

## **ANEXO 2**

### **LISTADOS DE SALIDAS DEL MODELO SATURN ESCENARIO PROPUESTO**

### **ESTUDIO DE FACTIBILIDAD VIAL PLAN REGULADOR COMUNAL DE LA REINA.**

**DATA DEFAULTS FROM SAT95KEY.DAT:**

HPREF = C:\SATURN10\HLP\  
CPREF = C:\SATURN10\DAT\  
KPREF = C:\SATURN10\DAT\  
ANSI = F  
SKIP24 = F  
LEFTDR = F  
LPERP = 60  
LPERT = 24  
DRIVE = C:

**COMMAND LINE PARAMETERS: MODIFICA M-2024**

OPEN THE PREFERENCES/CONTROL FILE:  
C:\SATURN10\DAT\SATASS0.DAT  
OPENED OK

**THE INPUT SATURN UFS FILE IS READ FROM CHANNEL 1**

**HEADER DATA FROM THE UNFORMATTED FILE READ FROM CHANNEL 1**

RUN NAME SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024  
CREATED BY PROGRAM SATALL  
DATE AND TIME OF CREATION 18/ 2/10 18:37:56  
FILE NAME: MODIFICA.UFS  
PATHNAME: C:\roberto\lareina\modelacion\base 2025\MODIFICA.UFS  
SATURN VERSION 10.1. 5

**READING NAMELIST DATA FROM CHANNEL 5 - C:\SATURN10\DAT\SATASS0.DAT  
IDENTIFIER: PARAM**

**NAMELIST DATA INPUT ENDS**

2 RECORDS READ IN TOTO  
0 WITH SYNTAX ERRORS  
0 VARIABLE NAMES IDENTIFIED  
0 WITH UNIDENTIFIED NAMES

**LISTING OF THE PARAM VALUES TAKEN**

MODET = 1 NITA = 25 MPIJA = 0  
KORN = 0 KOB = 0 KOMBI = 15  
TITLE = F REGO = F COMPAR = T  
PRINTF = T EXPERT = F CCOUNT = F  
MTFLOW = F AMY = F PRPIJA = F  
PRTIJA = F SUZIE = F SAVEIT = F  
SUZIEQ = T TUTOR = F  
ROSIE = F DIDDLE = T SEED = T  
SUET = 0.20 PPM = 1.00 PPK = 0.00  
GONZO = 0.95

**HEADER DATA FROM THE UNFORMATTED FILE READ FROM CHANNEL 9**

**RUN NAME**  
**CREATED BY PROGRAM MX**  
**DATE AND TIME OF CREATION 18/ 2/10 18:37:53**  
**FILE NAME: M-2024.UFM**  
**PATHNAME: C:\roberto\lareinalmodelacion\base 2025\M-2024.UFM**  
**SATURN VERSION 10.1. 5**

**MATRIX TITLE - MATRIZ**  
**MATRIX SIZE - 81 ROWS 81 COLUMNS**  
**TYPE OF ELEMENTS - REALS**  
**ELEMENT DIMENSIONS - VIAJES**  
**ELEMENT UNITS - VPH**

**FILENAME: M-2024.UFM**

**N.B. ALL ELEMENTS IN THE TRIP MATRIX ARE FACTORED BY: 0.95**  
**(THE GONZO FACTOR!)**

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

OUTPUT FROM SATASS (SATURN ASSIGNMENT STAGE)

ASSIGNMENT RUN NUMBER 9

WARDROP USER EQUILIBRIUM ASSIGNMENT: 1 USER CLASS

SATASS/SATSIM CONVERGENCE MEASURED AS A GAP FUNCTION:

WITH THE LATEST COSTS CALCULATED IN SATSIM TOTAL VEHICLE COSTS OF:

PREVIOUSLY ASSIGNED SATASS FLOWS = 11783046.00

ASSIGNING ALL TRIPS TO MINIMUM COST ROUTES = 11564116.00

THE PERCENTAGE DIFFERENCE OR GAP FUNCTION = 1.89 %

N.B. DIDDLE = T: THE FIRST ASSIGNMENT IS EQUAL  
TO FLOWS FROM THE PREVIOUS RUN OF SATEASY

ITERATION # 2

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.356 %

ITERATION # 3

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.146 %

ITERATION # 4

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.471 %

ITERATION # 5

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.378 %

ITERATION # 6

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.695 %

ITERATION # 7

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.582 %

ITERATION # 8

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.849 %

ITERATION # 9

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.751 %

ITERATION # 10

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.182 %

ITERATION # 11

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.256 %

**ITERATION # 12**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.626 %**

**ITERATION # 13**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.054 %**

**ITERATION # 14**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.077 %**

**ITERATION # 15**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.726 %**

**ITERATION # 16**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.186 %**

**ITERATION # 17**

**LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.578 %**

**ITERATION # 18**

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.907 %

ITERATION # 19

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.332 %

ITERATION # 20

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.930 %

ITERATION # 21

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.596 %

ITERATION # 22

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.798 %

ITERATION # 23

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.993 %

ITERATION # 24

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 1.144 %

ITERATION # 25

LAMBDA (FRACTION OF ALL-OR-NOTHING FLOWS TAKEN) = 0.705 %

>>>> REASSIGNMENT STOPPED AFTER 25 ITERATIONS >>>>  
MAXIMUM NUMBER OF ITERATIONS EXCEEDED

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

FINAL SUM OF FLOWS\*TIME(FLOWS) = 11671187.0 PCU-SEC/HR  
= 3242.0 PCU-HR/HR

NOTE THAT THE ABOVE TOTAL IS (A) GIVEN AS A RATE PER HOUR,  
NOT AS AN ABSOLUTE TOTAL OVER THE TIME PERIOD SIMULATED,  
AND (B) REPRESENTS THE TOTAL DEMAND FOR TRIP MAKING,  
I.E. IT ASSUMES ALL TRIPS INCUR THE AVERAGE TRAVEL COSTS  
FOR THIS TIME PERIOD. IT THEREFORE SOMEWHAT MISREPRESENTS  
TRIPS COMPLETED IN THE NEXT TIME PERIOD DUE TO OVER-  
CAPACITY JUNCTIONS

FINAL CONVERGENCE STATISTICS AND STOPPING VALUES

25 GE 25 - NUMBER OF ITERATIONS  
0.45 - % DELTA (ACTUAL COSTS LESS MINIMUM COSTS)  
0.71 LT 0.05 - % OF NEW A-O-N LOAD USED

ABSOLUTE FRACTIONS OF TRIPS ASSIGNED TO EACH ITERATION

ITERATION	FRACTION
1	0.7674
2	0.0105
3	0.0090
4	0.0117
5	0.0112
6	0.0140
7	0.0132
8	0.0158
9	0.0065
10	0.0103
11	0.0111
12	0.0055
13	0.0094
14	0.0097
15	0.0066
16	0.0109



17	0.0054
18	0.0085
19	0.0126
20	0.0089
21	0.0057
22	0.0078
23	0.0097
24	0.0114
25	0.0071

SINCE THIS IS ASSIGNMENT NUMBER 9  
 IN THE SATASS/SATSIM LOOPS AND THIS IS LESS  
 THAN OR EQUAL 15 THE OUTPUT FLOWS  
 ARE SET EXACTLY EQUAL TO THE ASSIGNED FLOWS. I.E. NO  
 AVERAGING TAKES PLACE.

91.5 % OF THE ASSIGNED FLOWS ARE WITHIN  
 5% OF THEIR PREVIOUS VALUES - THE CRITICAL VALUE,  
 ISTOP, IS 90 %

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

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COMPARISON OF OUTPUT FROM ASSIGNMENT 9  
 (SET 2) WITH THE PREVIOUS ONE (SET 1)

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TOTAL NUMBER OF ELEMENTS CONSIDERED 2014

STATISTIC	SET 1	SET 2	DIFFERENCE
NUMBER OF NEGATIVES	0	0	
NUMBER OF ZEROS	214	214	
SUM OF ELEMENTS	831214	831444	-229.
AVERAGE ELEMENT	412.72	412.83	-0.11
STANDARD DEVIATION	552.88	552.32	0.56
COEFFICIENT OF VARIATION	1.3396	1.3379	0.0017

REGRESSION OF SET 2 ELEMENTS (Y) AGAINST SET 1 (X)

EQUATION A B R-SQUARED

Y = A + BX 0.576 0.999 0.9998

STANDARD ERRORS - 0.274 0.000

Y = BX 0.999 0.9998

Y = X 0.9998

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

DISTRIBUTION OF RATIOS OF (ABSOLUTE) SET 2 ELEMENTS  
 RELATIVE TO (ABSOLUTE) SET 1 ELEMENTS

RANGE	NUMBER	PER CENT	CUMULATIVE
0.75 - 0.80	116	5.76	5.76
0.80 - 0.85	12	0.60	6.36
0.85 - 0.90	24	1.19	7.55
0.90 - 0.95	30	1.49	9.04
0.95 - 1.00	689	34.21	43.25

IDENTICAL 440 21.85 65.09

1.00 - 1.05	623	30.93	96.03
1.05 - 1.10	44	2.18	98.21
1.10 - 1.15	21	1.04	99.26
1.15 - 1.20	4	0.20	99.45
1.20 - 1.25	2	0.10	99.55
1.25 - 1.30	0	0.00	99.55
1.30 - 1.35	0	0.00	99.55
1.35 - 1.40	0	0.00	99.55
1.40 - 1.45	1	0.05	99.60
1.45 - 1.50	0	0.00	99.60
1.50 - 1.55	0	0.00	99.60
1.55 - 1.60	6	0.30	99.90
1.60 - 1.65	0	0.00	99.90
1.65 - 1.70	1	0.05	99.95

ABOVE 2.0 1 0.05 100.00

MEAN OF (V2 - V1)/V1 = -0.011  
 MEAN ABSOLUTE VALUE OF (V2 - V1)/V1 = 0.029  
 STANDARD DEVIATION OF (V2 - V1)/V1 = 0.079

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

DISTRIBUTION OF THE GEH ERROR STATISTIC  $\text{SQRT}((V2 - V1)^2/0.5(V1+V2))$   
(SEE SECTION 15-6 OF THE SATURN MANUAL.)

RANGE	NUMBER	PER CENT	CUMULATIVE
ZERO	440	21.85	21.85
0 - 2	1558	77.36	99.21
2 - 4	16	0.79	100.00

THE SUM OF THE ERROR STATISTICS = 0.378E+03  
AN AVERAGE OF 0.19 PER LINK

SUM OF  $\text{GEH}^2$  (APPROX = CHI SQUARE) = 0.324E+03  
ROOT MEAN SQUARED GEH ERROR STATISTIC = 0.40

1-. SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

DISTRIBUTION OF DIFFERENCES (V2 - V1)

RANGE	NUMBER	PER CENT	CUMULATIVE
-70 - -60	1	0.05	0.05
-60 - -50	9	0.45	0.50
-50 - -40	0	0.00	0.50
-40 - -30	1	0.05	0.55
-30 - -20	13	0.65	1.19
-20 - -10	59	2.93	4.12
-10 - 0	787	39.08	43.20
ZERO	441	21.90	65.09
0 - 10	597	29.64	94.74
10 - 20	63	3.13	97.86
20 - 30	26	1.29	99.16
30 - 40	4	0.20	99.35
40 - 50	9	0.45	99.80
50 - 60	4	0.20	100.00

AVERAGE ABSOLUTE DIFFERENCE = 3.37  
 RELATIVE TO THE AVERAGE SET 1 ELEMENT = 0.82 PER CENT

RANGE OF DIFFERENCES: -68.09 TO 54.76  
 TOTAL RANGE = 122.85

STANDARD DEVIATION OF DIFFERENCES = 7.90  
 RELATIVE TO THE AVERAGE SET 1 ELEMENT = 1.91 PER CENT

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

**LISTING OF THE FLOWS ON CHANNEL 2 BY ASSIGNMENT LINK**

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SEE SECTION 11.10.4 OF THE SATURN MANUAL FOR DETAILS

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLOWS TOTAL	(PCU/HR) FIXED
C1001 ( 16)	17 0.00	0.00	0.00	7.45	0.00
C1001 ( 17)	16 0.00	0.00	0.00	87.67	0.00
16 ( 17)C1001	0.00	0.00	0.00	64.90	0.00
17 ( 16)C1001	0.00	0.00	0.00	3.33	0.00
C1002 ( 35) 43	0.00	0.00	0.00	10.58	0.00
C1002 ( 43) 35	0.00	0.00	0.00	399.02	0.00
35 ( 43)C1002	0.00	0.00	0.00	134.59	0.00
43 ( 35)C1002	0.00	0.00	0.00	187.50	0.00
C1003 ( 43) 52	0.00	0.00	0.00	341.61	0.00
C1003 ( 52) 43	0.00	0.00	0.00	284.78	0.00
43 ( 52)C1003	0.00	0.00	0.00	145.81	0.00
52 ( 43)C1003	0.00	0.00	0.00	9.86	0.00
C1004 ( 36) 45	0.00	0.00	0.00	17.05	0.00
C1004 ( 45) 36	0.00	0.00	0.00	32.74	0.00
36 ( 45)C1004	0.00	0.00	0.00	103.80	0.00
45 ( 36)C1004	0.00	0.00	0.00	71.63	0.00
C1005 ( 53) 44	0.00	0.00	0.00	128.51	0.00
C1005 ( 44) 53	0.00	0.00	0.00	12.12	0.00
44 ( 53)C1005	0.00	0.00	0.00	52.95	0.00
53 ( 44)C1005	0.00	0.00	0.00	10.55	0.00
C1006 ( 46) 62	0.00	0.00	0.00	123.28	0.00
C1006 ( 62) 46	0.00	0.00	0.00	270.23	0.00
46 ( 62)C1006	0.00	0.00	0.00	63.42	0.00
62 ( 46)C1006	0.00	0.00	0.00	215.56	0.00
C1007 ( 805) 66	0.00	0.00	0.00	53.85	0.00

