	0.1 +	0.0	(1.2)	67	(0.0)	3		1.2	34	20	45
3430	566	1972	68	11.0	8.4	0.3 +	1.0	(18.7)	57	(6.2)	10		24.9	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	313	1787	52	7.0	24.1	1.5 +	0.5	(29.7)	86	(6.3)	5		36.0	34	57	12
3443	331	1577	63	7.0	27.7	1.7 +	0.8	(36.1)	93	(7.2)	6		43.4	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	454	8000	6	12.5	0.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5			
4010	803	1949	68	18.0	13.4	1.9 +	1.1	(42.6)	69	(11.7)	11		54.3	40	31	4
4011BL	22	4012L	20	22.5	8.0	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	186	1707S	20	18.0	8.0	0.3 +	0.1	(5.9)	45	(1.8)	2		7.6	40	31	4
4020	235	1754	52	20.0	29.3	1.4 +	0.5	(27.1)	95	(3.8)	4		30.9	40	10	26
4021	70	1641	17	18.0	24.1	0.4 +	0.1	(6.7)	82	(1.2)	1		7.9	40	10	26
4030	147	1774	39	5.0	18.8	0.5 +	0.3	(10.9)	75	(1.6)	2		12.5	40	31	8
4031	848	1907S	75	4.9	12.4	1.4 +	1.5	(41.4)	52	(6.2)	9	+	47.6	40	31	4
4032BL	22	4031L	75	5.1	16.9	0.1 +	0.0	(1.5)	70	(0.2)	9	(0.0)*	3.9	40	31	4
4097	1083	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2			
4098BL	22	4097L	14	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	623	1919	67	7.0	28.0	3.8 +	1.0	(68.7)	77	(5.3)	9		74.0	41	12	43
4111BL	50	2040S	16	45.4	14.3	0.2 +	0.0	(2.8)	66	(0.0)	2		2.8	41	12	43
4120	181	1959	47	20.0	32.2	1.2 +	0.4	(23.0)	98	(3.0)	3		26.0	41	54	0
4121	295	1773	84	18.0	55.9	2.1 +	2.5	(65.1)	134	(8.4)	8		73.5	41	54	0
4130	368	2056	79	5.0	41.4	2.5 +	1.8	(60.2)	116	(6.1)	8		66.2	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
4131BL	50	1696S	72	31.8	39.8	0.3 +	0.2	(7.8)	114	(0.0)	6		7.9	41	12	26
4132	227	4131L	72	5.0	39.9	1.5 +	1.0	(35.7)	114	(3.7)	6		39.4	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	3	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	210	8000S	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	108	4111L	16	7.0	20.3	0.5 +	0.1	(8.7)	71	(0.9)	2		9.5	41	12	43
5010	643	3929S	17	3.0	0.6	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5			
5011BL	28	5010L	17	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

6010	194	715	32	18.0	4.3	0.0 +	0.2	(	3.3)	0	(	0.0)	0		3.3
6011	552	1618S	36	18.0	1.7	0.0 +	0.3	(	3.8)	3	(	0.3)	0		4.1
6012BL	24	6011L	36	22.5	1.7	0.0 +	0.0	(	0.2)	3	(	0.0)	0		0.2
6020	449	1800S	26	18.0	1.4	0.0 +	0.2	(	2.4)	2	(	0.2)	0		2.6
6021BL	28	6020L	26	22.5	1.4	0.0 +	0.0	(	0.2)	2	(	0.0)	0		0.2
6098BL	24	6099L	7	64.8	0.2	0.0 +	0.0	(	0.0)	0	(	0.0)	0		0.0
6099	552	8000S	7	18.0	0.2	0.0 +	0.0	(	0.5)	0	(	0.0)	0		0.6
7010	732	2055	36	8.0	1.4	0.0 +	0.3	(	3.9)	2	(	0.2)	0		4.1
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(	0.2)	1	(	0.0)	0		0.2

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)	
2791.9	130.3	21.4	29.0	26.2	(783.5) +	(	99.1)	+ (	2.2)	=	884.9	TOTALS
95.1	6.4	14.8	0.9	0.5	(19.5) +	(	0.9)	+ (	2.2)	=	22.6	BUSES
2696.7	123.8	21.8	28.2	25.7	(764.0) +	(	98.2)	+ (	0.0)	=	862.3	OTHER
												ROUTE
820.6	31.2	26.3	4.2	5.2	(132.7) +	(	19.3)	+ (	0.0)	=	152.1	1
875.7	46.6	18.8	11.2	12.6	(337.8) +	(	37.8)	+ (	0.0)	=	375.6	2

****

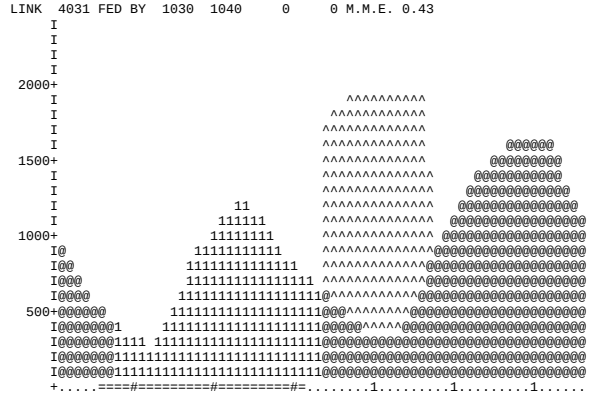
	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	159.0	+	63.5	+	45.8	=	268.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 63

CYCLIC FLOW PROFILE GRAPHS

.

LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.43



PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_BASELINE_AM.DAT"   at 16:43   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  14028 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                        NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                        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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                   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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                   LINK  CARDS:   FIXED  DATA
                                          FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
88)=	32	1010	976	0	4010	871	15	4021	105	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1156	0	3430	769	19	3443	387	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1170	0	4110	825	23	4121	345	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1466	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	1139	0	2011	1105	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	809	0	2030	790	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	825	0	1010	825	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	151	0	1010	151	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	769	0	4130	769	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	383	0	5010	383	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	387	0	5010	387	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	534	0	3411	151	18	3442	383	10	0	0	0	0	0	0
117)=	32	4010	871	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	158	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	493	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	105	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	217	0	1030	217	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	963	0	1030	919	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1534	0	4020	493	18	4030	78	18	4031	963	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	297	0	4012	158	18	4030	139	18	0	0	0	0	0	0
128)=	32	4110	825	0	7010	825	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	238	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	345	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	809	0	3010	809	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	278	0	4120	238	18	4130	40	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	770	0	6010	94	3	6020	676	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	94	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	736	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	676	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

```
147)=  32    6099     736       0    6011     736      18       0       0       0       0       0       0       0       0       0
148)=  32    7010     825       0    3410     825       8       0       0       0       0       0       0       0       0       0
149)=  32    7011      50       0    3412      22    3200    3440      28    3200       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.
150)=  33    4110   2040       4       0       0       0       0
151)=  33    4130   1696       3       0       0       0       0

                                                GRAPH  PLOT  CARDS
CARD   CARD   LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO.   TYPE    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.
152)=  35    4031       0       0       0       0       0       0       0       0       0       0       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
153)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
159)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
160)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
161)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

                                                USER-DEFINED ROUTES

CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

162)=  41       1    Southbound
163)=  41       2    Northbound

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.

164)=  42       1    2030    3010    4130    3430    1030    4031    4097
165)=  42       2    4010    1010    3410    7010    4110    2011    2098

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

     75 SECOND CYCLE  75 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

   34       3      12      50      67
   40       2      26      67
   41       3       0      36      42

 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)

 1010     976   2055     47  15.0   1.7    0.0 +  0.5  (  6.4)     2  (  0.3)      0  ( 0.0)*       6.7
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1030    1154   2055     56  19.0   2.0    0.0 +  0.6  (  9.1)     3  (  0.4)      1  ( 0.0)*       9.5
 1031BL    22   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1040      44    715     10  20.0   4.3    0.0 +  0.1  (  0.7)     0  (  0.0)      0                0.7
 1099       9   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      64   1000     26   3.0  10.0    0.0 +  0.2  (  2.5)     0  (  0.0)      0  ( 0.0)*       2.5
 2011    1134<  2115S     56  21.5   2.3    0.1 +  0.6  ( 10.2)    17  (  4.4)     10  ( 0.0)*      14.7
 2012BL    50   2011L     56  29.3   2.5    0.0 +  0.0  (  0.5)    28  (  0.2)     10  ( 0.0)*       0.7
 2030    1466   3786S     40  18.0   0.8    0.0 +  0.3  (  4.6)     1  (  0.3)      0                4.9
 2031BL    50   2030L     40  22.5   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 2040      34    600     44  18.0  50.1    0.1 +  0.4  (  6.7)   120  (  0.9)      1                7.6
 2041      19    715      5  18.0   5.0    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 2097BL    50   2098L     14  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1105<  8000S     14  18.0   0.3    0.0 +  0.1  (  1.1)     0  (  0.1)      0                1.2
 2099     741   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.1)      0                0.8
 3010     808   2075     39  17.0   1.4    0.0 +  0.3  (  4.5)     2  (  0.3)      0                4.8
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 3410     826   1910    105   6.0 150.6    8.5 + 26.1  (490.6)   202  ( 28.4)     43     +        519.0     34     20  50
 3411     150   1993S     21   6.0  26.5    1.0 +  0.1  ( 15.7)    95  (  2.5)      3               18.1     34     20  50
 3412BL    22   3411L     21  36.0  17.7    0.1 +  0.0  (  1.5)    79  (  0.0)      3                1.5     34     20  50
 3430     768   1972     88  11.0  19.4    0.6 +  3.6  ( 58.8)    78  ( 11.5)     18               70.3     34     18  50
 3431BL    22   1915      3  12.9   2.4    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*       0.2     34     18  50
 3440BL    28   1665     14   9.0  40.0    0.2 +  0.1  (  4.4)   101  (  0.4)      1                4.8     34      4  12
 3442     383   1787     62   7.0  28.0    2.2 +  0.8  ( 42.3)    90  (  8.0)      7               50.3     34     62  12
 3443     387   1577     71   7.0  32.2    2.3 +  1.2  ( 49.2)    97  (  8.8)      8               58.0     34     62  12
 3450      50  10000      4  10.0  30.0    0.4 +  0.0  (  5.9)    88  (  0.0)      1                5.9     34     58  67
 3451      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     34     20  50
 3499     534   8000      7  12.3   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0                0.5
 4010     871   1949     91  18.0  35.5    4.2 +  4.4  (122.1)   109  ( 20.2)     21              142.3     40     31  67
 4011BL    22   4012L     21  22.5  13.5    0.1 +  0.0  (  1.2)    57  (  0.2)      2                1.4     40     31  67
 4012     158   1707S     21  18.0  13.5    0.5 +  0.1  (  8.4)    57  (  1.9)      2               10.3     40     31  67
 4020     493   1754     73  20.0  29.2    2.7 +  1.3  ( 56.8)    94  (  7.9)     10               64.7     40     73  26
 4021     105   1641     17  18.0  18.5    0.4 +  0.1  (  7.7)    67  (  1.5)      2                9.2     40     73  26
 4030     217   1774    124   5.0 428.6    2.4 + 23.4  (366.8)   266  (  8.2)     29     +        375.1     40     31  71
 4031     960   1907S    104   5.0 123.2    4.3 + 28.5  (466.6)   191  ( 26.2)     50     +        492.8     40     31  67
 4032BL    22   4031L    104  39.8 132.3    0.2 +  0.7  ( 11.5)   197  (  0.0)     50  (30.9)*    3100.4     40     31  67
 4097    1475<  8000S     19  18.0   0.3    0.0 +  0.1  (  1.6)     0  (  0.1)      0                1.7
 4098BL    21   4097L     19  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 4099     270<  8000      3  18.0   0.2    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.3
 4110     789<  2383f     80   7.0  38.8    6.5 +  2.0  (120.6)    85  (  7.7)     15     +        128.3     41     12  42
 4111BL    50   2040      7  26.4  22.0    0.3 +  0.0  (  4.3)    60  (  0.0)      1                4.4     41     16  42
 4120     238   1959     40  20.0  25.5    1.4 +  0.3  ( 23.9)    83  (  3.4)      4               27.3     41     53   0
 4121     345   1773     63  18.0  31.4    2.1 +  0.9  ( 42.7)    94  (  6.9)      7               49.6     41     53   0
 4130     808   2488f     97   5.0  66.8    5.2 +  9.8  (213.0)   145  ( 16.7)     26     +        229.7     41     12  36
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    50   1696     12  31.8  26.3    0.3 +  0.1  (  5.2)    82  (  0.0)      1                5.2     41     18  36
 4150      50  10000      2  10.0  19.0    0.3 +  0.0  (  3.7)    70  (  0.0)      1                3.7     41     53   0
 4151      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     41     12  42
 4198BL    28   4199L      4  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
```

```
 4199     278   8000S     4  18.0   0.2    0.0 +  0.0  (  0.3)      0  (  0.0)       0                0.3
 5010     770   3929S    20   3.0   0.6    0.0 +  0.1  (  1.7)      1  (  0.1)       0                1.9
 5011BL    28   5010L    20   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010      94    715     17  18.0   3.9    0.0 +  0.1  (  1.4)      0  (  0.0)       0                1.4
 6011     736   1618S    47  18.0   2.1    0.0 +  0.4  (  6.1)      3  (  0.4)       0                6.5
 6012BL    28   6011L    47  22.5   2.1    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.2
 6020     676   1800S    39  18.0   1.6    0.0 +  0.3  (  4.4)      2  (  0.3)       0                4.7
 6021BL    28   6020L    39  22.5   1.6    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L    10  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     736   8000S    10  18.0   0.2    0.0 +  0.1  (  0.7)      0  (  0.1)       0                0.8
 7010     789<  2055     38   8.0   1.4    0.0 +  0.3  (  4.4)      2  (  0.2)       0                4.6
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     10  10.0  55.0    0.1 +  0.1  (  2.2)    120  (  0.0)       0                2.2     41     39  42
                 *** f - average saturation flow for flared link ***

  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)

  3420.4         245.5       13.9         46.6    108.3    (2198.9) + (  168.9)  +  (3088.9)   =    5456.7      TOTALS
    96.7           6.5       14.8          1.1      1.0    (  30.2) + (    0.9)  +  (3088.9)   =    3120.0      BUSES
  3323.6         238.9       13.9         45.4    107.3    (2168.8) + (  168.0)  +  (   0.0)   =    2336.7      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE
  1114.4          83.1       13.4         10.0     43.3    ( 758.2) + (   55.6)  +  (   0.0)   =     813.8         1
   992.2          79.1       12.5         19.3     33.9    ( 755.5) + (   61.4)  +  (   0.0)   =     816.9         2


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

FUEL CONSUMPTION PREDICTIONS       194.6         +     178.3         +      77.2         =     450.1

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62

CYCLIC FLOW PROFILE GRAPHS

.
LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.39
     I
     I
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     I
 2000+
     I                                ^^        ^^^^^^^^^ ^^^^^^^^^^^^^^^^^
     I                                ^^^^^^ ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@1
 1500+                                ^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@11
     I                                ^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@111
     I                                ^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@111
     I                    1111        ^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@1111
     I                  11111111      ^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
 1000+                11111111111     ^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1             11111111111111    ^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11           1111111111111111   ^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I111         111111111111111111  ^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1111       11111111111111111111@^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
  500+11111     1111111111111111111111@@^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
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PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_BASELINE_PM.DAT"   at 16:44   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13827 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
87)=	32	1010	1074	0	4010	1005	15	4021	69	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	1029	0	3430	743	19	3443	286	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	151	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1236	0	4110	884	23	4121	352	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1211	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1225	0	2011	1170	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	824	0	2030	793	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	884	0	1010	884	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	190	0	1010	190	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	743	0	4130	743	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	401	0	5010	401	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	286	0	5010	286	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	591	0	3411	190	18	3442	401	18	0	0	0	0	0	0
116)=	32	4010	1005	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	386	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	224	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	69	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	251	0	1030	251	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	919	0	1030	768	5	1040	151	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1153	0	4020	224	18	4030	10	18	4031	919	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	627	0	4012	386	18	4030	241	18	0	0	0	0	0	0
127)=	32	4110	884	0	7010	884	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	221	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	352	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	824	0	3010	824	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	302	0	4120	221	18	4130	81	18	0	0	0	0	0	0
137)=	32	5010	687	0	6010	126	3	6020	561	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	126	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	653	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	561	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	653	0	6011	653	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	884	0	3410	884	8	0	0	0	0	0	0	0	0	0

```
147)=  32    7011      53       0    3412      25    3200    3440      28    3200       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.
148)=  33    4110    2040       4       0       0       0       0
149)=  33    4130    1696       3       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
150)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
151)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
152)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
153)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

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

     75 SECOND CYCLE  75 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

   34       3      40       5      21
   40       2      45      22
   41       2       0      40

 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)

 1010    1056<  2055     51  15.0   1.8    0.0 +  0.5  (  7.5)     2  (  0.4)      1  ( 0.0)*      7.9
 1011BL    25   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1030    1028   2055     50  19.0   1.8    0.0 +  0.5  (  7.1)     2  (  0.3)      1  ( 0.0)*      7.4
 1031BL    25   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1040     151    715     31  20.0   5.3    0.0 +  0.2  (  3.2)     0  (  0.0)      0               3.2
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 2010      64   1000     17   3.0   6.0    0.0 +  0.1  (  1.5)     0  (  0.0)      0  ( 0.0)*      1.5
 2011    1192<  2115S    59  21.6   2.9    0.3 +  0.7  ( 13.5)    30  (  8.2)     16  ( 0.1)*     28.2
 2012BL    53   2011L    59  29.3   3.6    0.0 +  0.0  (  0.8)    57  (  0.4)     16  ( 0.1)*      7.6
 2030    1211   3786S    33  18.0   0.7    0.0 +  0.2  (  3.4)     1  (  0.2)      0               3.7
 2031BL    53   2030L    33  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0               0.2
 2040      55    600     49  18.0  40.3    0.2 +  0.5  (  8.7)   105  (  1.2)      1              10.0
 2041      31    715      7  18.0   4.4    0.0 +  0.0  (  0.5)     0  (  0.0)      0               0.5
 2097BL    53   2098L    15  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0               0.1
 2098    1183<  8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0               1.3
 2099     483   8000      6  18.0   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0               0.5
 3010     823   2075     40  17.0   1.4    0.0 +  0.3  (  4.7)     2  (  0.3)      0               5.0
 3011BL    53   1945      3  20.8   1.0    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
 3410     871<  1910    104   6.0 136.6    9.0 + 24.1  (469.4)   191  ( 28.8)     42     +       498.2     34     48   5
 3411     186   1993S    24   6.0  24.9    1.1 +  0.1  ( 18.3)    95  (  3.1)      4              21.3     34     48   5
 3412BL    25   3411L    24  35.0  20.0    0.1 +  0.0  (  2.0)    82  (  0.0)      4               2.0     34     48   5
 3430     742   1972     81  11.0  34.9    5.2 +  2.0  (102.1)   113  ( 16.0)     18             118.1     34     46   5
 3431BL    25   1915      3  12.9  14.8    0.1 +  0.0  (  1.5)    92  (  0.3)      0  ( 0.0)*      1.8     34     46   5
 3440BL    28   1665     16   9.0  42.5    0.2 +  0.1  (  4.7)   104  (  0.4)      1               5.1     34     33  40
 3442     401   1787     70   7.0  32.8    2.5 +  1.2  ( 51.9)    97  (  9.1)      8              61.0     34     17  40
 3443     286   1577     57  19.0  29.3    1.7 +  0.6  ( 33.1)    92  (  0.8)      6              33.9     34     17  40
 3450      50  10000      4  10.0  31.0    0.4 +  0.0  (  6.1)    90  (  0.0)      1               6.1     34     13  21
 3451      50  10000      1  10.0  12.5    0.2 +  0.0  (  2.5)    56  (  0.0)      1               2.5     34     48   5
 3499     587   8000      7  18.0   0.2    0.0 +  0.0  (  0.6)     0  (  0.0)      0               0.6
 4010    1005   1949    102  18.0  94.3    5.5 + 20.8  (373.8)   173  ( 36.9)     42     +       410.7     40     60  22
 4011BL    25   4012L    38  22.5   9.0    0.0 +  0.0  (  0.9)    47  (  0.2)      4               1.1     40     50  22
 4012     386   1707S    38  18.0   9.0    0.7 +  0.3  ( 13.8)    47  (  3.9)      4              17.6     40     50  22
 4020     224   1754     53  20.0  33.9    1.5 +  0.6  ( 30.0)    96  (  3.7)      5              33.7     40     28  45
 4021      69   1641     18  18.0  28.2    0.4 +  0.1  (  7.7)    84  (  1.2)      1               8.9     40     28  45
 4030     251   1774     92   5.0  88.1    2.1 +  4.1  ( 87.2)   162  (  5.8)      8     +        93.0     40     50  23
 4031     918   1907S    77   4.8  11.2    1.2 +  1.6  ( 40.4)    44  (  5.8)      9     +        46.2     40     50  22
 4032BL    25   4031L    77  23.8   9.6    0.0 +  0.0  (  0.9)    24  (  0.0)      9  ( 0.0)*      4.9     40     50  22
 4097    1152   8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0               1.3
 4098BL    25   4097L    15  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 4099     627   8000      8  18.0   0.2    0.0 +  0.0  (  0.6)     0  (  0.0)      0               0.6
 4110     840<  2415f    90   8.0  34.6    3.9 +  4.1  (114.5)   116  (  8.9)     22     +       123.5     41     12  40
 4111BL    53   2040      8  31.4  18.5    0.2 +  0.0  (  3.9)    84  (  0.0)      1               3.9     41     16  40
 4120     221   1959     34  20.0  23.0    1.2 +  0.3  ( 20.0)    78  (  2.9)      4              23.0     41     51   0
 4121     352   1773     60  18.0  28.3    2.0 +  0.7  ( 39.3)    90  (  6.7)      7              46.0     41     51   0
 4130     823   2428f    88   5.0  34.2    4.5 +  3.4  (110.9)   105  ( 12.4)     19     +       123.2     41     12  40
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    53   1696     10  31.8  22.5    0.3 +  0.1  (  4.7)    76  (  0.0)      1               4.7     41     18  40
 4150      50  10000      2  10.0  17.5    0.2 +  0.0  (  3.5)    67  (  0.0)      1               3.5     41     51   0
 4151      50  10000      1  10.0  14.9    0.2 +  0.0  (  2.9)    62  (  0.0)      1               2.9     41     12  40
 4198BL    28   4199L     4  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 4199     302   8000S     4  18.0   0.2    0.0 +  0.0  (  0.3)     0  (  0.0)      0               0.3
 5010     687   3929S    18   3.0   0.6    0.0 +  0.1  (  1.5)     1  (  0.1)      0               1.6
 5011BL    28   5010L    18   3.6   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0               0.1
 6010     126    715     22  18.0   3.9    0.0 +  0.1  (  1.9)     0  (  0.0)      0               1.9
 6011     653   1618S    42  18.0   1.9    0.0 +  0.3  (  4.9)     3  (  0.4)      0               5.3
 6012BL    28   6011L    42  22.5   1.9    0.0 +  0.0  (  0.2)     3  (  0.0)      0               0.2
 6020     561   1800S    33  18.0   1.5    0.0 +  0.2  (  3.3)     2  (  0.2)      0               3.5
 6021BL    28   6020L    33  22.5   1.5    0.0 +  0.0  (  0.2)     2  (  0.0)      0               0.2
 6098BL    28   6099L     9  64.8   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 6099     653   8000S     9  18.0   0.2    0.0 +  0.0  (  0.6)     0  (  0.0)      0               0.7
 7010     840<  2055     41   8.0   1.5    0.0 +  0.3  (  4.9)     2  (  0.2)      0               5.1
 7011BL    53   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
                 *** f - average saturation flow for flared link ***

  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)

  3347.5         204.9       16.3         44.9     69.1    (1619.6) + (  159.5)  +  (  16.8)   =    1795.9      TOTALS
```

```
   102.6          6.1       16.9          1.0      0.4    (  20.6) + (    1.5)  +  (  10.4)   =      32.4      BUSES
  3244.9        198.8       16.3         43.9     68.7    (1599.0) + (  158.0)  +  (   6.5)   =    1763.4      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                ROUTE

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

FUEL CONSUMPTION PREDICTIONS       191.6         +     131.2         +      72.9         =     395.7

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

PROGRAM TRANSYT FINISHED
```

PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ______________________________________________


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                  program advice and maintenance, contact:

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            Nine Mile Ride         Email:  softwarebureau@trl.co.uk
            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:- "WEST HENDON A5_BASELINE_SAT.DAT"   at 16:44   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13521 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34               7       1       5
  19)=  10      40               7       7
  20)=  10      41              12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34               8      12      12
  22)=  11      40               5       6
  23)=  11      41              12       0      11

                                 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
  24)=  12      34       1      12      45      58
  25)=  12      40       1      26       4
  26)=  12      41       1       0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	1078	0	4010	997	15	4021	81	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	1064	0	3430	730	19	3443	334	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1227	0	4110	823	23	4121	295	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1272	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	1205	0	2011	1172	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	759	0	2030	742	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	932	0	1010	932	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	150	0	1010	150	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	730	0	4130	532	11	4132	198	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	312	0	5010	312	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	334	0	5010	334	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	462	0	3411	150	18	3442	312	10	0	0	0	0	0	0
120)=	32	4010	997	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	191	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	242	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	81	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	159	0	1030	159	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	1004	0	1030	895	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1246	0	4020	242	18	4031	1004	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	350	0	4012	191	18	4030	159	18	0	0	0	0	0	0
131)=	32	4110	823	0	7010	823	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	181	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	295	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	532	0	3010	532	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	227	0	3010	227	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	210	0	4120	181	18	4132	29	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	646	0	6010	194	3	6020	452	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	194	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	561	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	452	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	561	0	6011	561	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	932	0	3410	932	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
1010	1078	2055	52	15.0	1.8	0.0 +	0.6	(7.8)	3	(0.4)	1	(0.0)*	8.3			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	1001<	2055	49	19.0	1.7	0.0 +	0.5	(6.7)	2	(0.4)	0	(0.0)*	7.1			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	22	20.0	4.7	0.0 +	0.1	(2.0)	0	(0.0)	0		2.0			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	46	1000	14	3.0	6.2	0.0 +	0.1	(1.1)	0	(0.0)	0	(0.0)*	1.1			
2011	1047<	2115S	52	21.8	1.8	0.0 +	0.5	(7.3)	2	(0.6)	1		7.9			
2012BL	50	2011L	52	68.5	1.8	0.0 +	0.0	(0.3)	3	(0.0)	1	(0.0)*	0.4			
2030	1272	3786S	35	18.0	0.7	0.0 +	0.3	(3.7)	1	(0.3)	0		4.0			
2031BL	50	2030L	35	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	33	600	32	18.0	26.9	0.0 +	0.2	(3.5)	91	(0.6)	0		4.1			
2041	17	715	4	18.0	4.4	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	14	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1034<	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.1			
2099	575	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	760	2075	37	17.0	1.4	0.0 +	0.3	(4.1)	2	(0.3)	0		4.4			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	931	1910	124	6.0	387.6	8.2 +	92.0	(999.9)	267	(42.5)	110	+	1465.8	34	20	45
3411	151	1993S	22	6.0	19.3	0.7 +	0.1	(11.5)	90	(2.3)	3		13.8	34	20	45
3412BL	22	3411L	22	36.0	13.5	0.1 +	0.0	(1.2)	67	(0.0)	3		1.2	34	20	45
3430	666<	1972	80	11.0	12.8	0.5 +	1.9	(33.6)	64	(8.9)	13		42.6	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	311	1787	52	7.0	24.1	1.5 +	0.5	(29.6)	86	(6.3)	5		35.9	34	57	12
3443	335	1577	64	7.0	27.9	1.7 +	0.9	(36.9)	94	(7.4)	6		44.3	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	462	8000	6	12.6	0.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5			
4010	997	1949	84	18.0	20.0	2.9 +	2.6	(78.6)	88	(18.6)	17		97.2	40	31	4
4011BL	22	4012L	21	22.5	8.1	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	191	1707S	21	18.0	8.1	0.3 +	0.1	(6.1)	45	(1.8)	2		7.9	40	31	4
4020	242	1754	54	20.0	29.6	1.4 +	0.6	(28.3)	95	(3.9)	4		32.2	40	10	26
4021	81	1641	19	18.0	24.4	0.4 +	0.1	(7.8)	83	(1.4)	1		9.2	40	10	26
4030	150	1774	59	5.0	33.9	0.7 +	0.7	(20.1)	111	(2.5)	3		22.6	40	31	8
4031	952<	1907S	84	4.9	16.0	1.7 +	2.5	(60.0)	54	(7.7)	11	+	67.7	40	31	4
4032BL	22	4031L	84	5.1	20.6	0.1 +	0.1	(1.8)	76	(0.2)	11	(0.4)*	41.3	40	31	4
4097	1194<	8000S	15	18.0	0.3	0.0 +	0.1	(1.2)	0	(0.1)	0		1.4			
4098BL	22	4097L	15	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	341	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	665<	1919	71	7.0	29.3	4.2 +	1.2	(76.9)	64	(5.8)	10		82.7	41	12	43
4111BL	50	2040S	14	45.4	13.9	0.2 +	0.0	(2.7)	65	(0.0)	2		2.8	41	12	43
4120	181	1959	47	20.0	32.2	1.2 +	0.4	(23.0)	98	(3.0)	3		26.0	41	54	0
4121	295	1773	84	18.0	55.9	2.1 +	2.5	(65.1)	134	(8.4)	8		73.5	41	54	0
4130	532	2056	114	5.0	274.9	4.6 +	36.0	(576.9)	256	(19.5)	46	+	596.3	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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 END	START 2ND END
															(SECONDS)	
4131BL	50	1696S	72	31.8	39.9	0.3 +	0.2	(7.9)	114	(0.0)	6		7.9	41	12	26
4132	228	4131L	72	5.0	39.9	1.5 +	1.0	(35.9)	114	(3.7)	6		39.6	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	3	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	210	8000S	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	87<	4111L	14	7.0	20.1	0.4 +	0.1	(6.9)	58	(0.7)	2		7.6	41	12	43
5010	646	3929S	17	3.0	0.6	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5			
5011BL	28	5010L	17	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

6010	194	715	32	18.0	4.3	0.0 +	0.2	(	3.3)	0	(	0.0)	0		3.3	
6011	561	1618S	36	18.0	1.7	0.0 +	0.3	(	3.9)	3	(	0.3)	0		4.2	
6012BL	24	6011L	36	22.5	1.7	0.0 +	0.0	(	0.2)	3	(	0.0)	0		0.2	
6020	452	1800S	27	18.0	1.4	0.0 +	0.2	(	2.4)	2	(	0.2)	0		2.6	
6021BL	28	6020L	27	22.5	1.4	0.0 +	0.0	(	0.2)	2	(	0.0)	0		0.2	
6098BL	24	6099L	7	64.8	0.2	0.0 +	0.0	(	0.0)	0	(	0.0)	0		0.0	
6099	561	8000S	7	18.0	0.2	0.0 +	0.0	(	0.5)	0	(	0.0)	0		0.6	
7010	752<	2055	37	8.0	1.4	0.0 +	0.3	(	4.1)	2	(	0.2)	0		4.3	
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(	0.2)	1	(	0.0)	0		0.2	

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)	
3161.9	268.9	11.8	35.9	148.0	(2610.9) +	(149.2)	+	(39.3)	=	2799.3	TOTALS	
95.1	6.5	14.7	0.9	0.5	(19.8) +	(0.9)	+	(39.3)	=	60.0	BUSES	
3066.8	262.4	11.7	35.0	147.4	(2591.1) +	(148.3)	+	(0.0)	=	2739.4	OTHER	
											ROUTE	
978.0	74.4	13.1	6.7	41.6	(686.2) +	(37.2)	+	(0.0)	=	723.4	1	
1073.1	140.8	7.6	15.3	97.3	(1599.0) +	(68.2)	+	(0.0)	=	1667.3	2	

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	180.1	+	211.5	+	68.6	=	460.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 63

CYCLIC FLOW PROFILE GRAPHS

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LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.39

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PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
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 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_DOMIN_AM.DAT"   at 16:44   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  14028 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
88)=	32	1010	1008	0	4010	903	15	4021	105	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1277	0	3430	769	19	3443	508	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1245	0	4110	825	23	4121	420	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1486	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	1214	0	2011	1180	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	829	0	2030	810	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	825	0	1010	825	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	183	0	1010	183	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	769	0	4130	769	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	422	0	5010	422	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	508	0	5010	508	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	605	0	3411	183	18	3442	422	10	0	0	0	0	0	0
117)=	32	4010	903	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	158	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	493	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	105	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	217	0	1030	217	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	1084	0	1030	1040	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1655	0	4020	493	18	4030	78	18	4031	1084	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	297	0	4012	158	18	4030	139	18	0	0	0	0	0	0
128)=	32	4110	825	0	7010	825	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	433	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	420	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	829	0	3010	829	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	493	0	4120	433	18	4130	60	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	930	0	6010	235	3	6020	695	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	235	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	808	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	695	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

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147)=  32    6099     808       0    6011     808      18       0       0       0       0       0       0       0       0       0
148)=  32    7010     825       0    3410     825       8       0       0       0       0       0       0       0       0       0
149)=  32    7011      50       0    3412      22    3200    3440      28    3200       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.
150)=  33    4110    2040       4       0       0       0       0
151)=  33    4130    1696       3       0       0       0       0

                                                GRAPH  PLOT  CARDS
CARD   CARD   LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO.   TYPE    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.
152)=  35    4031       0       0       0       0       0       0       0       0       0       0       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
153)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
159)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
160)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
161)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

                                                USER-DEFINED ROUTES

CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

162)=  41       1    Southbound
163)=  41       2    Northbound

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.

164)=  42       1    2030    3010    4130    3430    1030    4031    4097
165)=  42       2    4010    1010    3410    7010    4110    2011    2098

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

     75 SECOND CYCLE  75 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

   34       3      12      50      67
   40       2      26      67
   41       3       0      36      42

 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)

 1010    1008   2055     49  15.0   1.7    0.0 +  0.5  (  6.8)     2  (  0.3)      0  ( 0.0)*       7.2
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1030    1277   2055     62  19.0   2.3    0.0 +  0.8  ( 11.6)     3  (  0.6)      1  ( 0.0)*      12.2
 1031BL    22   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*       0.1
 1040      44    715     10  20.0   4.6    0.0 +  0.1  (  0.8)     0  (  0.0)      0                0.8
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      63   1000     27   3.0  10.6    0.0 +  0.2  (  2.6)     0  (  0.0)      0  ( 0.0)*       2.6
 2011    1209<  2115S    60  21.3   2.4    0.1 +  0.7  ( 11.6)    16  (  4.6)     10  ( 0.0)*      16.2
 2012BL    50   2011L    60  29.3   2.7    0.0 +  0.0  (  0.5)    29  (  0.2)     10  ( 0.0)*       0.7
 2030    1486   3786S    41  18.0   0.8    0.0 +  0.3  (  4.7)     1  (  0.3)      0                5.0
 2031BL    50   2030L    41  22.5   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 2040      34    600     53  18.0  69.6    0.1 +  0.5  (  9.3)   144  (  1.0)      1               10.4
 2041      19    715      5  18.0   5.0    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 2097BL    50   2098L    15  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1181<  8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0                1.3
 2099     738   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.1)      0                0.8
 3010     830   2075     40  17.0   1.4    0.0 +  0.3  (  4.7)     2  (  0.3)      0                5.1
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 3410     825   1910    104   6.0 148.3    8.4 + 25.6  (482.6)   201  ( 28.3)     43     +        510.8     34     20  50
 3411     183   1993S    25   6.0  26.9    1.2 +  0.1  ( 19.4)    98  (  3.0)      4                22.4     34     20  50
 3412BL    22   3411L    25  36.0  18.4    0.1 +  0.0  (  1.6)    82  (  0.0)      4                 1.6     34     20  50
 3430     770   1972     89  11.0  19.6    0.5 +  3.7  ( 59.6)    76  ( 11.1)     18                70.7     34     18  50
 3431BL    22   1915      3  12.9   2.4    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*       0.2     34     18  50
 3440BL    28   1665     14   9.0  40.0    0.2 +  0.1  (  4.4)   101  (  0.4)      1                 4.8     34      4  12
 3442     422   1787     68   7.0  30.0    2.5 +  1.1  ( 49.9)    93  (  9.2)      9                59.2     34     62  12
 3443     508   1577     93   7.0  60.2    3.3 +  5.2  (120.5)   135  ( 16.1)     15     +        136.6     34     62  12
 3450      50  10000      4  10.0  30.0    0.4 +  0.0  (  5.9)    88  (  0.0)      1                 5.9     34     58  67
 3451      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                 2.7     34     20  50
 3499     606   8000      8  12.4   0.2    0.0 +  0.0  (  0.6)     0  (  0.0)      0                 0.6
 4010     903   1949     94  18.0  43.2    4.5 +  6.3  (154.0)   120  ( 23.0)     24               177.0     40     31  67
 4011BL    22   4012L    21  22.5  13.5    0.1 +  0.0  (  1.2)    57  (  0.2)      2                 1.4     40     31  67
 4012     158   1707S    21  18.0  13.5    0.5 +  0.1  (  8.4)    57  (  1.9)      2                10.3     40     31  67
 4020     493   1754     73  20.0  29.2    2.7 +  1.3  ( 56.8)    94  (  7.9)     10                64.7     40     73  26
 4021     105   1641     17  18.0  18.5    0.4 +  0.1  (  7.7)    67  (  1.5)      2                 9.2     40     73  26
 4030     217   1774    141   5.0 603.4    3.0 + 33.4  (516.4)   266  (  8.2)     39     +        524.7     40     31  71
 4031    1084   1907S   118   5.0 302.7    7.1 + 84.0  (999.9)   254  ( 39.2)    112     +       1333.4     40     31  67
 4032BL    22   4031L   118  39.8 309.5    0.2 +  1.7  ( 26.9)   266  (  0.0)    112  (91.3)*    9156.1     40     31  67
 4097    1468<  8000S    19  18.0   0.3    0.0 +  0.1  (  1.6)     0  (  0.1)      0                 1.7
 4098BL    21   4097L    19  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0                 0.0
 4099     256<  8000      3  18.0   0.2    0.0 +  0.0  (  0.2)     0  (  0.0)      0                 0.3
 4110     789<  2383f     80   7.0  38.8    6.5 +  2.0  (120.6)    85  (  7.7)     15     +        128.3     41     12  42
 4111BL    50   2040      7  26.4  21.7    0.3 +  0.0  (  4.3)    60  (  0.0)      1                 4.3     41     16  42
 4120     433   1959     72  20.0  33.7    2.8 +  1.3  ( 57.6)    99  (  7.3)      9                64.9     41     53   0
 4121     420   1773     77  18.0  37.8    2.8 +  1.7  ( 62.6)   105  (  9.4)     10                72.0     41     53   0
 4130     830   2488f   100   5.0  86.8    5.4 + 14.6  (284.1)   165  ( 19.5)     32     +        303.6     41     12  36
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    50   1696     12  31.8  26.3    0.3 +  0.1  (  5.2)    82  (  0.0)      1                 5.2     41     18  36
 4150      50  10000      2  10.0  19.0    0.3 +  0.0  (  3.7)    70  (  0.0)      1                 3.7     41     53   0
 4151      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                 2.7     41     12  42
 4198BL    28   4199L      7  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                 0.0
```

```
 4199     493   8000S     7  18.0   0.2    0.0 +  0.0  (  0.5)      0  (  0.0)       0                0.5
 5010     930   3929S    24   3.0   0.6    0.0 +  0.2  (  2.2)      1  (  0.2)       0                2.4
 5011BL    28   5010L    24   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010     235    715     42  18.0   5.6    0.0 +  0.4  (  5.2)      0  (  0.0)       0                5.2
 6011     808   1618S    52  18.0   2.3    0.0 +  0.5  (  7.3)      3  (  0.5)       1                7.8
 6012BL    28   6011L    52  22.5   2.3    0.0 +  0.0  (  0.3)      3  (  0.0)       1                0.3
 6020     695   1800S    40  18.0   1.7    0.0 +  0.3  (  4.6)      2  (  0.3)       0                4.9
 6021BL    28   6020L    40  22.5   1.7    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L    10  64.8   0.3    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     808   8000S    10  18.0   0.3    0.0 +  0.1  (  0.8)      0  (  0.1)       0                0.9
 7010     789<  2055     38   8.0   1.4    0.0 +  0.3  (  4.4)      2  (  0.2)       0                4.6
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     10  10.0  55.0    0.1 +  0.1  (  2.2)    120  (  0.0)       0                2.2     41     39  42
                 *** f - average saturation flow for flared link ***

  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)

  3716.2         340.2       10.9         54.0    188.1    (3437.1) + (  203.3)  +  (9129.3)   =   12769.6      TOTALS
    96.7           7.6       12.7          1.2      2.1    (  45.6) + (    0.9)  +  (9129.3)   =    9175.8      BUSES
  3619.5         332.5       10.9         52.8    186.0    (3391.4) + (  202.3)  +  (   0.0)   =    3593.8      OTHER
-----------------------------------------------------------------------------------------------------------------------------
                                                                                                                   ROUTE
  1173.2         148.3        7.9         13.0    103.9    (1660.5) + (   71.2)  +  (   0.0)   =    1731.7         1
  1037.5          82.0       12.7         19.5     35.5    ( 781.3) + (   64.2)  +  (   0.0)   =     845.4         2


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

FUEL CONSUMPTION PREDICTIONS       211.2         +     278.6         +      92.8         =     582.7

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62

CYCLIC FLOW PROFILE GRAPHS

.
LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.31
     I
     I
     I
     I
 2000+
     I                                ^^^^^        ^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@11
 1500+                                ^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@11
     I                                ^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@111
     I                     11111111 ^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@1111
     I                  1111111111111^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@1111
     I                111111111111111@^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
 1000+1             1111111111111111@@^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1            111111111111111111@@@^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11          11111111111111111111@@@@^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I111        1111111111111111111111@@@@@@^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1111      111111111111111111111111@@@@@@@@^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
  500+11111    11111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1111111 1111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
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     +=========#=========#=========#=.........1.........1.........1........=#=====




PROGRAM TRANSYT FINISHED
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PRT

PRT File
PM Peak : 2011 Flow 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_DOMIN_PM.DAT"   at 16:44   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13827 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
87)=	32	1010	1142	0	4010	1073	15	4021	69	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	1066	0	3430	743	19	3443	323	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	151	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1283	0	4110	884	23	4121	399	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1298	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1272	0	2011	1217	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	911	0	2030	880	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	884	0	1010	884	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	258	0	1010	258	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	743	0	4130	743	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	527	0	5010	527	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	323	0	5010	323	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	785	0	3411	258	18	3442	527	18	0	0	0	0	0	0
116)=	32	4010	1073	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	386	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	224	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	69	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	251	0	1030	251	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	956	0	1030	805	5	1040	151	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1190	0	4020	224	18	4030	10	18	4031	956	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	627	0	4012	386	18	4030	241	18	0	0	0	0	0	0
127)=	32	4110	884	0	7010	884	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	278	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	399	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	911	0	3010	911	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	446	0	4120	278	18	4130	168	18	0	0	0	0	0	0
137)=	32	5010	850	0	6010	249	3	6020	600	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	249	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	674	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	600	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	674	0	6011	674	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	884	0	3410	884	8	0	0	0	0	0	0	0	0	0