C1007 ( 66) 805	0.00	0.00	0.00	16.56	0.00
66 ( 805)C1007	0.00	0.00	0.00	109.31	0.00
805 ( 66)C1007	0.00	0.00	0.00	77.99	0.00
C1008 ( 3) 10	0.00	0.00	0.00	92.36	0.00
C1008 ( 3) 2	0.00	0.00	0.00	18.02	0.00
C1008 ( 2) 8	0.00	0.00	0.00	12.68	0.00
2 ( 8)C1008	0.00	0.00	0.00	36.94	0.00
3 ( 10)C1008	0.00	0.00	0.00	0.54	0.00
3 ( 2)C1008	0.00	0.00	0.00	173.90	0.00
C1009 ( 31) 32	0.00	0.00	0.00	148.92	0.00
C1009 ( 32) 9	0.00	0.00	0.00	205.74	0.00
31 ( 32)C1009	0.00	0.00	0.00	22.44	0.00
32 ( 9)C1009	0.00	0.00	0.00	226.04	0.00
C1010 ( 18) 302	0.00	0.00	0.00	441.31	0.00
18 ( 302)C1010	0.00	0.00	0.00	370.43	0.00
C1011 (37) 62	0.00	0.00	0.00	136.10	0.00
C1011 (63) 38	0.00	0.00	0.00	75.14	0.00
37 (62) C1011	0.00	0.00	0.00	18.09	0.00
63 (38) C1011	0.00	0.00	0.00	23.92	0.00
C1012 (62) 46	0.00	0.00	0.00	104.02	0.00
C1012 (47) 63	0.00	0.00	0.00	137.03	0.00
47 (63) C1012	0.00	0.00	0.00	443.53	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL		(SECONDS) TOTAL	FLOWS TOTAL	(PCU/HR) FIXED
	FIXED	VARIABLE			
62 ( 46)C1012	0.00	0.00	0.00	15.23	0.00
C1013 ( 46) 66	0.00	0.00	0.00	0.00	0.00
C1013 ( 67) 47	0.00	0.00	0.00	102.49	0.00
46 ( 66)C1013	0.00	0.00	0.00	35.36	0.00
67 ( 47)C1013	0.00	0.00	0.00	0.00	0.00
C1014 ( 4) 3	0.00	0.00	0.00	98.10	0.00
C1014 ( 3) 10	0.00	0.00	0.00	13.50	0.00
3 ( 10)C1014	0.00	0.00	0.00	36.10	0.00
4 ( 3)C1014	0.00	0.00	0.00	411.44	0.00
C1015 ( 24) 23	0.00	0.00	0.00	73.89	0.00
C1015 ( 23) 24	0.00	0.00	0.00	156.16	0.00
23 ( 24)C1015	0.00	0.00	0.00	24.24	0.00
24 ( 23)C1015	0.00	0.00	0.00	644.85	0.00
C1016 ( 19) 11	0.00	0.00	0.00	58.14	0.00
C1016 ( 12) 20	0.00	0.00	0.00	10.30	0.00
12 ( 20)C1016	0.00	0.00	0.00	35.34	0.00
19 ( 11)C1016	0.00	0.00	0.00	37.36	0.00
C1017 ( 39) 64	0.00	0.00	0.00	86.96	0.00
39 ( 64)C1017	0.00	0.00	0.00	48.14	0.00
C1018 ( 64) 48	0.00	0.00	0.00	420.44	0.00
64 ( 48)C1018	0.00	0.00	0.00	272.62	0.00
C1019 ( 68) 59	0.00	0.00	0.00	30.61	0.00

68 ( 59)C1019	0.00	0.00	0.00	157.00	0.00
C1020 ( 13) 21	0.00	0.00	0.00	24.89	0.00
C1020 ( 21) 13	0.00	0.00	0.00	234.03	0.00
13 ( 21)C1020	0.00	0.00	0.00	113.48	0.00
21 ( 13)C1020	0.00	0.00	0.00	195.98	0.00
C1021 ( 64) 65	0.00	0.00	0.00	63.29	0.00
C1021 ( 65) 64	0.00	0.00	0.00	126.88	0.00
64 ( 65)C1021	0.00	0.00	0.00	16.22	0.00
65 ( 64)C1021	0.00	0.00	0.00	5.93	0.00
C1022 ( 59) 49	0.00	0.00	0.00	0.00	0.00
C1022 ( 49) 59	0.00	0.00	0.00	0.00	0.00
49 ( 59)C1022	0.00	0.00	0.00	28.34	0.00
59 ( 49)C1022	0.00	0.00	0.00	29.96	0.00
C1023 ( 27) 22	0.00	0.00	0.00	440.34	0.00
C1023 ( 15) 28	0.00	0.00	0.00	198.92	0.00
15 ( 28)C1023	0.00	0.00	0.00	55.28	0.00
27 ( 22)C1023	0.00	0.00	0.00	0.00	0.00
C1024 ( 27) 28	0.00	0.00	0.00	23.82	0.00
C1024 ( 28) 27	0.00	0.00	0.00	43.87	0.00
27 ( 28)C1024	0.00	0.00	0.00	10.89	0.00
28 ( 27)C1024	0.00	0.00	0.00	49.38	0.00
C1025 ( 41) 42	0.00	0.00	0.00	81.83	0.00
C1025 ( 42) 41	0.00	0.00	0.00	266.89	0.00
41 ( 42)C1025	0.00	0.00	0.00	93.13	0.00
42 ( 41)C1025	0.00	0.00	0.00	144.90	0.00
C1026 ( 60) 58	0.00	0.00	0.00	3.68	0.00
C1026 ( 808) 60	0.00	0.00	0.00	14.48	0.00
60 ( 58)C1026	0.00	0.00	0.00	31.70	0.00
808 ( 60)C1026	0.00	0.00	0.00	77.02	0.00
C1027 ( 619) 152	0.00	0.00	0.00	514.02	0.00

## SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
C1027 ( 1) 506	0.00	0.00	0.00	176.77	0.00
1 ( 506)C1027	0.00	0.00	0.00	397.57	0.00
619 ( 152)C1027	0.00	0.00	0.00	148.62	0.00
C1028 ( 83) 153	0.00	0.00	0.00	290.25	0.00
C1028 ( 155) 156	0.00	0.00	0.00	434.46	0.00
C1028 ( 152) 99	0.00	0.00	0.00	663.61	0.00
83 ( 153)C1028	0.00	0.00	0.00	745.58	0.00
1 52 ( 99)C1028	0.00	0.00	0.00	0.13	0.00
155 ( 156)C1028	0.00	0.00	0.00	782.27	0.00
C1029 ( 97) 87	0.00	0.00	0.00	142.54	0.00
C1029 ( 87) 97	0.00	0.00	0.00	315.85	0.00
87 ( 97)C1029	0.00	0.00	0.00	247.12	0.00
97 ( 87)C1029	0.00	0.00	0.00	16.17	0.00
C1030 ( 163) 158	0.00	0.00	0.00	244.36	0.00
C1030 ( 159) 162	0.00	0.00	0.00	104.04	0.00
159 ( 162)C1030	0.00	0.00	0.00	85.29	0.00
163 ( 158)C1030	0.00	0.00	0.00	35.22	0.00
C1031 ( 157) 609	0.00	0.00	0.00	420.73	0.00
C1031 ( 610) 95	0.00	0.00	0.00	1058.26	0.00
157 ( 609)C1031	0.00	0.00	0.00	1202.71	0.00
610 ( 95)C1031	0.00	0.00	0.00	199.98	0.00
C1032 ( 90) 161	0.00	0.00	0.00	80.63	0.00
C1032 ( 209) 89	0.00	0.00	0.00	127.17	0.00
C1032 ( 89) 209	0.00	0.00	0.00	34.47	0.00
89 ( 209)C1032	0.00	0.00	0.00	46.68	0.00
90 ( 161)C1032	0.00	0.00	0.00	252.82	0.00
209 ( 89)C1032	0.00	0.00	0.00	44.37	0.00
C1033 ( 608) 164	0.00	0.00	0.00	374.03	0.00
C1033 ( 96) 163	0.00	0.00	0.00	2.77	0.00
C1033 ( 162) 163	0.00	0.00	0.00	86.78	0.00
C1033 ( 163) 162	0.00	0.00	0.00	9.52	0.00
C1033 ( 98) 96	0.00	0.00	0.00	63.75	0.00
C1033 ( 96) 98	0.00	0.00	0.00	7.61	0.00
96 ( 163)C1033	0.00	0.00	0.00	10.47	0.00
96 ( 98)C1033	0.00	0.00	0.00	20.06	0.00
98 ( 96)C1033	0.00	0.00	0.00	0.07	0.00
162 ( 163)C1033	0.00	0.00	0.00	78.93	0.00
163 ( 162)C1033	0.00	0.00	0.00	0.00	0.00
608 ( 164)C1033	0.00	0.00	0.00	338.17	0.00
C1034 ( 510) 201	0.00	0.00	0.00	0.00	0.00
C1034 ( 201) 510	0.00	0.00	0.00	153.17	0.00
C1034 ( 202) 104	0.00	0.00	0.00	369.75	0.00
C1034 ( 104) 202	0.00	0.00	0.00	0.00	0.00
104 ( 202)C1034	0.00	0.00	0.00	461.27	0.00
201 ( 510)C1034	0.00	0.00	0.00	0.00	0.00
202 ( 104)C1034	0.00	0.00	0.00	0.00	0.00

510 ( 201)C1034	0.00	0.00	0.00	196.97	0.00
C1035 ( 102) 41	0.00	0.00	0.00	18.03	0.00
C1035 ( 29) 102	0.00	0.00	0.00	156.02	0.00
29 ( 102)C1035	0.00	0.00	0.00	40.86	0.00
102 ( 41)C1035	0.00	0.00	0.00	63.29	0.00
C1036 ( 167) 61	0.00	0.00	0.00	139.42	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
C1036 ( 810) 165	0.00	0.00	0.00	37.00	0.00
167 ( 61)C1036	0.00	0.00	0.00	32.81	0.00
810 ( 165)C1036	0.00	0.00	0.00	538.94	0.00
C1037 ( 166) 167	0.00	0.00	0.00	2.65	0.00
C1037 ( 91) 165	0.00	0.00	0.00	4.88	0.00
91 ( 165)C1037	0.00	0.00	0.00	89.77	0.00
166 ( 167)C1037	0.00	0.00	0.00	57.95	0.00
C1038 ( 168) 92	0.00	0.00	0.00	98.54	0.00
C1038 ( 171) 167	0.00	0.00	0.00	198.94	0.00
168 ( 92)C1038	0.00	0.00	0.00	0.69	0.00
171 ( 167)C1038	0.00	0.00	0.00	2.14	0.00
C1039 ( 168) 92	0.00	0.00	0.00	202.31	0.00
C1039 ( 168) 166	0.00	0.00	0.00	63.04	0.00
168 ( 92)C1039	0.00	0.00	0.00	72.95	0.00
168 ( 166)C1039	0.00	0.00	0.00	489.84	0.00
C1040 ( 171) 172	0.00	0.00	0.00	140.95	0.00
C1040 ( 175) 173	0.00	0.00	0.00	605.95	0.00
171 ( 172)C1040	0.00	0.00	0.00	894.52	0.00
175 ( 173)C1040	0.00	0.00	0.00	364.09	0.00
C1041 ( 176) 55	0.00	0.00	0.00	44.77	0.00
C1041 ( 55) 176	0.00	0.00	0.00	57.82	0.00
55 ( 176)C1041	0.00	0.00	0.00	20.80	0.00
176 ( 55)C1041	0.00	0.00	0.00	12.05	0.00
C1042 ( 94) 55	0.00	0.00	0.00	0.00	0.00
C1042 ( 52) 53	0.00	0.00	0.00	756.99	0.00
52 ( 53)C1042	0.00	0.00	0.00	59.91	0.00
94 ( 55)C1042	0.00	0.00	0.00	12.66	0.00
C1043 ( 808) 60	0.00	0.00	0.00	77.38	0.00
C1043 ( 171) 167	0.00	0.00	0.00	32.33	0.00
171 ( 167)C1043	0.00	0.00	0.00	14.84	0.00
808 ( 60)C1043	0.00	0.00	0.00	199.89	0.00
C1044 131 ( 93)	0.00	0.00	0.00	398.69	0.00
( 93) 131 C1044	0.00	0.00	0.00	222.15	0.00
C1045 ( 93) 179	0.00	0.00	0.00	56.22	0.00
C1045 ( 178) 177	0.00	0.00	0.00	3.10	0.00
93 ( 179)C1045	0.00	0.00	0.00	19.42	0.00
178 ( 177)C1045	0.00	0.00	0.00	14.96	0.00
C1046 ( 179) 94	0.00	0.00	0.00	9.38	0.00