```
147)=  32    7011      53       0    3412      25    3200    3440      28    3200       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.
148)=  33    4110    2040       4       0       0       0       0
149)=  33    4130    1696       3       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
150)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
151)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
152)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
153)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

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

     75 SECOND CYCLE  75 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

   34       3      40       5      21
   40       2      45      22
   41       2       0      40

 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)

 1010    1056<  2055     51  15.0   1.8    0.0 +  0.5  (  7.5)     2  (  0.4)      1  ( 0.0)*      7.9
 1011BL    25   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1030    1067   2055     52  19.0   1.8    0.0 +  0.5  (  7.7)     2  (  0.4)      1  ( 0.0)*      8.0
 1031BL    25   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1040     151    715     31  20.0   5.5    0.0 +  0.2  (  3.3)     0  (  0.0)      0               3.3
 1099      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 2010      63   1000     19   3.0   6.9    0.0 +  0.1  (  1.7)     0  (  0.0)      0  ( 0.0)*      1.7
 2011    1217<  2115S    60  21.4   2.9    0.3 +  0.7  ( 13.8)    28  (  7.9)     15  ( 0.0)*     25.3
 2012BL    53   2011L    60  29.3   3.6    0.0 +  0.0  (  0.8)    56  (  0.4)     15  ( 0.0)*      4.7
 2030    1298   3786S    36  18.0   0.7    0.0 +  0.3  (  3.8)     1  (  0.3)      0               4.1
 2031BL    53   2030L    36  22.5   0.7    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
 2040      55    600     57  18.0  52.9    0.2 +  0.6  ( 11.5)   124  (  1.4)      2              12.9
 2041      31    715      7  18.0   4.7    0.0 +  0.0  (  0.6)     0  (  0.0)      0               0.6
 2097BL    53   2098L    16  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0               0.1
 2098    1208<  8000S    16  18.0   0.3    0.0 +  0.1  (  1.3)     0  (  0.1)      0               1.4
 2099     481   8000      6  18.0   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0               0.5
 3010     911   2075     44  17.0   1.5    0.0 +  0.4  (  5.6)     2  (  0.4)      0               5.9
 3011BL    53   1945      3  20.8   1.0    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
 3410     818<  1910     97   6.0  76.4    7.6 +  9.7  (246.5)   137  ( 20.6)     26     +       267.2     34     48   5
 3411     239<  1993S    30   6.0  26.0    1.5 +  0.2  ( 24.5)    91  (  4.0)      5              28.5     34     48   5
 3412BL    25   3411L    30  35.0  21.1    0.1 +  0.0  (  2.1)    85  (  0.0)      5               2.1     34     48   5
 3430     743   1972     81  11.0  33.6    4.9 +  2.1  ( 98.6)   113  ( 16.0)     18             114.6     34     46   5
 3431BL    25   1915      3  12.9  14.8    0.1 +  0.0  (  1.5)    92  (  0.3)      0  ( 0.0)*      1.8     34     46   5
 3440BL    28   1665     16   9.0  42.5    0.2 +  0.1  (  4.7)   104  (  0.4)      1               5.1     34     33  40
 3442     528   1787     92   7.0  57.9    3.6 +  4.9  (120.6)   132  ( 16.4)     15     +       136.9     34     17  40
 3443     323   1577     64  19.0  31.7    2.0 +  0.9  ( 40.4)    97  (  1.0)      7              41.4     34     17  40
 3450      50  10000      4  10.0  31.0    0.4 +  0.0  (  6.1)    90  (  0.0)      1               6.1     34     13  21
 3451      50  10000      1  10.0  12.5    0.2 +  0.0  (  2.5)    56  (  0.0)      1               2.5     34     48   5
 3499     766<  8000     10  18.0   0.2    0.0 +  0.1  (  0.8)     0  (  0.1)      0               0.8
 4010    1073   1949    109  18.0 186.1    7.2 + 48.3  (787.7)   224  ( 50.9)     72     +       838.6     40     60  22
 4011BL    25   4012L    38  22.5   9.0    0.0 +  0.0  (  0.9)    47  (  0.2)      4               1.1     40     50  22
 4012     386   1707S    38  18.0   9.0    0.7 +  0.3  ( 13.8)    47  (  3.9)      4              17.6     40     50  22
 4020     224   1754     53  20.0  33.9    1.5 +  0.6  ( 30.0)    96  (  3.7)      5              33.7     40     28  45
 4021      69   1641     18  18.0  28.2    0.4 +  0.1  (  7.7)    84  (  1.2)      1               8.9     40     28  45
 4030     252   1774     92   5.0  88.6    2.0 +  4.2  ( 88.0)   163  (  5.8)      9     +         93.9     40     50  23
 4031     957   1907S    80   4.8  12.4    1.3 +  2.0  ( 46.6)    47  (  6.5)     10     +         53.1     40     50  22
 4032BL    25   4031L    80  23.8  10.6    0.0 +  0.1  (  1.0)    25  (  0.0)     10  ( 0.2)*      17.4     40     50  22
 4097    1192   8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0               1.3
 4098BL    25   4097L    15  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 4099     628   8000      8  18.0   0.2    0.0 +  0.0  (  0.6)     0  (  0.0)      0               0.6
 4110     818<  2415f    88   8.0  31.5    3.8 +  3.3  (101.8)   110  (  8.4)     20     +       110.2     41     12  40
 4111BL    53   2040      8  31.4  18.3    0.2 +  0.0  (  3.8)    83  (  0.0)      1               3.8     41     16  40
 4120     278   1959     43  20.0  24.2    1.5 +  0.4  ( 26.6)    81  (  3.9)      5              30.4     41     51   0
 4121     399   1773     68  18.0  30.8    2.4 +  1.0  ( 48.5)    95  (  8.0)      8              56.4     41     51   0
 4130     911   2428f    97   5.0  58.9    5.3 +  9.6  (211.7)   138  ( 18.0)     28     +       229.7     41     12  40
.

     75 SECOND CYCLE  75 STEPS

 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)

 4131BL    53   1696     10  31.8  22.5    0.3 +  0.1  (  4.7)    76  (  0.0)      1               4.7     41     18  40
 4150      50  10000      2  10.0  17.5    0.2 +  0.0  (  3.5)    67  (  0.0)      1               3.5     41     51   0
 4151      50  10000      1  10.0  14.9    0.2 +  0.0  (  2.9)    62  (  0.0)      1               2.9     41     12  40
 4198BL    28   4199L     6  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 4199     446   8000S     6  18.0   0.2    0.0 +  0.0  (  0.4)     0  (  0.0)      0               0.5
 5010     851   3929S    22   3.0   0.6    0.0 +  0.1  (  2.0)     1  (  0.1)      0               2.1
 5011BL    28   5010L    22   3.6   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0               0.1
 6010     249    715     43  18.0   5.5    0.0 +  0.4  (  5.4)     0  (  0.0)      0               5.4
 6011     674   1618S    43  18.0   2.0    0.0 +  0.4  (  5.2)     3  (  0.4)      0               5.6
 6012BL    28   6011L    43  22.5   2.0    0.0 +  0.0  (  0.2)     3  (  0.0)      0               0.2
 6020     600   1800S    35  18.0   1.5    0.0 +  0.3  (  3.6)     2  (  0.3)      0               3.9
 6021BL    28   6020L    35  22.5   1.5    0.0 +  0.0  (  0.2)     2  (  0.0)      0               0.2
 6098BL    28   6099L     9  64.8   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 6099     674   8000S     9  18.0   0.2    0.0 +  0.0  (  0.7)     0  (  0.0)      0               0.7
 7010     818<  2055     40   8.0   1.5    0.0 +  0.3  (  4.7)     2  (  0.2)      0               4.9
 7011BL    53   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
                 *** f - average saturation flow for flared link ***

  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)

  3596.2         238.8       15.1         48.3     93.3    (2010.3) + (  181.8)  +  (  23.5)   =    2215.6      TOTALS
```

```
   102.6          6.1       16.8          1.0      0.4    (  20.8) + (    1.5)  +  (  19.9)   =      42.2      BUSES
  3493.6        232.7       15.0         47.2     92.9    (1989.5) + (  180.3)  +  (   3.6)   =    2173.4      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                ROUTE

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

FUEL CONSUMPTION PREDICTIONS       205.7         +     162.9         +      83.1         =     451.6

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

PROGRAM TRANSYT FINISHED
```

PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ______________________________________________


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 ---------------------------------------------------------------------------
 THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS
 IN NO WAY RELIEVED OF THEIR RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION
 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_DOMIN_SAT.DAT"   at 16:44   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13521 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET.......................      SECOND SET.......................       THIRD SET.......................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34               7       1       5
  19)=  10      40               7       7
  20)=  10      41              12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34               8      12      12
  22)=  11      40               5       6
  23)=  11      41              12       0      11

                                 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
  24)=  12      34       1      12      45      58
  25)=  12      40       1      26       4
  26)=  12      41       1       0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	1078	0	4010	1045	15	4021	81	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	1112	0	3430	730	19	3443	382	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1271	0	4110	823	23	4121	339	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1316	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	1249	0	2011	1216	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	803	0	2030	786	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	932	0	1010	932	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	198	0	1010	198	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	730	0	4130	532	11	4132	198	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	384	0	5010	384	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	382	0	5010	382	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	582	0	3411	198	18	3442	384	10	0	0	0	0	0	0
120)=	32	4010	1045	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	191	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	242	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	81	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	159	0	1030	159	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	1052	0	1030	943	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1294	0	4020	242	18	4031	1052	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	350	0	4012	191	18	4030	159	18	0	0	0	0	0	0
131)=	32	4110	823	0	7010	823	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	266	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	339	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	532	0	3010	532	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	272	0	3010	271	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	340	0	4120	266	18	4132	74	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	766	0	6010	286	3	6020	480	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	286	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	590	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	480	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	590	0	6011	590	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	932	0	3410	932	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) ($/H)	COST OF DELAY	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST END	START 2ND END
															(SECONDS)	
1010	1079	2055	52	15.0	1.8	0.0 +	0.6	(7.8)	3	(0.4)	1	(0.0)*	8.3			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	1047<	2055	51	19.0	1.8	0.0 +	0.5	(7.4)	3	(0.4)	1	(0.0)*	7.8			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	22	20.0	4.8	0.0 +	0.1	(2.1)	0	(0.0)	0		2.1			
1099	8	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	48	1000	15	3.0	6.7	0.0 +	0.1	(1.3)	0	(0.0)	0	(0.0)*	1.3			
2011	1091<	2115S	54	21.7	1.8	0.0 +	0.6	(7.9)	2	(0.7)	1		8.6			
2012BL	50	2011L	54	68.5	1.8	0.0 +	0.0	(0.4)	3	(0.0)	1	(0.0)*	0.4			
2030	1316	3786S	36	18.0	0.7	0.0 +	0.3	(3.9)	1	(0.3)	0		4.2			
2031BL	50	2030L	36	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	33	600	37	18.0	34.5	0.0 +	0.3	(4.5)	112	(0.8)	0		5.3			
2041	17	715	4	18.0	4.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	14	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1076<	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2			
2099	577	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	804	2075	39	17.0	1.4	0.0 +	0.3	(4.5)	2	(0.4)	0		4.9			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	932	1910	124	6.0	388.0	8.1 +	92.3	(999.9)	267	(42.5)	110	+	1468.8	34	20	45
3411	198	1993S	28	6.0	19.8	0.9 +	0.2	(15.4)	92	(3.1)	4		18.5	34	20	45
3412BL	22	3411L	28	36.0	14.3	0.1 +	0.0	(1.2)	71	(0.0)	4		1.3	34	20	45
3430	665<	1972	80	11.0	12.6	0.4 +	1.9	(33.1)	62	(8.6)	12		41.8	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	385	1787	65	7.0	27.1	2.0 +	0.9	(41.2)	93	(8.4)	7		49.5	34	57	12
3443	381	1577	73	7.0	31.6	2.1 +	1.3	(47.6)	101	(9.0)	7		56.6	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	583	8000	7	12.7	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4010	1045	1949	88	18.0	23.6	3.2 +	3.6	(97.2)	96	(21.3)	20		118.5	40	31	4
4011BL	22	4012L	21	22.5	8.1	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	191	1707S	21	18.0	8.1	0.3 +	0.1	(6.1)	45	(1.8)	2		7.9	40	31	4
4020	242	1754	54	20.0	29.6	1.4 +	0.6	(28.3)	95	(3.9)	4		32.2	40	10	26
4021	81	1641	19	18.0	24.4	0.4 +	0.1	(7.8)	83	(1.4)	1		9.2	40	10	26
4030	149	1774	66	5.0	43.2	0.8 +	1.0	(25.4)	120	(2.7)	4		28.1	40	31	8
4031	996<	1907S	88	4.9	19.4	1.9 +	3.5	(76.1)	64	(9.6)	14	+	85.7	40	31	4
4032BL	22	4031L	88	5.1	24.2	0.1 +	0.1	(2.1)	84	(0.3)	14	(1.2)*	121.9	40	31	4
4097	1238<	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	340	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	665<	1919	71	7.0	29.3	4.2 +	1.2	(76.9)	64	(5.8)	10		82.7	41	12	43
4111BL	50	2040S	14	45.4	13.8	0.2 +	0.0	(2.7)	65	(0.0)	2		2.7	41	12	43
4120	266	1959	69	20.0	39.4	1.8 +	1.1	(41.3)	111	(5.0)	6		46.4	41	54	0
4121	339	1773	97	18.0	100.6	2.5 +	7.0	(134.6)	182	(13.0)	13		147.6	41	54	0
4130	532	2056	114	5.0	275.8	4.6 +	36.2	(578.8)	257	(19.5)	46	+	598.3	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) ($/H)	COST OF DELAY	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST END	START 2ND END
															(SECONDS)	
4131BL	50	1696S	83	31.8	50.6	0.3 +	0.4	(10.0)	130	(0.0)	8	+	10.0	41	12	26
4132	272	4131L	83	5.0	50.6	1.8 +	2.0	(54.3)	130	(5.0)	8	+	59.3	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	340	8000S	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4200	87<	4111L	14	7.0	20.1	0.4 +	0.1	(6.9)	58	(0.7)	2		7.6	41	12	43
5010	766	3929S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0		1.9			
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

6010	286	715	47	18.0	5.7	0.0 +	0.4	(	6.4)	0	(	0.0)	0		6.4
6011	590	1618S	38	18.0	1.8	0.0 +	0.3	(	4.2)	3	(	0.3)	0		4.5
6012BL	24	6011L	38	22.5	1.8	0.0 +	0.0	(	0.2)	3	(	0.0)	0		0.2
6020	480	1800S	28	18.0	1.4	0.0 +	0.2	(	2.6)	2	(	0.2)	0		2.9
6021BL	28	6020L	28	22.5	1.4	0.0 +	0.0	(	0.2)	2	(	0.0)	0		0.2
6098BL	24	6099L	8	64.8	0.2	0.0 +	0.0	(	0.0)	0	(	0.0)	0		0.0
6099	590	8000S	8	18.0	0.2	0.0 +	0.0	(	0.6)	0	(	0.0)	0		0.6
7010	752<	2055	37	8.0	1.4	0.0 +	0.3	(	4.1)	2	(	0.2)	0		4.3
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(	0.2)	1	(	0.0)	0		0.2

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)	
3358.4	286.8	11.7	38.8	158.2	(2797.6) +	(	166.7)	+	(119.5)	=	3083.9	TOTALS
95.1	6.6	14.3	0.9	0.7	(22.3) +	(	1.0)	+	(119.5)	=	142.7	BUSES
3263.2	280.2	11.6	38.0	157.5	(2775.4) +	(	165.8)	+	(0.0)	=	2941.1	OTHER
												ROUTE
1014.8	76.8	13.2	6.9	42.7	(705.1) +	(	38.8)	+	(0.0)	=	743.9	1
1103.0	143.0	7.7	15.5	98.7	(1621.4) +	(	71.0)	+	(0.0)	=	1692.4	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	191.1	+	226.6	+	76.6	=	494.4

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 63

CYCLIC FLOW PROFILE GRAPHS

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LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.36

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 2000+
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 1500+@                              ^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@
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PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow + Committed + Full Dev 0800-0900

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_FULL_DEV_AM.DAT"   at 16:46   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   86
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    4
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1                7       7
  31)=  10       5                7       7
  32)=  10      34                6       3       5
  33)=  10      40                7       0       7       3
  34)=  10      41                7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1               15       5
  36)=  11       5               13       5
  37)=  11      34                8      10       9
  38)=  11      40               15       5       5       9
  39)=  11      41               11       6       5

                                 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				
40)=	12	1	1	29	15		
41)=	12	5	1	82	70		
42)=	12	34	1	21	75	0	
43)=	12	40	1	25	71	76	13
44)=	12	41	1	31	0	21	

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	0	4110	96	0	50	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	FIRST GREEN END STAGE	END LAG	START STAGE	START LAG	SECOND GREEN END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	699	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	3	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	8	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	11	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	11	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1082	0	4010	974	8	4020	108	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1295	0	330	1285	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1082	0	110	1082	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	51	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	37	0	210	37	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1285	0	3430	942	7	3442	50	9	3443	293	9	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1616	0	4120	281	7	4130	249	5	4131	1086	5	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1416	0	4110	1315	8	4120	101	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1391	0	620	10	18	630	1388	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1416	0	510	1416	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1388	0	2030	1370	5	2041	18	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	699	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	144	0	130	144	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	1151	0	130	1151	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	54	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	10	0	1031	10	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	74	0	2011	74	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1416	0	610	1413	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1549	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	36	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	18	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1378	0	2011	1342	18	2040	36	18	0	0	0	0	0	0
177)=	32	2099	253	0	2010	74	18	2030	179	18	0	0	0	0	0	0
178)=	32	3410	159	0	210	159	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	937	0	210	886	9	220	51	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1626	0	430	1616	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	502	0	5010	502	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	293	0	5010	293	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1163	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	627	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	144	0	1030	144	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	1205	0	1031	1151	4	1040	54	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1724	0	4020	519	18	4031	1205	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	333	0	4010	189	18	4030	144	18	0	0	0	0	0	0
202)=	32	4110	1389	0	3411	937	15	3442	452	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	382	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	305	0	530	305	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	1086	0	530	1086	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	130	0	4110	74	18	4130	56	18	0	0	0	0	0	0
210)=	32	5010	795	0	6010	35	3	6020	760	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	843	0	3410	159	9	3430	684	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	35	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	74	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	760	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	843	0	5020	843	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	917	0	6011	74	18	6030	843	18	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.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
230)=	41	1	Southbound
231)=	41	2	Northbound

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.
232)=	42	1	2030	530	4130	3430	1030	4031	4097						
233)=	42	2	210	3410	4110	2011	2098								

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

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88 SECOND CYCLE 88 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	2	29	15								
5	2	82	70								
34	3	21	75	0							
40	4	25	71	76	13						
41	3	31	0	21							

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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
110	1082	3940S	41	8.2	1.8	0.2 +	0.3	(7.6)	4	(0.7)	1		8.3	1	44	15
111BL	22	110L	41	8.8	1.1	0.0 +	0.0	(0.1)	1	(0.0)	1		0.1	1	44	15
130	1294	4030S	48	12.0	6.4	1.9 +	0.5	(32.8)	33	(6.8)	11		39.6	1	44	15
131BL	22	130L	48	12.8	1.6	0.0 +	0.0	(0.1)	11	(0.0)	11		0.2	1	44	15
210	1082	3940S	28	8.0	0.6	0.0 +	0.2	(2.7)	1	(0.1)	0	(0.0)*	2.8			
211BL	22	210L	28	8.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
220	51	715	11	18.0	5.2	0.0 +	0.1	(1.0)	20	(0.2)	0		1.3			
299	37	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
330	1284	4030S	32	7.5	0.7	0.0 +	0.2	(3.3)	1	(0.1)	0		3.5			
331BL	22	330L	32	7.4	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
340	10	715	2	18.0	4.3	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
399	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
430	1614	3960S	42	5.3	0.8	0.0 +	0.4	(5.0)	1	(0.1)	0		5.1			
431BL	50	430L	42	5.7	0.8	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
440	10	715	3	18.0	5.5	0.0 +	0.0	(0.2)	6	(0.0)	0		0.2			
510	1414	3970S	51	8.1	7.1	2.3 +	0.5	(39.8)	35	(7.9)	13		47.8	5	7	70
511BL	50	510L	51	8.7	8.0	0.1 +	0.0	(1.6)	38	(0.3)	13		1.8	5	7	70
530	1389	3950S	50	6.1	6.4	2.0 +	0.5	(34.9)	42	(1.2)	15		36.0	5	7	70
531BL	50	530L	50	6.9	6.4	0.1 +	0.0	(1.3)	43	(0.3)	15		1.6	5	7	70
610	1414	2132S	69	7.0	7.4	1.9 +	1.1	(41.4)	76	(17.3)	21	+	58.7			
611BL	50	610L	69	7.5	5.0	0.0 +	0.0	(1.0)	60	(0.4)	21	+	1.4			
620	10	658	7	18.0	23.2	0.0 +	0.0	(0.9)	90	(0.2)	0		1.1			
630	1387	3995S	36	5.0	0.7	0.0 +	0.3	(3.9)	0	(0.0)	0		3.9			
631BL	50	630L	36	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
699	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
1030	145	1833	8	2.0	1.1	0.0 +	0.0	(0.6)	1	(0.0)	0		0.6			
1031	1150	3960S	30	2.0	0.6	0.0 +	0.2	(2.9)	1	(0.1)	0	(0.0)*	3.1			
1032BL	22	1031L	30	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1040	54	715	8	20.0	2.9	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
1099	9	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	73	850	25	3.0	8.3	0.0 +	0.2	(2.4)	0	(0.0)	0	(0.0)*	2.4			
2011	1413	2055S	71	6.0	3.2	0.1 +	1.2	(18.1)	14	(3.3)	16	+	21.4			
2012BL	50	2011L	71	6.4	3.1	0.0 +	0.0	(0.6)	7	(0.1)	16	(0.3)*	32.5			
2030	1549	4033S	40	18.0	0.7	0.0 +	0.3	(4.5)	1	(0.3)	0		4.8			
2031BL	50	2030L	40	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	36	600	59	18.0	83.8	0.1 +	0.7	(11.9)	191	(1.5)	1		13.4			
2041	18	715	5	18.0	5.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4			
2097BL	50	2098L	18	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1376	8000S	18	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
2099	253	8000	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
3410	158	1791	68	9.0	35.8	0.6 +	1.0	(22.3)	102	(2.5)	4		24.8	34	28	0
3411	936	2430Sf	72	9.1	27.6	5.9 +	1.3	(102.0)	75	(10.6)	17	+	112.7	34	28	75
3412BL	22	3411L	72	38.8	28.9	0.1 +	0.0	(2.5)	98	(0.3)	17	+	2.8	34	28	75

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88 SECOND CYCLE 88 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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND (SECONDS)
3430	1624	3704S	80	9.1	19.9	7.1 +	1.9	(127.3)	72	(19.0)	31	+	146.3	34	29	78
3431BL	50	3430L	80	9.8	14.7	0.1 +	0.1	(2.9)	60	(0.4)	31	+	3.3	34	29	78
3440BL	28	3442L	83	7.2	51.7	0.3 +	0.1	(5.7)	112	(0.4)	15		6.2	34	7	21
3442	502	3730S	83	7.0	51.7	4.9 +	2.3	(102.3)	112	(8.0)	15		110.4	34	7	21
3443	293	1641	63	7.0	37.7	2.2 +	0.8	(43.5)	96	(4.0)	7		47.5	34	85	21
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	26	75
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	9	21
4010	1163	3804S	86	18.0	34.7	8.4 +	2.8	(159.2)	99	(24.4)	30		183.6	40	40	71
4011BL	22	4010L	86	22.5	34.7	0.2 +	0.1	(3.0)	99	(0.3)	30		3.3	40	40	71
4020	627	2782f	94	18.0	67.7	5.5 +	6.3	(167.4)	130	(17.3)	21		184.7	40	81	13
4030	145	1833	84	4.0	85.0	1.2 +	2.2	(48.6)	148	(2.9)	6		51.5	40	40	78
4031	1204	3960S	74	4.0	19.8	5.3 +	1.4	(93.9)	43	(7.0)	14	+	100.9	40	40	76
4032BL	22	4031L	74	38.2	29.1	0.2 +	0.0	(2.5)	89	(0.0)	14	(0.0)*	3.7	40	40	76
4097	1723	8000S	22	18.0	0.3	0.0 +	0.1	(2.0)	0	(0.1)	0		2.1			
4098BL	22	4097L	22	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	1389	3922S	69	15.7	14.6	4.6 +	1.1	(79.8)	84	(18.8)	30		98.5	41	42	0
4111BL	50	4110L	69	25.0	16.0	0.2 +	0.0	(3.1)	73	(0.5)	30		3.7	41	42	0
4120	382	2332f	90	18.0	69.9	3.6 +	3.8	(105.3)	131	(10.6)	13		115.9	41	6	21
4130	306	2018	73	7.0	50.9	3.0 +	1.3	(61.4)	117	(4.8)	9		66.2	41	42	2
4131	1083	1905S	83	7.0	19.7	3.6 +	2.3	(84.1)	101	(14.8)	29	+	98.8	41	26	0
4132BL	50	4131L	83	7.0	19.8	0.2 +	0.1	(3.9)	104	(0.7)	29	+	4.6	41	26	0
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26	31
4199	131	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	795	3910S	21	3.0	0.6	0.0 +	0.1	(1.8)	1	(0.1)	0		1.9			
5011BL	28	5010L	21	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	840	1975S	44	9.0	1.6	0.0 +	0.4	(5.4)	2	(0.1)	0		5.5			
5021BL	28	5020L	44	7.2	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	35	715	6	18.0	3.6	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
6011	74	1618	5	18.0	1.2	0.0 +	0.0	(0.3)	1	(0.0)	0		0.4			
6020	760	1800S	44	18.0	1.8	0.0 +	0.4	(5.3)	2	(0.3)	0		5.7			
6021BL	28	6020L	44	22.5	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	840	1975S	44	3.0	1.6	0.0 +	0.4	(5.4)	2	(0.3)	0		5.7			
6031BL	28	6030L	44	3.6	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	12	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	914	8000S	12	18.0	0.3	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0			
-180	50	10000	4	10.0	36.7	0.5 +	0.0	(7.2)	90	(0.0)	1		7.2	1	20	29
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	75	82
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	83	21
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	83	0
-4080	10	10000	0	10.0	10.6	0.0 +	0.0	(0.4)	48	(0.0)	0		0.4	40	76	33
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	22	33
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	18	25

*** 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)	
3672.9	205.8	17.8	66.8	37.6	(1482.5) +	(189.6) +	(33.1) =	1705.1	TOTALS
88.4	5.4	16.5	1.4	0.7	(29.7) +	(3.9) +	(33.1) =	66.7	BUSES
3584.5	200.5	17.9	65.3	37.0	(1452.8) +	(185.7) +	(0.0) =	1638.4	OTHER

.

88 SECOND CYCLE 88 STEPS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	216.4	+	121.8	+	86.9	=	425.1

```
NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  554
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  565
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   23
NO. OF LINKS RECALCULATED=  919
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  631
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
```

```
    88.4          5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5        200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  668
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  626
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

  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)

  3672.9         205.8       17.8         66.8     37.6    (1482.5) + (  189.6)  +  (  33.1)   =    1705.1      TOTALS
    88.4           5.4       16.5          1.4      0.7    (  29.7) + (    3.9)  +  (  33.1)   =      66.7      BUSES
  3584.5         200.5       17.9         65.3     37.0    (1452.8) + (  185.7)  +  (   0.0)   =    1638.4      OTHER

NO. OF ENTRIES TO SUBPT  =   23
NO. OF LINKS RECALCULATED= 1287
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      29      15
    5       2      82      70
   34       3      21      75       0
   40       4      25      71      76      13
   41       3      31       0      21

 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)