C1046 ( 179) 178	0.00	0.00	0.00	0.00	0.00
179 ( 94)C1046	0.00	0.00	0.00	338.62	0.00
179 ( 178)C1046	0.00	0.00	0.00	2.90	0.00
C1047 ( 78) 77	0.00	0.00	0.00	318.32	0.00
C1047 ( 77) 78	0.00	0.00	0.00	0.00	0.00
C1047 ( 151) 150	0.00	0.00	0.00	2.32	0.00
C1047 ( 150) 151	0.00	0.00	0.00	162.73	0.00
77 ( 78)C1047	0.00	0.00	0.00	58.70	0.00
78 ( 77)C1047	0.00	0.00	0.00	0.19	0.00
150 ( 151)C1047	0.00	0.00	0.00	0.00	0.00
151 ( 150)C1047	0.00	0.00	0.00	196.06	0.00
C1048 ( 76) 7	0.00	0.00	0.00	16.60	0.00
C1048 ( 16) 75	0.00	0.00	0.00	116.90	0.00
16 ( 75)C1048	0.00	0.00	0.00	0.00	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
76 ( 7)C1048	0.00	0.00	0.00	0.00	0.00
C1049 ( 30) 74	0.00	0.00	0.00	28.22	0.00
30 ( 74)C1049	0.00	0.00	0.00	794.27	0.00
C1050 ( 816) 73	0.00	0.00	0.00	49.39	0.00
C1050 ( 72) 215	0.00	0.00	0.00	19.80	0.00
72 ( 215)C1050	0.00	0.00	0.00	0.00	0.00
816 ( 73)C1050	0.00	0.00	0.00	39.26	0.00
C1051 ( 72) 215	0.00	0.00	0.00	220.33	0.00
C1051 ( 72) 52	0.00	0.00	0.00	135.81	0.00
72 ( 215)C1051	0.00	0.00	0.00	0.00	0.00
72 ( 52)C1051	0.00	0.00	0.00	5.84	0.00
C1103 103 ( 205)	0.00	0.00	0.00	442.88	0.00
( 205) 103 C1103	0.00	0.00	0.00	119.88	0.00
C1105 140 ( 77)	0.00	0.00	0.00	161.78	0.00
( 204) 105 C1105	0.00	0.00	0.00	0.07	0.00
( 77) 140 C1105	0.00	0.00	0.00	27.03	0.00
C1106 139 ( 202)	0.00	0.00	0.00	11.59	0.00
( 202) 106 C1106	0.00	0.00	0.00	228.33	0.00
( 202) 139 C1106	0.00	0.00	0.00	0.00	0.00
C1107 107 ( 200)	0.00	0.00	0.00	76.96	0.00
( 200) 107 C1107	0.00	0.00	0.00	0.00	0.00
C1108 108 ( 203)	0.00	0.00	0.00	550.28	0.00
( 203) 108 C1108	0.00	0.00	0.00	547.85	0.00
C1113 113 ( 180)	0.00	0.00	0.00	72.49	0.00
( 180) 113 C1113	0.00	0.00	0.00	121.33	0.00
C1115 115 ( 181)	0.00	0.00	0.00	11.05	0.00
( 181) 115 C1115	0.00	0.00	0.00	0.00	0.00
C1117 124 ( 96)	0.00	0.00	0.00	4.18	0.00
( 212) 117 C1117	0.00	0.00	0.00	740.68	0.00
( 96) 124 C1117	0.00	0.00	0.00	0.00	0.00

C1119	120 ( 84)	0.00	0.00	0.00	119.87	0.00
( 82)	119 C1119	0.00	0.00	0.00	1748.16	0.00
( 84)	120 C1119	0.00	0.00	0.00	0.00	0.00
C1120	120 ( 84)	0.00	0.00	0.00	1514.45	0.00
( 84)	120 C1120	0.00	0.00	0.00	0.00	0.00
C1121	121 ( 86)	0.00	0.00	0.00	1297.99	0.00
( 86)	121 C1121	0.00	0.00	0.00	2684.95	0.00
C1122	122 ( 88)	0.00	0.00	0.00	172.96	0.00
( 88)	122 C1122	0.00	0.00	0.00	372.73	0.00
C1123	123 ( 607)	0.00	0.00	0.00	2052.37	0.00
C1123	123 ( 608)	0.00	0.00	0.00	1138.72	0.00
( 88)	123 C1123	0.00	0.00	0.00	551.49	0.00
( 607)	123 C1123	0.00	0.00	0.00	2063.88	0.00
C1124	124 ( 96)	0.00	0.00	0.00	228.96	0.00
( 96)	124 C1124	0.00	0.00	0.00	0.00	0.00
C1125	124 ( 96)	0.00	0.00	0.00	6.46	0.00
( 96)	124 C1125	0.00	0.00	0.00	0.00	0.00
( 98)	125 C1125	0.00	0.00	0.00	26.97	0.00
C1126	126 ( 206)	0.00	0.00	0.00	63.59	0.00
( 206)	126 C1126	0.00	0.00	0.00	126.33	0.00
C1127	127 (90)	0.00	0.00	0.00	1162.55	0.00
C1127	127 (91)	0.00	0.00	0.00	433.58	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL TIMES		(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
( 91)	127	C1127	0.00	0.00	0.00	458.57	0.00
( 100)	127	C1127	0.00	0.00	0.00	486.92	0.00
C1128	128 ( 89)		0.00	0.00	0.00	27.77	0.00
( 89)	128	C1128	0.00	0.00	0.00	40.92	0.00
C1129	129 ( 210)		0.00	0.00	0.00	239.47	0.00
( 210)	129	C1129	0.00	0.00	0.00	42.18	0.00
C1130	130 ( 211)		0.00	0.00	0.00	408.31	0.00
( 211)	130	C1130	0.00	0.00	0.00	186.67	0.00
C1135	135 ( 72)		0.00	0.00	0.00	1225.37	0.00
C1135	( 814) 94		0.00	0.00	0.00	36.67	0.00
C1135	( 94) 814		0.00	0.00	0.00	417.42	0.00
C1135	( 94) 179		0.00	0.00	0.00	459.19	0.00
C1135	( 179) 94		0.00	0.00	0.00	8.58	0.00
94 ( 814)	C1135		0.00	0.00	0.00	0.00	0.00
94 ( 179)	C1135		0.00	0.00	0.00	0.00	0.00
( 72)	135	C1135	0.00	0.00	0.00	634.03	0.00
179 ( 94)	C1135		0.00	0.00	0.00	547.75	0.00
814 ( 94)	C1135		0.00	0.00	0.00	54.23	0.00
C1136	136 ( 215)		0.00	0.00	0.00	650.00	0.00
( 215)	136	C1136	0.00	0.00	0.00	1253.40	0.00
C1137	137 ( 74)		0.00	0.00	0.00	507.50	0.00
( 74)	137	C1137	0.00	0.00	0.00	735.18	0.00

C1139 139 ( 202)	0.00	0.00	0.00	541.38	0.00
( 202) 139 C1139	0.00	0.00	0.00	0.00	0.00
C1140 140 ( 77)	0.00	0.00	0.00	949.90	0.00
( 77) 140 C1140	0.00	0.00	0.00	1349.92	0.00
C1141 141 ( 78)	0.00	0.00	0.00	620.18	0.00
( 78) 141 C1141	0.00	0.00	0.00	332.07	0.00
C1142 142 ( 104)	0.00	0.00	0.00	147.78	0.00
C1142 142 ( 600)	0.00	0.00	0.00	2406.93	0.00
C1142 ( 94) 814	0.00	0.00	0.00	41.56	0.00
C1142 ( 94) 55	0.00	0.00	0.00	79.80	0.00
C1142 ( 94) 179	0.00	0.00	0.00	33.63	0.00
94 ( 814)C1142	0.00	0.00	0.00	36.60	0.00
94 ( 55)C1142	0.00	0.00	0.00	58.61	0.00
94 ( 179)C1142	0.00	0.00	0.00	8.53	0.00
( 79) 142 C1142	0.00	0.00	0.00	339.19	0.00
( 600) 142 C1142	0.00	0.00	0.00	1434.31	0.00
C1143 143 ( 511)	0.00	0.00	0.00	480.11	0.00
C1143 ( 94) 814	0.00	0.00	0.00	496.51	0.00
C1143 ( 94) 55	0.00	0.00	0.00	592.28	0.00
C1143 ( 94) 179	0.00	0.00	0.00	264.92	0.00
94 ( 814)C1143	0.00	0.00	0.00	408.58	0.00
94 ( 55)C1143	0.00	0.00	0.00	253.08	0.00
94 ( 179)C1143	0.00	0.00	0.00	95.96	0.00
( 80) 143 C1143	0.00	0.00	0.00	1642.94	0.00
C1144 144 ( 80)	0.00	0.00	0.00	859.87	0.00
( 80) 144 C1144	0.00	0.00	0.00	1826.11	0.00
C1145 ( 169) 93	0.00	0.00	0.00	446.23	0.00
C1145 ( 93) 169	0.00	0.00	0.00	0.00	0.00
C1145 ( 169) 813	0.00	0.00	0.00	94.88	0.00
C1145 ( 813) 169	0.00	0.00	0.00	0.00	0.00

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL		TIMES (SECONDS)		FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED	
C1145	145	( 211)	0.00	0.00	0.00	109.48	0.00	
93	( 169)	C1145	0.00	0.00	0.00	517.76	0.00	
( 211)	145	C1145	0.00	0.00	0.00	102.05	0.00	
169	( 93)	C1145	0.00	0.00	0.00	0.00	0.00	
169	( 813)	C1145	0.00	0.00	0.00	0.00	0.00	
813	( 169)	C1145	0.00	0.00	0.00	35.01	0.00	
3	1	151	4.76	0.00	4.76	0.00	0.00	
3	1	506	3.76	0.00	3.76	0.24	0.00	
3	1	512	3.01	0.00	3.01	0.00	0.00	
3	1		74.74	0.00	74.74	0.24	0.00	
2	1	151	0.00	0.00	0.00	59.20	13.32	
2	1	506	0.00	0.00	0.00	1447.98	40.40	
2	1	512	0.00	0.00	0.00	9.16	0.00	
2	1		35.76	0.00	35.76	1516.35	53.72	
3	2	8	32.40	0.00	32.40	0.00	0.00	
3	2	1	32.41	0.40	32.81	18.02	0.00	
3	2		31.60	0.00	31.60	0.00	0.00	
9	2	8	1.42	0.10	1.52	36.94	0.00	
9	2	1	1.36	0.89	2.26	1522.63	78.02	
9	2		28.67	0.00	28.67	1559.57	78.02	
505	3	4	4.90	0.00	4.90	0.00	0.00	
505	3	10	2.76	1.73	4.49	1254.49	78.02	
505	3	2	3.01	1.18	4.20	173.37	0.00	
505	3	1	4.10	0.02	4.11	0.24	0.00	
505	3		17.33	0.00	17.33	1428.10	78.02	
4	3	10	28.05	0.04	28.08	0.51	0.00	
4	3	2	28.05	0.04	28.08	0.53	0.00	
4	3	1	28.06	0.00	28.06	0.00	0.00	
4	3	505	28.06	2.07	30.12	98.10	0.00	
4	3		40.70	0.00	40.70	1.03	0.00	
3	4		40.70	0.00	40.70	0.00	0.00	
3	4	504	44.11	0.00	44.11	0.00	0.00	
3	4	5	44.11	0.00	44.11	0.00	0.00	
5	4	3	44.11	0.03	44.14	1.24	0.00	
5	4	504	44.13	0.40	44.52	13.28	0.00	
5	4		27.50	0.00	27.50	14.52	0.00	
11	4	3	3.60	4.71	8.31	411.24	0.00	
11	4	504	3.60	4.35	7.94	1761.55	13.32	
11	4	5	7.20	0.00	7.20	0.00	0.00	
11	4		23.02	0.00	23.02	2172.79	13.32	
4	5		27.50	0.00	27.50	0.00	0.00	
4	5	6	3.80	0.00	3.80	0.00	0.00	
4	5	12	3.99	0.00	3.99	0.00	0.00	
503	5	6	0.00	0.00	0.00	8.49	0.00	
503	5	12	0.00	0.00	0.00	1017.64	13.32	
503	5	4	0.00	0.00	0.00	0.00	0.00	