  110    1082   3940S    41   8.2   1.8    0.2 +  0.3  (  7.6)     4  (  0.7)      1                8.3      1     44  15
  111BL    22    110L    41   8.8   1.1    0.0 +  0.0  (  0.1)     1  (  0.0)      1                0.1      1     44  15
  130    1294   4030S    48  12.0   6.4    1.9 +  0.5  ( 32.8)    33  (  6.8)     11               39.6      1     44  15
  131BL    22    130L    48  12.8   1.6    0.0 +  0.0  (  0.1)    11  (  0.0)     11                0.2      1     44  15
  210    1082   3940S    28   8.0   0.6    0.0 +  0.2  (  2.7)     1  (  0.1)      0  ( 0.0)*       2.8
  211BL    22    210L    28   8.4   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  220      51    715    11  18.0   5.2    0.0 +  0.1  (  1.0)    20  (  0.2)      0                1.3
  299      37   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  330    1284   4030S    32   7.5   0.7    0.0 +  0.2  (  3.3)     1  (  0.1)      0                3.5
  331BL    22    330L    32   7.4   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  340      10    715     2  18.0   4.3    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
  399      10   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  430    1614   3960S    42   5.3   0.8    0.0 +  0.4  (  5.0)     1  (  0.1)      0                5.1
  431BL    50    430L    42   5.7   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
  440      10    715     3  18.0   5.5    0.0 +  0.0  (  0.2)     6  (  0.0)      0                0.2
  510    1414   3970S    51   8.1   7.1    2.3 +  0.5  ( 39.8)    35  (  7.9)     13               47.8      5      7  70
  511BL    50    510L    51   8.7   8.0    0.1 +  0.0  (  1.6)    38  (  0.3)     13                1.8      5      7  70
  530    1389   3950S    50   6.1   6.4    2.0 +  0.5  ( 34.9)    42  (  1.2)     15               36.0      5      7  70
  531BL    50    530L    50   6.9   6.4    0.1 +  0.0  (  1.3)    43  (  0.3)     15                1.6      5      7  70
  610    1414   2132S    69   7.0   7.4    1.9 +  1.1  ( 41.4)    76  ( 17.3)     21     +         58.7
  611BL    50    610L    69   7.5   5.0    0.0 +  0.0  (  1.0)    60  (  0.4)     21     +          1.4
  620      10    658      7  18.0  23.2    0.0 +  0.0  (  0.9)    90  (  0.2)      0                1.1
  630    1387   3995S    36   5.0   0.7    0.0 +  0.3  (  3.9)     0  (  0.0)      0                3.9
  631BL    50    630L    36   5.4   0.7    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
  699      11   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 1030     145   1833     8   2.0   1.1    0.0 +  0.0  (  0.6)     1  (  0.0)      0                0.6
 1031    1150   3960S    30   2.0   0.6    0.0 +  0.2  (  2.9)     1  (  0.1)      0  ( 0.0)*       3.1
 1032BL    22   1031L    30   2.1   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 1040      54    715     8  20.0   2.9    0.0 +  0.0  (  0.6)     0  (  0.0)      0                0.6
 1099       9   8000     0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      73    850    25   3.0   8.3    0.0 +  0.2  (  2.4)     0  (  0.0)      0  ( 0.0)*       2.4
 2011    1413   2055S    71   6.0   3.2    0.1 +  1.2  ( 18.1)    14  (  3.3)     16     +         21.4
 2012BL    50   2011L    71   6.4   3.1    0.0 +  0.0  (  0.6)     7  (  0.1)     16  ( 0.3)*       32.5
 2030    1549   4033S    40  18.0   0.7    0.0 +  0.3  (  4.5)     1  (  0.3)      0                4.8
 2031BL    50   2030L    40  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.2
 2040      36    600    59  18.0  83.8    0.1 +  0.7  ( 11.9)   191  (  1.5)      1               13.4
 2041      18    715     5  18.0   5.2    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 2097BL    50   2098L    18  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1376   8000S    18  18.0   0.3    0.0 +  0.1  (  1.5)     0  (  0.1)      0                1.6
 2099     253   8000     3  18.0   0.2    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
 3410     158   1791    68   9.0  35.8    0.6 +  1.0  ( 22.3)   102  (  2.5)      4               24.8     34     28   0
 3411     936   2430Sf   72   9.1  27.6    5.9 +  1.3  (102.0)    75  ( 10.6)     17     +        112.7     34     28  75
 3412BL    22   3411L    72  38.8  28.9    0.1 +  0.0  (  2.5)    98  (  0.3)     17     +          2.8     34     28  75
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     88 SECOND CYCLE  88 STEPS
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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 ($/H)	STOPS MEAN STOPS (%)	STOPS COST OF STOPS ($/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)
3430	1624	3704S	80	9.1	19.9	7.1 +	1.9	(127.3)	72	(19.0)	31	+	146.3	34	29		78	
3431BL	50	3430L	80	9.8	14.7	0.1 +	0.1	(2.9)	60	(0.4)	31	+	3.3	34	29		78	
3440BL	28	3442L	83	7.2	51.7	0.3 +	0.1	(5.7)	112	(0.4)	15		6.2	34	7		21	
3442	502	3730S	83	7.0	51.7	4.9 +	2.3	(102.3)	112	(8.0)	15		110.4	34	7		21	
3443	293	1641	63	7.0	37.7	2.2 +	0.8	(43.5)	96	(4.0)	7		47.5	34	85		21	
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	26		75	
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	9		21	
4010	1163	3804S	86	18.0	34.7	8.4 +	2.8	(159.2)	99	(24.4)	30		183.6	40	40		71	
4011BL	22	4010L	86	22.5	34.7	0.2 +	0.1	(3.0)	99	(0.3)	30		3.3	40	40		71	
4020	627	2782f	94	18.0	67.7	5.5 +	6.3	(167.4)	130	(17.3)	21		184.7	40	81		13	
4030	145	1833	84	4.0	85.0	1.2 +	2.2	(48.6)	148	(2.9)	6		51.5	40	40		78	
4031	1204	3960S	74	4.0	19.8	5.3 +	1.4	(93.9)	43	(7.0)	14	+	100.9	40	40		76	
4032BL	22	4031L	74	38.2	29.1	0.2 +	0.0	(2.5)	89	(0.0)	14	(0.0)*	3.7	40	40		76	
4097	1723	8000S	22	18.0	0.3	0.0 +	0.1	(2.0)	0	(0.1)	0		2.1					
4098BL	22	4097L	22	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
4110	1389	3922S	69	15.7	14.6	4.6 +	1.1	(79.8)	84	(18.8)	30		98.5	41	42		0	
4111BL	50	4110L	69	25.0	16.0	0.2 +	0.0	(3.1)	73	(0.5)	30		3.7	41	42		0	
4120	382	2332f	90	18.0	69.9	3.6 +	3.8	(105.3)	131	(10.6)	13		115.9	41	6		21	
4130	306	2018	73	7.0	50.9	3.0 +	1.3	(61.4)	117	(4.8)	9		66.2	41	42		2	
4131	1083	1905S	83	7.0	19.7	3.6 +	2.3	(84.1)	101	(14.8)	29	+	98.8	41	26		0	
4132BL	50	4131L	83	7.0	19.8	0.2 +	0.1	(3.9)	104	(0.7)	29	+	4.6	41	26		0	
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26		31	
4199	131	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
5010	795	3910S	21	3.0	0.6	0.0 +	0.1	(1.8)	1	(0.1)	0		1.9					
5011BL	28	5010L	21	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
5020	840	1975S	44	9.0	1.6	0.0 +	0.4	(5.4)	2	(0.1)	0		5.5					
5021BL	28	5020L	44	7.2	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6010	35	715	6	18.0	3.6	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
6011	74	1618	5	18.0	1.2	0.0 +	0.0	(0.3)	1	(0.0)	0		0.4					
6020	760	1800S	44	18.0	1.8	0.0 +	0.4	(5.3)	2	(0.3)	0		5.7					
6021BL	28	6020L	44	22.5	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6030	840	1975S	44	3.0	1.6	0.0 +	0.4	(5.4)	2	(0.3)	0		5.7					
6031BL	28	6030L	44	3.6	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6098BL	28	6099L	12	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
6099	914	8000S	12	18.0	0.3	0.0 +	0.1	(0.9)	0	(0.1)	0		1.0					
-180	50	10000	4	10.0	36.7	0.5 +	0.0	(7.2)	90	(0.0)	1		7.2	1	20		29	
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	75		82	
-3460	10	10000	0	10.0	22.1	0.1 +	0.0	(0.9)	70	(0.0)	0		0.9	34	83		21	
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	83		0	
-4080	10	10000	0	10.0	10.6	0.0 +	0.0	(0.4)	48	(0.0)	0		0.4	40	76		33	
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	22		33	
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	18		25	

*** 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)	
3672.9	205.8	17.8	66.8	37.6	(1482.5) +	(189.6) +	(33.1) =	1705.1	TOTALS
88.4	5.4	16.5	1.4	0.7	(29.7) +	(3.9) +	(33.1) =	66.7	BUSES
3584.5	200.5	17.9	65.3	37.0	(1452.8) +	(185.7) +	(0.0) =	1638.4	OTHER
									ROUTE
944.7	47.7	19.8	17.3	5.6	(324.5) +	(32.3) +	(0.0) =	356.9	1
649.6	26.9	24.2	5.2	3.6	(124.4) +	(24.7) +	(0.0) =	149.1	2

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	216.4	+	121.8	+	86.9	=	425.1

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 655

PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow + Committed + Full Dev 1700-1800

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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 ---------------------------------------------------------------------------
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Run with file:- "WEST HENDON A5_FULL_DEV_PM.DAT"   at 16:45   on 20130312

TRANSYT 12.0

West Hendon Broadway Proposed Model PM


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

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   86
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    4
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Proposed Model PM
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1                7       7
  31)=  10       5                7       7
  32)=  10      34                7       3       5
  33)=  10      40                7       0       7       3
  34)=  10      41                7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1               15       5
  36)=  11       5               13       5
  37)=  11      34                8      10       9
  38)=  11      40               15       5       5       9
  39)=  11      41               10       6       5

                                 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				
40)=	12	1	1	59	47		
41)=	12	5	1	42	30		
42)=	12	34	1	75	41	54	
43)=	12	40	1	70	35	45	58
44)=	12	41	1	46	23	36	

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	4110	0	0	50	0	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	FIRST GREEN LAG	END STAGE	LAG	START STAGE	SECOND GREEN LAG	END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	633	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	0	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	5	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	10	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	10	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1178	0	4010	1107	8	4020	71	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1084	0	330	1074	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1178	0	110	1178	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	24	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	53	0	210	53	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1074	0	3430	794	7	3443	280	9	0	0	0	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1200	0	4120	115	7	4131	1085	5	0	0	0	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1398	0	4110	1310	8	4120	88	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1238	0	620	10	18	630	1235	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1398	0	510	1398	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1235	0	2030	1204	5	2041	31	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	633	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	243	2	130	243	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	841	0	130	841	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	200	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	52	0	1031	52	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	69	0	2011	69	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1398	0	610	1395	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1300	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1384	0	2011	1329	18	2040	55	18	0	0	0	0	0	0
177)=	32	2099	165	0	2010	69	18	2030	96	18	0	0	0	0	0	0
178)=	32	3410	191	0	210	191	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	958	0	210	934	9	220	24	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1210	0	430	1200	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	474	0	5010	474	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	280	0	5010	280	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1512	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	302	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	243	0	1030	243	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	989	0	1031	789	4	1040	200	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1220	0	4020	231	18	4031	989	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	648	0	4010	405	18	4030	243	18	0	0	0	0	0	0
202)=	32	4110	1432	0	3411	958	15	3442	474	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	203	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	153	0	530	153	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	1085	0	530	1085	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	275	0	4110	122	18	4130	153	18	0	0	0	0	0	0
210)=	32	5010	754	0	6010	97	3	6020	657	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	607	0	3410	191	9	3430	416	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	97	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	144	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	657	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	607	0	5020	607	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	751	0	6011	144	18	6030	607	18	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.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
230)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
231)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
232)=	41	1	Southbound
233)=	41	2	Northbound

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.
234)=	42	1	2030	530	4131	3430	1030	4031	4097						
235)=	42	2	210	3410	4110	2011	2098								

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

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88 SECOND CYCLE 88 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	2	59	47								
5	2	42	30								
34	3	75	41	54							

40	4	70	35	45	58
41	3	46	23	36	

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	DELAY RANDOM+ (U+R+O=MEAN Q) (PCU-H/H)	DELAY 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 2ND (SECONDS)
110	1178	3940S	43	8.1	1.8	0.2 +	0.4	(8.5)	7	(1.5)	2			9.9	1	74	47
111BL	22	110L	43	8.8	1.2	0.0 +	0.0	(0.1)	1	(0.0)	2			0.1	1	74	47
130	1084	4030S	39	12.1	3.3	0.7 +	0.3	(14.0)	17	(3.0)	5			17.0	1	74	47
131BL	22	130L	39	12.8	3.3	0.0 +	0.0	(0.3)	12	(0.0)	5			0.3	1	74	47
210	1178	3940S	30	8.0	0.7	0.0 +	0.2	(3.1)	1	(0.1)	0	(0.0)*		3.2			
211BL	22	210L	30	8.4	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
220	24	715	5	18.0	4.2	0.0 +	0.0	(0.4)	0	(0.0)	0			0.4			
299	52	8000	1	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
330	1074	4030S	27	7.5	0.6	0.0 +	0.2	(2.6)	1	(0.1)	0			2.7			
331BL	22	330L	27	7.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
340	10	715	2	18.0	3.9	0.0 +	0.0	(0.2)	0	(0.0)	0			0.2			
399	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
430	1199	3960S	32	5.2	0.7	0.0 +	0.2	(3.1)	1	(0.1)	0			3.2			
431BL	50	430L	32	5.7	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
440	10	715	2	18.0	4.2	0.0 +	0.0	(0.2)	0	(0.0)	0			0.2			
510	1396	3970S	50	8.1	2.5	0.5 +	0.5	(13.6)	9	(2.1)	3			15.7	5	55	30
511BL	50	510L	50	8.7	1.4	0.0 +	0.0	(0.3)	2	(0.0)	3			0.3	5	55	30
530	1238	3950S	45	6.1	6.0	1.7 +	0.4	(29.3)	40	(1.0)	13			30.3	5	55	30
531BL	50	530L	45	6.9	6.0	0.1 +	0.0	(1.2)	40	(0.3)	13			1.5	5	55	30
610	1396	2132S	68	7.0	3.6	0.4 +	1.0	(19.8)	36	(8.1)	12			28.0			
611BL	50	610L	68	7.5	3.2	0.0 +	0.0	(0.6)	25	(0.2)	12			0.8			
620	10	658	6	18.0	16.9	0.0 +	0.0	(0.7)	89	(0.2)	0			0.9			
630	1235	3995S	32	5.1	0.7	0.0 +	0.2	(3.2)	0	(0.0)	0			3.2			
631BL	50	630L	32	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0			0.1			
633	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
1030	243	1833	13	2.0	1.1	0.0 +	0.1	(1.1)	1	(0.1)	0	(0.0)*		1.1			
1031	841	3960S	22	2.0	0.6	0.0 +	0.1	(1.9)	1	(0.1)	0	(0.0)*		2.0			
1032BL	22	1031L	22	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
1040	200	715	30	20.0	3.9	0.0 +	0.2	(3.1)	0	(0.0)	0			3.1			
1099	52	8000	1	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
2010	70	850	18	3.0	5.8	0.0 +	0.1	(1.6)	0	(0.0)	0	(0.0)*		1.6			
2011	1394	2055S	70	6.0	3.0	0.0 +	1.1	(16.5)	7	(1.6)	7	(0.0)*		18.1			
2012BL	50	2011L	70	6.4	3.0	0.0 +	0.0	(0.6)	6	(0.0)	7	(0.0)*		0.6			
2030	1300	4033S	33	18.0	0.7	0.0 +	0.2	(3.4)	1	(0.2)	0			3.6			
2031BL	50	2030L	33	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
2040	55	600	72	18.0	98.8	0.4 +	1.1	(21.4)	149	(1.7)	2			23.2			
2041	31	715	7	18.0	4.7	0.0 +	0.0	(0.6)	0	(0.0)	0			0.6			
2097BL	50	2098L	18	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0			0.1			
2098	1380	8000S	18	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0			1.6			
2099	166	8000	2	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0			0.2			
3410	191	1791	46	9.0	12.1	0.2 +	0.4	(9.1)	48	(1.4)	2			10.5	34	82	54
3411	957	2430Sf	74	9.1	21.2	4.3 +	1.4	(79.9)	56	(8.2)	13			88.1	34	82	41
3412BL	22	3411L	74	38.8	26.8	0.1 +	0.0	(2.3)	92	(0.3)	13			2.6	34	82	41

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88 SECOND CYCLE 88 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 (PCU-H/H)	DELAY RANDOM+ (U+R+O=MEAN Q) (PCU-H/H)	DELAY 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 2ND (SECONDS)
3430	1209	3704S	64	9.1	14.2	3.9 +	0.8	(67.7)	73	(14.2)	24			81.9	34	83	41
3431BL	50	3430L	64	9.8	11.8	0.1 +	0.0	(2.3)	71	(0.5)	24			2.8	34	83	41
3440BL	28	3442L	79	7.2	48.1	0.3 +	0.1	(5.3)	108	(0.4)	14			5.7	34	61	75
3442	474	3730S	79	7.0	48.0	4.6 +	1.7	(89.7)	108	(7.3)	14			97.0	34	61	75
3443	280	1641	60	7.0	36.9	2.1 +	0.7	(40.7)	94	(3.8)	7			44.5	34	51	75
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1			1.7	34	80	41
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1			6.6	34	63	75
4010	1512	3804S	91	18.0	34.0	9.6 +	4.7	(202.9)	102	(32.6)	40			235.4	40	85	35
4011BL	22	4010L	91	22.5	34.0	0.1 +	0.1	(3.0)	102	(0.3)	40			3.3	40	85	35
4020	302	3395f	87	18.0	74.1	3.3 +	3.0	(88.3)	132	(8.5)	10			96.8	40	50	58
4030	243	1833	92	4.0	84.7	1.7 +	4.1	(81.2)	152	(4.9)	10	+		86.1	40	85	47
4031	989	3960S	46	4.0	8.2	1.9 +	0.4	(32.1)	44	(5.8)	12			37.9	40	85	45
4032BL	22	4031L	46	38.2	18.3	0.1 +	0.0	(1.6)	73	(0.0)	12	(0.0)*		1.6	40	85	45
4097	1219	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0			1.4			
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
4099	648	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0			0.7			
4110	1431	3922S	59	15.7	7.6	2.3 +	0.7	(43.2)	38	(8.7)	14			51.8	41	56	23
4111BL	50	4110L	59	25.0	10.1	0.1 +	0.0	(2.0)	41	(0.3)	14			2.3	41	56	23
4120	203	3007f	74	18.0	63.2	2.2 +	1.4	(50.6)	120	(5.2)	6			55.8	41	29	36
4130	153	2018	88	7.0	76.7	0.5 +	2.8	(46.3)	149	(3.0)	5			49.4	41	56	25
4131	1084	1905S	74	7.0	9.0	1.4 +	1.3	(38.5)	67	(9.8)	18	+		48.3	41	41	23
4132BL	50	4131L	74	7.0	8.5	0.1 +	0.1	(1.7)	62	(0.4)	18	+		2.1	41	41	23
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1			8.2	41	41	46
4199	277	8000	3	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0			0.3			
5010	754	3910S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0			1.8			
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
5020	607	1975S	32	9.0	1.3	0.0 +	0.2	(3.2)	2	(0.1)	0			3.3			
5021BL	28	5020L	32	7.2	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0			0.2			
6010	97	715	17	18.0	3.9	0.0 +	0.1	(1.5)	0	(0.0)	0			1.5			
6011	144	1618	9	18.0	1.2	0.0 +	0.0	(0.7)	1	(0.0)	0			0.7			
6020	657	1800S	38	18.0	1.6	0.0 +	0.3	(4.2)	2	(0.3)	0			4.4			
6021BL	28	6020L	38	22.5	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0			0.2			
6030	607	1975S	32	3.0	1.3	0.0 +	0.2	(3.2)	2	(0.2)	0			3.4			
6031BL	28	6030L	32	3.6	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0			0.2			
6098BL	28	6099L	10	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
6099	751	8000S	10	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0			0.8			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1			7.7	1	52	59
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1			7.7	5	35	42
-3460	10	10000	0	10.0	20.0	0.1 +	0.0	(0.8)	66	(0.0)	0			0.8	34	46	75
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0			1.6	34	49	54
-4080	10	10000	0	10.0	14.3	0.0 +	0.0	(0.6)	56	(0.0)	0			0.6	40	40	78
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0			1.4	40	67	78
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0			1.5	40	63	70

*** 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)	
3446.6	170.9	20.2	43.8	32.0	(1076.7) +	(136.9) +	(0.0) =	1213.6	TOTALS
88.4	4.9	18.2	1.0	0.5	(22.4) +	(2.9) +	(0.0) =	25.3	BUSES
3358.2	166.0	20.2	42.8	31.5	(1054.2) +	(134.0) +	(0.0) =	1188.3	OTHER

.

88 SECOND CYCLE 88 STEPS

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

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FUEL CONSUMPTION PREDICTIONS       202.6         +      88.9         +      62.9         =     354.5

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

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

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  570
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   21
NO. OF LINKS RECALCULATED=  824
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  613
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)
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```
  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  660
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  631
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

  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)

  3446.6         170.9       20.2         43.8     32.0    (1076.7) + (  136.9)  +  (   0.0)   =    1213.6      TOTALS
    88.4           4.9       18.2          1.0      0.5    (  22.4) + (    2.9)  +  (   0.0)   =      25.3      BUSES
  3358.2         166.0       20.2         42.8     31.5    (1054.2) + (  134.0)  +  (   0.0)   =    1188.3      OTHER

NO. OF ENTRIES TO SUBPT  =   21
NO. OF LINKS RECALCULATED= 1180
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      59      47
    5       2      42      30
   34       3      75      41      54
   40       4      70      35      45      58
   41       3      46      23      36

 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)

  110    1178   3940S    43   8.1   1.8    0.2 +  0.4  (  8.5)      7  (  1.5)       2                9.9      1     74  47
  111BL    22    110L    43   8.8   1.2    0.0 +  0.0  (  0.1)      1  (  0.0)       2                0.1      1     74  47
  130    1084   4030S    39  12.1   3.3    0.7 +  0.3  ( 14.0)     17  (  3.0)       5               17.0      1     74  47
  131BL    22    130L    39  12.8   3.3    0.0 +  0.0  (  0.3)     12  (  0.0)       5                0.3      1     74  47
  210    1178   3940S    30   8.0   0.7    0.0 +  0.2  (  3.1)      1  (  0.1)       0  ( 0.0)*       3.2
  211BL    22    210L    30   8.4   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  220      24    715      5  18.0   4.2    0.0 +  0.0  (  0.4)      0  (  0.0)       0                0.4
  299      52   8000      1  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
  330    1074   4030S    27   7.5   0.6    0.0 +  0.2  (  2.6)      1  (  0.1)       0                2.7
  331BL    22    330L    27   7.4   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  340      10    715      2  18.0   3.9    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
  399      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
  430    1199   3960S    32   5.2   0.7    0.0 +  0.2  (  3.1)      1  (  0.1)       0                3.2
  431BL    50    430L    32   5.7   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
  440      10    715      2  18.0   4.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
  510    1396   3970S    50   8.1   2.5    0.5 +  0.5  ( 13.6)      9  (  2.1)       3               15.7      5     55  30
  511BL    50    510L    50   8.7   1.4    0.0 +  0.0  (  0.3)      2  (  0.0)       3                0.3      5     55  30
  530    1238   3950S    45   6.1   6.0    1.7 +  0.4  ( 29.3)     40  (  1.0)      13               30.3      5     55  30
  531BL    50    530L    45   6.9   6.0    0.1 +  0.0  (  1.2)     40  (  0.3)      13                1.5      5     55  30
  610    1396   2132S    68   7.0   3.6    0.4 +  1.0  ( 19.8)     36  (  8.1)      12               28.0
  611BL    50    610L    68   7.5   3.2    0.0 +  0.0  (  0.6)     25  (  0.2)      12                0.8
  620      10    658      6  18.0  16.9    0.0 +  0.0  (  0.7)     89  (  0.2)       0                0.9
  630    1235   3995S    32   5.1   0.7    0.0 +  0.2  (  3.2)      0  (  0.0)       0                3.2
  631BL    50    630L    32   5.4   0.7    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
  633      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 1030     243   1833    13   2.0   1.1    0.0 +  0.1  (  1.1)      1  (  0.1)       0  ( 0.0)*       1.1
 1031     841   3960S    22   2.0   0.6    0.0 +  0.1  (  1.9)      1  (  0.1)       0  ( 0.0)*       2.0
 1032BL    22   1031L    22   2.1   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 1040     200    715    30  20.0   3.9    0.0 +  0.2  (  3.1)      0  (  0.0)       0                3.1
 1099      52   8000      1  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 2010      70    850    18   3.0   5.8    0.0 +  0.1  (  1.6)      0  (  0.0)       0  ( 0.0)*       1.6
 2011    1394   2055S    70   6.0   3.0    0.0 +  1.1  ( 16.5)      7  (  1.6)       7  ( 0.0)*      18.1
 2012BL    50   2011L    70   6.4   3.0    0.0 +  0.0  (  0.6)      6  (  0.0)       7  ( 0.0)*       0.6
 2030    1300   4033S    33  18.0   0.7    0.0 +  0.2  (  3.4)      1  (  0.2)       0                3.6
 2031BL    50   2030L    33  22.5   0.7    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 2040      55    600    72  18.0  98.8    0.4 +  1.1  ( 21.4)    149  (  1.7)       2               23.2
 2041      31    715      7  18.0   4.7    0.0 +  0.0  (  0.6)      0  (  0.0)       0                0.6
 2097BL    50   2098L    18  22.5   0.3    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
 2098    1380   8000S    18  18.0   0.3    0.0 +  0.1  (  1.5)      0  (  0.1)       0                1.6
 2099     166   8000      2  18.0   0.2    0.0 +  0.0  (  0.2)      0  (  0.0)       0                0.2
 3410     191   1791     46   9.0  12.1    0.2 +  0.4  (  9.1)     48  (  1.4)       2               10.5     34     82  54
 3411     957   2430Sf   74   9.1  21.2    4.3 +  1.4  ( 79.9)     56  (  8.2)      13               88.1     34     82  41
 3412BL    22   3411L    74  38.8  26.8    0.1 +  0.0  (  2.3)     92  (  0.3)      13                2.6     34     82  41
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88 SECOND CYCLE 88 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)	DELAY RANDOM+ OVERSAT (PCU-H/H)	COST OF DELAY ($/H)	STOPS MEAN STOPS (%)	STOPS COST OF STOPS ($/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 2ND (SECONDS)
3430	1209	3704S	64	9.1	14.2	3.9 +	0.8	(67.7)	73	(14.2)	24		81.9	34	83	41
3431BL	50	3430L	64	9.8	11.8	0.1 +	0.0	(2.3)	71	(0.5)	24		2.8	34	83	41
3440BL	28	3442L	79	7.2	48.1	0.3 +	0.1	(5.3)	108	(0.4)	14		5.7	34	61	75
3442	474	3730S	79	7.0	48.0	4.6 +	1.7	(89.7)	108	(7.3)	14		97.0	34	61	75
3443	280	1641	60	7.0	36.9	2.1 +	0.7	(40.7)	94	(3.8)	7		44.5	34	51	75
3450	50	10000	1	10.0	8.7	0.1 +	0.0	(1.7)	43	(0.0)	1		1.7	34	80	41
3451	50	10000	3	10.0	33.6	0.4 +	0.0	(6.6)	86	(0.0)	1		6.6	34	63	75
4010	1512	3804S	91	18.0	34.0	9.6 +	4.7	(202.9)	102	(32.6)	40		235.4	40	85	35
4011BL	22	4010L	91	22.5	34.0	0.1 +	0.1	(3.0)	102	(0.3)	40		3.3	40	85	35
4020	302	3395f	87	18.0	74.1	3.3 +	3.0	(88.3)	132	(8.5)	10		96.8	40	50	58
4030	243	1833	92	4.0	84.7	1.7 +	4.1	(81.2)	152	(4.9)	10	+	86.1	40	85	47
4031	989	3960S	46	4.0	8.2	1.9 +	0.4	(32.1)	44	(5.8)	12		37.9	40	85	45
4032BL	22	4031L	46	38.2	18.3	0.1 +	0.0	(1.6)	73	(0.0)	12	(0.0)*	1.6	40	85	45
4097	1219	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	648	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
4110	1431	3922S	59	15.7	7.6	2.3 +	0.7	(43.2)	38	(8.7)	14		51.8	41	56	23
4111BL	50	4110L	59	25.0	10.1	0.1 +	0.0	(2.0)	41	(0.3)	14		2.3	41	56	23
4120	203	3007f	74	18.0	63.2	2.2 +	1.4	(50.6)	120	(5.2)	6		55.8	41	29	36
4130	153	2018	88	7.0	76.7	0.5 +	2.8	(46.3)	149	(3.0)	5		49.4	41	56	25
4131	1084	1905S	74	7.0	9.0	1.4 +	1.3	(38.5)	67	(9.8)	18	+	48.3	41	41	23
4132BL	50	4131L	74	7.0	8.5	0.1 +	0.1	(1.7)	62	(0.4)	18	+	2.1	41	41	23
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	41	46
4199	277	8000	3	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
5010	754	3910S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0		1.8			
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	607	1975S	32	9.0	1.3	0.0 +	0.2	(3.2)	2	(0.1)	0		3.3			
5021BL	28	5020L	32	7.2	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2			
6010	97	715	17	18.0	3.9	0.0 +	0.1	(1.5)	0	(0.0)	0		1.5			
6011	144	1618	9	18.0	1.2	0.0 +	0.0	(0.7)	1	(0.0)	0		0.7			
6020	657	1800S	38	18.0	1.6	0.0 +	0.3	(4.2)	2	(0.3)	0		4.4			
6021BL	28	6020L	38	22.5	1.6	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	607	1975S	32	3.0	1.3	0.0 +	0.2	(3.2)	2	(0.2)	0		3.4			
6031BL	28	6030L	32	3.6	1.3	0.0 +	0.0	(0.1)	2	(0.0)	0		0.2			
6098BL	28	6099L	10	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	751	8000S	10	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	52	59
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	35	42
-3460	10	10000	0	10.0	20.0	0.1 +	0.0	(0.8)	66	(0.0)	0		0.8	34	46	75
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	49	54
-4080	10	10000	0	10.0	14.3	0.0 +	0.0	(0.6)	56	(0.0)	0		0.6	40	40	78
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	67	78
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	63	70

*** 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)	
3446.6	170.9	20.2	43.8	32.0	(1076.7) +	(136.9) +	(0.0) =	1213.6	TOTALS
88.4	4.9	18.2	1.0	0.5	(22.4) +	(2.9) +	(0.0) =	25.3	BUSES
3358.2	166.0	20.2	42.8	31.5	(1054.2) +	(134.0) +	(0.0) =	1188.3	OTHER
									ROUTE
791.3	33.3	23.8	8.8	3.4	(173.4) +	(31.1) +	(0.0) =	204.5	1
665.8	23.7	28.0	2.6	2.6	(73.3) +	(11.9) +	(0.0) =	85.2	2

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88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	202.6	+	88.9	+	62.9	=	354.5

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 689

PROGRAM TRANSYT FINISHED

PRT

PRT File
Sat Peak : 2011 Flow + Committed + Full Dev

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1            _______________ T R A N S Y T 12 _______________

                    Traffic Network Study Tool

                 Analysis Program Release 7  (July 2010)
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            ____________________________________________


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            RG40 3GA,UK
 -------------------------------------------------------------------------
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 -------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_FULL_DEV_SAT.DAT"   at 16:46   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    5
  NUMBER OF LINKS                    =   86
  NUMBER OF OPTIMISED NODES          =    5
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   88
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    4
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  19076 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      88      88      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       1       5       0       0       0       0       0       0       0       0       0       0

                                                     LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7     110     111       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7     130     131       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7     210     211       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7     330     331       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7     430     431       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7     510     511       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7     530     531       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7     610     611       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7     630     631       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    1031    1032       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
  18)=   7    3430    3431       0       0       0       0       0       0       0       0       0       0       0       0       0
  19)=   7    3442    3440       0       0       0       0       0       0       0       0       0       0       0       0       0
  20)=   7    4010    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
  21)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  22)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  23)=   7    4110    4111       0       0       0       0       0       0       0       0       0       0       0       0       0
  24)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  25)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  26)=   7    5020    5021       0       0       0       0       0       0       0       0       0       0       0       0       0
  27)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  28)=   7    6030    6031       0       0       0       0       0       0       0       0       0       0       0       0       0
  29)=   7    6099    6098       0       0       0       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.
  30)=  10       1                7       7
  31)=  10       5                7       7
  32)=  10      34                6       3       5
  33)=  10      40                7       0       7       3
  34)=  10      41                7       7       5

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  35)=  11       1               15       5
  36)=  11       5               13       5
  37)=  11      34                8      10       9
  38)=  11      40               15       5       5       9
  39)=  11      41               11       6       5

                                 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				
40)=	12	1	1	25	13		
41)=	12	5	1	83	71		
42)=	12	34	1	32	87	12	
43)=	12	40	1	19	75	80	7
44)=	12	41	1	31	8	21	

LINK CARDS: GIVEWAY DATA

CARD NO.	CARD TYPE	LINK NO.	PRIORITY LINKS LINK1 NO.	LINK2 NO.	LINK1 GIVEWAY COEFFS. ONLY % FLOW	A1 X100	A2 X100					LINK LENGTH	STOP WT.X100	MAX FLOW	DELAY WT.X100	DISPSN X100
45)=	30	220	210	0	0	22	0	0	0	0	0	200	0	715	0	0
46)=	30	340	330	0	0	22	0	0	0	0	0	200	0	715	0	0
47)=	30	440	430	0	0	22	0	0	0	0	0	200	0	715	0	0
48)=	30	620	610	630	50	22	19	0	0	0	0	200	0	658	0	0
49)=	30	630	0	610	100	0	35	0	0	0	0	48	0	850	0	0
50)=	30	631	0	0	0	0	0	0	0	0	0	48	0	850	0	0
51)=	30	1040	1030	0	0	22	0	0	0	0	0	200	0	715	0	0
52)=	30	2010	2030	0	0	35	0	0	0	0	0	28	0	850	0	0
53)=	30	2040	2030	2011	0	22	19	0	0	0	0	200	0	600	0	0
54)=	30	2041	2030	0	0	22	0	0	0	0	0	200	0	715	0	0
55)=	30	3410	3430	0	0	50	0	0	0	0	0	85	0	1000	0	0
56)=	30	4030	4010	0	0	50	0	0	0	0	0	35	0	1000	0	0
57)=	30	4130	0	4110	96	0	50	0	0	0	0	62	0	1000	0	0
58)=	30	6010	6020	0	0	22	0	0	0	0	0	200	0	715	0	0

LINK CARDS: FIXED DATA

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	FIRST GREEN LAG	END STAGE	LAG	START STAGE	SECOND GREEN LAG	END STAGE	LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
59)=	31	110	1	1	15	2	0	0	0	0	0	78	0	3940	0	0
60)=	31	111	0	0	0	0	0	0	0	0	0	78	0	0	0	0
61)=	31	130	1	1	15	2	0	0	0	0	0	114	0	4030	0	0
62)=	31	131	0	0	0	0	0	0	0	0	0	114	0	0	0	0
63)=	31	-180	1	2	5	1	0	0	0	0	0	12	0	10000	0	0
64)=	31	210	0	0	0	0	0	0	0	0	0	75	0	3940	0	0
65)=	31	211	0	0	0	0	0	0	0	0	0	75	0	0	0	0
66)=	31	299	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	330	0	0	0	0	0	0	0	0	0	66	0	4030	0	0
68)=	31	331	0	0	0	0	0	0	0	0	0	66	0	0	0	0
69)=	31	399	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
70)=	31	430	0	0	0	0	0	0	0	0	0	51	0	3960	0	0
71)=	31	431	0	0	0	0	0	0	0	0	0	51	0	0	0	0
72)=	31	510	5	1	13	2	0	0	0	0	0	77	0	3970	0	0
73)=	31	511	0	0	0	0	0	0	0	0	0	77	0	0	0	0
74)=	31	530	5	1	13	2	0	0	0	0	0	61	0	3950	0	0
75)=	31	531	0	0	0	0	0	0	0	0	0	61	0	0	0	0
76)=	31	-580	5	2	5	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	610	0	0	0	0	0	0	0	0	0	67	0	2132	0	0
78)=	31	611	0	0	0	0	0	0	0	0	0	67	0	0	0	0
79)=	31	630	0	0	0	0	0	0	0	0	0	48	0	3995	0	0
80)=	31	631	0	0	0	0	0	0	0	0	0	48	0	0	0	0
81)=	31	699	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
82)=	31	1030	0	0	0	0	0	0	0	0	0	19	0	1833	0	0
83)=	31	1031	0	0	0	0	0	0	0	0	0	19	0	3960	0	0
84)=	31	1032	0	0	0	0	0	0	0	0	0	19	0	0	0	0
85)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	2011	0	0	0	0	0	0	0	0	0	57	0	2055	0	0
87)=	31	2012	0	0	0	0	0	0	0	0	0	57	0	0	0	0
88)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	4033	0	0
89)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
90)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
91)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
92)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
93)=	31	3410	34	1	7	3	0	0	0	0	0	85	0	1791	0	0
94)=	31	3411	34	1	7	2	0	0	0	0	0	85	0	2055	0	0
95)=	31	3412	0	0	0	0	0	0	0	0	0	85	0	0	0	0
96)=	31	3430	34	1	8	2	3	0	0	0	0	87	0	3704	0	0
97)=	31	3431	0	0	0	0	0	0	0	0	0	87	0	0	0	0
98)=	31	3440	0	0	0	0	0	0	0	0	0	64	0	0	0	0
99)=	31	3442	34	3	7	1	0	0	0	0	0	64	0	3730	0	0
100)=	31	3443	34	2	10	1	0	0	0	0	0	64	0	1641	0	0
101)=	31	3450	34	1	5	2	0	0	0	0	0	6	0	10000	0	0
102)=	31	3451	34	3	9	1	0	0	0	0	0	6	0	10000	0	0
103)=	31	-3460	34	2	8	1	0	0	0	0	0	6	0	10000	0	0
104)=	31	-3461	34	2	8	3	0	0	0	0	0	6	0	10000	0	0
105)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	3804	0	0
106)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
107)=	31	4020	40	3	5	4	0	0	0	0	0	200	0	1754	0	0
108)=	31	4030	40	1	15	3	2	0	0	0	0	35	0	1833	0	0
109)=	31	4031	40	1	15	3	0	0	0	0	0	35	0	3960	0	0
110)=	31	4032	0	0	0	0	0	0	0	0	0	35	0	0	0	0
111)=	31	-4080	40	2	5	1	8	0	0	0	0	6	0	10000	0	0
112)=	31	-4081	40	4	9	1	8	0	0	0	0	6	0	10000	0	0
113)=	31	-4082	40	4	5	1	0	0	0	0	0	12	0	10000	0	0
114)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
115)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
116)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
117)=	31	4110	41	1	11	2	0	0	0	0	0	143	0	3922	0	0
118)=	31	4111	0	0	0	0	0	0	0	0	0	143	0	0	0	0
119)=	31	4120	41	2	6	3	0	0	0	0	0	200	0	1657	0	0
120)=	31	4130	41	1	11	2	2	0	0	0	0	62	0	2018	0	0
121)=	31	4131	41	3	5	2	0	0	0	0	0	62	0	1905	0	0
122)=	31	4132	0	0	0	0	0	0	0	0	0	62	0	0	0	0
123)=	31	4150	41	3	5	1	0	0	0	0	0	11	0	10000	0	0
124)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
125)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3910	0	0
126)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
127)=	31	5020	0	0	0	0	0	0	0	0	0	64	0	1975	0	0
128)=	31	5021	0	0	0	0	0	0	0	0	0	64	0	0	0	0
129)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
130)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
131)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
132)=	31	6030	0	0	0	0	0	0	0	0	0	32	0	1975	0	0
133)=	31	6031	0	0	0	0	0	0	0	0	0	32	0	0	0	0
134)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
135)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
136)=	32	110	1144	0	4010	1060	8	4020	84	10	0	0	0	0	0	0
137)=	32	111	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
138)=	32	130	1129	0	330	1119	12	340	10	18	0	0	0	0	0	0
139)=	32	131	22	0	331	22	3200	0	0	0	0	0	0	0	0	0
140)=	32	-180	50	0	0	0	10	0	0	0	0	0	0	0	0	0
141)=	32	210	1144	0	110	1144	8	0	0	0	0	0	0	0	0	0
142)=	32	211	22	0	111	22	3200	0	0	0	0	0	0	0	0	0
143)=	32	220	25	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	299	20	0	210	20	18	0	0	0	0	0	0	0	0	0
145)=	32	330	1119	0	3430	797	7	3443	322	9	0	0	0	0	0	0
146)=	32	331	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0

147)=	32	340	10	0	0	0	18	0	0	0	0	0	0	0	0	0
148)=	32	399	10	0	330	10	18	0	0	0	0	0	0	0	0	0
149)=	32	430	1322	0	4120	86	7	4130	249	5	4131	987	5	0	0	0
150)=	32	431	50	0	4132	50	3200	0	0	0	0	0	0	0	0	0
151)=	32	440	10	0	0	0	18	0	0	0	0	0	0	0	0	0
152)=	32	510	1369	0	4110	1308	8	4120	61	10	0	0	0	0	0	0
153)=	32	511	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
154)=	32	530	1296	0	620	10	18	630	1293	6	0	0	0	0	0	0
155)=	32	531	50	0	631	50	3200	0	0	0	0	0	0	0	0	0
156)=	32	-580	50	0	0	0	10	0	0	0	0	0	0	0	0	0
157)=	32	610	1369	0	510	1369	7	0	0	0	0	0	0	0	0	0
158)=	32	611	50	0	511	50	3200	0	0	0	0	0	0	0	0	0
159)=	32	620	10	0	0	0	18	0	0	0	0	0	0	0	0	0
160)=	32	630	1293	0	2030	1276	5	2041	17	7	0	0	0	0	0	0
161)=	32	631	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
162)=	32	699	10	0	610	10	18	630	10	18	0	0	0	0	0	0
163)=	32	1030	162	0	130	162	2	0	0	0	0	0	0	0	0	0
164)=	32	1031	967	0	130	967	2	0	0	0	0	0	0	0	0	0
165)=	32	1032	22	0	131	22	3200	0	0	0	0	0	0	0	0	0
166)=	32	1040	200	0	0	0	20	0	0	0	0	0	0	0	0	0
167)=	32	1099	52	0	1031	52	18	0	0	0	0	0	0	0	0	0
168)=	32	2010	57	0	2011	57	3	0	0	0	0	0	0	0	0	0
169)=	32	2011	1367	0	610	1365	6	620	10	8	0	0	0	0	0	0
170)=	32	2012	50	0	611	50	3200	0	0	0	0	0	0	0	0	0
171)=	32	2030	1349	0	0	0	18	0	0	0	0	0	0	0	0	0
172)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
173)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
174)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
175)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
176)=	32	2098	1343	0	2011	1310	18	2040	33	18	0	0	0	0	0	0
177)=	32	2099	130	0	2010	57	18	2030	73	18	0	0	0	0	0	0
178)=	32	3410	137	0	210	137	9	0	0	0	0	0	0	0	0	0
179)=	32	3411	1012	0	210	987	9	220	25	11	0	0	0	0	0	0
180)=	32	3412	22	0	211	22	3220	0	0	0	0	0	0	0	0	0
181)=	32	3430	1332	0	430	1322	9	440	10	18	0	0	0	0	0	0
182)=	32	3431	50	0	431	50	3200	0	0	0	0	0	0	0	0	0
183)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
184)=	32	3442	372	0	5010	372	7	0	0	0	0	0	0	0	0	0
185)=	32	3443	322	0	5010	322	7	0	0	0	0	0	0	0	0	0
186)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
187)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
188)=	32	-3460	10	0	0	0	10	0	0	0	0	0	0	0	0	0
189)=	32	-3461	10	0	0	0	10	0	0	0	0	0	0	0	0	0
190)=	32	4010	1263	0	0	0	18	0	0	0	0	0	0	0	0	0
191)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
192)=	32	4020	336	0	0	0	18	0	0	0	0	0	0	0	0	0
193)=	32	4030	162	0	1030	162	4	0	0	0	0	0	0	0	0	0
194)=	32	4031	1115	0	1031	915	4	1040	200	4	0	0	0	0	0	0
195)=	32	4032	22	0	1032	22	3226	0	0	0	0	0	0	0	0	0
196)=	32	-4080	10	0	0	0	10	0	0	0	0	0	0	0	0	0
197)=	32	-4081	10	0	0	0	10	0	0	0	0	0	0	0	0	0
198)=	32	-4082	10	0	0	0	10	0	0	0	0	0	0	0	0	0
199)=	32	4097	1367	0	4020	252	18	4031	1115	18	0	0	0	0	0	0
200)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
201)=	32	4099	365	0	4010	203	18	4030	162	18	0	0	0	0	0	0
202)=	32	4110	1384	0	3411	1012	15	3442	372	17	0	0	0	0	0	0
203)=	32	4111	50	0	3412	22	3211	3440	28	3200	0	0	0	0	0	0
204)=	32	4120	147	0	0	0	18	0	0	0	0	0	0	0	0	0
205)=	32	4130	309	0	530	309	7	0	0	0	0	0	0	0	0	0
206)=	32	4131	987	0	530	987	7	0	0	0	0	0	0	0	0	0
207)=	32	4132	50	0	531	50	3200	0	0	0	0	0	0	0	0	0
208)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
209)=	32	4199	136	0	4110	76	18	4130	60	18	0	0	0	0	0	0
210)=	32	5010	694	0	6010	171	3	6020	523	3	0	0	0	0	0	0
211)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
212)=	32	5020	672	0	3410	137	9	3430	535	9	0	0	0	0	0	0
213)=	32	5021	28	0	3431	28	3200	0	0	0	0	0	0	0	0	0
214)=	32	6010	171	0	0	0	18	0	0	0	0	0	0	0	0	0
215)=	32	6011	19	0	0	0	18	0	0	0	0	0	0	0	0	0
216)=	32	6020	523	0	0	0	18	0	0	0	0	0	0	0	0	0
217)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
218)=	32	6030	672	0	5020	672	3	0	0	0	0	0	0	0	0	0
219)=	32	6031	28	0	5021	28	3200	0	0	0	0	0	0	0	0	0
220)=	32	6098	28	0	6031	28	3200	0	0	0	0	0	0	0	0	0
221)=	32	6099	691	0	6011	19	18	6030	672	18	0	0	0	0	0	0

LINK CARDS : FLARE SATURATION FLOW DATA

			..LANE 1..		..LANE 2..		..LANE 3..	
	CARD TYPE	LINK NO.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.	SAT. FLOW	CAPAC VEH.
222)=	33	3411	1885	5	0	0	0	0
223)=	33	4020	1641	6	0	0	0	0
224)=	33	4120	1800	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
225)=	38	210	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
226)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
227)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
228)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
229)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
230)=	41	1	Southbound
231)=	41	2	Northbound

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.
232)=	42	1	2030	530	4130	3430	1030	4031	4097						
233)=	42	2	210	3410	4110	2011	2098								

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

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88 SECOND CYCLE 88 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	2	25	13								
5	2	83	71								
34	3	32	87	12							
40	4	19	75	80	7						
41	3	31	8	21							

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)	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 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)
110	1145	3940S	42	8.1	1.6	0.2 +	0.4	(7.2)	3	(0.7)	1		7.9	1	40	13
111BL	22	110L	42	8.8	1.1	0.0 +	0.0	(0.1)	1	(0.0)	1		0.1	1	40	13
130	1128	4030S	41	12.1	6.1	1.6 +	0.3	(27.0)	38	(6.9)	11		34.0	1	40	13
131BL	22	130L	41	12.8	3.2	0.0 +	0.0	(0.3)	11	(0.0)	11		0.3	1	40	13
210	1145	3940S	30	8.0	0.6	0.0 +	0.2	(2.9)	1	(0.1)	0	(0.0)*	3.1			
211BL	22	210L	30	8.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
220	25	715	5	18.0	4.4	0.0 +	0.0	(0.4)	12	(0.1)	0		0.5			
299	21	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
330	1118	4030S	28	7.6	0.6	0.0 +	0.2	(2.7)	1	(0.1)	0		2.9			
331BL	22	330L	28	7.4	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
340	10	715	2	18.0	4.0	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
399	9	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
430	1322	3960S	35	5.1	0.7	0.0 +	0.3	(3.6)	1	(0.1)	0		3.7			
431BL	50	430L	35	5.7	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
440	10	715	2	18.0	4.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
510	1370	3970S	49	8.1	6.1	1.8 +	0.5	(32.7)	42	(9.3)	15		42.0	5	8	71
511BL	50	510L	49	8.7	6.3	0.1 +	0.0	(1.2)	35	(0.3)	15		1.5	5	8	71
530	1295	3950S	47	6.1	6.1	1.8 +	0.4	(31.2)	41	(1.1)	14		32.3	5	8	71
531BL	50	530L	47	6.9	6.1	0.1 +	0.0	(1.2)	41	(0.3)	14		1.5	5	8	71
610	1370	2132S	67	7.0	6.8	1.6 +	1.0	(36.9)	76	(16.7)	18	+	53.6			
611BL	50	610L	67	7.5	4.9	0.0 +	0.0	(1.0)	59	(0.4)	18	+	1.4			
620	10	658	6	18.0	20.8	0.0 +	0.0	(0.8)	85	(0.2)	0		1.0			
630	1293	3995S	34	5.0	0.7	0.0 +	0.2	(3.5)	0	(0.0)	0		3.5			
631BL	50	630L	34	5.4	0.7	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
699	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
1030	162	1833	9	2.0	1.1	0.0 +	0.0	(0.7)	1	(0.0)	0		0.7			
1031	966	3960S	25	2.0	0.6	0.0 +	0.2	(2.3)	1	(0.1)	0	(0.0)*	2.4			
1032BL	22	1031L	25	2.1	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1040	200	715	29	20.0	3.8	0.0 +	0.2	(3.0)	0	(0.0)	0		3.0			
1099	52	8000	1	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	57	850	16	3.0	6.0	0.0 +	0.1	(1.3)	0	(0.0)	0	(0.0)*	1.3			
2011	1369	2055S	69	6.0	3.0	0.1 +	1.1	(16.3)	13	(2.9)	14	+	19.2			
2012BL	50	2011L	69	6.4	2.9	0.0 +	0.0	(0.6)	8	(0.1)	14	(0.1)*	10.9			
2030	1349	4033S	35	18.0	0.7	0.0 +	0.3	(3.6)	1	(0.2)	0		3.9			
2031BL	50	2030L	35	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	33	600	41	18.0	48.3	0.1 +	0.3	(6.3)	140	(1.0)	1		7.3			
2041	17	715	4	18.0	4.6	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	17	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1345	8000S	17	18.0	0.3	0.0 +	0.1	(1.4)	0	(0.1)	0		1.5			
2099	130	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
3410	137	1791	56	9.0	33.4	0.6 +	0.6	(18.1)	111	(2.3)	4		20.4	34	39	12
3411	1012	2422Sf	77	9.0	16.2	3.0 +	1.6	(64.7)	71	(11.0)	19	+	75.6	34	39	87
3412BL	22	3411L	77	38.8	28.2	0.1 +	0.0	(2.4)	97	(0.3)	19	+	2.7	34	39	87

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88 SECOND CYCLE 88 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)	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 1ST (SECONDS)	GREEN TIMES START 2ND (SECONDS)
3430	1332	3704S	64	9.1	4.9	0.9 +	0.9	(25.7)	20	(4.3)	8		29.9	34	40	2
3431BL	50	3430L	64	9.8	3.5	0.0 +	0.0	(0.7)	17	(0.1)	8		0.8	34	40	2
3440BL	28	3442L	67	7.2	44.1	0.3 +	0.1	(4.9)	102	(0.4)	10		5.3	34	19	32
3442	372	3730S	67	7.0	44.1	3.6 +	1.0	(64.7)	102	(5.4)	10		70.1	34	19	32
3443	322	1641	72	7.0	43.0	2.6 +	1.3	(54.6)	103	(4.7)	8		59.4	34	9	32
3450	50	10000	1	10.0	8.3	0.1 +	0.0	(1.6)	42	(0.0)	1		1.6	34	37	87
3451	50	10000	4	10.0	34.6	0.5 +	0.0	(6.8)	88	(0.0)	1		6.8	34	21	32
4010	1263	3804S	71	18.0	21.5	6.4 +	1.2	(107.3)	79	(21.2)	26		128.5	40	34	75
4011BL	22	4010L	71	22.5	21.5	0.1 +	0.0	(1.9)	79	(0.2)	26		2.1	40	34	75
4020	336	3395f	79	18.0	57.0	3.5 +	1.8	(75.5)	116	(8.2)	10		83.7	40	85	7
4030	162	1833	74	4.0	61.0	1.4 +	1.4	(39.0)	126	(2.7)	5		41.7	40	34	82
4031	1114	3960S	54	4.0	13.2	3.5 +	0.6	(57.9)	42	(6.2)	12		64.2	40	34	80
4032BL	22	4031L	54	38.2	18.2	0.1 +	0.0	(1.6)	76	(0.0)	12	(0.0)*	1.6	40	34	80
4097	1366	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
4098BL	22	4097L	17	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	365	8000	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4			
4110	1384	3922S	58	15.5	7.6	2.2 +	0.7	(41.5)	44	(9.8)	18		51.2	41	42	8
4111BL	50	4110L	58	25.0	9.1	0.1 +	0.0	(1.8)	67	(0.5)	18		2.3	41	42	8
4120	147	3007f	54	18.0	52.1	1.6 +	0.6	(30.2)	108	(3.4)	4		33.6	41	14	21
4130	308	2018	72	7.0	41.0	2.2 +	1.3	(49.8)	106	(4.4)	8		54.2	41	42	10
4131	987	1905S	67	7.0	13.0	2.6 +	1.0	(50.8)	84	(11.1)	22	+	61.9	41	26	8
4132BL	50	4131L	67	7.0	13.2	0.1 +	0.0	(2.6)	87	(0.6)	22	+	3.2	41	26	8
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26	31
4199	135	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	694	3910S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	673	1975S	35	9.0	1.4	0.0 +	0.3	(3.7)	2	(0.1)	0		3.8			
5021BL	28	5020L	35	7.2	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	171	715	29	18.0	4.3	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
6011	19	1618	1	18.0	1.1	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6020	523	1800S	31	18.0	1.4	0.0 +	0.2	(3.0)	2	(0.2)	0		3.2			
6021BL	28	6020L	31	22.5	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	673	1975S	35	3.0	1.4	0.0 +	0.3	(3.7)	2	(0.2)	0		4.0			
6031BL	28	6030L	35	3.6	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	692	8000S	9	18.0	0.2	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	18	25
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	76	83
-3460	10	10000	0	10.0	22.8	0.1 +	0.0	(0.9)	71	(0.0)	0		0.9	34	7	32
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	7	12
-4080	10	10000	0	10.0	16.1	0.0 +	0.0	(0.6)	59	(0.0)	0		0.6	40	80	27
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	16	27
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	12	19

*** 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)	
3288.8	155.9	21.1	43.4	21.3	(920.1) +	(138.4) +	(10.2) =	1068.7	TOTALS
88.4	4.8	18.5	1.1	0.5	(21.4) +	(3.3) +	(10.2) =	34.9	BUSES
3200.4	151.2	21.2	42.4	20.9	(898.7) +	(135.1) +	(0.0) =	1033.8	OTHER

.

88 SECOND CYCLE 88 STEPS

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	194.3	+	76.3	+	63.5	=	334.1

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NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   86
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  613
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  614
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   19
NO. OF LINKS RECALCULATED=  893
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  658
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
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    88.4          4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4        151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  697
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  660
.

     88 SECOND CYCLE  88 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   13  35  -1  13  35   1  -1
 - (SECONDS)

    1       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

  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)

  3288.8         155.9       21.1         43.4     21.3    ( 920.1) + (  138.4)  +  (  10.2)   =    1068.7      TOTALS
    88.4           4.8       18.5          1.1      0.5    (  21.4) + (    3.3)  +  (  10.2)   =      34.9      BUSES
  3200.4         151.2       21.2         42.4     20.9    ( 898.7) + (  135.1)  +  (   0.0)   =    1033.8      OTHER

NO. OF ENTRIES TO SUBPT  =   19
NO. OF LINKS RECALCULATED= 1167
.

     88 SECOND CYCLE  88 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   13  35  -1  13  35   1  -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       2      25      13
    5       2      83      71
   34       3      32      87      12
   40       4      19      75      80       7
   41       3      31       8      21

 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)

  110    1145   3940S    42   8.1   1.6    0.2 +  0.4  (  7.2)     3  (  0.7)      1                7.9      1     40  13
  111BL    22    110L    42   8.8   1.1    0.0 +  0.0  (  0.1)     1  (  0.0)      1                0.1      1     40  13
  130    1128   4030S    41  12.1   6.1    1.6 +  0.3  ( 27.0)    38  (  6.9)     11               34.0      1     40  13
  131BL    22    130L    41  12.8   3.2    0.0 +  0.0  (  0.3)    11  (  0.0)     11                0.3      1     40  13
  210    1145   3940S    30   8.0   0.6    0.0 +  0.2  (  2.9)     1  (  0.1)      0  ( 0.0)*       3.1
  211BL    22    210L    30   8.4   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  220      25    715      5  18.0   4.4    0.0 +  0.0  (  0.4)    12  (  0.1)      0                0.5
  299      21   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  330    1118   4030S    28   7.6   0.6    0.0 +  0.2  (  2.7)     1  (  0.1)      0                2.9
  331BL    22    330L    28   7.4   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  340      10    715      2  18.0   4.0    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.2
  399       9   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
  430    1322   3960S    35   5.1   0.7    0.0 +  0.3  (  3.6)     1  (  0.1)      0                3.7
  431BL    50    430L    35   5.7   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
  440      10    715      2  18.0   4.5    0.0 +  0.0  (  0.2)     2  (  0.0)      0                0.2
  510    1370   3970S    49   8.1   6.1    1.8 +  0.5  ( 32.7)    42  (  9.3)     15               42.0      5      8  71
  511BL    50    510L    49   8.7   6.3    0.1 +  0.0  (  1.2)    35  (  0.3)     15                1.5      5      8  71
  530    1295   3950S    47   6.1   6.1    1.8 +  0.4  ( 31.2)    41  (  1.1)     14               32.3      5      8  71
  531BL    50    530L    47   6.9   6.1    0.1 +  0.0  (  1.2)    41  (  0.3)     14                1.5      5      8  71
  610    1370   2132S    67   7.0   6.8    1.6 +  1.0  ( 36.9)    76  ( 16.7)     18     +         53.6
  611BL    50    610L    67   7.5   4.9    0.0 +  0.0  (  1.0)    59  (  0.4)     18     +          1.4
  620      10    658      6  18.0  20.8    0.0 +  0.0  (  0.8)    85  (  0.2)      0                1.0
  630    1293   3995S    34   5.0   0.7    0.0 +  0.2  (  3.5)     0  (  0.0)      0                3.5
  631BL    50    630L    34   5.4   0.7    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
  699      11   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 1030     162   1833      9   2.0   1.1    0.0 +  0.0  (  0.7)     1  (  0.0)      0                0.7
 1031     966   3960S    25   2.0   0.6    0.0 +  0.2  (  2.3)     1  (  0.1)      0  ( 0.0)*       2.4
 1032BL    22   1031L    25   2.1   0.6    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 1040     200    715     29  20.0   3.8    0.0 +  0.2  (  3.0)     0  (  0.0)      0                3.0
 1099      52   8000      1  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      57    850     16   3.0   6.0    0.0 +  0.1  (  1.3)     0  (  0.0)      0  ( 0.0)*       1.3
 2011    1369   2055S    69   6.0   3.0    0.1 +  1.1  ( 16.3)    13  (  2.9)     14     +         19.2
 2012BL    50   2011L    69   6.4   2.9    0.0 +  0.0  (  0.6)     8  (  0.1)     14  ( 0.1)*      10.9
 2030    1349   4033S    35  18.0   0.7    0.0 +  0.3  (  3.6)     1  (  0.2)      0                3.9
 2031BL    50   2030L    35  22.5   0.7    0.0 +  0.0  (  0.1)     1  (  0.0)      0                0.1
 2040      33    600     41  18.0  48.3    0.1 +  0.3  (  6.3)   140  (  1.0)      1                7.3
 2041      17    715      4  18.0   4.6    0.0 +  0.0  (  0.3)     0  (  0.0)      0                0.3
 2097BL    50   2098L    17  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1345   8000S    17  18.0   0.3    0.0 +  0.1  (  1.4)     0  (  0.1)      0                1.5
 2099     130   8000      2  18.0   0.2    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 3410     137   1791     56   9.0  33.4    0.6 +  0.6  ( 18.1)   111  (  2.3)      4               20.4     34     39  12
 3411    1012   2422Sf   77   9.0  16.2    3.0 +  1.6  ( 64.7)    71  ( 11.0)     19     +         75.6     34     39  87
 3412BL    22   3411L    77  38.8  28.2    0.1 +  0.0  (  2.4)    97  (  0.3)     19     +          2.7     34     39  87
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     88 SECOND CYCLE  88 STEPS
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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)
3430	1332	3704S	64	9.1	4.9	0.9 +	0.9	(25.7)	20	(4.3)	8		29.9	34	40	2
3431BL	50	3430L	64	9.8	3.5	0.0 +	0.0	(0.7)	17	(0.1)	8		0.8	34	40	2
3440BL	28	3442L	67	7.2	44.1	0.3 +	0.1	(4.9)	102	(0.4)	10		5.3	34	19	32
3442	372	3730S	67	7.0	44.1	3.6 +	1.0	(64.7)	102	(5.4)	10		70.1	34	19	32
3443	322	1641	72	7.0	43.0	2.6 +	1.3	(54.6)	103	(4.7)	8		59.4	34	9	32
3450	50	10000	1	10.0	8.3	0.1 +	0.0	(1.6)	42	(0.0)	1		1.6	34	37	87
3451	50	10000	4	10.0	34.6	0.5 +	0.0	(6.8)	88	(0.0)	1		6.8	34	21	32
4010	1263	3804S	71	18.0	21.5	6.4 +	1.2	(107.3)	79	(21.2)	26		128.5	40	34	75
4011BL	22	4010L	71	22.5	21.5	0.1 +	0.0	(1.9)	79	(0.2)	26		2.1	40	34	75
4020	336	3395f	79	18.0	57.0	3.5 +	1.8	(75.5)	116	(8.2)	10		83.7	40	85	7
4030	162	1833	74	4.0	61.0	1.4 +	1.4	(39.0)	126	(2.7)	5		41.7	40	34	82
4031	1114	3960S	54	4.0	13.2	3.5 +	0.6	(57.9)	42	(6.2)	12		64.2	40	34	80
4032BL	22	4031L	54	38.2	18.2	0.1 +	0.0	(1.6)	76	(0.0)	12	(0.0)*	1.6	40	34	80
4097	1366	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
4098BL	22	4097L	17	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	365	8000	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4			
4110	1384	3922S	58	15.5	7.6	2.2 +	0.7	(41.5)	44	(9.8)	18		51.2	41	42	8
4111BL	50	4110L	58	25.0	9.1	0.1 +	0.0	(1.8)	67	(0.5)	18		2.3	41	42	8
4120	147	3007f	54	18.0	52.1	1.6 +	0.6	(30.2)	108	(3.4)	4		33.6	41	14	21
4130	308	2018	72	7.0	41.0	2.2 +	1.3	(49.8)	106	(4.4)	8		54.2	41	42	10
4131	987	1905S	67	7.0	13.0	2.6 +	1.0	(50.8)	84	(11.1)	22	+	61.9	41	26	8
4132BL	50	4131L	67	7.0	13.2	0.1 +	0.0	(2.6)	87	(0.6)	22	+	3.2	41	26	8
4150	50	10000	7	10.0	41.5	0.5 +	0.0	(8.2)	96	(0.0)	1		8.2	41	26	31
4199	135	8000	2	18.0	0.2	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
5010	694	3910S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
5020	673	1975S	35	9.0	1.4	0.0 +	0.3	(3.7)	2	(0.1)	0		3.8			
5021BL	28	5020L	35	7.2	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6010	171	715	29	18.0	4.3	0.0 +	0.2	(2.9)	0	(0.0)	0		2.9			
6011	19	1618	1	18.0	1.1	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6020	523	1800S	31	18.0	1.4	0.0 +	0.2	(3.0)	2	(0.2)	0		3.2			
6021BL	28	6020L	31	22.5	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6030	673	1975S	35	3.0	1.4	0.0 +	0.3	(3.7)	2	(0.2)	0		4.0			
6031BL	28	6030L	35	3.6	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	692	8000S	9	18.0	0.2	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
-180	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	1	18	25
-580	50	10000	6	10.0	38.9	0.5 +	0.0	(7.7)	93	(0.0)	1		7.7	5	76	83
-3460	10	10000	0	10.0	22.8	0.1 +	0.0	(0.9)	71	(0.0)	0		0.9	34	7	32
-3461	10	10000	1	10.0	41.3	0.1 +	0.0	(1.6)	96	(0.0)	0		1.6	34	7	12
-4080	10	10000	0	10.0	16.1	0.0 +	0.0	(0.6)	59	(0.0)	0		0.6	40	80	27
-4081	10	10000	1	10.0	34.6	0.1 +	0.0	(1.4)	88	(0.0)	0		1.4	40	16	27
-4082	10	10000	1	10.0	38.8	0.1 +	0.0	(1.5)	93	(0.0)	0		1.5	40	12	19

*** 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)	
3288.8	155.9	21.1	43.4	21.3	(920.1) +	(138.4) +	(10.2) =	1068.7	TOTALS
88.4	4.8	18.5	1.1	0.5	(21.4) +	(3.3) +	(10.2) =	34.9	BUSES
3200.4	151.2	21.2	42.4	20.9	(898.7) +	(135.1) +	(0.0) =	1033.8	OTHER
									ROUTE
799.4	33.1	24.2	8.5	3.5	(170.4) +	(16.3) +	(0.0) =	186.7	1
641.9	23.5	27.3	2.9	2.7	(80.2) +	(15.2) +	(0.0) =	95.3	2

.

88 SECOND CYCLE 88 STEPS

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	194.3	+	76.3	+	63.5	=	334.1

NO. OF ENTRIES TO SUBPT = 11
NO. OF LINKS RECALCULATED= 698

PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ______________________________________________


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                  program advice and maintenance, contact:

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            RG40 3GA,UK
 ---------------------------------------------------------------------------
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 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_INTERIM_AM.DAT"   at 16:48   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13878 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
61)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
62)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
63)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
64)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
65)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
66)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
67)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
68)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
69)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
70)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
71)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
72)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
73)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
74)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
75)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
76)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
87)=	32	1010	991	0	4010	886	15	4020	105	15	0	0	0	0	0	0
88)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	1215	0	3430	769	19	3443	446	19	0	0	0	0	0	0
90)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1207	0	4110	825	23	4121	382	18	0	0	0	0	0	0
95)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1476	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1176	0	2011	1142	18	2040	34	18	0	0	0	0	0	0
102)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
103)=	32	3010	819	0	2030	800	17	2041	19	17	0	0	0	0	0	0
104)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	825	0	1010	825	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	167	0	1010	167	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
108)=	32	3430	769	0	4130	769	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	402	0	5010	402	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	446	0	5010	446	7	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	569	0	3411	167	18	3442	402	10	0	0	0	0	0	0
116)=	32	4010	886	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	158	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	598	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4030	217	0	1030	217	5	0	0	0	0	0	0	0	0	0
121)=	32	4031	1022	0	1030	978	5	1040	44	4	0	0	0	0	0	0
122)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
123)=	32	4097	1593	0	4020	493	18	4030	78	18	4031	1022	18	0	0	0
124)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
125)=	32	4099	297	0	4012	158	18	4030	139	18	0	0	0	0	0	0
126)=	32	4110	825	0	7010	825	7	0	0	0	0	0	0	0	0	0
127)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
128)=	32	4120	333	0	0	0	20	0	0	0	0	0	0	0	0	0
129)=	32	4121	382	0	0	0	18	0	0	0	0	0	0	0	0	0
130)=	32	4130	819	0	3010	819	5	0	0	0	0	0	0	0	0	0
131)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
132)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
133)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
135)=	32	4199	383	0	4120	333	18	4130	50	18	0	0	0	0	0	0
136)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
137)=	32	5010	848	0	6010	162	3	6020	685	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	162	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	771	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	685	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	771	0	6011	771	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	825	0	3410	825	8	0	0	0	0	0	0	0	0	0

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147)=  32    7011      50       0    3412      22    3200    3440      28    3200       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.
148)=  33    4020    1641       6       0       0       0       0
149)=  33    4110    2040       4       0       0       0       0
150)=  33    4130    1696       3       0       0       0       0

                                                GRAPH  PLOT  CARDS
CARD   CARD   LINK    LINK    LINK    LINK    LINK    LINK    LINK    LINK
 NO.   TYPE    NO.     NO.     NO.     NO.     NO.     NO.     NO.     NO.
151)=  35    4031       0       0       0       0       0       0       0       0       0       0       0       0       0       0

                                                LINK DATA:  QUEUE CONSTRAINTS
CARD   CARD   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE   LINK    LIMIT   QUEUE
 NO.   TYPE    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT    NO.    QUEUE  WEIGHT
152)=  38    1010      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
153)=  38    1011      12    9999       0       0       0       0       0       0       0       0       0       0       0       0
154)=  38    1030      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
155)=  38    1031      10    9999       0       0       0       0       0       0       0       0       0       0       0       0
156)=  38    2010       4    9999       0       0       0       0       0       0       0       0       0       0       0       0
157)=  38    2011      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
158)=  38    2012      14    9999       0       0       0       0       0       0       0       0       0       0       0       0
159)=  38    3431       7    9999       0       0       0       0       0       0       0       0       0       0       0       0
160)=  38    4032       8    9999       0       0       0       0       0       0       0       0       0       0       0       0

                                                USER-DEFINED ROUTES

CARD   CARD  ROUTE      ROUTE
 NO.   TYPE  NUMBER  DESCRIPTION

161)=  41       1    Southbound
162)=  41       2    Northbound

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.