503	5		2.88	0.00	2.88	1026.12	13.32
6	5	12	3.99	0.00	3.99	0.00	0.00
6	5	4	3.80	0.00	3.80	14.52	0.00
6	5		24.35	0.00	24.35	14.52	0.00
5	6		23.00	0.00	23.00	8.49	0.00
5	6	70	0.00	0.00	0.00	0.12	0.00

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER	ANODE	BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
5	6	13		3.00	0.00	3.00	8.37	0.00
70	6	13		0.00	0.00	0.00	0.00	0.00
70	6	5		0.00	0.00	0.00	0.00	0.00
70	6			50.19	0.00	50.19	0.00	0.00
13	6	5		3.00	0.00	3.00	14.52	0.00
13	6	70		3.01	0.00	3.01	0.00	0.00
13	6			9.00	0.00	9.00	14.52	0.00
76	7	8		0.00	0.00	0.00	1891.19	0.00
76	7			54.98	0.00	54.98	1874.59	0.00
16	7	8		0.00	0.00	0.00	174.71	0.00
16	7			15.71	0.00	15.71	174.71	0.00
	7	8		7.20	0.00	7.20	2065.90	0.00
7	8	9		0.00	0.00	0.00	2045.07	0.00
7	8	17		0.00	0.00	0.00	20.82	0.00
2	8			47.44	0.00	47.44	0.00	0.00
2	8	9		0.00	0.00	0.00	0.00	0.00
2	8	17		0.00	0.00	0.00	12.68	0.00
8	9			10.47	0.00	10.47	2045.07	0.00
8	9	2		4.56	3.64	8.19	1102.48	0.00
8	9	10		4.56	2.56	7.11	942.59	0.00
32	9	2		24.84	2.75	27.60	457.09	78.02
32	9	10		24.84	2.87	27.71	93.97	0.00
32	9			28.14	0.00	28.14	345.33	78.02
9	10			21.99	0.00	21.99	1036.57	0.00
9	10	11		21.47	8.82	30.29	974.75	0.00
9	10	18		21.47	9.04	30.50	61.82	0.00
3	10			39.76	0.00	39.76	1218.35	78.02
3	10	11		12.65	7.73	20.37	13.42	0.00
3	10	18		13.17	7.52	20.69	1310.79	78.02
10	11			19.77	0.00	19.77	988.16	0.00
10	11	4		19.83	20.32	40.15	546.78	0.00
10	11	12		19.83	1.00	20.83	441.39	0.00
19	11	4		11.74	9.79	21.53	1626.01	13.32
19	11	12		10.94	9.02	19.96	24.30	24.30
19	11			15.28	0.00	15.28	1592.17	37.62
11	12			15.48	0.00	15.48	465.69	24.30
11	12	13		16.58	5.71	22.29	436.68	0.00
11	12	20		16.56	5.13	21.70	29.00	24.30

5	12		16.62	0.00	16.62	1017.64	13.32
5	12	13	6.37	2.05	8.42	207.35	0.00
5	12	20	6.37	2.52	8.90	810.29	13.32
12	13		12.60	0.00	12.60	644.03	0.00
12	13	6	0.00	0.00	0.00	0.00	0.00
12	13	15	0.00	0.00	0.00	533.54	0.00
12	13	21	0.00	0.00	0.00	110.49	0.00
6	13		9.00	0.00	9.00	8.37	0.00
6	13	15	3.54	0.00	3.54	5.38	0.00
6	13	21	3.53	0.00	3.53	2.99	0.00
21	13	6	3.57	0.00	3.57	14.52	0.00
21	13	15	3.57	0.11	3.68	219.71	0.00
21	13		17.53	0.00	17.53	0.20	0.00
502	14	29	0.00	0.00	0.00	1367.36	136.08

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLows	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
502	14	70	0.00	0.00	0.00	412.48	0.00
502	14		5.33	0.00	5.33	1779.83	136.08
29	14	70	0.00	0.00	0.00	0.08	0.00
29	14	502	0.00	0.00	0.00	1185.28	111.78
29	14		15.15	0.00	15.15	1185.36	111.78
13	15		30.24	0.00	30.24	758.63	0.00
13	15	70	3.48	0.42	3.90	603.37	0.00
13	15	28	3.46	0.01	3.46	155.26	0.00
13	15	22	3.85	0.00	3.85	0.00	0.00
70	15	28	0.00	0.00	0.00	13.43	0.00
70	15	22	0.00	0.00	0.00	399.05	0.00
70	15		7.36	0.00	7.36	412.47	0.00
22	15	70	0.00	0.00	0.00	530.53	0.00
22	15	28	0.00	0.00	0.00	0.00	0.00
22	15		13.36	0.00	13.36	530.53	0.00
75	16	7	3.03	0.00	3.03	87.03	0.00
75	16	17	3.02	0.00	3.02	226.73	0.00
75	16		77.40	0.00	77.40	313.76	0.00
17	16	75	3.00	0.00	3.00	0.00	0.00
17	16	7	3.12	0.00	3.12	87.67	0.00
17	16		9.20	0.00	9.20	0.00	0.00
30	16	75	0.00	0.00	0.00	0.00	0.00
30	16	7	0.00	0.00	0.00	0.00	0.00
30	16	17	0.00	0.00	0.00	5.90	0.00
30	16		13.68	0.00	13.68	5.90	0.00
16	17		9.20	0.00	9.20	167.73	0.00
16	17	31	3.01	0.00	3.01	175.18	0.00
8	17		20.88	0.00	20.88	33.50	0.00
8	17	31	0.00	0.00	0.00	30.17	0.00
8	17	16	0.00	0.00	0.00	3.33	0.00

10	18		16.31	0.00	16.31	1372.61	78.02
10	18	23	2.95	1.02	3.97	37.92	13.32
10	18	302	3.31	1.99	5.29	1334.69	64.70
19	18	23	20.42	0.00	20.42	0.00	0.00
19	18	302	18.06	1.51	19.56	220.77	24.30
19	18		20.85	0.00	20.85	220.77	24.30
20	19	18	28.06	1.33	29.39	171.59	24.30
20	19	11	28.06	4.18	32.23	197.50	0.00
20	19		14.40	0.00	14.40	369.09	24.30
24	19	18	2.76	0.89	3.66	49.18	0.00
24	19	11	2.76	1.93	4.69	1432.03	37.62
24	19		15.72	0.00	15.72	1481.21	37.62
12	20		13.68	0.00	13.68	803.95	37.62
12	20	25	0.00	0.00	0.00	789.76	13.32
12	20	19	0.00	0.00	0.00	24.49	24.30
21	20	25	3.71	0.00	3.72	126.36	0.00
21	20	19	3.33	0.01	3.34	344.60	0.00
21	20		13.82	0.00	13.82	470.96	0.00
13	21		17.53	0.00	17.53	0.00	0.00
13	21	26	3.37	0.00	3.37	0.00	0.00
13	21	20	3.46	0.00	3.46	24.89	0.00
22	21	26	0.00	0.00	0.00	0.04	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLows	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
22	21	20	0.00	0.00	0.00	446.07	0.00
22	21	13	0.00	0.00	0.00	196.18	0.00
22	21		19.80	0.00	19.80	642.29	0.00
26	21	20	3.32	0.00	3.32	0.00	0.00
26	21	13	3.37	0.00	3.37	0.00	0.00
26	21		21.03	0.00	21.03	0.00	0.00
15	22		15.03	0.00	15.03	399.05	0.00
15	22	21	0.00	0.00	0.00	399.05	0.00
27	22	21	0.00	0.00	0.00	243.24	0.00
27	22	15	0.00	0.00	0.00	530.53	0.00
27	22		6.24	0.00	6.24	333.43	0.00
18	23		25.30	0.00	25.30	37.92	13.32
18	23	24	0.00	0.00	0.00	37.92	13.32
18	23	33	0.00	0.00	0.00	0.00	0.00
24	23	33	3.00	0.00	3.00	0.00	0.00
24	23	302	3.00	0.00	3.00	154.24	13.32
24	23		22.63	0.00	22.63	80.35	13.32
33	23	302	0.00	0.00	0.00	0.00	0.00
33	23	24	0.00	0.00	0.00	0.00	0.00
33	23		24.17	0.00	24.17	0.00	0.00
23	24		21.41	0.00	21.41	13.68	13.32
23	24	19	4.62	0.16	4.78	138.81	0.00

23	24	25	4.78	0.00	4.78	31.04	13.32
25	24	23	5.14	0.42	5.57	180.89	13.32
25	24	19	5.41	0.00	5.41	0.10	0.00
25	24		20.46	0.00	20.46	180.99	13.32
34	24	23	0.00	0.00	0.00	544.31	0.00
34	24	19	0.00	0.00	0.00	1342.30	37.62
34	24	25	0.00	0.00	0.00	251.96	0.00
34	24		20.48	0.00	20.48	2138.58	37.62
24	25		19.44	0.00	19.44	283.00	13.32
24	25	26	3.65	0.17	3.82	281.47	13.32
24	25	39	3.99	0.00	3.99	25.83	24.30
20	25		15.98	0.00	15.98	916.12	13.32
20	25	26	0.00	0.00	0.00	25.88	0.00
20	25	39	0.00	0.00	0.00	763.77	13.32
20	25	24	0.00	0.00	0.00	126.47	0.00
26	25	39	3.69	0.00	3.69	0.49	0.00
26	25	24	3.65	0.00	3.65	54.52	13.32
26	25		17.34	0.00	17.34	55.01	13.32
25	26		17.34	0.00	17.34	307.35	13.32
25	26	21	3.00	0.00	3.00	0.00	0.00
25	26	27	3.01	0.00	3.01	281.93	13.32
25	26	40	3.05	0.00	3.05	25.42	0.00
21	26		22.20	0.00	22.20	0.04	0.00
21	26	27	0.00	0.00	0.00	0.00	0.00
21	26	40	0.00	0.00	0.00	0.04	0.00
21	26	25	0.00	0.00	0.00	0.00	0.00
27	26	40	3.01	0.00	3.01	11.30	0.00
27	26	25	3.02	0.00	3.02	55.01	13.32
27	26	21	3.12	0.00	3.12	0.00	0.00
27	26		19.89	0.00	19.89	66.31	13.32



SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLAWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
40	26	25	0.00	0.00	0.00	0.00	0.00
40	26	21	0.00	0.00	0.00	0.00	0.00
40	26	27	0.00	0.00	0.00	19.79	0.00
40	26		42.92	0.00	42.92	19.79	0.00
26	27		19.89	0.00	19.89	301.72	13.32
26	27	22	0.00	0.00	0.00	266.47	0.00
26	27	28	0.00	0.00	0.00	35.24	13.32
28	27	26	0.00	0.00	0.00	66.31	13.32
28	27	22	0.00	0.00	0.00	66.96	0.00
28	27		20.43	0.00	20.43	89.41	13.32
27	28		20.43	0.00	20.43	24.36	13.32
27	28	29	0.00	0.00	0.00	48.18	13.32
15	28		14.40	0.00	14.40	113.40	0.00
15	28	29	3.04	0.01	3.04	263.62	0.00
15	28	27	3.11	0.00	3.11	48.71	0.00
29	28	27	0.00	0.00	0.00	90.08	13.32
29	28		6.66	0.00	6.66	90.08	13.32
28	29		6.66	0.00	6.66	311.80	13.32
28	29	14	20.83	5.66	26.49	239.12	0.00
28	29	102	20.83	5.65	26.47	33.17	0.00
28	29	41	20.83	5.61	26.44	39.51	13.32
14	29		15.81	0.00	15.81	1367.36	136.08
14	29	102	4.86	11.73	16.59	4.47	0.00
14	29	41	3.46	7.45	10.91	1362.51	136.08
14	29	28	14.43	5.63	20.05	0.38	0.00
102	29	41	20.83	0.00	20.83	0.00	0.00
102	29	28	20.86	0.32	21.19	31.43	0.00
102	29	14	33.03	0.00	33.03	0.00	0.00
102	29		70.20	0.00	70.20	31.43	0.00
41	29	28	2.97	1.32	4.29	58.27	13.32
41	29	14	2.97	1.33	4.30	946.24	111.78
41	29	102	31.56	0.00	31.56	3.23	0.00
41	29		29.41	0.00	29.41	1007.74	125.10
31	30	74	0.00	0.00	0.00	1153.19	0.00
31	30	16	0.00	0.00	0.00	5.90	0.00
31	30		8.64	0.00	8.64	1159.09	0.00
17	31		12.24	0.00	12.24	205.35	0.00
17	31	32	3.00	0.00	3.00	128.03	0.00
17	31	30	4.14	0.02	4.15	77.33	0.00
69	31	30	0.00	0.00	0.00	1081.76	0.00
69	31		10.87	0.00	10.87	1081.76	0.00
31	32		13.20	0.00	13.20	105.58	0.00
31	32	9	17.56	0.00	17.56	0.00	0.00
31	32	300	17.56	1.30	18.85	254.50	0.00
69	32	9	2.92	1.05	3.97	571.36	78.02
69	32	300	2.92	0.00	2.92	0.01	0.00