163)=  42       1    2030    3010    4130    3430    1030    4031    4097
164)=  42       2    4010    1010    3410    7010    4110    2011    2098

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

     75 SECOND CYCLE  75 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

   34       3      12      50      67
   40       2      26      67
   41       3       0      36      42

 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)

 1010     991   2055     48  15.0   1.7    0.0 +  0.5  (  6.6)     2  (  0.3)      0  ( 0.0)*      6.9
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1030    1215   2055     59  19.0   2.1    0.0 +  0.7  ( 10.2)     3  (  0.5)      1  ( 0.0)*     10.7
 1031BL    22   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1040      44    715     10  20.0   4.5    0.0 +  0.1  (  0.8)     0  (  0.0)      0                0.8
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 2010      63   1000     27   3.0  10.4    0.0 +  0.2  (  2.6)     0  (  0.0)      0  ( 0.0)*      2.6
 2011    1171<  2115S    58  21.4   2.4    0.1 +  0.7  ( 10.9)    17  (  4.5)     10  ( 0.0)*     15.4
 2012BL    50   2011L    58  29.3   2.6    0.0 +  0.0  (  0.5)    28  (  0.2)     10  ( 0.0)*      0.7
 2030    1476   3786S    40  18.0   0.8    0.0 +  0.3  (  4.6)     1  (  0.3)      0                5.0
 2031BL    50   2030L    40  22.5   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 2040      34    600     48  18.0  58.4    0.1 +  0.4  (  7.8)   131  (  0.9)      1                8.8
 2041      19    715      5  18.0   5.0    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 2097BL    50   2098L    15  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0                0.1
 2098    1142<  8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0                1.3
 2099     739   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.1)      0                0.8
 3010     819   2075     39  17.0   1.4    0.0 +  0.3  (  4.6)     2  (  0.3)      0                5.0
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0                0.2
 3410     825   1910    104   6.0 148.6    8.4 + 25.7  (483.6)   201  ( 28.3)     43     +        511.9     34     20  50
 3411     167   1993S    23   6.0  26.4    1.1 +  0.1  ( 17.4)    95  (  2.7)      4               20.1     34     20  50
 3412BL    22   3411L    23  36.0  18.1    0.1 +  0.0  (  1.6)    81  (  0.0)      4                1.6     34     20  50
 3430     768   1972     89  11.0  19.5    0.6 +  3.6  ( 59.0)    77  ( 11.2)     18               70.3     34     18  50
 3431BL    22   1915      3  12.9   2.4    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*      0.2     34     18  50
 3440BL    28   1665     14   9.0  40.0    0.2 +  0.1  (  4.4)   101  (  0.4)      1                4.8     34      4  12
 3442     402   1787     65   7.0  28.9    2.3 +  0.9  ( 45.8)    91  (  8.6)      8               54.5     34     62  12
 3443     447   1577     82   7.0  39.5    2.8 +  2.1  ( 69.7)   109  ( 11.4)     11               81.1     34     62  12
 3450      50  10000      4  10.0  30.0    0.4 +  0.0  (  5.9)    88  (  0.0)      1                5.9     34     58  67
 3451      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     34     20  50
 3499     569   8000      7  12.3   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0                0.6
 4010     886   1949     92  18.0  38.6    4.3 +  5.2  (135.0)   114  ( 21.4)     22              156.4     40     31  67
 4011BL    22   4012L    21  22.5  13.5    0.1 +  0.0  (  1.2)    57  (  0.2)      2                1.4     40     31  67
 4012     158   1707S    21  18.0  13.5    0.5 +  0.1  (  8.4)    57  (  1.9)      2               10.3     40     31  67
 4020     598   2498f    62  20.0  22.0    2.8 +  0.8  ( 51.9)    78  (  7.9)     10               59.8     40     73  26
 4030     216   1774    131   5.0 504.7    2.7 + 27.6  (430.0)   266  (  8.2)     33     +        438.2     40     31  71
 4031    1021   1907S   111   5.0 210.3    5.1 + 54.5  (847.1)   233  ( 34.0)     79     +        881.1     40     31  67
 4032BL    22   4031L   111  39.8 218.5    0.2 +  1.2  ( 19.0)   239  (  0.0)     79  (59.0)*    5918.4     40     31  67
 4097    1472<  8000S    19  18.0   0.3    0.0 +  0.1  (  1.6)     0  (  0.1)      0                1.7
 4098BL    21   4097L    19  22.5   0.3    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 4099     263<  8000      3  18.0   0.2    0.0 +  0.0  (  0.2)     0  (  0.0)      0                0.3
 4110     789<  2383f     80   7.0  38.8    6.5 +  2.0  (120.6)    85  (  7.7)     15     +        128.3     41     12  42
 4111BL    50   2040      7  26.4  21.9    0.3 +  0.0  (  4.3)    60  (  0.0)      1                4.3     41     16  42
 4120     333   1959     55  20.0  28.4    2.0 +  0.6  ( 37.3)    89  (  5.1)      6               42.4     41     53   0
 4121     382   1773     70  18.0  34.0    2.4 +  1.2  ( 51.2)    99  (  8.0)      8               59.2     41     53   0
 4130     819   2488f    99   5.0  75.8    5.3 + 12.0  (244.9)   154  ( 18.0)     29     +        263.0     41     12  36
 4131BL    50   1696     12  31.8  26.3    0.3 +  0.1  (  5.2)    82  (  0.0)      1                5.2     41     18  36
.

     75 SECOND CYCLE  75 STEPS

 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)

 4150      50  10000      2  10.0  19.0    0.3 +  0.0  (  3.7)    70  (  0.0)      1                3.7     41     53   0
 4151      50  10000      1  10.0  13.6    0.2 +  0.0  (  2.7)    59  (  0.0)      1                2.7     41     12  42
 4198BL    28   4199L     5  22.5   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0                0.0
 4199     384   8000S     5  18.0   0.2    0.0 +  0.0  (  0.4)     0  (  0.0)      0                0.4
 5010     849   3929S    22   3.0   0.6    0.0 +  0.1  (  2.0)     1  (  0.1)      0                2.1
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 5011BL    28   5010L    22   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010     162    715     29  18.0   4.5    0.0 +  0.2  (  2.9)      0  (  0.0)       0                2.9
 6011     771   1618S    49  18.0   2.2    0.0 +  0.5  (  6.7)      3  (  0.5)       0                7.2
 6012BL    28   6011L    49  22.5   2.2    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.3
 6020     685   1800S    40  18.0   1.7    0.0 +  0.3  (  4.5)      2  (  0.3)       0                4.8
 6021BL    28   6020L    40  22.5   1.7    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L    10  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     771   8000S    10  18.0   0.2    0.0 +  0.1  (  0.8)      0  (  0.1)       0                0.8
 7010     789<  2055     38   8.0   1.4    0.0 +  0.3  (  4.4)      2  (  0.2)       0                4.6
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     10  10.0  55.0    0.1 +  0.1  (  2.2)    120  (  0.0)       0                2.2     41     39  42
                 *** f - average saturation flow for flared link ***

  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)

  3564.7         286.5       12.4         49.2    143.0    (2729.0) + (  184.0)  +  (5899.4)   =    8812.4      TOTALS
    96.7           7.0       13.7          1.1      1.5    (  37.7) + (    0.9)  +  (5899.4)   =    5938.0      BUSES
  3468.0         279.5       12.4         48.1    141.5    (2691.4) + (  183.0)  +  (   0.0)   =    2874.4      OTHER
-----------------------------------------------------------------------------------------------------------------------
                                                                                                                  ROUTE
  1143.1         113.1       10.1         11.0     71.6    (1172.1) + (   64.6)  +  (   0.0)   =    1236.7         1
  1014.3          80.1       12.7         19.4     34.3    ( 762.3) + (   62.5)  +  (   0.0)   =     824.8         2


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

FUEL CONSUMPTION PREDICTIONS       202.8         +     221.2         +      84.0         =     508.1

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

CYCLIC FLOW PROFILE GRAPHS

.
LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.35
     I
     I
     I
     I
 2000+
     I                                ^^        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^ ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
     I                                ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@1
 1500+                                ^^^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@11
     I                                ^^^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@111
     I                          1     ^^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@1111
     I                    111111111   ^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@1111
     I                 1111111111111  ^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
 1000+1              111111111111111 ^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1             11111111111111111 ^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11           1111111111111111111@^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I111         11111111111111111111@@^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1111       111111111111111111111@@@^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
  500+11111     1111111111111111111111@@@@@^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I1111111 11111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11111111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11111111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11111111111111111111111111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     +=========#=========#=========#=.........1.........1.........1........=#=====
```

PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800

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

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_INTERIM_PM.DAT"   at 16:48   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   60
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13677 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET.......................      SECOND SET.......................       THIRD SET.......................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
61)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
62)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
63)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
64)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
65)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
66)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
67)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
68)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
69)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
70)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
71)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
72)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
73)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
74)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
75)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
76)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
77)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
78)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
79)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
80)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
81)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
84)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
85)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
86)=	32	1010	1107	0	4010	1038	15	4020	69	15	0	0	0	0	0	0
87)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
88)=	32	1030	1047	0	3430	743	19	3443	304	19	0	0	0	0	0	0
89)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
90)=	32	1040	151	0	0	0	20	0	0	0	0	0	0	0	0	0
91)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
92)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
93)=	32	2011	1259	0	4110	884	23	4121	375	18	0	0	0	0	0	0
94)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
95)=	32	2030	1253	0	0	0	18	0	0	0	0	0	0	0	0	0
96)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
97)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
100)=	32	2098	1248	0	2011	1193	18	2040	55	18	0	0	0	0	0	0
101)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
102)=	32	3010	866	0	2030	835	17	2041	31	17	0	0	0	0	0	0
103)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
104)=	32	3410	884	0	1010	884	6	0	0	0	0	0	0	0	0	0
105)=	32	3411	223	0	1010	223	6	0	0	0	0	0	0	0	0	0
106)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
107)=	32	3430	743	0	4130	743	11	0	0	0	0	0	0	0	0	0
108)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
109)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
110)=	32	3442	462	0	5010	462	7	0	0	0	0	0	0	0	0	0
111)=	32	3443	304	0	5010	304	19	0	0	0	0	0	0	0	0	0
112)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
113)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3499	685	0	3411	223	18	3442	462	18	0	0	0	0	0	0
115)=	32	4010	1038	0	0	0	18	0	0	0	0	0	0	0	0	0
116)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
117)=	32	4012	386	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4020	293	0	0	0	20	0	0	0	0	0	0	0	0	0
119)=	32	4030	251	0	1030	251	5	0	0	0	0	0	0	0	0	0
120)=	32	4031	937	0	1030	786	5	1040	151	4	0	0	0	0	0	0
121)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
122)=	32	4097	1171	0	4020	224	18	4030	10	18	4031	937	18	0	0	0
123)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
124)=	32	4099	627	0	4012	386	18	4030	241	18	0	0	0	0	0	0
125)=	32	4110	884	0	7010	884	8	0	0	0	0	0	0	0	0	0
126)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
127)=	32	4120	249	0	0	0	20	0	0	0	0	0	0	0	0	0
128)=	32	4121	375	0	0	0	18	0	0	0	0	0	0	0	0	0
129)=	32	4130	866	0	3010	866	5	0	0	0	0	0	0	0	0	0
130)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
131)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
132)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
133)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
134)=	32	4199	373	0	4120	249	18	4130	124	18	0	0	0	0	0	0
135)=	32	5010	766	0	6010	186	3	6020	580	3	0	0	0	0	0	0
136)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	6010	186	0	0	0	18	0	0	0	0	0	0	0	0	0
138)=	32	6011	664	0	0	0	18	0	0	0	0	0	0	0	0	0
139)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
140)=	32	6020	580	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
143)=	32	6099	664	0	6011	664	18	0	0	0	0	0	0	0	0	0
144)=	32	7010	884	0	3410	884	8	0	0	0	0	0	0	0	0	0
145)=	32	7011	53	0	3412	25	3200	3440	28	3200	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.
146)=	33	4020	1641	6	0	0	0	0
147)=	33	4110	2040	4	0	0	0	0
148)=	33	4130	1696	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
149)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
150)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
151)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
152)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
153)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

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

.

75 SECOND CYCLE 75 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
34	3	40	5	21							
40	2	45	22								
41	2	0	40								

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) (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)
1010	1057<	2055	51	15.0	1.8	0.0 +	0.5	(7.5)	2	(0.4)	1	(0.0)*	7.9					
1011BL	25	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1					
1030	1046	2055	51	19.0	1.8	0.0 +	0.5	(7.3)	2	(0.4)	1	(0.0)*	7.7					
1031BL	25	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1					
1040	151	715	31	20.0	5.4	0.0 +	0.2	(3.2)	0	(0.0)	0		3.2					
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
2010	63	1000	18	3.0	6.4	0.0 +	0.1	(1.6)	0	(0.0)	0	(0.0)*	1.6					
2011	1215<	2115S	60	21.5	2.9	0.3 +	0.7	(14.0)	29	(8.2)	16	(0.1)*	28.9					
2012BL	53	2011L	60	29.3	3.6	0.0 +	0.0	(0.8)	57	(0.4)	16	(0.1)*	7.9					
2030	1253	3786S	34	18.0	0.7	0.0 +	0.3	(3.6)	1	(0.3)	0		3.8					
2031BL	53	2030L	34	22.5	0.7	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2					
2040	55	600	53	18.0	47.7	0.2 +	0.6	(10.4)	115	(1.3)	1		11.7					
2041	31	715	7	18.0	4.5	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
2097BL	53	2098L	16	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1					
2098	1207<	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
2099	482	8000	6	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5					
3010	865	2075	42	17.0	1.5	0.0 +	0.4	(5.1)	2	(0.4)	0		5.4					
3011BL	53	1945	3	20.8	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2					
3410	843<	1910	100	6.0	99.4	8.0 +	15.2	(330.4)	161	(24.3)	33	+	354.7	34	48	5		
3411	213	1993S	27	6.0	25.5	1.3 +	0.2	(21.4)	93	(3.6)	5		24.9	34	48	5		
3412BL	25	3411L	27	35.0	20.5	0.1 +	0.0	(2.0)	83	(0.0)	5		2.0	34	48	5		
3430	742	1972	81	11.0	34.3	5.0 +	2.0	(100.3)	113	(16.0)	18		116.3	34	46	5		
3431BL	25	1915	3	12.9	14.8	0.1 +	0.0	(1.5)	92	(0.3)	0	(0.0)*	1.8	34	46	5		
3440BL	28	1665	16	9.0	42.5	0.2 +	0.1	(4.7)	104	(0.4)	1		5.1	34	33	40		
3442	463	1787	81	7.0	39.3	3.0 +	2.0	(71.7)	108	(11.7)	11		83.4	34	17	40		
3443	303	1577	60	19.0	30.4	1.8 +	0.7	(36.3)	94	(0.9)	6		37.2	34	17	40		
3450	50	10000	4	10.0	31.0	0.4 +	0.0	(6.1)	90	(0.0)	1		6.1	34	13	21		
3451	50	10000	1	10.0	12.5	0.2 +	0.0	(2.5)	56	(0.0)	1		2.5	34	48	5		
3499	676	8000	8	18.0	0.2	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7					
4010	1038	1949	105	18.0	136.7	6.3 +	33.1	(559.5)	201	(44.2)	55	+	603.7	40	60	22		
4011BL	25	4012L	38	22.5	9.0	0.0 +	0.0	(0.9)	47	(0.2)	4		1.1	40	50	22		
4012	386	1707S	38	18.0	9.0	0.7 +	0.3	(13.8)	47	(3.9)	4		17.6	40	50	22		
4020	293	2954f	41	20.0	28.0	1.9 +	0.4	(32.4)	86	(4.3)	5		36.7	40	28	45		
4030	251	1774	92	5.0	87.8	2.1 +	4.1	(86.9)	162	(5.8)	8	+	92.7	40	50	23		
4031	935	1907S	79	4.8	11.6	1.3 +	1.8	(42.9)	45	(6.1)	9	+	49.0	40	50	22		
4032BL	25	4031L	79	23.8	10.0	0.0 +	0.0	(1.0)	24	(0.0)	9	(0.1)*	10.4	40	50	22		
4097	1169	8000S	15	18.0	0.3	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3					
4098BL	25	4097L	15	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4099	627	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6					
4110	840<	2415f	90	8.0	34.6	3.9 +	4.1	(114.5)	116	(8.9)	22	+	123.5	41	12	40		
4111BL	53	2040	8	31.4	18.4	0.2 +	0.0	(3.8)	84	(0.0)	1		3.9	41	16	40		
4120	249	1959	38	20.0	23.6	1.3 +	0.3	(23.1)	80	(3.4)	4		26.5	41	51	0		
4121	375	1773	63	18.0	29.4	2.2 +	0.9	(43.5)	92	(7.3)	7		50.8	41	51	0		
4130	865	2428f	92	5.0	41.5	4.8 +	5.1	(141.5)	116	(14.4)	22	+	155.9	41	12	40		
4131BL	53	1696	10	31.8	22.5	0.3 +	0.1	(4.7)	76	(0.0)	1		4.7	41	18	40		

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75 SECOND CYCLE 75 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 (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) (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)
4150	50	10000	2	10.0	17.5	0.2 +	0.0	(3.5)	67	(0.0)	1		3.5	41	51	0		
4151	50	10000	1	10.0	14.9	0.2 +	0.0	(2.9)	62	(0.0)	1		2.9	41	12	40		
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4199	374	8000S	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.4					
5010	766	3929S	20	3.0	0.6	0.0 +	0.1	(1.7)	1	(0.1)	0		1.9					
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1					
6010	186	715	32	18.0	4.5	0.0 +	0.2	(3.3)	0	(0.0)	0		3.3					
6011	664	1618S	43	18.0	1.9	0.0 +	0.4	(5.1)	3	(0.4)	0		5.4					
6012BL	28	6011L	43	22.5	1.9	0.0 +	0.0	(0.2)	3	(0.0)	0		0.2					
6020	580	1800S	34	18.0	1.5	0.0 +	0.2	(3.5)	2	(0.2)	0		3.7					
6021BL	28	6020L	34	22.5	1.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2					
6098BL	28	6099L	9	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
6099	664	8000S	9	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7					
7010	840<	2055	41	8.0	1.5	0.0 +	0.3	(4.9)	2	(0.2)	0		5.1					
7011BL	53	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2					

*** 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)	
3468.9	215.9	16.1	46.2	75.7	(1730.8) +	(168.3) +	(22.8) =	1922.0	TOTALS
102.6	6.1	16.9	1.0	0.4	(20.7) +	(1.5) +	(16.1) =	38.3	BUSES
3366.3	209.8	16.0	45.2	75.2	(1710.2) +	(166.9) +	(6.7) =	1883.7	OTHER

ROUTE

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	198.5	+	140.2	+	76.9	=	415.7

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 60

PROGRAM TRANSYT FINISHED

PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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1            _________________ T R A N S Y T 12 _________________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ______________________________________________


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                  program advice and maintenance, contact:

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            RG40 3GA,UK
 -------------------------------------------------------------------------
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 -------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_INTERIM_SAT.DAT"   at 16:47   on 20130312

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13380 WORDS
  CORE AVAILABLE =  72000 WORDS
.

           DATA INPUT :-
            ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34               7       1       5
  19)=  10      40               7       7
  20)=  10      41              12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE             S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34               8      12      12
  22)=  11      40               5       6
  23)=  11      41              12       0      11

                                 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
  24)=  12      34       1      12      45      58
  25)=  12      40       1      26       4
  26)=  12      41       1       0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
63)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
64)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
65)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
66)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
67)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
68)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
69)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
70)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
71)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
72)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
73)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
74)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
75)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
76)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
77)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
78)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
79)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
80)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
81)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
82)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
83)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
85)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
86)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
88)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
89)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
90)=	32	1010	1101	0	4010	1020	15	4020	81	15	0	0	0	0	0	0
91)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1030	1087	0	3430	730	19	3443	357	19	0	0	0	0	0	0
93)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
94)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
95)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
96)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
97)=	32	2011	1248	0	4110	823	23	4121	316	18	4200	109	23	0	0	0
98)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
99)=	32	2030	1293	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
101)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
102)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
104)=	32	2098	1226	0	2011	1193	18	2040	33	18	0	0	0	0	0	0
105)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
106)=	32	3010	780	0	2030	763	17	2041	17	17	0	0	0	0	0	0
107)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
108)=	32	3410	932	0	1010	932	6	0	0	0	0	0	0	0	0	0
109)=	32	3411	173	0	1010	173	6	0	0	0	0	0	0	0	0	0
110)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
111)=	32	3430	730	0	4130	532	11	4132	198	11	0	0	0	0	0	0
112)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
113)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
114)=	32	3442	347	0	5010	347	7	0	0	0	0	0	0	0	0	0
115)=	32	3443	357	0	5010	357	7	0	0	0	0	0	0	0	0	0
116)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
117)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3499	520	0	3411	173	18	3442	347	10	0	0	0	0	0	0
119)=	32	4010	1020	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
121)=	32	4012	191	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4020	323	0	0	0	20	0	0	0	0	0	0	0	0	0
123)=	32	4030	159	0	1030	159	5	0	0	0	0	0	0	0	0	0
124)=	32	4031	1027	0	1030	918	5	1040	109	4	0	0	0	0	0	0
125)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
126)=	32	4097	1269	0	4020	242	18	4031	1027	18	0	0	0	0	0	0
127)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4099	350	0	4012	191	18	4030	159	18	0	0	0	0	0	0
129)=	32	4110	823	0	7010	823	7	0	0	0	0	0	0	0	0	0
130)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
131)=	32	4120	227	0	0	0	20	0	0	0	0	0	0	0	0	0
132)=	32	4121	316	0	0	0	18	0	0	0	0	0	0	0	0	0
133)=	32	4130	532	0	3010	532	5	0	0	0	0	0	0	0	0	0
134)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
135)=	32	4132	249	0	3010	248	5	0	0	0	0	0	0	0	0	0
136)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
137)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
138)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	4199	278	0	4120	227	18	4132	51	18	0	0	0	0	0	0
140)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
141)=	32	5010	704	0	6010	239	3	6020	466	3	0	0	0	0	0	0
142)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
143)=	32	6010	239	0	0	0	18	0	0	0	0	0	0	0	0	0
144)=	32	6011	575	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6020	466	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
149)=	32	6099	575	0	6011	575	18	0	0	0	0	0	0	0	0	0
150)=	32	7010	932	0	3410	932	8	0	0	0	0	0	0	0	0	0
151)=	32	7011	50	0	3412	22	3200	3440	28	3200	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.
152)=	33	4020	1641	6	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.
153)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
154)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
161)=	41	1	Southbound
162)=	41	2	Northbound

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.
163)=	42	1	2030	3010	4130	3430	1030	4031	4097					
164)=	42	2	4010	1010	3410	7010	4110	2011	2098					

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

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66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	-------DELAY-------- UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND (SECONDS)
1010	1101	2055	54	15.0	1.9	0.0 +	0.6	(8.2)	3	(0.4)	1	(0.0)*	8.6			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	1024<	2055	50	19.0	1.7	0.0 +	0.5	(7.0)	2	(0.4)	0	(0.0)*	7.4			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	22	20.0	4.7	0.0 +	0.1	(2.0)	0	(0.0)	0		2.0			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	47	1000	14	3.0	6.4	0.0 +	0.1	(1.2)	0	(0.0)	0	(0.0)*	1.2			
2011	1068<	2115S	53	21.7	1.8	0.0 +	0.5	(7.6)	2	(0.6)	1		8.2			
2012BL	50	2011L	53	68.5	1.8	0.0 +	0.0	(0.4)	3	(0.0)	1	(0.0)*	0.4			
2030	1293	3786S	35	18.0	0.7	0.0 +	0.3	(3.8)	1	(0.3)	0		4.1			
2031BL	50	2030L	35	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	33	600	34	18.0	30.2	0.0 +	0.3	(3.9)	101	(0.7)	0		4.6			
2041	17	715	4	18.0	4.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	14	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1054<	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2			
2099	577	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	780	2075	38	17.0	1.4	0.0 +	0.3	(4.3)	2	(0.3)	0		4.6			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	931	1910	124	6.0	387.0	8.2 +	91.9	(999.9)	267	(42.5)	110	+	1463.7	34	20	45
3411	174	1993S	25	6.0	19.5	0.8 +	0.1	(13.4)	91	(2.7)	3		16.1	34	20	45
3412BL	22	3411L	25	36.0	13.9	0.1 +	0.0	(1.2)	69	(0.0)	3		1.2	34	20	45
3430	666<	1972	80	11.0	12.7	0.4 +	1.9	(33.5)	63	(8.8)	13		42.3	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	346	1787	58	7.0	25.4	1.8 +	0.7	(34.7)	89	(7.2)	6		41.9	34	57	12
3443	358	1577	68	7.0	29.5	1.9 +	1.1	(41.7)	97	(8.1)	7		49.8	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	520	8000	7	12.7	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
4010	1020	1949	86	18.0	21.5	3.0 +	3.0	(86.5)	92	(19.8)	18		106.3	40	31	4
4011BL	22	4012L	21	22.5	8.1	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	191	1707S	21	18.0	8.1	0.3 +	0.1	(6.1)	45	(1.8)	2		7.9	40	31	4
4020	323	3024f	41	20.0	24.1	1.8 +	0.4	(30.6)	85	(4.7)	5		35.3	40	10	26
4030	149	1774	62	5.0	38.0	0.8 +	0.8	(22.3)	115	(2.6)	3		25.0	40	31	8
4031	973<	1907S	86	4.9	17.4	1.8 +	2.9	(66.8)	58	(8.5)	12	+	75.3	40	31	4
4032BL	22	4031L	86	5.1	22.1	0.1 +	0.1	(1.9)	79	(0.2)	12	(0.7)*	74.1	40	31	4
4097	1215<	8000S	15	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
4098BL	22	4097L	15	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	340	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	665<	1919	71	7.0	29.3	4.2 +	1.2	(76.9)	64	(5.8)	10		82.7	41	12	43
4111BL	50	2040S	14	45.4	13.8	0.2 +	0.0	(2.7)	65	(0.0)	2		2.8	41	12	43
4120	227	1959	59	20.0	35.3	1.5 +	0.7	(31.6)	104	(4.0)	4		35.6	41	54	0
4121	316	1773	90	18.0	69.9	2.3 +	3.9	(87.1)	151	(10.1)	9		97.2	41	54	0
4130	532	2056	114	5.0	274.8	4.6 +	36.0	(576.7)	256	(19.5)	46	+	596.1	41	12	26
4131BL	50	1696S	78	31.8	44.1	0.3 +	0.3	(8.7)	120	(0.0)	7		8.7	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)	START END 2ND (SECONDS)
4132	250	4131L	78	5.0	44.0	1.7 +	1.4	(43.4)	121	(4.3)	7		47.7	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	278	8000S	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			

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 4200      87<  4111L    14   7.0  20.1    0.4 +  0.1  (  6.9)     58  (  0.7)       2                7.6     41     12  43
 5010     704   3929S    19   3.0   0.6    0.0 +  0.1  (  1.6)      1  (  0.1)       0                1.7
 5011BL    28   5010L    19   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010     239    715     39  18.0   4.9    0.0 +  0.3  (  4.6)      0  (  0.0)       0                4.6
 6011     575   1618S    37  18.0   1.8    0.0 +  0.3  (  4.0)      3  (  0.3)       0                4.3
 6012BL    24   6011L    37  22.5   1.8    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.2
 6020     466   1800S    27  18.0   1.4    0.0 +  0.2  (  2.5)      2  (  0.2)       0                2.7
 6021BL    28   6020L    27  22.5   1.4    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    24   6099L     7  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     575   8000S     7  18.0   0.2    0.0 +  0.0  (  0.6)      0  (  0.0)       0                0.6
 7010     752<  2055     37   8.0   1.4    0.0 +  0.3  (  4.1)      2  (  0.2)       0                4.3
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
                  *** f - average saturation flow for flared link ***

  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)

  3261.8         275.9       11.8         37.3    151.1    (2674.6) + (  156.1)  +  (  71.9)   =    2902.6      TOTALS
    95.1           6.5       14.6          0.9      0.6    (  20.8) + (    0.9)  +  (  71.9)   =      93.6      BUSES
  3166.6         269.3       11.8         36.4    150.5    (2653.8) + (  155.2)  +  (   0.0)   =    2809.0      OTHER
-----------------------------------------------------------------------------------------------------------------------
                                                                                                                ROUTE
   995.6          75.4       13.2          6.8     42.0    ( 693.3) + (   37.9)  +  (   0.0)   =     731.2         1
  1090.5         141.6        7.7         15.4     97.7    (1605.6) + (   69.5)  +  (   0.0)   =    1675.1         2


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

FUEL CONSUMPTION PREDICTIONS       185.8         +     216.7         +      71.8         =     474.3

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62

CYCLIC FLOW PROFILE GRAPHS

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LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.38
     I
     I
     I
     I
 2000+
     I                                     ^^^^^^^^^^^^
     I                                  ^^^^^^^^^^^^^^^
     I                               ^^^^^^^^^^^^^^^^^^          @@@@@@
     I                               ^^^^^^^^^^^^^^^^^^    @@@@@@@@@@@@@
 1500+@                              ^^^^^^^^^^^^^^^^^^  @@@@@@@@@@@@@@@
     I@                              ^^^^^^^^^^^^^^^^^^ @@@@@@@@@@@@@@@
     I@@                      1      ^^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@
     I@@@                  11111     ^^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@
     I@@@                111111111   ^^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@
 1000+@@@@              11111111111  ^^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@
     I@@@@@            1111111111111 ^^^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@
     I@@@@@@@         111111111111111 ^^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@
     I@@@@@@@@       11111111111111111@^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@
     I@@@@@@@@1     111111111111111111@@^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@
  500+@@@@@@@@11   1111111111111111111@@@@^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@
     I@@@@@@@@1111 11111111111111111111@@@@@@@^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@
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     +.....====#=========#=========#=.........1.........1.........1......
```

PROGRAM TRANSYT FINISHED

TRANSYT Model Outputs

As Reported in Section 7 of Transport Assessment

PRT

PRT File
AM Peak : 2011 Flow 0800-0900 + committed + 385 units

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

                    Traffic Network Study Tool

              Analysis Program Release 7  (July 2010)
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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:- "WEST HENDON A5_DETAILED_AM_OPT_V3.DAT"   at 09:44   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   40
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  11508 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      80      40      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      14      60      73
  23)=  12      40       1      20      72
  24)=  12      41       1       0      44      50

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      48       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
88)=	32	1010	967	0	4010	880	15	4021	87	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1191	0	3430	769	19	3443	422	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1191	0	4110	825	23	4121	366	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1472	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	1161	0	2011	1127	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	815	0	2030	796	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	825	0	1010	825	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	160	0	1010	160	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	769	0	4130	769	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	398	0	5010	398	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	422	0	5010	422	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	558	0	3411	160	18	3442	398	10	0	0	0	0	0	0
117)=	32	4010	880	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	158	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	493	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	87	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	267	0	1030	267	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	948	0	1030	904	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1569	0	4020	493	18	4030	128	18	4031	948	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	297	0	4012	158	18	4030	139	18	0	0	0	0	0	0
128)=	32	4110	825	0	7010	825	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	294	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	366	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	815	0	3010	815	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	340	0	4120	294	18	4130	46	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	819	0	6010	134	3	6020	685	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	134	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	756	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	685	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

147)=	32	6099	756	0	6011	756	18	0	0	0	0	0	0	0	0	0
148)=	32	7010	825	0	3410	825	8	0	0	0	0	0	0	0	0	0
149)=	32	7011	50	0	3412	22	3200	3440	28	3200	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.
150)=	33	4110	2040	4	0	0	0	0
151)=	33	4130	1696	3	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
152)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
153)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

80 SECOND CYCLE 40 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
34	3	14	60	73							
40	2	20	72								
41	3	0	44	50							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER PCU CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) (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 END
1010	967	2055	47	15.0	1.7	0.0 +	0.4	(6.3)	2	(0.3)	0	(0.0)*	6.6			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	1191	2055	58	19.0	2.1	0.0 +	0.7	(9.8)	3	(0.4)	1	(0.0)*	10.2			
1031BL	22	1915	1	19.1	0.9	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	44	715	10	20.0	4.4	0.0 +	0.1	(0.8)	0	(0.0)	0		0.8			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	64	1000	26	3.0	9.6	0.0 +	0.2	(2.4)	0	(0.0)	0	(0.0)*	2.4			
2011	1192	2115S	59	21.5	2.2	0.1 +	0.7	(10.5)	8	(2.2)	8	(0.0)*	12.6			
2012BL	50	2011L	59	29.3	2.3	0.0 +	0.0	(0.5)	11	(0.1)	8	(0.0)*	0.5			
2030	1472	3786S	40	18.0	0.8	0.0 +	0.3	(4.6)	1	(0.3)	0		4.9			
2031BL	50	2030L	40	22.5	0.8	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
2040	34	600	54	18.0	65.5	0.1 +	0.6	(8.8)	200	(1.4)	1		10.2			
2041	19	715	5	18.0	5.0	0.0 +	0.0	(0.4)	0	(0.0)	0		0.4			
2097BL	50	2098L	15	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1161	8000S	15	18.0	0.3	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3			
2099	741	8000	9	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0		0.8			
3010	814	2075	39	17.0	1.4	0.0 +	0.3	(4.6)	2	(0.3)	0		4.9			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	826	1910	89	6.0	37.3	4.9 +	3.7	(121.6)	83	(11.8)	16	+	133.4	34	22	60
3411	161	1993S	19	6.0	18.3	0.7 +	0.1	(11.6)	63	(1.7)	3		13.3	34	22	60
3412BL	22	3411L	19	36.0	19.4	0.1 +	0.0	(1.7)	75	(0.0)	3		1.7	34	22	60
3430	768	1972	76	11.0	9.1	0.4 +	1.6	(27.5)	56	(8.2)	16		35.7	34	20	60
3431BL	22	1915	2	12.9	2.0	0.0 +	0.0	(0.2)	3	(0.0)	0	(0.0)*	0.2	34	20	60
3440BL	28	1665	13	9.0	40.9	0.2 +	0.1	(4.5)	100	(0.4)	1		4.9	34	5	14
3442	398	1787	77	7.0	41.3	2.9 +	1.7	(64.8)	106	(9.9)	10		74.7	34	72	14
3443	423	1577	93	7.0	71.5	3.3 +	5.1	(119.3)	142	(14.0)	14	+	133.3	34	72	14
3450	50	10000	7	10.0	37.7	0.5 +	0.0	(7.4)	96	(0.0)	1		7.5	34	68	73
3451	50	10000	1	10.0	11.4	0.2 +	0.0	(2.2)	52	(0.0)	1		2.3	34	22	60
3499	559	8000	7	12.3	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6			
4010	880	1949	75	18.0	17.8	2.9 +	1.5	(61.9)	75	(14.1)	15		75.9	40	25	72
4011BL	22	4012L	18	22.5	9.3	0.0 +	0.0	(0.8)	45	(0.1)	2		0.9	40	25	72
4012	158	1707S	18	18.0	9.3	0.3 +	0.1	(5.8)	45	(1.5)	2		7.3	40	25	72
4020	493	1754	98	20.0	91.3	3.9 +	8.6	(177.6)	160	(13.5)	20		191.1	40	78	20
4021	87	1641	18	18.0	26.2	0.5 +	0.1	(9.0)	78	(1.4)	2		10.4	40	78	20
4030	267	1774	80	5.0	42.8	1.2 +	1.9	(45.1)	121	(4.6)	7		49.7	40	25	76
4031	949	1907S	85	5.0	16.9	1.8 +	2.7	(63.2)	59	(8.0)	13	+	71.2	40	25	72
4032BL	22	4031L	85	39.8	24.7	0.1 +	0.1	(2.1)	85	(0.0)	13	(0.8)*	81.8	40	25	72
4097	1570	8000S	20	18.0	0.3	0.0 +	0.1	(1.7)	0	(0.1)	0		1.9			
4098BL	22	4097L	20	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	297	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	826	2288f	74	7.0	27.5	4.9 +	1.4	(89.7)	71	(6.4)	13	+	96.1	41	12	50
4111BL	50	2040	6	26.4	14.9	0.2 +	0.0	(2.9)	42	(0.0)	0		3.0	41	16	50
4120	294	1959	60	20.0	35.6	2.2 +	0.7	(41.3)	96	(4.8)	6		46.1	41	61	0
4121	366	1773	83	18.0	50.4	2.9 +	2.2	(72.7)	117	(9.1)	10		81.8	41	61	0
4130	814	2383f	83	5.0	29.4	4.3 +	2.3	(94.3)	94	(11.0)	17	+	105.3	41	12	44

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80 SECOND CYCLE 40 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 (PCU-H/H)	DELAY RANDOM+ OVERSAT (U+R+O=MEAN Q) (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 END
4131BL	50	1696	9	31.8	21.7	0.3 +	0.0	(4.3)	70	(0.0)	1		4.3	41	18	44
4150	50	10000	2	10.0	23.2	0.3 +	0.0	(4.6)	75	(0.0)	1		4.6	41	61	0
4151	50	10000	1	10.0	11.4	0.2 +	0.0	(2.2)	52	(0.0)	1		2.3	41	12	50
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			

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 4199     340   8000S     5  18.0   0.2    0.0 +  0.0  (  0.3)      0  (  0.0)       0                0.3
 5010     819   3929S    22   3.0   0.6    0.0 +  0.1  (  1.9)      1  (  0.1)       0                2.0
 5011BL    28   5010L    22   3.6   0.6    0.0 +  0.0  (  0.1)      1  (  0.0)       0                0.1
 6010     134    715     24  18.0   4.2    0.0 +  0.2  (  2.2)      0  (  0.0)       0                2.2
 6011     756   1618S    48  18.0   2.2    0.0 +  0.5  (  6.4)      3  (  0.4)       0                6.9
 6012BL    28   6011L    48  22.5   2.2    0.0 +  0.0  (  0.2)      3  (  0.0)       0                0.2
 6020     685   1800S    40  18.0   1.7    0.0 +  0.3  (  4.5)      2  (  0.3)       0                4.8
 6021BL    28   6020L    40  22.5   1.7    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    28   6099L    10  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     756   8000S    10  18.0   0.2    0.0 +  0.1  (  0.7)      0  (  0.0)       0                0.8
 7010     826   2055     40   8.0   1.5    0.0 +  0.3  (  4.8)      2  (  0.2)       0                5.0
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
-4200      10   1800     11  10.0  58.6    0.1 +  0.1  (  2.3)    120  (  0.0)       0                2.3     41     47  50
                 *** f - average saturation flow for flared link ***

  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)

  3500.8         171.1       20.5         39.1     39.3    (1113.7) + (  127.0)  +  (  79.7)   =    1320.4      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.4       20.6         38.2     39.0    (1095.4) + (  126.3)  +  (   0.0)   =    1221.7      OTHER

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

FUEL CONSUMPTION PREDICTIONS       199.1         +      90.4         +      58.1         =     347.6

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   62
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  233
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  232
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  370
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER
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NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  256
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  260
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32   1
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  256
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32   1  -1
 - (SECONDS)

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

  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)

  3500.8         171.0       20.5         39.1     39.2    (1112.2) + (  126.9)  +  (  79.7)   =    1318.7      TOTALS
    96.7           5.7       17.0          0.9      0.4    (  18.3) + (    0.7)  +  (  79.7)   =      98.7      BUSES
  3404.1         165.3       20.6         38.2     38.9    (1093.9) + (  126.2)  +  (   0.0)   =    1220.0      OTHER

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  429
.

     80 SECOND CYCLE  40 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   12  32  -1  12  32   1  -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

   34       3      14      60      73
   40       2      20      72
   41       3       0      44      50

 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)

 1010     967   2055     47  15.0   1.7    0.0 +  0.4  (  6.3)     2  (  0.3)      0  ( 0.0)*      6.6
 1011BL    22   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1030    1191   2055     58  19.0   2.1    0.0 +  0.7  (  9.8)     3  (  0.4)      1  ( 0.0)*     10.2
 1031BL    22   1915      1  19.1   0.9    0.0 +  0.0  (  0.1)     1  (  0.0)      0  ( 0.0)*      0.1
 1040      44    715     10  20.0   4.4    0.0 +  0.1  (  0.8)     0  (  0.0)      0               0.8
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)     0  (  0.0)      0               0.0
 2010      64   1000     26   3.0   9.6    0.0 +  0.2  (  2.4)     0  (  0.0)      0  ( 0.0)*      2.4
 2011    1192   2115S    59  21.5   2.2    0.1 +  0.7  ( 10.5)     8  (  2.2)      8  ( 0.0)*     12.6
 2012BL    50   2011L    59  29.3   2.3    0.0 +  0.0  (  0.5)    11  (  0.1)      8  ( 0.0)*      0.5
 2030    1472   3786S    40  18.0   0.8    0.0 +  0.3  (  4.6)     1  (  0.3)      0               4.9
 2031BL    50   2030L    40  22.5   0.8    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
 2040      34    600     49  18.0  54.4    0.1 +  0.5  (  7.3)   180  (  1.3)      1               8.6
 2041      19    715      5  18.0   5.0    0.0 +  0.0  (  0.4)     0  (  0.0)      0               0.4
 2097BL    50   2098L    15  22.5   0.3    0.0 +  0.0  (  0.1)     0  (  0.0)      0               0.1
 2098    1161   8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)     0  (  0.1)      0               1.3
 2099     741   8000      9  18.0   0.2    0.0 +  0.1  (  0.7)     0  (  0.0)      0               0.8
 3010     814   2075     39  17.0   1.4    0.0 +  0.3  (  4.6)     2  (  0.3)      0               4.9
 3011BL    50   1945      3  20.8   0.9    0.0 +  0.0  (  0.2)     1  (  0.0)      0               0.2
 3410     826   1910     89   6.0  37.3    4.9 +  3.7  (121.6)    83  ( 11.8)     16     +       133.4     34     22  60
 3411     161   1993S    19   6.0  18.3    0.7 +  0.1  ( 11.6)    63  (  1.7)      3              13.3     34     22  60
 3412BL    22   3411L    19  36.0  19.4    0.1 +  0.0  (  1.7)    75  (  0.0)      3               1.7     34     22  60
 3430     768   1972     76  11.0   9.1    0.4 +  1.6  ( 27.5)    56  (  8.2)     16              35.7     34     20  60
 3431BL    22   1915      2  12.9   2.0    0.0 +  0.0  (  0.2)     3  (  0.0)      0  ( 0.0)*      0.2     34     20  60
 3440BL    28   1665     13   9.0  40.9    0.2 +  0.1  (  4.5)   100  (  0.4)      1               4.9     34      5  14
 3442     398   1787     77   7.0  41.3    2.9 +  1.7  ( 64.8)   106  (  9.9)     10              74.7     34     72  14
 3443     423   1577     93   7.0  71.5    3.3 +  5.1  (119.3)   142  ( 14.0)     14     +       133.3     34     72  14
 3450      50  10000      7  10.0  37.7    0.5 +  0.0  (  7.4)    96  (  0.0)      1               7.5     34     68  73
 3451      50  10000      1  10.0  11.4    0.2 +  0.0  (  2.2)    52  (  0.0)      1               2.3     34     22  60
 3499     559   8000      7  12.3   0.2    0.0 +  0.0  (  0.5)     0  (  0.0)      0               0.6
 4010     880   1949     75  18.0  17.8    2.9 +  1.5  ( 61.9)    75  ( 14.1)     15              75.9     40     25  72
 4011BL    22   4012L    18  22.5   9.3    0.0 +  0.0  (  0.8)    45  (  0.1)      2               0.9     40     25  72
 4012     158   1707S    18  18.0   9.3    0.3 +  0.1  (  5.8)    45  (  1.5)      2               7.3     40     25  72
```

4020	493	1754	98	20.0	91.3	3.9 +	8.6	(177.6)	160	(13.5)	20		191.1	40	78	20
4021	87	1641	18	18.0	26.2	0.5 +	0.1	(9.0)	78	(1.4)	2		10.4	40	78	20
4030	267	1774	80	5.0	42.8	1.2 +	1.9	(45.1)	121	(4.6)	7		49.7	40	25	76
4031	949	1907S	85	5.0	16.9	1.8 +	2.7	(63.2)	59	(8.0)	13	+	71.2	40	25	72
4032BL	22	4031L	85	39.8	24.7	0.1 +	0.1	(2.1)	85	(0.0)	13	(0.8)*	81.8	40	25	72
4097	1570	8000S	20	18.0	0.3	0.0 +	0.1	(1.7)	0	(0.1)	0		1.9			
4098BL	22	4097L	20	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	297	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	826	2288f	74	7.0	27.5	4.9 +	1.4	(89.7)	71	(6.4)	13	+	96.1	41	12	50
4111BL	50	2040	6	26.4	14.9	0.2 +	0.0	(2.9)	42	(0.0)	0		3.0	41	16	50
4120	294	1959	60	20.0	35.6	2.2 +	0.7	(41.3)	96	(4.8)	6		46.1	41	61	0
4121	366	1773	83	18.0	50.4	2.9 +	2.2	(72.7)	117	(9.1)	10		81.8	41	61	0
4130	814	2383f	83	5.0	29.4	4.3 +	2.3	(94.3)	94	(11.0)	17	+	105.3	41	12	44

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80 SECOND CYCLE 40 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 (PCU-H/H)	RANDOM+ (U+R+O=MEAN Q)	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)	START 2ND END
4131BL	50	1696	9	31.8	21.7	0.3 +	0.0	(4.3)	70	(0.0)	1			4.3	41	18	44
4150	50	10000	2	10.0	23.2	0.3 +	0.0	(4.6)	75	(0.0)	1			4.6	41	61	0
4151	50	10000	1	10.0	11.4	0.2 +	0.0	(2.2)	52	(0.0)	1			2.3	41	12	50
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
4199	340	8000S	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0			0.3			
5010	819	3929S	22	3.0	0.6	0.0 +	0.1	(1.9)	1	(0.1)	0			2.0			
5011BL	28	5010L	22	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0			0.1			
6010	134	715	24	18.0	4.2	0.0 +	0.2	(2.2)	0	(0.0)	0			2.2			
6011	756	1618S	48	18.0	2.2	0.0 +	0.5	(6.4)	3	(0.4)	0			6.9			
6012BL	28	6011L	48	22.5	2.2	0.0 +	0.0	(0.2)	3	(0.0)	0			0.2			
6020	685	1800S	40	18.0	1.7	0.0 +	0.3	(4.5)	2	(0.3)	0			4.8			
6021BL	28	6020L	40	22.5	1.7	0.0 +	0.0	(0.2)	2	(0.0)	0			0.2			
6098BL	28	6099L	10	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0			0.0			
6099	756	8000S	10	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.0)	0			0.8			
7010	826	2055	40	8.0	1.5	0.0 +	0.3	(4.8)	2	(0.2)	0			5.0			
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0			0.2			
-4200	10	1800	11	10.0	58.6	0.1 +	0.1	(2.3)	120	(0.0)	0			2.3	41	47	50

*** 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)	
3500.8	171.0	20.5	39.1	39.2	(1112.2) +	(126.9) +	(79.7) =	1318.7	TOTALS
96.7	5.7	17.0	0.9	0.4	(18.3) +	(0.7) +	(79.7) =	98.7	BUSES
3404.1	165.3	20.6	38.2	38.9	(1093.9) +	(126.2) +	(0.0) =	1220.0	OTHER
									ROUTE
1129.2	44.6	25.3	6.5	8.0	(205.7) +	(28.4) +	(0.0) =	234.1	1
1002.7	47.0	21.3	12.7	8.1	(296.0) +	(34.9) +	(0.0) =	330.9	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	199.1	+	90.3	+	58.0	=	347.5

NO. OF ENTRIES TO SUBPT = 7
NO. OF LINKS RECALCULATED= 260

CYCLIC FLOW PROFILE GRAPHS

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LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.36

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     I
     I
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 2000+
     I                 ^^^^^^^
     I              ^ ^^^^^^^^
     I              ^^^^^^^^^^
     I              ^^^^^^^^^^
 1500+              ^^^^^^^^^^      @@@@@
     I              ^^^^^^^^^^   @@@@@@@@@
     I              ^^^^^^^^^^  @@@@@@@@@@@
     I              ^^@^^^^^^^ @@@@@@@@@@@@
     I             1@@@@^^^^^^@@@@@@@@@@@@@1
 1000+            11@@@@@^^^^@@@@@@@@@@@@@@11
     I           11@@@@@@^^^^@@@@@@@@@@@@@@11
     I          111@@@@@@@^^@@@@@@@@@@@@@@@111
     I         1111@@@@@@@^@@@@@@@@@@@@@@@@111
     I1        1111@@@@@@@@@@@@@@@@@@@@@@@@@11
  500+11      11111@@@@@@@@@@@@@@@@@@@@@@@@@11
     I111     11111@@@@@@@@@@@@@@@@@@@@@@@@@11
     I1111   111111@@@@@@@@@@@@@@@@@@@@@@@@@11
     I111111111111111@@@@@@@@@@@@@@@@@@@@@@@11
     I111111111111111@@@@@@@@@@@@@@@@@@@@@@@11
     +=========#==.......1.........1.......==#
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PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800 + committed + 385 units

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1          _______________ T R A N S Y T 12 _______________

                    Traffic Network Study Tool

              Analysis Program Release 7  (July 2010)
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           ____________________________________________


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

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           Nine Mile Ride         Email:  softwarebureau@trl.co.uk
           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:- "WEST HENDON A5_DETAILED_PM_OPT_V3.DAT"   at 09:46   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   40
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  11342 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      80      40      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                        LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      39       6      19
  23)=  12      40       1      30      12
  24)=  12      41       1      25      75

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                         FIRST   GREEN                  SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
87)=	32	1010	1093	0	4010	1024	15	4021	69	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	1040	0	3430	743	19	3443	297	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	171	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1249	0	4110	884	23	4121	365	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1236	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1238	0	2011	1183	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	849	0	2030	818	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	884	0	1010	884	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	209	0	1010	209	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	743	0	4130	743	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	437	0	5010	437	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	297	0	5010	297	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	646	0	3411	209	18	3442	437	18	0	0	0	0	0	0
116)=	32	4010	1024	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	386	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	224	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	69	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	241	0	1030	241	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	960	0	1030	789	5	1040	171	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1184	0	4020	224	18	4030	10	18	4031	960	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	627	0	4012	386	18	4030	241	18	0	0	0	0	0	0
127)=	32	4110	884	0	7010	884	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	237	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	365	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	849	0	3010	849	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	343	0	4120	237	18	4130	106	18	0	0	0	0	0	0
137)=	32	5010	733	0	6010	161	3	6020	572	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	161	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	659	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	572	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	659	0	6011	659	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	884	0	3410	884	8	0	0	0	0	0	0	0	0	0

147)=	32	7011	53	0	3412	25	3200	3440	28	3200	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.
148)=	33	4110	2040	4	0	0	0	0
149)=	33	4130	1696	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
150)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
151)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
152)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
153)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

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

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80 SECOND CYCLE 40 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
34	3	39	6	19							
40	2	30	12								
41	2	25	75								

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) ($/H)	COST OF DELAY ($/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)	START END 2ND
1010	1093	2055	53	15.0	1.9	0.0 +	0.6	(8.1)	2	(0.4)	1	(0.0)*	8.4			
1011BL	25	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	1041	2055	51	19.0	1.8	0.0 +	0.5	(7.3)	2	(0.3)	1	(0.0)*	7.6			
1031BL	25	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	171	715	35	20.0	5.7	0.0 +	0.3	(3.8)	0	(0.0)	0		3.8			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	65	1000	18	3.0	6.0	0.0 +	0.1	(1.5)	0	(0.0)	0	(0.0)*	1.5			
2011	1248	2115S	62	21.5	2.5	0.1 +	0.8	(12.1)	11	(3.0)	9	(0.0)*	15.2			
2012BL	53	2011L	62	29.3	2.6	0.0 +	0.0	(0.6)	17	(0.1)	9	(0.0)*	0.7			
2030	1236	3786S	34	18.0	0.7	0.0 +	0.2	(3.5)	1	(0.2)	0		3.7			
2031BL	53	2030L	34	22.5	0.7	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
2040	55	600	63	18.0	59.4	0.1 +	0.8	(12.9)	170	(2.0)	1		14.9			
2041	31	715	7	18.0	4.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
2097BL	53	2098L	16	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1238	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
2099	483	8000	6	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
3010	849	2075	41	17.0	1.5	0.0 +	0.3	(4.9)	2	(0.3)	0		5.2			
3011BL	53	1945	3	20.8	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	883	1910	92	6.0	41.2	4.7 +	5.4	(143.4)	87	(13.1)	19	+	156.5	34	47	6
3411	210	1993S	24	6.0	17.3	0.9 +	0.1	(14.3)	57	(2.0)	3		16.3	34	47	6
3412BL	25	3411L	24	35.0	15.4	0.1 +	0.0	(1.5)	61	(0.0)	3		1.5	34	47	6
3430	744	1972	72	11.0	7.4	0.3 +	1.3	(21.6)	31	(4.4)	11		26.0	34	45	6
3431BL	25	1915	2	12.9	2.5	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.3	34	45	6
3440BL	28	1665	15	9.0	43.1	0.2 +	0.1	(4.8)	102	(0.4)	1		5.2	34	31	39
3442	437	1787	89	7.0	57.0	3.4 +	3.5	(98.3)	126	(12.9)	13		111.2	34	18	39
3443	298	1577	69	19.0	38.9	2.1 +	1.1	(45.7)	103	(1.0)	7		46.7	34	18	39
3450	50	10000	7	10.0	37.7	0.5 +	0.0	(7.4)	96	(0.0)	1		7.5	34	14	19
3451	50	10000	1	10.0	10.4	0.1 +	0.0	(2.0)	49	(0.0)	1		2.0	34	47	6
3499	647	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
4010	1024	1949	88	18.0	25.3	3.8 +	3.4	(102.3)	93	(20.1)	22		122.3	40	45	12
4011BL	25	4012L	33	22.5	6.1	0.0 +	0.0	(0.6)	35	(0.1)	3		0.7	40	35	12
4012	386	1707S	33	18.0	6.1	0.4 +	0.2	(9.4)	35	(2.8)	3		12.2	40	35	12
4020	224	1754	79	20.0	60.1	2.0 +	1.7	(53.1)	124	(4.8)	6		57.9	40	18	30
4021	69	1641	26	18.0	38.5	0.6 +	0.2	(10.5)	96	(1.4)	1		11.9	40	18	30
4030	242	1774	72	5.0	39.0	1.4 +	1.3	(37.3)	116	(4.0)	5		41.2	40	35	13
4031	960	1907S	71	4.8	9.1	1.2 +	1.2	(34.3)	39	(5.3)	9	+	39.6	40	35	12
4032BL	25	4031L	71	23.8	14.3	0.1 +	0.0	(1.4)	70	(0.0)	9	(0.1)*	8.0	40	35	12
4097	1185	8000S	15	18.0	0.3	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3			
4098BL	25	4097L	15	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	628	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4110	883	2288f	79	8.0	30.2	5.5 +	1.9	(105.1)	75	(5.7)	15	+	110.8	41	37	75
4111BL	53	2040	6	31.4	15.3	0.2 +	0.0	(3.2)	50	(0.0)	1		3.2	41	41	75
4120	237	1959	48	20.0	32.7	1.7 +	0.5	(30.6)	91	(3.7)	5		34.3	41	6	25
4121	365	1773	82	18.0	50.1	2.9 +	2.2	(72.2)	116	(9.0)	10		81.1	41	6	25
4130	849	2332f	75	5.0	20.7	3.4 +	1.5	(69.3)	80	(9.6)	16	+	79.0	41	37	75

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80 SECOND CYCLE 40 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) ($/H)	COST OF DELAY ($/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)	START END 2ND
4131BL	53	1696	8	31.8	17.0	0.2 +	0.0	(3.6)	63	(0.0)	1		3.6	41	43	75
4150	50	10000	2	10.0	24.0	0.3 +	0.0	(4.7)	76	(0.0)	1		4.7	41	6	25
4151	50	10000	1	10.0	10.9	0.1 +	0.0	(2.1)	50	(0.0)	1		2.1	41	37	75
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	342	8000S	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
5010	733	3929S	19	3.0	0.6	0.0 +	0.1	(1.6)	1	(0.1)	0		1.7			
5011BL	28	5010L	19	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6010	161	715	28	18.0	4.3	0.0 +	0.2	(2.7)	0	(0.0)	0		2.7			
6011	659	1618S	42	18.0	1.9	0.0 +	0.4	(5.0)	2	(0.3)	0		5.4			
6012BL	28	6011L	42	22.5	1.9	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6020	572	1800S	33	18.0	1.5	0.0 +	0.2	(3.4)	2	(0.2)	0		3.6			
6021BL	28	6020L	33	22.5	1.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	659	8000S	9	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
7010	883	2055	43	8.0	1.5	0.0 +	0.4	(5.3)	2	(0.2)	0		5.6			
7011BL	53	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			

*** 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)	
3427.0	160.4	21.4	36.4	31.1	(958.7) +	(108.2) +	(6.6) =	1073.5	TOTALS

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   102.6          5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5        154.5       21.5         35.6     30.7    ( 941.6) + (  107.4)  +  (   0.0)   =    1049.0      OTHER

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

FUEL CONSUMPTION PREDICTIONS       196.1         +      77.7         +      49.5         =     323.3

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  225
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  229
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  404
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  251
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER
```

```
NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  256
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32   1
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  253
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12  32   1  -1
 - (SECONDS)

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

  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)

  3427.0         160.2       21.4         36.4     30.9    ( 956.1) + (  107.8)  +  (   6.6)   =    1070.5      TOTALS
   102.6           5.8       17.6          0.8      0.4    (  17.2) + (    0.8)  +  (   6.6)   =      24.5      BUSES
  3324.5         154.4       21.5         35.6     30.6    ( 939.0) + (  107.0)  +  (   0.0)   =    1046.0      OTHER

NO. OF ENTRIES TO SUBPT  =   11
NO. OF LINKS RECALCULATED=  374
.

     80 SECOND CYCLE  40 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :-   12  32  -1  12  32   1  -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

   34       3      39       6      19
   40       2      30      12
   41       2      25      75

 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)

 1010    1093   2055     53  15.0   1.9    0.0 +  0.6  (  8.1)      2  (  0.4)       1  ( 0.0)*       8.4
 1011BL    25   1915      1  15.2   1.0    0.0 +  0.0  (  0.1)      1  (  0.0)       0  ( 0.0)*       0.1
 1030    1041   2055     51  19.0   1.8    0.0 +  0.5  (  7.3)      2  (  0.3)       1  ( 0.0)*       7.6
 1031BL    25   1915      1  19.1   1.0    0.0 +  0.0  (  0.1)      1  (  0.0)       0  ( 0.0)*       0.1
 1040     171    715     35  20.0   5.7    0.0 +  0.3  (  3.8)      0  (  0.0)       0                3.8
 1099      10   8000      0  18.0   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 2010      65   1000     18   3.0   6.0    0.0 +  0.1  (  1.5)      0  (  0.0)       0  ( 0.0)*       1.5
 2011    1248   2115S    62  21.5   2.5    0.1 +  0.8  ( 12.1)     11  (  3.0)       9  ( 0.0)*      15.2
 2012BL    53   2011L    62  29.3   2.6    0.0 +  0.0  (  0.6)     17  (  0.1)       9  ( 0.0)*       0.7
 2030    1236   3786S    34  18.0   0.7    0.0 +  0.2  (  3.5)      1  (  0.2)       0                3.7
 2031BL    53   2030L    34  22.5   0.7    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
 2040      55    600     57  18.0  47.4    0.1 +  0.6  ( 10.3)    141  (  1.6)       1               11.9
 2041      31    715      7  18.0   4.5    0.0 +  0.0  (  0.5)      0  (  0.0)       0                0.5
 2097BL    53   2098L    16  22.5   0.3    0.0 +  0.0  (  0.1)      0  (  0.0)       0                0.1
 2098    1238   8000S    16  18.0   0.3    0.0 +  0.1  (  1.3)      0  (  0.1)       0                1.4
 2099     483   8000      6  18.0   0.2    0.0 +  0.0  (  0.5)      0  (  0.0)       0                0.5
 3010     849   2075     41  17.0   1.5    0.0 +  0.3  (  4.9)      2  (  0.3)       0                5.2
 3011BL    53   1945      3  20.8   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2
 3410     883   1910     92   6.0  41.2    4.7 +  5.4  (143.4)     87  ( 13.1)      19     +        156.5     34     47   6
 3411     210   1993S    24   6.0  17.3    0.9 +  0.1  ( 14.3)     57  (  2.0)       3               16.3     34     47   6
 3412BL    25   3411L    24  35.0  15.4    0.1 +  0.0  (  1.5)     61  (  0.0)       3                1.5     34     47   6
 3430     744   1972     72  11.0   7.4    0.3 +  1.3  ( 21.6)     31  (  4.4)      11               26.0     34     45   6
 3431BL    25   1915      2  12.9   2.5    0.0 +  0.0  (  0.2)      4  (  0.0)       0  ( 0.0)*       0.3     34     45   6
 3440BL    28   1665     15   9.0  43.1    0.2 +  0.1  (  4.8)    102  (  0.4)       1                5.2     34     31  39
 3442     437   1787     89   7.0  57.0    3.4 +  3.5  ( 98.3)    126  ( 12.9)      13              111.2     34     18  39
 3443     298   1577     69  19.0  38.9    2.1 +  1.1  ( 45.7)    103  (  1.0)       7               46.7     34     18  39
 3450      50  10000      7  10.0  37.7    0.5 +  0.0  (  7.4)     96  (  0.0)       1                7.5     34     14  19
 3451      50  10000      1  10.0  10.4    0.1 +  0.0  (  2.0)     49  (  0.0)       1                2.0     34     47   6
 3499     647   8000      8  18.0   0.2    0.0 +  0.0  (  0.6)      0  (  0.0)       0                0.7
 4010    1024   1949     88  18.0  25.3    3.8 +  3.4  (102.3)     93  ( 20.1)      22              122.3     40     45  12
 4011BL    25   4012L    33  22.5   6.1    0.0 +  0.0  (  0.6)     35  (  0.1)       3                0.7     40     35  12
 4012     386   1707S    33  18.0   6.1    0.4 +  0.2  (  9.4)     35  (  2.8)       3               12.2     40     35  12
 4020     224   1754     79  20.0  60.1    2.0 +  1.7  ( 53.1)    124  (  4.8)       6               57.9     40     18  30
 4021      69   1641     26  18.0  38.5    0.6 +  0.2  ( 10.5)     96  (  1.4)       1               11.9     40     18  30
 4030     242   1774     72   5.0  39.0    1.4 +  1.3  ( 37.3)    116  (  4.0)       5               41.2     40     35  13
 4031     960   1907S    71   4.8   9.1    1.2 +  1.2  ( 34.3)     39  (  5.3)       9     +         39.6     40     35  12
 4032BL    25   4031L    71  23.8  14.3    0.1 +  0.0  (  1.4)     70  (  0.0)       9  ( 0.1)*       8.0     40     35  12
 4097    1185   8000S    15  18.0   0.3    0.0 +  0.1  (  1.2)      0  (  0.1)       0                1.3
 4098BL    25   4097L    15  22.5   0.3    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 4099     628   8000      8  18.0   0.2    0.0 +  0.0  (  0.6)      0  (  0.0)       0                0.6
 4110     883   2288f    79   8.0  30.2    5.5 +  1.9  (105.1)     75  (  5.7)      15     +        110.8     41     37  75
 4111BL    53   2040      6  31.4  15.3    0.2 +  0.0  (  3.2)     50  (  0.0)       1                3.2     41     41  75
 4120     237   1959     48  20.0  32.7    1.7 +  0.5  ( 30.6)     91  (  3.7)       5               34.3     41      6  25
 4121     365   1773     82  18.0  50.1    2.9 +  2.2  ( 72.2)    116  (  9.0)      10               81.1     41      6  25
 4130     849   2332f    75   5.0  20.7    3.4 +  1.5  ( 69.3)     80  (  9.6)      16     +         79.0     41     37  75
.

     80 SECOND CYCLE  40 STEPS

 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)
```

4131BL	53	1696	8	31.8	17.0	0.2	+	0.0	(3.6)	63	(0.0)	1		3.6	41	43	75
4150	50	10000	2	10.0	24.0	0.3	+	0.0	(4.7)	76	(0.0)	1		4.7	41	6	25
4151	50	10000	1	10.0	10.9	0.1	+	0.0	(2.1)	50	(0.0)	1		2.1	41	37	75
4198BL	28	4199L	5	22.5	0.2	0.0	+	0.0	(0.0)	0	(0.0)	0		0.0			
4199	342	8000S	5	18.0	0.2	0.0	+	0.0	(0.3)	0	(0.0)	0		0.3			
5010	733	3929S	19	3.0	0.6	0.0	+	0.1	(1.6)	1	(0.1)	0		1.7			
5011BL	28	5010L	19	3.6	0.6	0.0	+	0.0	(0.1)	1	(0.0)	0		0.1			
6010	161	715	28	18.0	4.3	0.0	+	0.2	(2.7)	0	(0.0)	0		2.7			
6011	659	1618S	42	18.0	1.9	0.0	+	0.4	(5.0)	2	(0.3)	0		5.4			
6012BL	28	6011L	42	22.5	1.9	0.0	+	0.0	(0.2)	2	(0.0)	0		0.2			
6020	572	1800S	33	18.0	1.5	0.0	+	0.2	(3.4)	2	(0.2)	0		3.6			
6021BL	28	6020L	33	22.5	1.5	0.0	+	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	64.8	0.2	0.0	+	0.0	(0.0)	0	(0.0)	0		0.0			
6099	659	8000S	9	18.0	0.2	0.0	+	0.0	(0.6)	0	(0.0)	0		0.7			
7010	883	2055	43	8.0	1.5	0.0	+	0.4	(5.3)	2	(0.2)	0		5.6			
7011BL	53	1915	3	8.0	1.0	0.0	+	0.0	(0.2)	1	(0.0)	0		0.2			

*** 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)	
3427.0	160.2	21.4	36.4	30.9	(956.1)	+	(107.8)	+	(6.6)	=	1070.5	TOTALS
102.6	5.8	17.6	0.8	0.4	(17.2)	+	(0.8)	+	(6.6)	=	24.5	BUSES
3324.5	154.4	21.5	35.6	30.6	(939.0)	+	(107.0)	+	(0.0)	=	1046.0	OTHER
												ROUTE

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	196.1	+	77.5	+	49.4	=	323.0

NO. OF ENTRIES TO SUBPT = 7
NO. OF LINKS RECALCULATED= 256

PROGRAM TRANSYT FINISHED

PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ____________________________________________


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            RG40 3GA,UK
 ---------------------------------------------------------------------------
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 ---------------------------------------------------------------------------

Run with file:- "WEST HENDON A5_DETAILED_SAT_OPT_V3.DAT"   at 09:49   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   40
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  11623 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      80      40      60       2       3       0       1     100     100       0       2       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34                7       1       5
  19)=  10      40                7       7
  20)=  10      41               12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34                8      12      12
  22)=  11      40                5       6
  23)=  11      41               12       0      11

                                 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
  24)=  12      34       1       12      61      74
  25)=  12      40       1       12      73
  26)=  12      41       1       78      45      51

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	1092	0	4010	1011	15	4021	81	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	1078	0	3430	730	19	3443	348	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1240	0	4110	823	23	4121	308	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1285	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	1217	0	2011	1184	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	772	0	2030	755	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	932	0	1010	932	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	164	0	1010	164	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	730	0	4130	530	11	4132	200	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	333	0	5010	333	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	348	0	5010	348	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	497	0	3411	164	18	3442	333	10	0	0	0	0	0	0
120)=	32	4010	1011	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	191	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	242	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	81	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	159	0	1030	159	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	1017	0	1030	909	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1259	0	4020	242	18	4031	1017	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	334	0	4012	191	18	4030	148	18	0	0	0	0	0	0
131)=	32	4110	823	0	7010	823	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	212	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	308	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	530	0	3010	530	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	242	0	3010	242	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	254	0	4120	212	18	4132	42	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	680	0	6010	220	3	6020	460	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	220	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	569	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	460	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	569	0	6011	569	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	932	0	3410	932	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

80 SECOND CYCLE 40 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
34	3	12	61	74							
40	2	12	73								
41	3	78	45	51							

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 (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 END (SECONDS)
1010	1092	2055	53	15.0	1.9	0.0 +	0.6	(8.0)	2	(0.4)	1	(0.0)*	8.4			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	1079	2055	52	19.0	1.8	0.0 +	0.6	(7.8)	2	(0.4)	1	(0.0)*	8.2			
1031BL	22	1915	1	48.4	0.9	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	23	20.0	4.9	0.0 +	0.1	(2.1)	0	(0.0)	0		2.1			
1099	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	55	1000	16	3.0	6.4	0.0 +	0.1	(1.4)	0	(0.0)	0	(0.0)*	1.4			
2011	1241	2115S	61	21.8	2.2	0.0 +	0.8	(10.7)	3	(0.7)	1		11.4			
2012BL	50	2011L	61	68.5	2.2	0.0 +	0.0	(0.4)	3	(0.0)	1	(0.0)*	0.4			
2030	1285	3786S	35	18.0	0.7	0.0 +	0.3	(3.7)	1	(0.2)	0		4.0			
2031BL	50	2030L	35	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	33	600	47	18.0	55.6	0.1 +	0.4	(7.2)	162	(1.1)	1		8.4			
2041	17	715	4	18.0	4.5	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	16	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1217	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
2099	584	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	773	2075	37	17.0	1.4	0.0 +	0.3	(4.2)	2	(0.3)	0		4.5			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	933	1910	93	6.0	35.9	3.6 +	5.7	(132.0)	83	(13.2)	19	+	145.2	34	20	61
3411	164	1993S	18	6.0	12.0	0.5 +	0.1	(7.8)	47	(1.3)	2		9.1	34	20	61
3412BL	22	3411L	18	36.0	13.8	0.1 +	0.0	(1.2)	58	(0.0)	2		1.2	34	20	61
3430	731	1972	67	11.0	6.8	0.4 +	1.0	(19.6)	48	(6.7)	13		26.4	34	18	61
3431BL	22	1915	2	12.9	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0	(0.0)*	0.2	34	18	61
3440BL	28	1665	19	9.0	49.5	0.3 +	0.1	(5.5)	108	(0.4)	1		5.9	34	6	12
3442	333	1787	75	7.0	43.1	2.6 +	1.4	(56.7)	107	(8.4)	8		65.0	34	73	12
3443	348	1577	88	7.0	63.0	2.8 +	3.3	(86.5)	130	(10.6)	11		97.2	34	73	12
3450	50	10000	7	10.0	36.8	0.5 +	0.0	(7.3)	94	(0.0)	1		7.3	34	69	74
3451	50	10000	1	10.0	9.8	0.1 +	0.0	(1.9)	48	(0.0)	1		1.9	34	20	61
3499	497	8000	6	12.6	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
4010	1011	1949	73	18.0	11.6	1.9 +	1.3	(46.2)	60	(12.8)	14		59.0	40	17	73
4011BL	22	4012L	18	22.5	5.5	0.0 +	0.0	(0.5)	32	(0.1)	2		0.6	40	17	73
4012	191	1707S	18	18.0	5.5	0.2 +	0.1	(4.2)	32	(1.3)	2		5.5	40	17	73
4020	242	1754	79	20.0	57.9	2.1 +	1.8	(55.2)	123	(5.1)	7		60.3	40	79	12
4021	81	1641	28	18.0	37.3	0.6 +	0.2	(11.9)	95	(1.6)	2		13.6	40	79	12
4030	160	1774	43	5.0	15.2	0.3 +	0.4	(9.6)	56	(1.3)	2		10.9	40	17	77
4031	1017	1907S	76	4.9	8.3	0.8 +	1.6	(33.3)	33	(4.8)	9	+	38.1	40	17	73
4032BL	22	4031L	76	5.1	12.5	0.0 +	0.0	(1.1)	58	(0.2)	9	(0.0)*	3.9	40	17	73
4097	1259	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	335	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	825	1919	82	7.0	30.7	4.8 +	2.2	(100.0)	71	(6.4)	13	+	106.4	41	10	51
4111BL	50	2040S	15	45.4	14.5	0.2 +	0.0	(2.9)	56	(0.0)	2		2.9	41	10	51
4120	212	1959	51	20.0	36.6	1.6 +	0.5	(30.6)	96	(3.5)	5		34.1	41	62	78
4121	308	1773	82	18.0	54.7	2.6 +	2.1	(66.5)	120	(7.9)	9		74.3	41	62	78
4130	530	2056	57	5.0	20.9	2.4 +	0.7	(43.6)	76	(5.8)	9		49.4	41	10	45

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80 SECOND CYCLE 40 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 (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 END (SECONDS)
4131BL	50	1696S	38	31.8	18.5	0.2 +	0.1	(3.6)	70	(0.0)	5		3.7	41	10	45
4132	243	4131L	38	5.0	18.4	1.0 +	0.3	(17.7)	70	(2.4)	5		20.1	41	10	45
4150	50	10000	2	10.0	26.5	0.4 +	0.0	(5.2)	80	(0.0)	1		5.2	41	62	78
4151	50	10000	1	10.0	9.8	0.1 +	0.0	(1.9)	48	(0.0)	1		1.9	41	10	51
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	254	8000S	4	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	108	4111L	15	7.0	18.1	0.5 +	0.1	(7.7)	62	(0.7)	2		8.5	41	10	51
5010	680	3929S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

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 6010     220    715     36  18.0   4.6    0.0 +  0.3  (  4.0)      0  (  0.0)       0                4.0
 6011     569   1618S    37  18.0   1.8    0.0 +  0.3  (  3.9)      2  (  0.3)       0                4.2
 6012BL    24   6011L    37  22.5   1.8    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6020     460   1800S    27  18.0   1.4    0.0 +  0.2  (  2.5)      2  (  0.2)       0                2.7
 6021BL    28   6020L    27  22.5   1.4    0.0 +  0.0  (  0.2)      2  (  0.0)       0                0.2
 6098BL    24   6099L     7  64.8   0.2    0.0 +  0.0  (  0.0)      0  (  0.0)       0                0.0
 6099     569   8000S     7  18.0   0.2    0.0 +  0.0  (  0.5)      0  (  0.0)       0                0.6
 7010     933   2055     45   8.0   1.6    0.0 +  0.4  (  5.9)      2  (  0.2)       0                6.1
 7011BL    50   1915      3   8.0   1.0    0.0 +  0.0  (  0.2)      1  (  0.0)       0                0.2

  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)

  3219.7         144.9       22.2         30.6     27.9    ( 830.2) + (   98.8)  +  (   2.6)   =     931.6      TOTALS
    95.1           6.2       15.3          0.8      0.4    (  16.5) + (    0.8)  +  (   2.6)   =      20.0      BUSES
  3124.5         138.7       22.5         29.8     27.5    ( 813.6) + (   98.0)  +  (   0.0)   =     911.6      OTHER

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

FUEL CONSUMPTION PREDICTIONS       183.4         +      67.3         +      45.7         =     296.4

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   63
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12
 - (SECONDS)

   34       3      12      61      74
   40       2      12      73
   41       3      78      45      51

  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)

  3219.7         144.9       22.2         30.6     27.9    ( 829.8) + (   98.8)  +  (   2.6)   =     931.2      TOTALS
    95.1           6.2       15.3          0.8      0.4    (  16.5) + (    0.8)  +  (   2.6)   =      20.0      BUSES
  3124.5         138.6       22.5         29.8     27.5    ( 813.3) + (   97.9)  +  (   0.0)   =     911.2      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  236
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32
 - (SECONDS)

   34       3      12      61      74
   40       2      12      73
   41       3      78      45      51

  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)

  3219.7         144.9       22.2         30.6     27.9    ( 829.8) + (   98.8)  +  (   2.6)   =     931.2      TOTALS
    95.1           6.2       15.3          0.8      0.4    (  16.5) + (    0.8)  +  (   2.6)   =      20.0      BUSES
  3124.5         138.6       22.5         29.8     27.5    ( 813.3) + (   97.9)  +  (   0.0)   =     911.2      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  236
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1
 - (SECONDS)

   34       3      12      61      74
   40       2      12      73
   41       3      78      45      51

  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)

  3219.7         144.9       22.2         30.6     27.9    ( 829.8) + (   98.8)  +  (   2.6)   =     931.2      TOTALS
    95.1           6.2       15.3          0.8      0.4    (  16.5) + (    0.8)  +  (   2.6)   =      20.0      BUSES
  3124.5         138.6       22.5         29.8     27.5    ( 813.3) + (   97.9)  +  (   0.0)   =     911.2      OTHER

NO. OF ENTRIES TO SUBPT  =   13
NO. OF LINKS RECALCULATED=  385
.