69	32		3.60	0.00	3.60	571.37	78.02
301	33	23	0.00	0.00	0.00	0.00	0.00
301	33	34	0.00	0.00	0.00	280.84	0.00
301	33		22.80	0.00	22.80	280.84	0.00
23	33		24.17	0.00	24.17	0.00	0.00
23	33	34	3.21	0.00	3.21	0.00	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLAWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
33	34		9.20	0.00	9.20	280.84	0.00
33	34	24	5.17	0.95	6.13	280.84	0.00
38	34	24	0.00	0.00	0.00	1882.04	61.92
38	34		7.83	0.00	7.83	1882.04	61.92
816	35	815	16.20	0.97	17.16	28.61	0.00
816	35	36	16.26	2.67	18.93	229.27	43.42
816	35	43	16.29	13.62	29.91	486.08	0.00
816	35		17.76	0.00	17.76	743.96	43.42
815	35	36	7.66	0.00	7.66	0.00	0.00
815	35	43	7.66	0.00	7.66	0.40	0.00
815	35	816	40.00	0.00	40.00	0.00	0.00
815	35		27.94	0.00	27.94	0.40	0.00
36	35	43	16.29	1.08	17.37	76.13	0.00
36	35	816	16.28	1.15	17.43	213.16	43.42
36	35	815	16.26	0.00	16.26	0.00	0.00
36	35		19.60	0.00	19.60	289.28	43.42
43	35	816	7.66	27.37	35.03	795.35	0.00
43	35	815	7.66	2.86	10.51	488.99	0.00
43	35	36	9.83	0.64	10.47	0.83	0.00
43	35		55.04	0.00	55.04	886.15	0.00
35	36		20.05	0.00	20.05	230.10	43.42
35	36	37	0.00	0.00	0.00	128.30	43.42
35	36	45	3.28	0.00	3.28	101.80	0.00
37	36	45	0.00	0.00	0.00	75.35	0.00
37	36	35	0.00	0.00	0.00	261.95	43.42
37	36		22.91	0.00	22.91	337.30	43.42
45	36	35	3.21	0.00	3.21	27.33	0.00
45	36	37	3.40	0.00	3.40	17.63	0.00
45	36		62.79	0.00	62.79	12.22	0.00
36	37		22.40	0.00	22.40	145.93	43.42
36	37	69	25.63	0.12	25.75	8.30	0.00
36	37	38	25.60	1.62	27.22	93.47	43.42
36	37	62	25.60	1.11	26.71	44.16	0.00
301	37	38	15.03	2.17	17.19	24.44	24.30
301	37	62	15.63	2.54	18.16	479.37	40.40
301	37	36	15.63	7.20	22.83	114.31	0.00
301	37		25.76	0.00	25.76	618.12	64.70
38	37	62	19.16	0.00	19.16	0.00	0.00

38	37	36	14.25	3.23	17.48	187.42	43.42
38	37	69	14.25	3.09	17.34	75.03	0.00
38	37		26.77	0.00	26.77	262.45	43.42
62	37	36	15.23	1.89	17.12	35.57	0.00
62	37	69	15.63	2.32	17.95	433.68	40.40
62	37		30.38	0.00	30.38	469.25	40.40
37	38		26.77	0.00	26.77	117.91	67.72
37	38	34	12.55	1.17	13.72	71.02	24.30
37	38	39	12.59	0.62	13.21	46.89	43.42
39	38	37	16.59	2.65	19.24	178.76	43.42
39	38	34	16.49	1.23	17.71	24.30	24.30
39	38		21.44	0.00	21.44	203.06	67.72
63	38	37	4.56	5.09	9.64	83.70	0.00
63	38	34	4.56	5.28	9.83	1786.72	13.32

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
63	38	39	4.56	5.03	9.58	46.20	0.00
63	38		36.51	0.00	36.51	1841.47	13.32
38	39		21.44	0.00	21.44	93.09	43.42
38	39	40	14.92	0.69	15.61	49.33	43.42
38	39	64	14.65	1.47	16.11	43.75	0.00
25	39		30.60	0.00	30.60	790.09	37.62
25	39	40	12.60	6.51	19.11	1.38	0.00
25	39	64	12.63	7.83	20.46	753.31	13.32
25	39	38	12.66	6.83	19.49	35.40	24.30
40	39	64	11.59	0.13	11.73	11.60	0.00
40	39	38	11.56	1.22	12.78	167.66	43.42
40	39		15.81	0.00	15.81	179.26	43.42
39	40		15.47	0.00	15.47	50.71	43.42
39	40	26	0.00	0.00	0.00	0.00	0.00
39	40	41	0.00	0.00	0.00	50.09	43.42
39	40	65	3.14	0.00	3.14	0.63	0.00
26	40		42.92	0.00	42.92	36.77	0.00
26	40	41	3.06	0.00	3.06	0.04	0.00
26	40	65	3.16	0.00	3.16	36.73	0.00
26	40	39	3.18	0.00	3.18	0.00	0.00
41	40	65	0.00	0.00	0.00	0.03	0.00
41	40	39	0.00	0.00	0.00	179.26	43.42
41	40	26	3.04	0.00	3.04	0.00	0.00
41	40		44.06	0.00	44.06	179.29	43.42
65	40	39	3.14	0.00	3.14	0.00	0.00
65	40	26	3.15	0.00	3.15	19.79	0.00
65	40	41	3.19	0.00	3.19	63.12	0.00
65	40		34.01	0.00	34.01	82.91	0.00
40	41		44.06	0.00	44.06	113.25	43.42
40	41	29	21.62	1.56	23.18	38.70	0.00

40	41	102	21.63	1.59	23.22	41.14	11.10
40	41	42	24.03	0.71	24.74	33.42	32.32
29	41		32.91	0.00	32.91	1402.02	149.40
29	41	102	24.64	0.00	24.64	0.00	0.00
29	41	42	3.04	14.30	17.34	1402.02	149.40
102	41	42	21.59	1.23	22.82	38.87	0.00
102	41	40	21.59	1.24	22.83	52.82	11.10
102	41	29	24.03	0.00	24.03	0.03	0.00
102	41		59.20	0.00	59.20	73.69	11.10
42	41	40	3.15	1.17	4.32	126.47	32.32
42	41	29	3.15	1.61	4.76	969.01	125.10
42	41		28.71	0.00	28.71	828.59	157.42
41	42		28.71	0.00	28.71	1381.17	181.72
41	42	51	0.00	0.00	0.00	1463.00	181.72
51	42	41	0.00	0.00	0.00	587.49	119.80
51	42		28.72	0.00	28.72	587.49	119.80
50	42	41	3.26	0.03	3.29	385.99	37.62
50	42		23.43	0.00	23.43	385.99	37.62
35	43		49.54	0.00	49.54	428.01	0.00
35	43	44	0.00	0.00	0.00	286.44	0.00
35	43	52	0.00	0.00	0.00	152.15	0.00
44	43	52	3.53	0.00	3.53	0.95	0.00

## SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL		TIMES		(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	TOTAL	FIXED	
44	43	35	4.05	2.34	6.39	731.50	0.00		
44	43		7.36	0.00	7.36	732.45	0.00		
52	43	35	0.00	0.00	0.00	342.15	0.00		
52	43	44	0.00	0.00	0.00	571.78	0.00		
52	43		34.74	0.00	34.74	629.15	0.00		
43	44		7.36	0.00	7.36	858.22	0.00		
43	44	45	0.00	0.00	0.00	576.47	0.00		
43	44	53	0.00	0.00	0.00	281.75	0.00		
45	44	53	0.00	0.00	0.00	275.08	0.00		
45	44	43	0.00	0.00	0.00	51.94	0.00		
45	44		31.44	0.00	31.44	327.02	0.00		
53	44	43	2.92	0.26	3.18	680.51	0.00		
53	44	45	3.88	1.59	5.47	308.66	0.00		
53	44		41.84	0.00	41.84	860.67	0.00		
44	45		31.44	0.00	31.44	885.13	0.00		
44	45	36	0.00	0.00	0.00	71.18	0.00		
44	45	46	0.00	0.00	0.00	813.95	0.00		
44	45	54	0.00	0.00	0.00	0.00	0.00		
36	45		67.50	0.00	67.50	73.35	0.00		
36	45	46	3.97	0.01	3.98	89.33	0.00		
36	45	54	4.11	0.00	4.11	0.15	0.00		
36	45	44	4.37	0.00	4.37	0.92	0.00		
46	45	54	0.00	0.00	0.00	0.00	0.00		
46	45	44	0.00	0.00	0.00	326.10	0.00		
46	45	36	0.00	0.00	0.00	12.09	0.00		
46	45		18.56	0.00	18.56	338.19	0.00		
54	45	44	3.27	0.00	3.27	0.00	0.00		
54	45	36	4.10	0.00	4.10	0.58	0.00		
54	45	46	4.34	0.00	4.35	31.43	0.00		
54	45		54.56	0.00	54.56	32.01	0.00		
45	46		18.56	0.00	18.56	934.72	0.00		
45	46	62	6.81	7.46	14.27	118.29	0.00		
45	46	47	6.76	8.38	15.14	764.90	0.00		
45	46	66	6.81	7.81	14.62	51.53	0.00		
62	46	47	18.93	8.04	26.98	104.93	0.00		
62	46	66	18.90	8.49	27.39	505.44	40.40		
62	46	45	18.91	10.97	29.87	243.72	0.00		
62	46		28.24	0.00	28.24	479.84	40.40		
47	46	66	22.50	0.00	22.50	0.00	0.00		
47	46	45	6.93	0.43	7.37	79.22	0.00		
47	46	62	20.88	4.39	25.26	15.44	0.00		
47	46		16.00	0.00	16.00	94.66	0.00		
66	46	45	18.56	1.00	19.56	15.26	0.00		
66	46	62	18.91	2.01	20.92	275.66	40.40		
66	46	47	24.81	14.90	39.70	31.06	0.00		
66	46		27.60	0.00	27.60	321.97	40.40		

46	47		15.65	0.00	5.65	900.89	0.00
46	47	63	0.00	0.00	0.00	669.60	0.00
46	47	48	0.00	0.00	0.00	231.29	0.00
48	47	46	0.00	0.00	0.00	90.54	0.00
48	47	63	0.00	0.00	0.00	792.64	13.32
48	47		17.76	0.00	17.76	883.18	13.32

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
67	47	46	3.07	0.00	3.07	4.12	0.00
67	47	63	3.62	0.14	3.77	558.14	0.00
67	47	48	4.39	0.00	4.39	0.90	0.00
67	47		24.00	0.00	24.00	460.66	0.00
47	48		16.31	0.00	16.31	232.19	0.00
47	48	49	11.03	2.34	13.37	190.79	0.00
47	48	68	16.24	1.26	17.51	41.40	0.00
64	48	49	13.23	4.48	17.71	135.39	13.32
64	48	68	13.23	4.78	18.01	609.88	0.00
64	48	47	13.23	4.54	17.76	371.44	0.00
64	48		26.18	0.00	26.18	696.27	13.32
49	48	68	12.78	1.70	14.49	4.94	0.00
49	48	47	11.03	4.35	15.37	511.74	13.32
49	48		15.78	0.00	15.78	516.69	13.32
48	49		15.78	0.00	15.78	326.18	13.32
48	49	65	0.00	0.00	0.00	0.00	0.00
48	49	50	0.00	0.00	0.00	309.18	13.32
48	49	59	0.00	0.00	0.00	17.00	0.00
65	49	50	3.26	0.00	3.26	26.01	0.00
65	49	59	3.84	0.00	3.84	11.34	0.00
65	49	48	4.05	0.00	4.05	0.00	0.00
65	49		34.01	0.00	34.01	37.36	0.00
50	49	59	0.00	0.00	0.00	0.16	0.00
50	49	48	0.00	0.00	0.00	516.69	13.32
50	49	65	0.00	0.00	0.00	256.87	0.00
50	49		36.00	0.00	36.00	773.72	13.32
59	49	48	3.45	0.00	3.45	0.00	0.00
59	49	65	3.82	0.00	3.82	0.00	0.00
59	49	50	4.04	0.00	4.04	4.35	0.00
59	49		55.89	0.00	55.89	4.35	0.00
49	50		13.48	0.00	13.48	339.54	13.32
49	50	42	0.00	0.00	0.00	240.36	0.00
49	50	51	0.00	0.00	0.00	99.18	13.32
51	50	49	0.00	0.00	0.00	561.15	0.00
51	50		6.87	0.00	6.87	561.15	0.00
60	50	49	3.48	0.07	3.55	212.56	13.32
60	50	42	3.36	0.00	3.36	145.63	37.62
60	50		21.00	0.00	21.00	358.19	50.94