     80 SECOND CYCLE  40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :-   12  32  -1  12
 - (SECONDS)

   34       3      12      61      74
   40       2      12      73
   41       3      78      45      51

  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)

  3219.7         144.9       22.2         30.6     27.9    ( 829.8) + (   98.8)  +  (   2.6)   =     931.2      TOTALS
    95.1           6.2       15.3          0.8      0.4    (  16.5) + (    0.8)  +  (   2.6)   =      20.0      BUSES
  3124.5         138.6       22.5         29.8     27.5    ( 813.3) + (   97.9)  +  (   0.0)   =     911.2      OTHER

NO. OF ENTRIES TO SUBPT  =    7
NO. OF LINKS RECALCULATED=  263
.

     80 SECOND CYCLE  40 STEPS
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INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 12 32 -1 12 32
- (SECONDS)

34	3	12	61	74
40	2	12	73	
41	3	78	45	51

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)	
3219.7	144.9	22.2	30.6	27.9	(829.8) +	(98.8) +	(2.6) =	931.2	TOTALS
95.1	6.2	15.3	0.8	0.4	(16.5) +	(0.8) +	(2.6) =	20.0	BUSES
3124.5	138.6	22.5	29.8	27.5	(813.3) +	(97.9) +	(0.0) =	911.2	OTHER

NO. OF ENTRIES TO SUBPT = 7
NO. OF LINKS RECALCULATED= 267
.

80 SECOND CYCLE 40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 12 32 -1 12 32 1
- (SECONDS)

34	3	12	61	74
40	2	12	73	
41	3	78	45	51

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)	
3219.7	144.9	22.2	30.6	27.9	(829.8) +	(98.8) +	(2.6) =	931.2	TOTALS
95.1	6.2	15.3	0.8	0.4	(16.5) +	(0.8) +	(2.6) =	20.0	BUSES
3124.5	138.6	22.5	29.8	27.5	(813.3) +	(97.9) +	(0.0) =	911.2	OTHER

NO. OF ENTRIES TO SUBPT = 7
NO. OF LINKS RECALCULATED= 263
.

80 SECOND CYCLE 40 STEPS

INTERMEDIATE SETTINGS - INCREMENTS SO FAR :- 12 32 -1 12 32 1 -1
- (SECONDS)

34	3	12	61	74
40	2	12	73	
41	3	78	45	51

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)	
3219.7	144.9	22.2	30.6	27.9	(829.8) +	(98.8) +	(2.6) =	931.2	TOTALS
95.1	6.2	15.3	0.8	0.4	(16.5) +	(0.8) +	(2.6) =	20.0	BUSES
3124.5	138.6	22.5	29.8	27.5	(813.3) +	(97.9) +	(0.0) =	911.2	OTHER

NO. OF ENTRIES TO SUBPT = 13
NO. OF LINKS RECALCULATED= 446
.

80 SECOND CYCLE 40 STEPS

FINAL SETTINGS OBTAINED WITH INCREMENTS :- 12 32 -1 12 32 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
34	3	12	61	74							
40	2	12	73								
41	3	78	45	51							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	DELAY (SEC)	DELAY UNIFORM (U+R+O=MEAN Q) (PCU-H/H)	DELAY RANDOM+ OVERSAT 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)
1010	1092	2055	53	15.0	1.9	0.0 + 0.6	(8.0)	2	(0.4)	1	(0.0)*	8.4			
1011BL	22	1915	1	15.2	1.0	0.0 + 0.0	(0.1)	1	(0.0)	0		0.1			
1030	1079	2055	52	19.0	1.8	0.0 + 0.6	(7.8)	2	(0.4)	1	(0.0)*	8.2			
1031BL	22	1915	1	48.4	0.9	0.0 + 0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	23	20.0	4.9	0.0 + 0.1	(2.1)	0	(0.0)	0		2.1			
1099	11	8000	0	18.0	0.2	0.0 + 0.0	(0.0)	0	(0.0)	0		0.0			
2010	55	1000	16	3.0	6.3	0.0 + 0.1	(1.4)	0	(0.0)	0	(0.0)*	1.4			
2011	1241	2115S	61	21.8	2.2	0.0 + 0.8	(10.7)	3	(0.7)	1		11.4			
2012BL	50	2011L	61	68.5	2.2	0.0 + 0.0	(0.4)	3	(0.0)	1	(0.0)*	0.4			
2030	1285	3786S	35	18.0	0.7	0.0 + 0.3	(3.7)	1	(0.2)	0		4.0			
2031BL	50	2030L	35	22.5	0.7	0.0 + 0.0	(0.1)	1	(0.0)	0		0.2			
2040	33	600	46	18.0	52.9	0.1 + 0.4	(6.9)	158	(1.1)	1		8.0			
2041	17	715	4	18.0	4.5	0.0 + 0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	16	22.5	0.3	0.0 + 0.0	(0.1)	0	(0.0)	0		0.1			
2098	1217	8000S	16	18.0	0.3	0.0 + 0.1	(1.3)	0	(0.1)	0		1.4			
2099	584	8000	7	18.0	0.2	0.0 + 0.0	(0.6)	0	(0.0)	0		0.6			
3010	773	2075	37	17.0	1.4	0.0 + 0.3	(4.2)	2	(0.3)	0		4.5			
3011BL	50	1945	3	20.8	0.9	0.0 + 0.0	(0.2)	1	(0.0)	0		0.2			
3410	933	1910	93	6.0	35.9	3.6 + 5.7	(132.0)	83	(13.2)	19	+	145.2	34	20	61
3411	164	1993S	18	6.0	12.0	0.5 + 0.1	(7.8)	47	(1.3)	2		9.1	34	20	61
3412BL	22	3411L	18	36.0	13.8	0.1 + 0.0	(1.2)	58	(0.0)	2		1.2	34	20	61
3430	731	1972	67	11.0	6.8	0.4 + 1.0	(19.6)	48	(6.7)	13		26.4	34	18	61
3431BL	22	1915	2	12.9	1.8	0.0 + 0.0	(0.2)	2	(0.0)	0	(0.0)*	0.2	34	18	61
3440BL	28	1665	19	9.0	49.5	0.3 + 0.1	(5.5)	108	(0.4)	1		5.9	34	6	12
3442	333	1787	75	7.0	43.1	2.6 + 1.4	(56.7)	107	(8.4)	8		65.0	34	73	12
3443	348	1577	88	7.0	63.0	2.8 + 3.3	(86.5)	130	(10.6)	11		97.2	34	73	12
3450	50	10000	7	10.0	36.8	0.5 + 0.0	(7.3)	94	(0.0)	1		7.3	34	69	74
3451	50	10000	1	10.0	9.8	0.1 + 0.0	(1.9)	48	(0.0)	1		1.9	34	20	61
3499	497	8000	6	12.6	0.2	0.0 + 0.0	(0.5)	0	(0.0)	0		0.5			
4010	1011	1949	73	18.0	11.6	1.9 + 1.3	(46.2)	60	(12.8)	14		59.0	40	17	73
4011BL	22	4012L	18	22.5	5.5	0.0 + 0.0	(0.5)	32	(0.1)	2		0.6	40	17	73
4012	191	1707S	18	18.0	5.5	0.2 + 0.1	(4.2)	32	(1.3)	2		5.5	40	17	73
4020	242	1754	79	20.0	57.9	2.1 + 1.8	(55.2)	123	(5.1)	7		60.3	40	79	12
4021	81	1641	28	18.0	37.3	0.6 + 0.2	(11.9)	95	(1.6)	2		13.6	40	79	12
4030	160	1774	43	5.0	15.2	0.3 + 0.4	(9.6)	56	(1.3)	2		10.9	40	17	77
4031	1017	1907S	76	4.9	8.3	0.8 + 1.6	(33.3)	33	(4.8)	9	+	38.1	40	17	73
4032BL	22	4031L	76	5.1	12.5	0.0 + 0.0	(1.1)	58	(0.2)	9	(0.0)*	3.9	40	17	73

4097	1259	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4					
4098BL	22	4097L	16	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0					
4099	335	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3					
4110	825	1919	82	7.0	30.7	4.8 +	2.2	(100.0)	71	(6.4)	13	+	106.4	41	10	51		
4111BL	50	2040S	15	45.4	14.5	0.2 +	0.0	(2.9)	56	(0.0)	2		2.9	41	10	51		
4120	212	1959	51	20.0	36.6	1.6 +	0.5	(30.6)	96	(3.5)	5		34.1	41	62	78		
4121	308	1773	82	18.0	54.7	2.6 +	2.1	(66.5)	120	(7.9)	9		74.3	41	62	78		
4130	530	2056	57	5.0	20.9	2.4 +	0.7	(43.6)	76	(5.8)	9		49.4	41	10	45		

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80 SECOND CYCLE 40 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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
4131BL	50	1696S	38	31.8	18.5	0.2 +	0.1	(3.6)	70	(0.0)	5		3.7	41	10	45
4132	243	4131L	38	5.0	18.4	1.0 +	0.3	(17.7)	70	(2.4)	5		20.1	41	10	45
4150	50	10000	2	10.0	26.5	0.4 +	0.0	(5.2)	80	(0.0)	1		5.2	41	62	78
4151	50	10000	1	10.0	9.8	0.1 +	0.0	(1.9)	48	(0.0)	1		1.9	41	10	51
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	254	8000S	4	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	108	4111L	15	7.0	18.1	0.5 +	0.1	(7.7)	62	(0.7)	2		8.5	41	10	51
5010	680	3929S	18	3.0	0.6	0.0 +	0.1	(1.5)	1	(0.1)	0		1.6			
5011BL	28	5010L	18	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6010	220	715	36	18.0	4.6	0.0 +	0.3	(4.0)	0	(0.0)	0		4.0			
6011	569	1618S	37	18.0	1.8	0.0 +	0.3	(3.9)	2	(0.3)	0		4.2			
6012BL	24	6011L	37	22.5	1.8	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6020	460	1800S	27	18.0	1.4	0.0 +	0.2	(2.5)	2	(0.2)	0		2.7			
6021BL	28	6020L	27	22.5	1.4	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	24	6099L	7	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	569	8000S	7	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.6			
7010	933	2055	45	8.0	1.6	0.0 +	0.4	(5.9)	2	(0.2)	0		6.1			
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			

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)	
3219.7	144.9	22.2	30.6	27.9	(829.8) +	(98.8) +	(2.6) =	931.2	TOTALS
95.1	6.2	15.3	0.8	0.4	(16.5) +	(0.8) +	(2.6) =	20.0	BUSES
3124.5	138.6	22.5	29.8	27.5	(813.3) +	(97.9) +	(0.0) =	911.2	OTHER
									ROUTE
988.4	34.4	28.7	3.5	4.5	(113.7) +	(18.3) +	(0.0) =	131.9	1
1083.6	49.8	21.7	10.3	11.1	(304.1) +	(33.8) +	(0.0) =	337.9	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	183.4	+	67.3	+	45.7	=	296.3

NO. OF ENTRIES TO SUBPT = 7
NO. OF LINKS RECALCULATED= 267

CYCLIC FLOW PROFILE GRAPHS

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LINK  4031 FED BY  1030  1040     0     0 M.M.E. 0.37
     I
     I
     I
     I
 2000+
     I             ^^^^
     I          ^ ^^^^^
     I          ^^^^^^^           @@@@@
     I          ^^^^^^^         @@@@@@@
 1500+          ^^^^^^^         @@@@@@@@
     I          ^^^^^^^       @@@@@@@@@@
     I          ^^^^@@^       @@@@@@@@@@@
     I          ^^^@@@@      @@@@@@@@@@@@@
     I          ^^@@@@@     @@@@@@@@@@@@@@@
 1000+          ^@@@@@@@    @@@@@@@@@@@@@@@@
     I         ^@@@@@@@@   @@@@@@@@@@@@@@@@1
     I         ^@@@@@@@@@  @@@@@@@@@@@@@@@@@11
     I         @@@@@@@@@@ @@@@@@@@@@@@@@@@@11
     I1        @@@@@@@@@@@@@@@@@@@@@@@@@@@@11
  500+11      1@@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I1111    1@@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I11111  11@@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     I111111111@@@@@@@@@@@@@@@@@@@@@@@@@@@@11
     +========.1.........1.........1.......==#
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PROGRAM TRANSYT FINISHED

PRT

PRT File
AM Peak : 2011 Flow 0800-0900

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1            _______________ T R A N S Y T 12 _______________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ____________________________________________


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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:- "WEST HENDON A5_DETAILED_AM_V3.DAT"   at 09:46   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   62
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  14028 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7       7
  18)=  10      41               12       3      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40                5       6
  21)=  11      41               18       3      11

                                     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
  22)=  12      34       1      12      50      67
  23)=  12      40       1      26      67
  24)=  12      41       1       0      36      42

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	3	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	-4200	41	2	3	3	0	0	0	0	0	20	0	1800	0	0
78)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
79)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
80)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
81)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
82)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
83)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
86)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
87)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
88)=	32	1010	814	0	4010	727	15	4021	87	15	0	0	0	0	0	0
89)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
90)=	32	1030	1006	0	3430	622	19	3443	384	19	0	0	0	0	0	0
91)=	32	1031	22	0	3431	22	3200	0	0	0	0	0	0	0	0	0
92)=	32	1040	44	0	0	0	20	0	0	0	0	0	0	0	0	0
93)=	32	1099	10	0	1030	20	18	0	0	0	0	0	0	0	0	0
94)=	32	2010	65	0	2011	65	3	0	0	0	0	0	0	0	0	0
95)=	32	2011	1017	0	4110	672	23	4121	345	18	0	0	0	0	0	0
96)=	32	2012	50	0	4111	50	3200	0	0	0	0	0	0	0	0	0
97)=	32	2030	1319	0	0	0	18	0	0	0	0	0	0	0	0	0
98)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
99)=	32	2040	34	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2041	19	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
102)=	32	2098	986	0	2011	952	18	2040	34	18	0	0	0	0	0	0
103)=	32	2099	741	0	2010	65	18	2030	676	18	0	0	0	0	0	0
104)=	32	3010	662	0	2030	643	17	2041	19	17	0	0	0	0	0	0
105)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
106)=	32	3410	672	0	1010	672	6	0	0	0	0	0	0	0	0	0
107)=	32	3411	142	0	1010	142	6	0	0	0	0	0	0	0	0	0
108)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
109)=	32	3430	622	0	4130	622	11	0	0	0	0	0	0	0	0	0
110)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
111)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
112)=	32	3442	383	0	5010	383	7	0	0	0	0	0	0	0	0	0
113)=	32	3443	384	0	5010	384	7	0	0	0	0	0	0	0	0	0
114)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
116)=	32	3499	525	0	3411	142	18	3442	383	10	0	0	0	0	0	0
117)=	32	4010	727	0	0	0	18	0	0	0	0	0	0	0	0	0
118)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
119)=	32	4012	154	0	0	0	18	0	0	0	0	0	0	0	0	0
120)=	32	4020	479	0	0	0	20	0	0	0	0	0	0	0	0	0
121)=	32	4021	87	0	0	0	18	0	0	0	0	0	0	0	0	0
122)=	32	4030	211	0	1030	211	5	0	0	0	0	0	0	0	0	0
123)=	32	4031	819	0	1030	775	5	1040	44	4	0	0	0	0	0	0
124)=	32	4032	22	0	1031	22	3226	0	0	0	0	0	0	0	0	0
125)=	32	4097	1376	0	4020	479	18	4030	78	18	4031	819	18	0	0	0
126)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
127)=	32	4099	287	0	4012	154	18	4030	133	18	0	0	0	0	0	0
128)=	32	4110	672	0	7010	672	7	0	0	0	0	0	0	0	0	0
129)=	32	4111	50	0	7011	50	3211	0	0	0	0	0	0	0	0	0
130)=	32	4120	229	0	0	0	20	0	0	0	0	0	0	0	0	0
131)=	32	4121	345	0	0	0	18	0	0	0	0	0	0	0	0	0
132)=	32	4130	662	0	3010	662	5	0	0	0	0	0	0	0	0	0
133)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
134)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
136)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
137)=	32	4199	269	0	4120	229	18	4130	40	18	0	0	0	0	0	0
138)=	32	-4200	10	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	5010	767	0	6010	94	3	6020	673	3	0	0	0	0	0	0
140)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	6010	94	0	0	0	18	0	0	0	0	0	0	0	0	0
142)=	32	6011	731	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6020	673	0	0	0	18	0	0	0	0	0	0	0	0	0
145)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
146)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0

147)=	32	6099	731	0	6011	731	18	0	0	0	0	0	0	0	0	0
148)=	32	7010	672	0	3410	672	8	0	0	0	0	0	0	0	0	0
149)=	32	7011	50	0	3412	22	3200	3440	28	3200	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.
150)=	33	4110	2040	4	0	0	0	0
151)=	33	4130	1696	3	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
152)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
153)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

.

75 SECOND CYCLE 75 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
34	3	12	50	67							
40	2	26	67								
41	3	0	36	42							

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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
1010	814	2055	40	15.0	1.4	0.0 +	0.3	(4.7)	2	(0.2)	0	(0.0)*	4.9			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	1007	2055	49	19.0	1.7	0.0 +	0.5	(6.8)	2	(0.3)	0	(0.0)*	7.1			
1031BL	22	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	44	715	9	20.0	4.0	0.0 +	0.0	(0.7)	0	(0.0)	0		0.7			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	65	1000	21	3.0	7.2	0.0 +	0.1	(1.8)	0	(0.0)	0	(0.0)*	1.8			
2011	1017	2115S	50	21.3	1.9	0.1 +	0.5	(7.7)	12	(2.6)	7	(0.0)*	10.3			
2012BL	50	2011L	50	29.3	2.1	0.0 +	0.0	(0.4)	21	(0.1)	7	(0.0)*	0.6			
2030	1319	3786S	36	18.0	0.7	0.0 +	0.3	(3.9)	1	(0.3)	0		4.2			
2031BL	50	2030L	36	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.2			
2040	34	600	30	18.0	24.5	0.0 +	0.2	(3.3)	84	(0.6)	0		3.9			
2041	19	715	5	18.0	4.6	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	986	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	740	8000	9	18.0	0.2	0.0 +	0.1	(0.7)	0	(0.1)	0		0.8			
3010	663	2075	32	17.0	1.3	0.0 +	0.2	(3.3)	2	(0.2)	0		3.6			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	672	1910	85	6.0	49.5	6.5 +	2.7	(131.2)	116	(13.3)	16	+	144.5	34	20	50
3411	142	1993S	20	6.0	27.9	1.0 +	0.1	(15.6)	96	(2.3)	3		17.9	34	20	50
3412BL	22	3411L	20	36.0	17.7	0.1 +	0.0	(1.5)	79	(0.0)	3		1.5	34	20	50
3430	623	1972	72	11.0	9.1	0.3 +	1.3	(22.3)	55	(6.5)	12		28.8	34	18	50
3431BL	22	1915	3	12.9	2.4	0.0 +	0.0	(0.2)	3	(0.0)	0	(0.0)*	0.2	34	18	50
3440BL	28	1665	14	9.0	40.0	0.2 +	0.1	(4.4)	101	(0.4)	1		4.8	34	4	12
3442	384	1787	62	7.0	27.9	2.2 +	0.8	(42.3)	90	(8.0)	7		50.3	34	62	12
3443	384	1577	70	7.0	32.0	2.3 +	1.2	(48.5)	96	(8.7)	8		57.1	34	62	12
3450	50	10000	4	10.0	30.0	0.4 +	0.0	(5.9)	88	(0.0)	1		5.9	34	58	67
3451	50	10000	1	10.0	13.6	0.2 +	0.0	(2.7)	59	(0.0)	1		2.7	34	20	50
3499	525	8000	7	12.2	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
4010	727	1949	76	18.0	22.9	3.1 +	1.5	(65.8)	86	(13.3)	14		79.1	40	31	67
4011BL	22	4012L	21	22.5	13.4	0.1 +	0.0	(1.2)	57	(0.2)	2		1.3	40	31	67
4012	154	1707S	21	18.0	13.4	0.5 +	0.1	(8.2)	57	(1.9)	2		10.0	40	31	67
4020	479	1754	71	20.0	28.3	2.6 +	1.2	(53.5)	93	(7.6)	10		61.1	40	73	26
4021	87	1641	14	18.0	18.2	0.4 +	0.1	(6.2)	66	(1.2)	1		7.5	40	73	26
4030	211	1774	79	5.0	50.5	1.2 +	1.8	(42.0)	130	(3.9)	6		46.0	40	31	71
4031	819	1907S	89	4.9	28.0	2.6 +	3.8	(90.4)	80	(9.4)	16	+	99.8	40	31	67
4032BL	22	4031L	89	39.8	39.1	0.1 +	0.1	(3.4)	111	(0.0)	16	(1.9)*	193.6	40	31	67
4097	1376	8000S	17	18.0	0.3	0.0 +	0.1	(1.5)	0	(0.1)	0		1.6			
4098BL	22	4097L	17	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	287	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	672	2383f	68	7.0	34.2	5.3 +	1.1	(90.8)	81	(6.0)	11	+	96.7	41	12	42
4111BL	50	2040	7	26.4	21.9	0.3 +	0.0	(4.3)	60	(0.0)	1		4.3	41	16	42
4120	229	1959	38	20.0	25.3	1.3 +	0.3	(22.8)	82	(3.2)	4		26.0	41	53	0
4121	345	1773	63	18.0	31.4	2.1 +	0.9	(42.7)	94	(6.9)	7		49.6	41	53	0
4130	663	2488f	80	5.0	31.5	3.9 +	1.9	(82.4)	98	(9.3)	14	+	91.7	41	12	36

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75 SECOND CYCLE 75 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 ($/H)	----STOPS---- MEAN STOPS /PCU (%)	COST OF STOPS ($/H)	----QUEUE---- MEAN MAX. (PCU)	AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
4131BL	50	1696	12	31.8	26.3	0.3 +	0.1	(5.2)	82	(0.0)	1		5.2	41	18	36
4150	50	10000	2	10.0	19.0	0.3 +	0.0	(3.7)	70	(0.0)	1		3.7	41	53	0
4151	50	10000	1	10.0	13.6	0.2 +	0.0	(2.7)	59	(0.0)	1		2.7	41	12	42
4198BL	28	4199L	4	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			

4199	269	8000S	4	18.0	0.2	0.0 +	0.0	(	0.2)	0	(	0.0)	0		0.3				
5010	767	3929S	20	3.0	0.6	0.0 +	0.1	(	1.7)	1	(	0.1)	0		1.9				
5011BL	28	5010L	20	3.6	0.6	0.0 +	0.0	(	0.1)	1	(	0.0)	0		0.1				
6010	94	715	17	18.0	3.9	0.0 +	0.1	(	1.4)	0	(	0.0)	0		1.4				
6011	731	1618S	47	18.0	2.1	0.0 +	0.4	(	6.0)	3	(	0.4)	0		6.5				
6012BL	28	6011L	47	22.5	2.1	0.0 +	0.0	(	0.2)	3	(	0.0)	0		0.2				
6020	673	1800S	39	18.0	1.6	0.0 +	0.3	(	4.3)	2	(	0.3)	0		4.7				
6021BL	28	6020L	39	22.5	1.6	0.0 +	0.0	(	0.2)	2	(	0.0)	0		0.2				
6098BL	28	6099L	9	64.8	0.2	0.0 +	0.0	(	0.0)	0	(	0.0)	0		0.0				
6099	731	8000S	9	18.0	0.2	0.0 +	0.1	(	0.7)	0	(	0.1)	0		0.8				
7010	672	2055	33	8.0	1.3	0.0 +	0.2	(	3.5)	2	(	0.2)	0		3.6				
7011BL	50	1915	3	8.0	1.0	0.0 +	0.0	(	0.2)	1	(	0.0)	0		0.2				
-4200	10	1800	10	10.0	55.0	0.1 +	0.1	(	2.2)	120	(	0.0)	0		2.2	41	39	42	

*** 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)	
3108.7	142.5	21.8	37.3	23.0	(856.2) +	(108.1) +	(190.2) =	1154.5	TOTALS
96.7	5.9	16.3	1.1	0.4	(21.9) +	(0.9) +	(190.2) =	213.0	BUSES
3011.9	136.6	22.0	36.2	22.6	(834.2) +	(107.2) +	(0.0) =	941.5	OTHER
									ROUTE
970.7	40.7	23.9	6.7	8.1	(210.6) +	(26.2) +	(0.0) =	236.8	1
842.6	43.3	19.4	15.0	6.5	(304.5) +	(35.7) +	(0.0) =	340.2	2

****

	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	176.7	+	69.6	+	49.5	=	295.8

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 62

CYCLIC FLOW PROFILE GRAPHS

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LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.44

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 2000+
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  500+1          11111111111111111111@@^^^^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@11111
     I11        111111111111111111111@@@@^^^^^^^^@@@@@@@@@@@@@@@@@@@@@@@@@@@11111
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PROGRAM TRANSYT FINISHED

PRT

PRT File
PM Peak : 2011 Flow 1700-1800 + committed + 385 units

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1            _______________ T R A N S Y T 12 _______________

                        Traffic Network Study Tool

                   Analysis Program Release 7  (July 2010)
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            ____________________________________________


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

Run with file:- "WEST HENDON A5_DETAILED_PM_V3.DAT"   at 09:48   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   61
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    0
  NUMBER OF STEPS IN CYCLE           =   75
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13827 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      75      75      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET........................      SECOND SET........................       THIRD SET........................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6099    6098       0       0       0       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.
  16)=  10      34                7       1       5
  17)=  10      40                7      12
  18)=  10      41               12      12

                                     NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  19)=  11      34                8      12      12
  20)=  11      40               15       6
  21)=  11      41               18      11

                                     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
  22)=  12      34       1      40       5      21
  23)=  12      40       1      45      22
  24)=  12      41       1       0      40

                                                 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    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  26)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  27)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  28)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  29)=  30    4030       0    4010       4       0      50       0       0       0       0      45       0    1000       0       0
  30)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       0       0

                                                 LINK  CARDS:   FIXED  DATA
                                        FIRST   GREEN                   SECOND  GREEN
```

CARD NO.	CARD TYPE	LINK NO.	EXIT NODE	START STAGE	START LAG	END STAGE	END LAG	START STAGE	START LAG	END STAGE	END LAG	LINK LENGTH	STOP WT.X100	SAT FLOW	DELAY WT.X100	DISPSN X100
31)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
32)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
33)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
34)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
35)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
36)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
37)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
38)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
39)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
40)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
41)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
42)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
43)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
44)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
45)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
46)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
47)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
48)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
49)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
50)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
51)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
52)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
53)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
54)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
55)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
56)=	31	4010	40	1	15	2	0	0	0	0	0	200	0	1949	0	0
57)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
58)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
59)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
60)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
61)=	31	4030	40	1	5	2	1	0	0	0	0	45	0	1774	0	0
62)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
63)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
64)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
65)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
66)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4110	41	1	12	2	0	0	0	0	0	56	0	1919	0	0
68)=	31	4111	41	1	16	2	0	0	0	0	0	56	0	2040	0	0
69)=	31	4120	41	2	11	1	0	0	0	0	0	200	0	1959	0	0
70)=	31	4121	41	2	11	1	0	0	0	0	0	200	0	1773	0	0
71)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
72)=	31	4131	41	1	18	2	0	0	0	0	0	45	0	1696	0	0
73)=	31	4150	41	2	11	1	0	0	0	0	0	12	0	10000	0	0
74)=	31	4151	41	1	12	2	0	0	0	0	0	11	0	10000	0	0
75)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
76)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
77)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
78)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
79)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
80)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
81)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
82)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
83)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
84)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
85)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
86)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 2 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 3 ..... LINK NO.	FLOW	CRUISE TIME	ENTRY 4 ..... LINK NO.	FLOW	CRUISE TIME
87)=	32	1010	1093	0	4010	1024	15	4021	69	15	0	0	0	0	0	0
88)=	32	1011	25	0	4011	25	3200	0	0	0	0	0	0	0	0	0
89)=	32	1030	1040	0	3430	743	19	3443	297	19	0	0	0	0	0	0
90)=	32	1031	25	0	3431	25	3200	0	0	0	0	0	0	0	0	0
91)=	32	1040	171	0	0	0	20	0	0	0	0	0	0	0	0	0
92)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
93)=	32	2010	66	0	2011	66	3	0	0	0	0	0	0	0	0	0
94)=	32	2011	1249	0	4110	884	23	4121	365	18	0	0	0	0	0	0
95)=	32	2012	53	0	4111	53	3200	0	0	0	0	0	0	0	0	0
96)=	32	2030	1236	0	0	0	18	0	0	0	0	0	0	0	0	0
97)=	32	2031	53	0	0	0	3200	0	0	0	0	0	0	0	0	0
98)=	32	2040	55	0	0	0	18	0	0	0	0	0	0	0	0	0
99)=	32	2041	31	0	0	0	18	0	0	0	0	0	0	0	0	0
100)=	32	2097	53	0	2012	53	3200	0	0	0	0	0	0	0	0	0
101)=	32	2098	1238	0	2011	1183	18	2040	55	18	0	0	0	0	0	0
102)=	32	2099	484	0	2010	66	18	2030	418	18	0	0	0	0	0	0
103)=	32	3010	849	0	2030	818	17	2041	31	17	0	0	0	0	0	0
104)=	32	3011	53	0	2031	53	3200	0	0	0	0	0	0	0	0	0
105)=	32	3410	884	0	1010	884	6	0	0	0	0	0	0	0	0	0
106)=	32	3411	209	0	1010	209	6	0	0	0	0	0	0	0	0	0
107)=	32	3412	25	0	1011	25	3219	0	0	0	0	0	0	0	0	0
108)=	32	3430	743	0	4130	743	11	0	0	0	0	0	0	0	0	0
109)=	32	3431	25	0	4131	25	3200	0	0	0	0	0	0	0	0	0
110)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
111)=	32	3442	437	0	5010	437	7	0	0	0	0	0	0	0	0	0
112)=	32	3443	297	0	5010	297	19	0	0	0	0	0	0	0	0	0
113)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
114)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
115)=	32	3499	646	0	3411	209	18	3442	437	18	0	0	0	0	0	0
116)=	32	4010	1024	0	0	0	18	0	0	0	0	0	0	0	0	0
117)=	32	4011	25	0	0	0	3200	0	0	0	0	0	0	0	0	0
118)=	32	4012	386	0	0	0	18	0	0	0	0	0	0	0	0	0
119)=	32	4020	224	0	0	0	20	0	0	0	0	0	0	0	0	0
120)=	32	4021	69	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4030	241	0	1030	241	5	0	0	0	0	0	0	0	0	0
122)=	32	4031	960	0	1030	789	5	1040	171	4	0	0	0	0	0	0
123)=	32	4032	25	0	1031	25	3210	0	0	0	0	0	0	0	0	0
124)=	32	4097	1184	0	4020	224	18	4030	10	18	4031	960	18	0	0	0
125)=	32	4098	25	0	4032	25	3200	0	0	0	0	0	0	0	0	0
126)=	32	4099	627	0	4012	386	18	4030	241	18	0	0	0	0	0	0
127)=	32	4110	884	0	7010	884	8	0	0	0	0	0	0	0	0	0
128)=	32	4111	53	0	7011	53	3216	0	0	0	0	0	0	0	0	0
129)=	32	4120	237	0	0	0	20	0	0	0	0	0	0	0	0	0
130)=	32	4121	365	0	0	0	18	0	0	0	0	0	0	0	0	0
131)=	32	4130	849	0	3010	849	5	0	0	0	0	0	0	0	0	0
132)=	32	4131	53	0	3011	53	3218	0	0	0	0	0	0	0	0	0
133)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
134)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
135)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
136)=	32	4199	343	0	4120	237	18	4130	106	18	0	0	0	0	0	0
137)=	32	5010	733	0	6010	161	3	6020	572	3	0	0	0	0	0	0
138)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
139)=	32	6010	161	0	0	0	18	0	0	0	0	0	0	0	0	0
140)=	32	6011	659	0	0	0	18	0	0	0	0	0	0	0	0	0
141)=	32	6012	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
142)=	32	6020	572	0	0	0	18	0	0	0	0	0	0	0	0	0
143)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
144)=	32	6098	28	0	6012	28	3233	0	0	0	0	0	0	0	0	0
145)=	32	6099	659	0	6011	659	18	0	0	0	0	0	0	0	0	0
146)=	32	7010	884	0	3410	884	8	0	0	0	0	0	0	0	0	0

147)=	32	7011	53	0	3412	25	3200	3440	28	3200	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.
148)=	33	4110	2040	4	0	0	0	0
149)=	33	4130	1696	3	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
150)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
151)=	38	1011	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
152)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
153)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
154)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
155)=	38	2011	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

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

.

75 SECOND CYCLE 75 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
34	3	40	5	21							
40	2	45	22								
41	2	0	40								

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) ($/H)	COST OF DELAY	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
1010	1056<	2055	51	15.0	1.8	0.0 +	0.5	(7.5)	2	(0.4)	1	(0.0)*	7.9			
1011BL	25	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1030	1041	2055	51	19.0	1.8	0.0 +	0.5	(7.3)	2	(0.3)	1	(0.0)*	7.6			
1031BL	25	1915	1	19.1	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	171	715	35	20.0	5.7	0.0 +	0.3	(3.8)	0	(0.0)	0		3.8			
1099	10	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	63	1000	18	3.0	6.1	0.0 +	0.1	(1.5)	0	(0.0)	0	(0.0)*	1.5			
2011	1205<	2115S	59	21.5	2.9	0.3 +	0.7	(13.8)	30	(8.2)	16	(0.1)*	28.6			
2012BL	53	2011L	59	29.3	3.6	0.0 +	0.0	(0.8)	57	(0.4)	16	(0.1)*	7.8			
2030	1236	3786S	34	18.0	0.7	0.0 +	0.2	(3.5)	1	(0.3)	0		3.8			
2031BL	53	2030L	34	22.5	0.7	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
2040	55	600	51	18.0	44.4	0.2 +	0.5	(9.6)	111	(1.3)	1		10.9			
2041	31	715	7	18.0	4.5	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
2097BL	53	2098L	16	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	1198<	8000S	16	18.0	0.3	0.0 +	0.1	(1.3)	0	(0.1)	0		1.4			
2099	481	8000	6	18.0	0.2	0.0 +	0.0	(0.5)	0	(0.0)	0		0.5			
3010	849	2075	41	17.0	1.5	0.0 +	0.3	(4.9)	2	(0.4)	0		5.3			
3011BL	53	1945	3	20.8	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	854<	1910	102	6.0	112.5	8.4 +	18.3	(379.0)	173	(26.0)	36	+	405.0	34	48	5
3411	203	1993S	26	6.0	25.2	1.3 +	0.2	(20.2)	95	(3.4)	5		23.6	34	48	5
3412BL	25	3411L	26	35.0	20.3	0.1 +	0.0	(2.0)	83	(0.0)	5		2.0	34	48	5
3430	744	1972	81	11.0	34.6	5.1 +	2.1	(101.5)	113	(16.0)	18		117.5	34	46	5
3431BL	25	1915	3	12.9	14.8	0.1 +	0.0	(1.5)	92	(0.3)	0	(0.0)*	1.8	34	46	5
3440BL	28	1665	16	9.0	42.5	0.2 +	0.1	(4.7)	104	(0.4)	1		5.1	34	33	40
3442	437	1787	76	7.0	36.0	2.8 +	1.6	(62.0)	103	(10.5)	10		72.5	34	17	40
3443	298	1577	59	19.0	30.0	1.8 +	0.7	(35.2)	93	(0.9)	6		36.1	34	17	40
3450	50	10000	4	10.0	31.0	0.4 +	0.0	(6.1)	90	(0.0)	1		6.1	34	13	21
3451	50	10000	1	10.0	12.5	0.2 +	0.0	(2.5)	56	(0.0)	1		2.5	34	48	5
3499	640	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
4010	1024	1949	104	18.0	117.8	6.0 +	27.5	(475.9)	190	(41.1)	49	+	517.0	40	60	22
4011BL	25	4012L	38	22.5	9.0	0.0 +	0.0	(0.9)	47	(0.2)	4		1.1	40	50	22
4012	386	1707S	38	18.0	9.0	0.7 +	0.3	(13.8)	47	(3.9)	4		17.6	40	50	22
4020	224	1754	53	20.0	33.9	1.5 +	0.6	(30.0)	96	(3.7)	5		33.7	40	28	45
4021	69	1641	18	18.0	28.2	0.4 +	0.1	(7.7)	84	(1.2)	1		8.9	40	28	45
4030	242	1774	88	5.0	76.0	2.0 +	3.2	(72.6)	151	(5.2)	7		77.8	40	50	23
4031	960	1907S	81	4.8	12.5	1.3 +	2.0	(47.3)	47	(6.4)	10	+	53.8	40	50	22
4032BL	25	4031L	81	23.8	10.7	0.0 +	0.1	(1.1)	25	(0.0)	10	(0.2)*	16.8	40	50	22
4097	1185	8000S	15	18.0	0.3	0.0 +	0.1	(1.2)	0	(0.1)	0		1.3			
4098BL	25	4097L	15	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	628	8000	8	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
4110	840<	2415f	90	8.0	34.6	3.9 +	4.1	(114.5)	116	(8.9)	22	+	123.5	41	12	40
4111BL	53	2040	8	31.4	18.4	0.2 +	0.0	(3.8)	84	(0.0)	1		3.9	41	16	40
4120	237	1959	36	20.0	23.3	1.2 +	0.3	(21.8)	78	(3.2)	4		24.9	41	51	0
4121	365	1773	62	18.0	28.9	2.1 +	0.8	(41.6)	91	(7.0)	7		48.6	41	51	0
4130	849	2428f	90	5.0	38.1	4.7 +	4.3	(127.7)	112	(13.5)	21	+	141.2	41	12	40

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75 SECOND CYCLE 75 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) ($/H)	COST OF DELAY	STOPS MEAN STOPS /PCU (%)	STOPS COST OF STOPS ($/H)	QUEUE MEAN MAX. (PCU)	QUEUE AVERAGE EXCESS (PCU)	PERFORMANCE INDEX. WEIGHTED SUM OF ( ) VALUES ($/H)	EXIT NODE	GREEN TIMES START 1ST (SECONDS)	START END 2ND
4131BL	53	1696	10	31.8	22.5	0.3 +	0.1	(4.7)	76	(0.0)	1		4.7	41	18	40
4150	50	10000	2	10.0	17.5	0.2 +	0.0	(3.5)	67	(0.0)	1		3.5	41	51	0
4151	50	10000	1	10.0	14.9	0.2 +	0.0	(2.9)	62	(0.0)	1		2.9	41	12	40
4198BL	28	4199L	5	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	342	8000S	5	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
5010	733	3929S	19	3.0	0.6	0.0 +	0.1	(1.6)	1	(0.1)	0		1.8			
5011BL	28	5010L	19	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
6010	161	715	28	18.0	4.3	0.0 +	0.2	(2.7)	0	(0.0)	0		2.7			
6011	659	1618S	42	18.0	1.9	0.0 +	0.4	(5.0)	3	(0.4)	0		5.4			
6012BL	28	6011L	42	22.5	1.9	0.0 +	0.0	(0.2)	3	(0.0)	0		0.2			
6020	572	1800S	33	18.0	1.5	0.0 +	0.2	(3.4)	2	(0.2)	0		3.6			
6021BL	28	6020L	33	22.5	1.5	0.0 +	0.0	(0.2)	2	(0.0)	0		0.2			
6098BL	28	6099L	9	64.8	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
6099	659	8000S	9	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.7			
7010	840<	2055	41	8.0	1.5	0.0 +	0.3	(4.9)	2	(0.2)	0		5.1			
7011BL	53	1915	3	8.0	1.0	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			

*** 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)	
3427.0	209.9	16.3	45.7	71.3	(1661.8) +	(164.6) +	(28.9) =	1855.3	TOTALS

```
   102.6          6.1       16.9          1.0      0.4    (  20.7) + (    1.5)  +  (  22.3)   =      44.5      BUSES
  3324.5        203.8       16.3         44.7     70.9    (1641.1) + (  163.2)  +  (   6.6)   =    1810.8      OTHER
-------------------------------------------------------------------------------------------------------------------------
                                                                                                                 ROUTE


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

FUEL CONSUMPTION PREDICTIONS       196.1         +     134.6         +      75.2         =     406.0

NO. OF ENTRIES TO SUBPT  =    1
NO. OF LINKS RECALCULATED=   61

PROGRAM TRANSYT FINISHED
```

PRT

PRT File
Sat Peak : 2011 Flow 1200-1300

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1            _______________ T R A N S Y T 12 _______________

                    Traffic Network Study Tool

              Analysis Program Release 7  (July 2010)
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           ____________________________________________


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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:- "WEST HENDON A5_DETAILED_SAT_V3.DAT"   at 09:49   on 20130313

TRANSYT 12.0

West Hendon Broadway Base Model


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

  NUMBER OF NODES                    =    3
  NUMBER OF LINKS                    =   63
  NUMBER OF OPTIMISED NODES          =    3
  MAXIMUM NUMBER OF GRAPHIC PLOTS    =    8
  NUMBER OF STEPS IN CYCLE           =   66
  MAXIMUM NUMBER OF SHARED STOPLINES =    2
  MAXIMUM NUMBER OF TIMING POINTS    =    3
  MAXIMUM LINKS AT ANY NODE          =    9


  CORE REQUESTED =  13521 WORDS
  CORE AVAILABLE =  72000 WORDS
.

          DATA INPUT :-
           ~~~~ ~~~~~
 CARD   CARD
  NO.   TYPE
 (  1)= TITLE:- West Hendon Broadway Base Model
 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      66      66      60       2       3       0       1     100     100       0       0       0       0    1420     260
 CARD   CARD                                          LIST  OF  NODES  TO  BE  OPTIMISED
  NO.   TYPE
   3)=   2      40      41      34       0       0       0       0       0       0       0       0       0       0       0       0

                                                   LINKS HAVING SHARED STOPLINES
 CARD   CARD     FIRST SET.......................      SECOND SET.......................       THIRD SET.......................
  NO.   TYPE
   4)=   7    2011    2012       0       0       0       0       0       0       0       0       0       0       0       0       0
   5)=   7    2030    2031       0       0       0       0       0       0       0       0       0       0       0       0       0
   6)=   7    2098    2097       0       0       0       0       0       0       0       0       0       0       0       0       0
   7)=   7    3411    3412       0       0       0       0       0       0       0       0       0       0       0       0       0
   8)=   7    4012    4011       0       0       0       0       0       0       0       0       0       0       0       0       0
   9)=   7    4031    4032       0       0       0       0       0       0       0       0       0       0       0       0       0
  10)=   7    4097    4098       0       0       0       0       0       0       0       0       0       0       0       0       0
  11)=   7    4111    4200       0       0       0       0       0       0       0       0       0       0       0       0       0
  12)=   7    4131    4132       0       0       0       0       0       0       0       0       0       0       0       0       0
  13)=   7    4199    4198       0       0       0       0       0       0       0       0       0       0       0       0       0
  14)=   7    5010    5011       0       0       0       0       0       0       0       0       0       0       0       0       0
  15)=   7    6011    6012       0       0       0       0       0       0       0       0       0       0       0       0       0
  16)=   7    6020    6021       0       0       0       0       0       0       0       0       0       0       0       0       0
  17)=   7    6099    6098       0       0       0       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.
  18)=  10      34                7       1       5
  19)=  10      40                7       7
  20)=  10      41               12       6      12

                                 NODE CARDS:  PRECEDING INTERSTAGE TIMES (WORKING)
 CARD   CARD   NODE              S1      S2      S3      S4      S5      S6      S7      S8      S9     S10
  NO.   TYPE    NO.
  21)=  11      34                8      12      12
  22)=  11      40                5       6
  23)=  11      41               12       0      11

                                 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
  24)=  12      34       1       12      45      58
  25)=  12      40       1       26       4
  26)=  12      41       1        0      26      43

                                                 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
  27)=  30    1040    1030       0       0      22       0       0       0       0       0     200       0     715       0       0
  28)=  30    2010    2030       0       0      50       0       0       0       0       0      31       0    1000       0       0
  29)=  30    2040    2030    2011       0      22      19       0       0       0       0     200       0     600       0       0
  30)=  30    2041    2030       0       0      22       0       0       0       0       0     200       0     715       0       0
  31)=  30    4030       0    4010      37       0      50       0       0       0       0      45       0    1000       0       0
  32)=  30    6010    6020       0       0      22       0       0       0       0       0     200       0     715       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
33)=	31	1010	0	0	0	0	0	0	0	0	0	135	0	2055	0	0
34)=	31	1011	0	0	0	0	0	0	0	0	0	135	0	1915	0	0
35)=	31	1030	0	0	0	0	0	0	0	0	0	170	0	2055	0	0
36)=	31	1031	0	0	0	0	0	0	0	0	0	170	0	1915	0	0
37)=	31	1099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
38)=	31	2011	0	0	0	0	0	0	0	0	0	260	0	2115	0	0
39)=	31	2012	0	0	0	0	0	0	0	0	0	260	0	0	0	0
40)=	31	2030	0	0	0	0	0	0	0	0	0	200	0	3786	0	0
41)=	31	2031	0	0	0	0	0	0	0	0	0	200	0	0	0	0
42)=	31	2097	0	0	0	0	0	0	0	0	0	200	0	0	0	0
43)=	31	2098	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
44)=	31	2099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
45)=	31	3010	0	0	0	0	0	0	0	0	0	185	0	2075	0	0
46)=	31	3011	0	0	0	0	0	0	0	0	0	185	0	1945	0	0
47)=	31	3410	34	1	8	2	0	0	0	0	0	60	0	1910	0	0
48)=	31	3411	34	1	8	2	0	0	0	0	0	60	0	1993	0	0
49)=	31	3412	0	0	0	0	0	0	0	0	0	60	0	0	0	0
50)=	31	3430	34	1	6	2	0	0	0	0	0	115	0	1972	0	0
51)=	31	3431	34	1	6	2	0	0	0	0	0	115	0	1915	0	0
52)=	31	3440	34	3	12	1	0	0	0	0	0	80	0	1665	0	0
53)=	31	3442	34	2	12	1	0	0	0	0	0	80	0	1787	0	0
54)=	31	3443	34	2	12	1	0	0	0	0	0	80	0	1577	0	0
55)=	31	3450	34	2	8	3	0	0	0	0	0	12	0	10000	0	0
56)=	31	3451	34	1	8	2	0	0	0	0	0	12	0	10000	0	0
57)=	31	3499	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
58)=	31	4010	40	1	5	2	0	0	0	0	0	200	0	1949	0	0
59)=	31	4011	0	0	0	0	0	0	0	0	0	200	0	0	0	0
60)=	31	4012	40	1	5	2	0	0	0	0	0	200	0	1707	0	0
61)=	31	4020	40	2	6	1	0	0	0	0	0	200	0	1754	0	0
62)=	31	4021	40	2	6	1	0	0	0	0	0	200	0	1641	0	0
63)=	31	4030	40	1	5	2	4	0	0	0	0	45	0	1774	0	0
64)=	31	4031	40	1	5	2	0	0	0	0	0	45	0	1907	0	0
65)=	31	4032	0	0	0	0	0	0	0	0	0	45	0	0	0	0
66)=	31	4097	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
67)=	31	4098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
68)=	31	4099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
69)=	31	4110	41	1	12	3	0	0	0	0	0	56	0	1919	0	0
70)=	31	4111	41	1	12	3	0	0	0	0	0	56	0	2040	0	0
71)=	31	4120	41	3	11	1	0	0	0	0	0	200	0	1959	0	0
72)=	31	4121	41	3	11	1	0	0	0	0	0	200	0	1773	0	0
73)=	31	4130	41	1	12	2	0	0	0	0	0	45	0	2056	0	0
74)=	31	4131	41	1	12	2	0	0	0	0	0	45	0	1696	0	0
75)=	31	4132	0	0	0	0	0	0	0	0	0	45	0	0	0	0
76)=	31	4150	41	3	11	1	0	0	0	0	0	12	0	10000	0	0
77)=	31	4151	41	1	12	3	0	0	0	0	0	11	0	10000	0	0
78)=	31	4198	0	0	0	0	0	0	0	0	0	200	0	0	0	0
79)=	31	4199	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
80)=	31	4200	0	0	0	0	0	0	0	0	0	56	0	0	0	0
81)=	31	5010	0	0	0	0	0	0	0	0	0	32	0	3929	0	0
82)=	31	5011	0	0	0	0	0	0	0	0	0	32	0	0	0	0
83)=	31	6011	0	0	0	0	0	0	0	0	0	200	0	1618	0	0
84)=	31	6012	0	0	0	0	0	0	0	0	0	200	0	0	0	0
85)=	31	6020	0	0	0	0	0	0	0	0	0	200	0	1800	0	0
86)=	31	6021	0	0	0	0	0	0	0	0	0	200	0	0	0	0
87)=	31	6098	0	0	0	0	0	0	0	0	0	200	0	0	0	0
88)=	31	6099	0	0	0	0	0	0	0	0	0	200	0	8000	0	0
89)=	31	7010	0	0	0	0	0	0	0	0	0	71	0	2055	0	0
90)=	31	7011	0	0	0	0	0	0	0	0	0	71	0	1915	0	0

LINK CARDS: FLOW DATA

CARD NO.	CARD TYPE	LINK NO.	TOTAL FLOW	UNIFORM FLOW	ENTRY 1 LINK NO.	ENTRY 1 FLOW	ENTRY 1 CRUISE TIME	ENTRY 2 LINK NO.	ENTRY 2 FLOW	ENTRY 2 CRUISE TIME	ENTRY 3 LINK NO.	ENTRY 3 FLOW	ENTRY 3 CRUISE TIME	ENTRY 4 LINK NO.	ENTRY 4 FLOW	ENTRY 4 CRUISE TIME
91)=	32	1010	873	0	4010	803	15	4021	70	15	0	0	0	0	0	0
92)=	32	1011	22	0	4011	22	3200	0	0	0	0	0	0	0	0	0
93)=	32	1030	897	0	3430	566	19	3443	331	19	0	0	0	0	0	0
94)=	32	1031	22	0	3431	22	3220	0	0	0	0	0	0	0	0	0
95)=	32	1040	109	0	0	0	20	0	0	0	0	0	0	0	0	0
96)=	32	1099	10	0	1030	10	18	0	0	0	0	0	0	0	0	0
97)=	32	2010	55	0	2011	55	3	0	0	0	0	0	0	0	0	0
98)=	32	2011	1027	0	4110	623	23	4121	295	18	4200	109	23	0	0	0
99)=	32	2012	50	0	4111	50	3230	0	0	0	0	0	0	0	0	0
100)=	32	2030	1108	0	0	0	18	0	0	0	0	0	0	0	0	0
101)=	32	2031	50	0	0	0	3200	0	0	0	0	0	0	0	0	0
102)=	32	2040	33	0	0	0	18	0	0	0	0	0	0	0	0	0
103)=	32	2041	17	0	0	0	18	0	0	0	0	0	0	0	0	0
104)=	32	2097	50	0	2012	50	3200	0	0	0	0	0	0	0	0	0
105)=	32	2098	997	0	2011	972	18	2040	33	18	0	0	0	0	0	0
106)=	32	2099	585	0	2010	55	18	2030	530	18	0	0	0	0	0	0
107)=	32	3010	595	0	2030	578	17	2041	17	17	0	0	0	0	0	0
108)=	32	3011	50	0	2031	50	3200	0	0	0	0	0	0	0	0	0
109)=	32	3410	732	0	1010	732	6	0	0	0	0	0	0	0	0	0
110)=	32	3411	141	0	1010	141	6	0	0	0	0	0	0	0	0	0
111)=	32	3412	22	0	1011	22	3220	0	0	0	0	0	0	0	0	0
112)=	32	3430	566	0	4130	368	11	4132	198	11	0	0	0	0	0	0
113)=	32	3431	22	0	4131	22	3200	0	0	0	0	0	0	0	0	0
114)=	32	3440	28	0	5011	28	3200	0	0	0	0	0	0	0	0	0
115)=	32	3442	312	0	5010	312	7	0	0	0	0	0	0	0	0	0
116)=	32	3443	331	0	5010	331	7	0	0	0	0	0	0	0	0	0
117)=	32	3450	50	0	0	0	10	0	0	0	0	0	0	0	0	0
118)=	32	3451	50	0	0	0	10	0	0	0	0	0	0	0	0	0
119)=	32	3499	453	0	3411	141	18	3442	312	10	0	0	0	0	0	0
120)=	32	4010	803	0	0	0	18	0	0	0	0	0	0	0	0	0
121)=	32	4011	22	0	0	0	3200	0	0	0	0	0	0	0	0	0
122)=	32	4012	186	0	0	0	18	0	0	0	0	0	0	0	0	0
123)=	32	4020	235	0	0	0	20	0	0	0	0	0	0	0	0	0
124)=	32	4021	70	0	0	0	18	0	0	0	0	0	0	0	0	0
125)=	32	4030	148	0	1030	148	5	0	0	0	0	0	0	0	0	0
126)=	32	4031	848	0	1030	739	5	1040	109	4	0	0	0	0	0	0
127)=	32	4032	22	0	1031	22	3200	0	0	0	0	0	0	0	0	0
128)=	32	4097	1083	0	4020	235	18	4031	848	18	0	0	0	0	0	0
129)=	32	4098	22	0	4032	22	3200	0	0	0	0	0	0	0	0	0
130)=	32	4099	334	0	4012	186	18	4030	148	18	0	0	0	0	0	0
131)=	32	4110	623	0	7010	623	7	0	0	0	0	0	0	0	0	0
132)=	32	4111	50	0	7011	50	3230	0	0	0	0	0	0	0	0	0
133)=	32	4120	181	0	0	0	20	0	0	0	0	0	0	0	0	0
134)=	32	4121	295	0	0	0	18	0	0	0	0	0	0	0	0	0
135)=	32	4130	368	0	3010	368	5	0	0	0	0	0	0	0	0	0
136)=	32	4131	50	0	3011	50	3218	0	0	0	0	0	0	0	0	0
137)=	32	4132	227	0	3010	227	5	0	0	0	0	0	0	0	0	0
138)=	32	4150	50	0	0	0	10	0	0	0	0	0	0	0	0	0
139)=	32	4151	50	0	0	0	10	0	0	0	0	0	0	0	0	0
140)=	32	4198	28	0	4131	28	3200	0	0	0	0	0	0	0	0	0
141)=	32	4199	210	0	4120	181	18	4132	29	18	0	0	0	0	0	0
142)=	32	4200	109	0	7010	109	7	0	0	0	0	0	0	0	0	0
143)=	32	5010	643	0	6010	194	3	6020	449	3	0	0	0	0	0	0
144)=	32	5011	28	0	6021	28	3200	0	0	0	0	0	0	0	0	0
145)=	32	6010	194	0	0	0	18	0	0	0	0	0	0	0	0	0
146)=	32	6011	552	0	0	0	18	0	0	0	0	0	0	0	0	0

147)=	32	6012	24	0	0	0	3200	0	0	0	0	0	0	0	0	0
148)=	32	6020	449	0	0	0	18	0	0	0	0	0	0	0	0	0
149)=	32	6021	28	0	0	0	3200	0	0	0	0	0	0	0	0	0
150)=	32	6098	24	0	6012	24	3233	0	0	0	0	0	0	0	0	0
151)=	32	6099	552	0	6011	552	18	0	0	0	0	0	0	0	0	0
152)=	32	7010	732	0	3410	732	8	0	0	0	0	0	0	0	0	0
153)=	32	7011	50	0	3412	22	3200	3440	28	3200	0	0	0	0	0	0

GRAPH PLOT CARDS

CARD NO.	CARD TYPE	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.	LINK NO.							
154)=	35	4031	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINK DATA: QUEUE CONSTRAINTS

CARD NO.	CARD TYPE	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT	LINK NO.	LIMIT QUEUE	QUEUE WEIGHT
155)=	38	1010	12	9999	0	0	0	0	0	0	0	0	0	0	0	0
156)=	38	1030	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
157)=	38	1031	10	9999	0	0	0	0	0	0	0	0	0	0	0	0
158)=	38	2010	4	9999	0	0	0	0	0	0	0	0	0	0	0	0
159)=	38	2012	14	9999	0	0	0	0	0	0	0	0	0	0	0	0
160)=	38	3431	7	9999	0	0	0	0	0	0	0	0	0	0	0	0
161)=	38	4032	8	9999	0	0	0	0	0	0	0	0	0	0	0	0

USER-DEFINED ROUTES

CARD NO.	CARD TYPE	ROUTE NUMBER	ROUTE DESCRIPTION
162)=	41	1	Southbound
163)=	41	2	Northbound

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.
164)=	42	1	2030	3010	4130	3430	1030	4031	4097						
165)=	42	2	4010	1010	3410	7010	4110	2011	2098						

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

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66 SECOND CYCLE 66 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
34	3	12	45	58							
40	2	26	4								
41	3	0	26	43							

LINK NUMBER	FLOW INTO LINK (PCU/H)	SAT FLOW (PCU/H)	DEGREE OF SAT (%)	MEAN TIMES PER CRUISE (SEC)	PCU DELAY (SEC)	DELAY UNIFORM (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)
1010	873	2055	42	15.0	1.5	0.0 +	0.4	(5.2)	2	(0.3)	0	(0.0)*	5.5			
1011BL	22	1915	1	15.2	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
1030	897	2055	44	19.0	1.6	0.0 +	0.4	(5.5)	2	(0.3)	0	(0.0)*	5.8			
1031BL	22	1915	1	48.4	1.0	0.0 +	0.0	(0.1)	1	(0.0)	0	(0.0)*	0.1			
1040	109	715	21	20.0	4.4	0.0 +	0.1	(1.9)	0	(0.0)	0		1.9			
1099	11	8000	0	18.0	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
2010	55	1000	13	3.0	5.0	0.0 +	0.1	(1.1)	0	(0.0)	0	(0.0)*	1.1			
2011	1026	2115S	51	21.6	1.7	0.0 +	0.5	(7.0)	3	(0.6)	1		7.6			
2012BL	50	2011L	51	68.5	1.7	0.0 +	0.0	(0.3)	3	(0.0)	1	(0.0)*	0.4			
2030	1108	3786S	31	18.0	0.7	0.0 +	0.2	(3.0)	1	(0.2)	0		3.2			
2031BL	50	2030L	31	22.5	0.7	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			
2040	33	600	23	18.0	17.0	0.0 +	0.2	(2.2)	33	(0.2)	0		2.4			
2041	17	715	4	18.0	4.1	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
2097BL	50	2098L	13	22.5	0.3	0.0 +	0.0	(0.1)	0	(0.0)	0		0.1			
2098	996	8000S	13	18.0	0.3	0.0 +	0.1	(1.0)	0	(0.1)	0		1.1			
2099	585	8000	7	18.0	0.2	0.0 +	0.0	(0.6)	0	(0.0)	0		0.6			
3010	595	2075	29	17.0	1.2	0.0 +	0.2	(2.9)	2	(0.2)	0		3.1			
3011BL	50	1945	3	20.8	0.9	0.0 +	0.0	(0.2)	1	(0.0)	0		0.2			
3410	732	1910	97	6.0	72.5	5.5 +	9.3	(209.3)	158	(19.7)	23	+	229.0	34	20	45
3411	141	1993S	21	6.0	20.7	0.7 +	0.1	(11.5)	89	(2.2)	3		13.7	34	20	45
3412BL	22	3411L	21	36.0	13.6	0.1 +	0.0	(1.2)	67	(0.0)	3		1.2	34	20	45
3430	566	1972	68	11.0	8.4	0.3 +	1.0	(18.7)	57	(6.2)	10		24.9	34	18	45
3431BL	22	1915	3	12.9	2.3	0.0 +	0.0	(0.2)	4	(0.0)	0	(0.0)*	0.2	34	18	45
3440BL	28	1665	12	9.0	34.1	0.2 +	0.1	(3.8)	98	(0.4)	1		4.2	34	4	12
3442	313	1787	52	7.0	24.1	1.5 +	0.5	(29.7)	86	(6.3)	5		36.0	34	57	12
3443	331	1577	63	7.0	27.7	1.7 +	0.8	(36.1)	93	(7.2)	6		43.4	34	57	12
3450	50	10000	6	10.0	29.8	0.4 +	0.0	(5.9)	94	(0.0)	1		5.9	34	53	58
3451	50	10000	1	10.0	12.9	0.2 +	0.0	(2.5)	61	(0.0)	1		2.5	34	20	45
3499	454	8000	6	12.5	0.2	0.0 +	0.0	(0.4)	0	(0.0)	0		0.5			
4010	803	1949	68	18.0	13.4	1.9 +	1.1	(42.6)	69	(11.7)	11		54.3	40	31	4
4011BL	22	4012L	20	22.5	8.0	0.0 +	0.0	(0.7)	45	(0.1)	2		0.8	40	31	4
4012	186	1707S	20	18.0	8.0	0.3 +	0.1	(5.9)	45	(1.8)	2		7.6	40	31	4
4020	235	1754	52	20.0	29.3	1.4 +	0.5	(27.1)	95	(3.8)	4		30.9	40	10	26
4021	70	1641	17	18.0	24.1	0.4 +	0.1	(6.7)	82	(1.2)	1		7.9	40	10	26
4030	147	1774	39	5.0	18.8	0.5 +	0.3	(10.9)	75	(1.6)	2		12.5	40	31	8
4031	848	1907S	75	4.9	12.4	1.4 +	1.5	(41.4)	52	(6.2)	9	+	47.6	40	31	4
4032BL	22	4031L	75	5.1	16.9	0.1 +	0.0	(1.5)	70	(0.2)	9	(0.0)*	3.9	40	31	4
4097	1083	8000S	14	18.0	0.3	0.0 +	0.1	(1.1)	0	(0.1)	0		1.2			
4098BL	22	4097L	14	22.5	0.3	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4099	333	8000	4	18.0	0.2	0.0 +	0.0	(0.3)	0	(0.0)	0		0.3			
4110	623	1919	67	7.0	28.0	3.8 +	1.0	(68.7)	77	(5.3)	9		74.0	41	12	43
4111BL	50	2040S	16	45.4	14.3	0.2 +	0.0	(2.8)	66	(0.0)	2		2.8	41	12	43
4120	181	1959	47	20.0	32.2	1.2 +	0.4	(23.0)	98	(3.0)	3		26.0	41	54	0
4121	295	1773	84	18.0	55.9	2.1 +	2.5	(65.1)	134	(8.4)	8		73.5	41	54	0
4130	368	2056	79	5.0	41.4	2.5 +	1.8	(60.2)	116	(6.1)	8		66.2	41	12	26

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66 SECOND CYCLE 66 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 (PCU-H/H)	RANDOM+ OVERSAT (U+R+O=MEAN Q)	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)
4131BL	50	1696S	72	31.8	39.8	0.3 +	0.2	(7.8)	114	(0.0)	6		7.9	41	12	26
4132	227	4131L	72	5.0	39.9	1.5 +	1.0	(35.7)	114	(3.7)	6		39.4	41	12	26
4150	50	10000	3	10.0	22.6	0.3 +	0.0	(4.5)	81	(0.0)	1		4.5	41	54	0
4151	50	10000	1	10.0	9.4	0.1 +	0.0	(1.9)	52	(0.0)	0		1.9	41	12	43
4198BL	28	4199L	3	22.5	0.2	0.0 +	0.0	(0.0)	0	(0.0)	0		0.0			
4199	210	8000S	3	18.0	0.2	0.0 +	0.0	(0.2)	0	(0.0)	0		0.2			
4200	108	4111L	16	7.0	20.3	0.5 +	0.1	(8.7)	71	(0.9)	2		9.5	41	12	43
5010	643	3929S	17	3.0	0.6	0.0 +	0.1	(1.4)	1	(0.1)	0		1.5			
5011BL	28	5010L	17	3.6	0.6	0.0 +	0.0	(0.1)	1	(0.0)	0		0.1			

6010	194	715	32	18.0	4.3	0.0	+	0.2	(	3.3)	0	(	0.0)	0		3.3
6011	552	1618S	36	18.0	1.7	0.0	+	0.3	(	3.8)	3	(	0.3)	0		4.1
6012BL	24	6011L	36	22.5	1.7	0.0	+	0.0	(	0.2)	3	(	0.0)	0		0.2
6020	449	1800S	26	18.0	1.4	0.0	+	0.2	(	2.4)	2	(	0.2)	0		2.6
6021BL	28	6020L	26	22.5	1.4	0.0	+	0.0	(	0.2)	2	(	0.0)	0		0.2
6098BL	24	6099L	7	64.8	0.2	0.0	+	0.0	(	0.0)	0	(	0.0)	0		0.0
6099	552	8000S	7	18.0	0.2	0.0	+	0.0	(	0.5)	0	(	0.0)	0		0.6
7010	732	2055	36	8.0	1.4	0.0	+	0.3	(	3.9)	2	(	0.2)	0		4.1
7011BL	50	1915	3	8.0	1.0	0.0	+	0.0	(	0.2)	1	(	0.0)	0		0.2

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)	
2791.9	130.3	21.4	29.0	26.2	(783.5) +	(99.1) +	(2.2) =	884.9	TOTALS
95.1	6.4	14.8	0.9	0.5	(19.5) +	(0.9) +	(2.2) =	22.6	BUSES
2696.7	123.8	21.8	28.2	25.7	(764.0) +	(98.2) +	(0.0) =	862.3	OTHER
									ROUTE
820.6	31.2	26.3	4.2	5.2	(132.7) +	(19.3) +	(0.0) =	152.1	1
875.7	46.6	18.8	11.2	12.6	(337.8) +	(37.8) +	(0.0) =	375.6	2

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	CRUISE LITRES PER HOUR		DELAY LITRES PER HOUR		STOPS LITRES PER HOUR		TOTALS LITRES PER HOUR
FUEL CONSUMPTION PREDICTIONS	159.0	+	63.5	+	45.8	=	268.3

NO. OF ENTRIES TO SUBPT = 1
NO. OF LINKS RECALCULATED= 63

CYCLIC FLOW PROFILE GRAPHS

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LINK 4031 FED BY 1030 1040 0 0 M.M.E. 0.43

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PROGRAM TRANSYT FINISHED

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