50	51		6.30	0.00	6.30	99.18	13.32
50	51	42	24.86	0.00	24.86	0.00	0.00
50	51	810	24.88	0.51	25.39	74.92	0.00
50	51	61	29.26	0.50	29.76	24.26	13.32
42	51		22.98	0.00	22.98	1463.00	181.72
42	51	810	6.01	4.17	10.18	418.36	37.62
42	51	61	6.01	3.63	9.64	1044.64	144.10
811	51	61	24.86	1.13	25.99	62.60	62.60
811	51	50	24.87	0.00	24.87	0.77	0.00
811	51	42	29.26	0.00	29.26	0.04	0.00
811	51		12.44	0.00	12.44	63.42	62.60
61	51	50	8.71	10.01	18.71	560.38	0.00
61	51	42	8.71	8.03	16.73	587.45	119.80
61	51		12.60	0.00	12.60	1147.83	119.80

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER	TRAVEL	TIMES	(SECONDS)	FLAWS	(PCU/HR)		
ANODE BNODE CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED		
72	52	43	3.00	0.00	3.00	639.01	0.00
72	52	53	15.43	0.28	15.72	80.25	22.20
72	52	814	15.34	0.00	15.34	0.00	0.00
72	52		35.40	0.00	35.40	583.45	22.20
43	52		33.20	0.00	33.20	7.30	0.00
43	52	53	11.85	0.86	12.71	2.59	0.00
43	52	814	15.02	0.00	15.02	0.00	0.00
43	52	72	9.80	3.14	12.94	346.32	0.00
54	52	814	15.74	0.00	15.74	0.00	0.00
54	52	72	15.74	1.17	16.91	585.41	49.08
54	52		43.50	0.00	43.50	585.41	49.08
814	52	72	3.95	0.00	3.95	11.22	0.00
814	52	43	15.02	0.00	15.02	0.00	0.00
814	52	53	15.14	0.51	15.65	57.64	0.00
814	52		105.30	0.00	105.30	68.85	0.00
814	53	44	0.00	0.00	0.00	247.61	0.00
814	53	54	0.00	0.00	0.00	648.41	0.00
814	53		47.04	0.00	47.04	896.01	0.00
52	53		15.90	0.00	15.90	80.57	22.20
52	53	44	0.00	0.00	0.00	623.62	0.00
52	53	54	0.00	0.00	0.00	159.50	22.20
52	53	814	0.00	0.00	0.00	54.44	0.00
44	53		41.84	0.00	41.84	503.87	0.00
44	53	54	4.13	0.43	4.57	222.67	0.00
44	53	814	4.07	0.53	4.60	293.32	0.00
53	54		35.23	0.00	35.23	1030.57	22.20
53	54	45	0.80	0.00	0.80	0.53	0.00
53	54	805	0.80	0.08	0.88	1027.14	22.20
53	54	55	33.81	0.05	33.86	2.89	0.00
45	54		54.56	0.00	54.56	0.15	0.00

45	54	805	39.20	0.00	39.20	0.14	0.00
45	54	55	39.20	0.00	39.20	0.00	0.00
805	54	55	2.59	0.00	2.59	0.00	0.00
805	54	52	2.59	0.19	2.78	581.00	49.08
805	54		12.90	0.00	12.90	581.00	49.08
55	54	52	40.30	0.17	40.46	4.41	0.00
55	54	45	40.29	0.76	41.05	31.47	0.00
55	54		16.85	0.00	16.85	35.88	0.00
94	55	54	5.44	7.51	12.95	20.09	0.00
94	55	56	6.42	6.54	12.96	516.95	0.00
94	55	176	11.25	6.90	18.15	135.04	0.00
94	55		114.89	0.00	114.89	0.00	0.00
54	55		17.22	0.00	17.22	2.90	0.00
54	55	56	16.12	0.00	16.12	0.00	0.00
54	55	176	16.13	0.04	16.17	2.90	0.00
54	55	94	16.12	0.00	16.12	0.00	0.00
56	55	176	4.21	3.75	7.96	215.11	0.00
56	55	94	4.11	3.60	7.71	106.09	0.00
56	55	54	26.54	0.00	26.54	0.00	0.00
56	55		13.60	0.00	13.60	321.19	0.00
176	55	94	21.36	0.00	21.36	0.00	0.00
176	55	54	21.15	0.70	21.85	15.80	0.00



**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
176	55	56	21.39	1.37	22.76	77.66	48.60
176	55		64.00	0.00	64.00	48.69	48.60
55	56		12.24	0.00	12.24	594.61	48.60
55	56	805	17.37	33.76	51.14	81.06	0.00
55	56	803	17.14	43.89	61.03	513.55	48.60
805	56	803	10.56	0.00	10.56	0.00	0.00
805	56	174	5.04	3.19	8.23	617.41	0.00
805	56	55	34.10	0.24	34.35	8.24	0.00
805	56		10.44	0.00	10.44	625.65	0.00
804	56	174	20.00	8.67	28.67	181.13	0.00
804	56	55	20.00	8.17	28.17	312.95	0.00
804	56		9.36	0.00	9.36	494.08	0.00
174	56	55	17.42	0.00	17.42	0.00	0.00
174	56	805	17.43	1.33	18.77	268.24	0.00
174	56	803	29.61	1.79	31.40	85.51	0.00
174	56		14.40	0.00	14.40	353.75	0.00
805	57	67	1.98	0.10	2.08	143.61	0.00
805	57	806	1.98	0.20	2.18	841.30	62.60
805	57		11.70	0.00	11.70	984.91	62.60
58	57	805	4.05	0.70	4.75	542.22	89.48
58	57		9.00	0.00	9.00	542.22	89.48
803	57	805	26.44	0.14	26.58	1.26	0.00
803	57	67	26.45	5.30	31.75	394.80	0.00
803	57	806	26.45	6.18	32.63	203.00	48.60
803	57		4.20	0.00	4.20	599.06	48.60
806	58	804	3.23	0.01	3.24	367.23	0.00
806	58	57	3.44	0.00	3.44	26.37	0.00
806	58		3.20	0.00	3.20	393.59	0.00
60	58	804	0.00	0.00	0.00	126.85	0.00
60	58	57	0.00	0.00	0.00	515.86	89.48
60	58		47.30	0.00	47.30	639.03	89.48
68	59	49	0.00	0.00	0.00	34.32	0.00
68	59	807	0.00	0.00	0.00	484.53	0.00
68	59		9.88	0.00	9.88	488.23	0.00
49	59		55.89	0.00	55.89	0.16	0.00
49	59	807	3.37	0.00	3.37	0.16	0.00
61	60	58	0.00	0.00	0.00	670.73	89.48
61	60	50	3.86	0.22	4.08	225.69	26.64
61	60		9.97	0.00	9.97	896.42	116.12
808	60	50	0.00	0.00	0.00	156.79	48.60
808	60	61	0.00	0.00	0.00	793.54	62.60
808	60		42.54	0.00	42.54	858.48	111.20
60	61		9.97	0.00	9.97	793.54	62.60
60	61	51	21.61	0.00	21.61	0.0	0.00
60	61	811	17.15	4.83	21.98	793.5	62.60
51	61		12.60	0.00	12.60	1131.0	220.02

51	61	811	12.86	0.00	12.86	0.00	0.00
51	61	167	7.16	4.33	11.49	1050.11	220.02
51	61	60	31.11	1.72	32.84	81.39	0.00
165	61	167	17.15	3.69	20.84	151.44	0.00
165	61	60	17.15	3.75	20.90	488.40	40.20
165	61		54.00	0.00	54.00	639.84	40.20

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/ANODE	BUFFER/BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLOWS TOTAL	(PCU/HR) FIXED
167	61	60	11.64	28.80	40.44	326.63	75.92
167	61	51	11.45	24.16	35.61	1147.83	119.80
167	61	811	28.35	0.85	29.20	42.14	0.00
167	61		5.10	0.00	5.10	1350.30	168.84
37	62		29.79	0.00	29.79	505.44	40.40
37	62	63	0.00	0.00	0.00	8.31	0.00
37	62	46	0.00	0.00	0.00	633.23	40.40
63	62	46	3.59	0.01	3.60	77.39	0.00
63	62		24.00	0.00	24.00	77.39	0.00
46	62		28.80	0.00	28.80	345.97	40.40
46	62	37	0.00	0.00	0.00	469.25	40.40
62	63		24.00	0.00	24.00	8.31	0.00
62	63	38	5.51	0.00	5.51	0.00	0.00
62	63	64	5.01	0.00	5.01	8.31	0.00
64	63	62	5.71	0.15	5.85	77.03	0.00
64	63	38	5.53	0.68	6.20	152.10	0.00
64	63		27.60	0.00	27.60	229.13	0.00
47	63		24.38	0.00	24.38	1576.84	13.32
47	63	62	0.00	0.00	0.00	0.37	0.00
47	63	38	0.00	0.00	0.00	1713.29	13.32
47	63	64	0.00	0.00	0.00	0.21	0.00
63	64		27.60	0.00	27.60	8.53	0.00
63	64	65	3.61	0.00	3.61	3.42	0.00
63	64	48	3.92	0.00	3.92	5.11	0.00
39	64		27.16	0.00	27.16	760.52	13.32
39	64	65	0.00	0.00	0.00	32.42	0.00
39	64	48	0.00	0.00	0.00	695.78	13.32
39	64	63	0.00	0.00	0.00	119.27	0.00
65	64	48	3.66	0.21	3.87	268.00	0.00
65	64	63	3.87	0.04	3.91	109.85	0.00
65	64		26.40	0.00	26.40	250.97	0.00
64	65		26.40	0.00	26.40	19.62	0.00
64	65	40	3.00	0.00	3.00	82.91	0.00
64	65	49	3.03	0.00	3.03	0.00	0.00
40	65		34.01	0.00	34.01	37.39	0.00
40	65	49	0.00	0.00	0.00	37.36	0.00
40	65	64	0.00	0.00	0.00	0.03	0.00
49	65		34.01	0.00	34.01	256.87	0.00

49	65	64	0.00	0.00	0.00	256.87	0.00
49	65	40	0.00	0.00	0.00	0.00	0.00
46	66		29.81	0.00	29.81	521.60	40.40
46	66	67	0.00	0.00	0.00	0.00	0.00
46	66	805	0.00	0.00	0.00	521.60	40.40
67	66	805	3.47	0.01	3.48	88.74	0.00
67	66		20.40	0.00	20.40	88.74	0.00
805	66	46	0.00	0.00	0.00	321.97	40.40
805	66		17.00	0.00	17.00	268.13	40.40
66	67		20.40	0.00	20.40	0.00	0.00
66	67	47	3.38	0.00	3.38	0.00	0.00
66	67	68	3.36	0.00	3.36	0.00	0.00
68	67	66	3.38	0.00	3.38	88.74	0.00
68	67	47	3.48	0.00	3.48	0.00	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/ ANODE	BUFFER BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLAWS TOTAL	(PCU/HR) FIXED
68	67		24.00	0.00	24.00	88.74	0.00
57	67		18.32	0.00	18.32	538.41	0.00
57	67	66	0.00	0.00	0.00	0.00	0.00
57	67	47	0.00	0.00	0.00	460.66	0.00
57	67	68	0.00	0.00	0.00	77.75	0.00
67	68		24.00	0.00	24.00	77.75	0.00
67	68	59	3.59	0.01	3.59	77.75	0.00
48	68		19.01	0.00	19.01	656.23	0.00
48	68	59	0.00	0.00	0.00	567.48	0.00
48	68	67	0.00	0.00	0.00	88.74	0.00
300	69	31	9.51	4.07	13.58	1000.98	0.00
300	69	32	9.51	4.08	13.59	135.15	37.62
300	69		3.68	0.00	3.68	1136.13	37.62
37	69		21.90	0.00	21.90	517.00	40.40
37	69	31	8.85	1.47	10.32	80.78	0.00
37	69	32	8.85	2.28	11.13	436.23	40.40
6	70		42.66	0.00	42.66	0.12	0.00
6	70	502	4.50	0.00	4.50	0.12	0.00
6	70	15	4.71	0.00	4.71	0.00	0.00
14	70		9.36	0.00	9.36	412.5	0.00
14	70	15	3.00	0.00	3.00	412.4	0.00
14	70	6	4.20	0.00	4.20	0.00	0.00
14	70	502	4.50	0.00	4.50	0.08	0.00
15	70		7.36	0.00	7.36	1133.90	0.00
15	70	6	0.00	0.00	0.00	0.00	0.00
15	70	502	0.00	0.00	0.00	1133.90	0.00
135	72	215	2.69	2.16	4.85	713.42	0.00
135	72	52	2.74	0.42	3.16	534.15	22.20
135	72		5.14	0.00	5.14	1247.57	22.20
73	72	52	34.79	0.85	35.63	55.14	0.00

73	72	135		34.80	3.57	38.37	350.50	33.60
73	72			66.76	0.00	66.76	405.64	33.60
52	72			35.40	0.00	35.40	942.94	49.08
52	72	135		1.92	0.14	2.05	366.21	49.08
52	72	215		4.45	5.20	9.65	576.73	0.00
215	73	816		2.05	0.44	2.49	375.39	43.42
215	73	72		6.75	0.00	6.75	0.00	0.00
215	73			4.50	0.00	4.50	375.39	43.42
74	73	816		17.42	5.23	22.65	368.97	0.00
74	73	72		17.42	2.51	19.93	356.25	33.60
74	73	215		17.42	2.36	19.79	138.20	129.28
74	73			18.72	0.00	18.72	863.41	162.88
816	73	72		10.01	3.32	13.33	49.39	0.00
816	73	215		9.80	3.88	13.68	1486.85	43.42
816	73			11.38	0.00	11.38	1486.85	43.42
137	74	7	5	7.23	0.57	7.79	442.34	0.00
137	74	73		13.23	0.57	13.79	65.16	0.00
137	74			7.20	0.00	7.20	507.50	0.00
75	74	73		9.01	0.00	9.02	762.27	162.88
75	74	137		15.01	0.00	15.02	219.41	0.00
75	74			18.00	0.00	18.00	981.67	162.88
30	74			50.40	0.00	50.40	358.92	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL TIMES		(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
30	74	73	6.45	0.06	6.51	35.99	0.00
30	74	137	12.45	0.06	12.51	318.11	0.00
30	74	75	15.45	0.06	15.51	33.03	0.00
215	74	137	5.82	1.20	7.03	197.66	0.00
215	74	75	8.82	1.20	10.03	2012.48	162.88
215	74	73	14.82	1.20	16.03	0.00	0.00
215	74		20.16	0.00	20.16	2080.85	33.60
76	75	16	2.45	0.00	2.45	0.00	0.00
76	75	74	2.01	0.39	2.39	864.77	162.88
76	75		12.60	0.00	12.60	864.77	162.88
16	75		103.20	0.00	103.20	0.00	0.00
16	75	74	34.67	2.73	37.41	116.90	0.00
16	75	76	34.67	0.00	34.67	0.00	0.00
74	75		14.75	0.00	14.75	2487.85	162.88
74	75	76	2.01	2.03	4.04	2174.09	162.88
74	75	16	2.45	1.54	3.99	313.76	0.00
205	76	7	0.00	0.00	0.00	1203.54	0.00
205	76	75	0.00	0.00	0.00	864.77	162.88
205	76		1.20	0.00	1.20	2068.32	162.88
75	76		12.39	0.00	12.39	2174.09	162.88
75	76	205	0.00	0.00	0.00	1503.04	162.88
75	76	7	5.07	22.64	27.71	671.05	0.00
140	77	78	6.42	5.60	12.03	659.77	0.00
140	77	204	22.05	4.81	26.86	451.91	0.00
140	77		6.00	0.00	6.00	1111.68	0.00
78	77	204	7.62	3.31	10.93	1288.44	162.88
78	77	14	11.21	7.97	19.18	544.98	0.00
78	77		28.20	0.00	28.20	1515.10	162.88
204	77	140	6.02	9.67	15.69	831.97	0.00
204	77	78	22.76	4.66	27.41	666.03	162.88
204	77		7.67	0.00	7.67	497.99	162.88
141	78	150	20.67	6.43	27.10	379.49	0.00
141	78	77	20.67	3.41	24.08	240.70	0.00
141	78		6.00	0.00	6.00	620.18	0.00
150	78	77	7.61	4.17	11.77	1274.59	162.88
150	78	141	34.67	2.47	37.14	106.53	0.00
150	78		11.40	0.00	11.40	1381.12	162.88
77	78		27.74	0.00	27.74	1267.10	162.88
77	78	141	13.71	4.11	17.83	225.54	0.00
77	78	150	13.71	3.90	17.61	1041.55	162.88
104	79	150	15.61	7.07	22.67	1122.40	162.88
104	79	142	33.80	2.34	36.14	103.75	0.00
104	79		4.80	0.00	4.80	1226.16	162.88
615	79	150	11.25	4.54	15.79	190.22	0.00
615	79	142	11.25	4.57	15.82	308.99	73.92
615	79	104	11.25	32.83	44.08	733.28	11.10

615	79		14.40	0.00	14.40	1232.49	85.02
150	79	142	125.17	0.58	125.75	0.36	0.00
150	79	104	26.45	95.83	122.28	881.62	162.88
150	79		14.75	0.00	14.75	881.98	162.88
144	80	511	23.47	5.72	29.19	1024.94	176.20
144	80	143	30.99	3.69	34.68	11.13	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/ ANODE	BUFFER BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLows TOTAL	(PCU/HR) FIXED
144	80		6.00	0.00	6.00	1036.07	176.20
203	80	511	2.24	0.00	2.24	0.00	0.00
203	80	143	2.24	1.06	3.30	1818.86	219.78
203	80	144	2.38	2.37	4.75	700.57	0.00
203	80		16.66	0.00	16.66	2519.43	219.78
511	80	143	9.05	6.77	15.82	32.73	0.00
511	80	144	9.05	8.44	17.50	1299.52	173.98
511	80		3.84	0.00	3.84	1332.25	173.98
508	81	180	31.89	0.58	32.47	13.40	11.10
508	81	181	31.89	1.56	33.46	125.66	60.60
508	81		5.85	0.00	5.85	139.06	71.70
507	81	180	18.76	8.11	26.87	1479.33	208.68
507	81	181	18.77	8.56	27.33	21.49	0.00
507	81		7.20	0.00	7.20	1500.82	208.68
506	81	180	1.71	3.41	5.13	1207.36	40.40
506	81	181	1.61	3.79	5.40	54.20	0.00
506	81		3.60	0.00	3.60	1261.57	40.40
618	82	119	30.42	2.52	32.94	43.55	0.00
618	82	84	30.42	3.92	34.34	3 82.06	60.60
618	82		5.36	0.00	5.36	425.60	60.60
612	82	119	3.90	5.20	9.11	1704.61	0.00
612	82	84	4.04	6.18	10.21	588.31	0.00
612	82		4.00	0.00	4.00	2292.92	0.00
154	83	152	15.01	5.77	20.78	1179.43	208.68
154	83	153	15.01	6.27	21.27	352.75	0.00
154	83		4.63	0.00	4.63	1532.18	208.68
504	83	152	5.08	5.94	11.02	75.63	0.00
504	83	153	5.08	6.43	11.51	1708.09	13.32
504	83		4.03	0.00	4.03	1783.72	13.32
82	84		17.21	0.00	17.21	970.37	60.60
82	84	86	13.74	3.80	17.54	495.13	60.60
82	84	604	13.74	4.83	18.56	238.70	0.00
82	84	611	13.74	4.76	18.50	236.54	0.00
120	84	86	11.76	9.97	21.73	23.27	0.00
120	84	604	11.76	9.23	20.99	55.21	0.00
120	84	611	11.72	9.96	21.68	1555.84	0.00
120	84		7.20	0.00	7.20	1634.32	0.00
156	85	503	16.41	8.24	24.66	1149.90	13.32

156	85	154	23.72	0.00	23.72	0.00	0.00
156	85		12.24	0.00	12.24	1149.90	13.32
87	85	503	7.32	0.12	7.43	50.28	0.00
87	85	154	7.22	2.78	10.01	1532.18	208.68
87	85		39.19	0.00	39.19	1582.46	208.68
84	86		44.06	0.00	44.06	518.40	60.60
84	86	121	26.55	69.39	95.94	396.01	0.00
84	86	620	27.88	54.61	82.49	66.27	60.60
84	86	610	26.60	108.90	135.51	56.11	0.00
121	86	620	321.47	82.85	404.32	212.09	0.00
121	86	610	1.81	396.61	398.43	1248.61	162.72
121	86		7.20	0.00	7.20	1460.7	162.72
610	86	121	0.92	0.69	1.61	2427.36	138.42
610	86	620	43.68	0.00	43.68	68.33	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/ ANODE	BUFFER BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLAWS TOTAL	(PCU/HR) FIXED
610	86		3.60	0.00	3.60	2495.68	138.42
97	87	502	7.38	68.29	75.67	1189.85	136.08
97	87	85	34.25	46.24	80.49	106.58	0.00
97	87		39.60	0.00	39.60	1153.89	136.08
160	87	502	14.46	5.01	19.47	438.23	0.00
160	87	85	14.45	6.51	20.96	1472.95	208.68
160	87	97	14.46	7.03	21.50	206.37	0.00
160	87		13.47	0.00	13.47	2117.55	208.68
502	87	85	34.55	2.90	37.45	2.93	0.00
502	87	97	6.06	33.98	40.04	1952.25	111.78
502	87		5.94	0.00	5.94	1955.18	111.78
620	88	122	7.21	0.22	7.43	23.10	0.00
620	88	123	6.96	0.57	7.53	276.59	60.60
620	88	608	6.94	57.53	64.48	765.37	0.00
620	88		4.32	0.00	4.32	1065.07	60.60
122	88	123	8.73	0.57	9.30	71.39	0.00
122	88	608	8.73	0.54	9.27	162.17	60.60
122	88		7.20	0.00	7.20	233.56	60.60
608	88	122	12.88	4.28	17.16	410.22	60.60
608	88	123	12.88	7.22	20.10	277.42	13.32
608	88		4.05	0.00	4.05	687.65	73.92
207	89	128	8.17	0.18	8.35	7.62	0.00
207	89	90	8.23	0.66	8.89	145.52	73.92
207	89	209	8.72	0.86	9.58	42.04	0.00
207	89		12.60	0.00	12.60	195.18	73.92
128	89	90	8.10	0.00	8.10	0.04	0.00
128	89	209	8.11	0.02	8.14	6.04	0.00
128	89	207	7.81	0.75	8.56	21.68	0.00
128	89		12.00	0.00	12.00	27.77	0.00
90	89	209	5.95	0.00	5.95	0.00	0.00

90	89	207	5.97	0.44	6.41	278.47	73.92
90	89	128	6.99	0.00	6.99	0.44	0.00
90	89		42.30	0.00	42.30	278.90	73.92
209	89	207	8.10	1.13	9.23	159.69	0.00
209	89	128	8.05	0.44	8.49	32.86	0.00
209	89	90	8.10	0.00	8.10	0.00	0.00
209	89		34.80	0.00	34.80	65.39	0.00
89	90		42.30	0.00	42.30	145.56	73.92
89	90	100	5.33	0.21	5.55	145.52	73.92
89	90	161	8.34	0.00	8.34	0.04	0.00
127	90	100	11.38	0.00	11.38	0.00	0.00
127	90	161	11.37	3.89	15.26	1331.04	208.68
127	90	89	11.38	2.88	14.26	40.19	0.00
127	90		5.14	0.00	5.14	1371.23	208.68
100	90	161	1.98	1.69	3.67	659.03	11.10
100	90	89	2.01	0.24	2.24	238.72	73.92
100	90		7.20	0.00	7.20	897.75	85.02
165	91	100	12.10	3.54	15.63	271.97	32.32
165	91	127	12.10	2.99	15.09	458.57	0.00
165	91	812	13.61	0.00	13.61	0.00	0.00
165	91		36.00	0.00	36.00	730.54	32.32
100	91	127	4.13	0.00	4.13	0.00	0.00



**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
100	91	812	4.14	0.37	4.51	385.11	52.70
100	91	165	13.20	2.26	15.46	227.36	32.32
100	91		17.67	0.00	17.67	612.47	85.02
127	91	812	12.72	0.57	13.29	5.06	0.00
127	91	165	12.10	1.77	13.87	455.40	26.88
127	91		6.00	0.00	6.00	460.46	26.88
812	91	165	10.00	0.00	10.00	0.00	0.00
812	91	100	10.00	1.43	11.43	450.11	52.70
812	91		57.21	0.00	57.21	450.11	52.70
173	92	171	4.78	4.78	9.55	399.49	0.00
173	92	168	10.09	0.00	10.09	0.00	0.00
173	92	170	3.43	7.04	10.47	636.69	0.00
173	92		45.36	0.00	45.36	1036.18	0.00
171	92	168	0.00	0.00	0.00	171.80	171.80
171	92	170	0.00	0.00	0.00	122.60	26.64
171	92	173	3.71	0.00	3.71	0.00	0.00
171	92		2.16	0.00	2.16	281.08	185.12
168	92	170	3.52	0.11	3.63	189.66	13.32
168	92	173	4.32	0.00	4.32	0.00	0.00
168	92	171	4.01	0.39	4.39	247.72	123.20
168	92		77.14	0.00	77.14	0.00	0.00
170	92	173	0.00	0.00	0.00	0.00	0.00
170	92	171	0.00	0.00	0.00	678.38	13.32
170	92	168	3.26	0.00	3.26	0.00	0.00
170	92		17.28	0.00	17.28	678.38	13.32
179	93	170	3.52	0.00	3.52	0.00	0.00
179	93	169	3.79	0.53	4.32	517.76	0.00
179	93	131	4.60	0.01	4.61	30.28	0.00
179	93		225.00	0.00	225.00	548.04	0.00
170	93	169	0.00	0.00	0.00	39.96	39.96
170	93	131	0.00	0.00	0.00	191.87	0.00
170	93	179	3.31	0.15	3.46	431.00	0.00
170	93		31.68	0.00	31.68	662.83	39.96
169	93	131	3.24	0.00	3.24	0.00	0.00
169	93	179	3.76	0.45	4.21	494.83	48.60
169	93	170	4.62	0.00	4.62	13.32	13.32
169	93		65.70	0.00	65.70	61.92	61.92
131	93	179	0.00	0.00	0.00	11.31	0.00
131	93	170	0.00	0.00	0.00	387.38	0.00
131	93	169	3.18	0.00	3.18	0.00	0.00
131	93		7.20	0.00	7.20	398.69	0.00
814	94	55	3.00	0.00	3.00	324.01	0.00
814	94	179	3.08	0.00	3.08	6.19	0.00
814	94		75.60	0.00	75.60	293.53	0.00
55	94		135.00	0.00	135.00	106.09	0.00
55	94	179	0.00	0.00	0.00	104.12	0.00

55	94	814	0.00	0.00	0.00	1.97	0.00
179	94	814	3.00	0.00	3.00	452.59	0.00
179	94	55	3.13	0.00	3.13	0.35	0.00
179	94		45.00	0.00	45.00	434.98	0.00
610	95	97	2.31	72.48	74.80	1530.90	162.72
610	95	155	3.46	48.98	52.43	523.16	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
610	95		25.92	0.00	25.92	995.80	162.72
158	95	97	23.66	1.81	25.47	1.84	0.00
158	95	155	23.39	2.29	25.68	203.49	0.00
158	95	610	23.39	2.70	26.09	140.02	26.64
158	95		22.50	0.00	22.50	345.35	26.64
97	95	155	2.31	0.40	2.71	36.01	0.00
97	95	610	2.16	0.75	2.91	1851.57	111.78
97	95		10.80	0.00	10.80	1887.58	111.78
212	96	98	3.85	1.00	4.85	207.35	73.92
212	96	163	3.50	1.29	4.78	15.23	0.00
212	96		17.10	0.00	17.10	222.59	73.92
124	96	98	16.90	0.43	17.33	21.23	0.00
124	96	163	16.90	1.26	18.16	226.02	26.64
124	96	212	16.90	0.36	17.27	19.00	0.00
124	96		9.00	0.00	9.00	266.24	26.64
98	96	163	2.09	0.10	2.19	0.90	0.00
98	96	212	2.18	1.23	3.41	650.92	73.92
98	96		18.00	0.00	18.00	588.06	73.92
156	97	95	28.36	0.07	28.43	2.63	0.00
156	97	159	28.35	1.20	29.55	218.06	0.00
156	97	87	28.36	0.11	28.46	7.67	0.00
156	97		44.64	0.00	44.64	228.36	0.00
95	97		12.96	0.00	12.96	1532.74	162.72
95	97	159	2.13	1.30	3.43	370.35	26.64
95	97	87	2.13	1.26	3.39	1162.39	136.08
87	97		35.36	0.00	35.36	1911.50	111.78
87	97	95	1.12	6.27	7.39	1884.95	111.78
87	97	159	1.00	8.89	9.89	342.41	0.00
162	98	96	3.27	0.02	3.29	229.63	0.00
162	98	125	3.41	0.00	3.41	35.87	26.64
162	98	206	3.40	0.00	3.40	7.57	0.00
162	98		22.50	0.00	22.50	273.06	26.64
96	98		18.00	0.00	18.00	208.52	73.92
96	98	125	0.00	0.00	0.00	14.37	0.00
96	98	206	0.00	0.00	0.00	201.76	73.92
206	98	96	0.00	0.00	0.00	358.50	73.92
206	98	125	3.17	0.00	3.17	3.37	0.00
206	98		46.80	0.00	46.80	361.87	73.92

152	99	505	0.00	0.00	0.00	1394.90	0.00
152	99	507	0.00	0.00	0.00	1514.57	208.68
152	99		4.11	0.00	4.11	2245.86	208.68
505	99	507	3.80	0.00	3.80	0.37	0.00
505	99		4.68	0.00	4.68	0.37	0.00
501	100	90	6.40	0.78	7.18	179.02	0.00
501	100	127	6.40	1.46	7.86	686.90	208.68
501	100	91	6.40	2.98	9.38	472.30	11.10
501	100		20.57	0.00	20.57	1338.22	219.78
90	100		7.20	0.00	7.20	145.52	73.92
90	100	127	11.44	0.03	11.47	5.35	0.00
90	100	91	11.47	0.32	11.79	140.17	73.92
91	100		19.44	0.00	19.44	722.08	85.02
91	100	90	5.19	2.04	7.23	718.73	85.02

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/ ANODE	BUFFER BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
91	100	127	6.30	0.52	6.82	3.35	0.00
41	102		53.28	0.00	53.28	41.14	11.10
41	102	29	0.00	0.00	0.00	0.00	0.00
41	102	501	0.00	0.00	0.00	41.14	11.10
29	102		56.16	0.00	56.16	0.00	0.00
29	102	501	3.03	0.00	3.03	156.03	0.00
29	102	41	3.15	0.00	3.15	0.00	0.00
501	102	41	0.00	0.00	0.00	136.98	11.10
501	102	29	0.00	0.00	0.00	31.43	0.00
501	102		21.60	0.00	21.60	168.41	11.10
205	103		7.20	0.00	7.20	119.88	0.00
142	104	202	45.94	2.72	48.65	13.94	0.00
142	104	616	45.93	6.02	51.95	193.83	60.60
142	104	79	45.94	0.01	45.95	0.62	0.00
142	104		7.20	0.00	7.20	208.38	60.60
202	104	616	4.93	0.39	5.33	125.29	0.00
202	104	79	4.83	0.78	5.61	1225.54	162.88
202	104		18.83	0.00	18.83	981.09	162.88
79	104		4.80	0.00	4.80	1614.90	173.98
79	104	202	2.20	1.40	3.60	1445.56	173.98
79	104	616	53.20	124.11	177.31	169.34	0.00
204	105		7.20	0.00	7.20	0.07	0.00
202	106		9.00	0.00	9.00	228.33	0.00
200	107		7.20	0.00	7.20	0.00	0.00
203	108		7.20	0.00	7.20	547.85	0.00
180	113		7.20	0.00	7.20	132.43	11.10
181	115		7.20	0.00	7.20	0.00	0.00
212	117		7.20	0.00	7.20	740.68	0.00
82	119		7.20	0.00	7.20	1748.16	0.00
84	120		7.20	0.00	7.20	0.00	0.00

86	121	7.20	0.00	7.20	2823.37	1 38.42
88	122	7.20	0.00	7.20	433.33	60.60
88	123	6.00	0.00	6.00	625.41	73.92
607	123	4.50	0.00	4.50	2097.48	33.60
96	124	7.20	0.00	7.20	0.00	0.00
98	125	9.00	0.00	9.00	53.61	26.64
206	126	9.00	0.00	9.00	126.33	0.00
91	127	6.55	0.00	6.55	458.57	0.00
100	127	5.14	0.00	5.14	695.60	208.68
89	128	9.00	0.00	9.00	40.92	0.00
210	129	9.00	0.00	9.00	42.18	0.00
211	130	9.00	0.00	9.00	186.67	0.00
93	131	7.20	0.00	7.20	222.15	0.00
72	135	7.20	0.00	7.20	716.71	82.68
215	136	7.20	0.00	7.20	1426.10	172.70
74	137	7.20	0.00	7.20	735.18	0.00
202	139	7.20	0.00	7.20	0.00	0.00
77	140	7.20	0.00	7.20	1376.95	0.00
78	141	7.20	0.00	7.20	332.07	0.00
79	142	6.00	0.00	6.00	413.11	73.92
600	142	4.50	0.00	4.50	1635.91	201.60
80	143	5.14	0.00	5.14	1862.72	219.78

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL		TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE		TOTAL	TOTAL	FIXED
80	144		7.20	0.00		7.20	2000.09	173.98
211	145		9.00	0.00		9.00	154.75	52.70
79	150		15.00	0.00		15.00	1312.62	162.88
79	150	151	0.00	0.00		0.00	0.00	0.00
79	150	78	0.00	0.00		0.00	1312.62	162.88
151	150	78	4.31	0.01		4.32	68.50	0.00
151	150	79	6.57	0.00		6.57	2.32	0.00
151	150		63.00	0.00		63.00	68.50	0.00
78	150		11.21	0.00		11.21	1421.04	162.88
78	150	79	0.00	0.00		0.00	879.66	162.88
78	150	151	4.23	1.41		5.64	541.38	0.00
150	151		63.00	0.00		63.00	541.38	0.00
150	151	615	3.21	0.19		3.40	704.11	0.00
506	151	150	0.00	0.00		0.00	264.56	0.00
506	151	615	0.00	0.00		0.00	282.47	71.70
506	151	617	0.00	0.00		0.00	0.00	0.00
506	151		12.24	0.00		12.24	547.03	71.70
1	151		22.50	0.00		22.50	59.20	13.32
1	151	150	3.21	0.00		3.21	0.00	0.00
1	151	615	3.43	0.00		3.43	56.90	13.32
1	151	617	3.44	0.00		3.44	2.31	0.00
619	152	153	3.00	0.00		3.00	72.91	0.00
619	152	99	4.48	1.50		5.98	492.24	0.00
619	152		25.92	0.00		25.92	51.13	0.00
153	152	99	4.35	1.10		5.45	498.84	0.00
153	152		17.28	0.00		17.28	498.84	0.00
83	152		11.31	0.00		11.31	1255.06	208.68
83	152	99	0.00	0.00		0.00	1254.91	208.68
83	152	153	0.00	0.00		0.00	0.14	0.00
152	153		10.80	0.00		10.80	73.06	0.00
152	153	613	3.00	0.00		3.00	0.00	0.00
152	153	612	5.22	0.06		5.28	73.06	0.00
155	153	152	4.58	1.26		5.84	498.84	0.00
155	153	613	5.21	0.00		5.21	0.03	0.00
155	153	612	4.82	0.25		5.07	166.52	0.00
155	153		40.32	0.00		40.32	665.38	0.00
83	153		10.80	0.00		10.80	1315.26	13.32
83	153	152	0.00	0.00		0.00	0.00	0.00
83	153	613	0.00	0.00		0.00	0.03	0.00
83	153	612	0.00	0.00		0.00	1605.48	13.32
85	154		14.40	0.00		14.40	1532.18	208.68
85	154	83	0.00	0.00		0.00	1532.18	208.68
85	154	156	0.00	0.00		0.00	0.00	0.00
611	155	156	0.00	0.00		0.00	1355.09	13.32
611	155	153	0.00	0.00		0.00	273.70	0.00
611	155		25.20	0.00		25.20	1628.80	13.32

95	155		90.72	0.00	90.72	762.66	0.00
95	155	156	4.01	0.00	4.01	370.98	0.00
95	155	153	3.91	0.21	4.11	391.68	0.00
154	156		21.60	0.00	21.60	0.00	0.00
154	156	97	34.23	0.00	34.23	0.00	0.00
154	156	85	34.23	0.00	34.23	0.00	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
155	156		12.96	0.00	12.96	943.80	13.32
155	156	97	1.23	0.32	1.54	228.36	0.00
155	156	85	1.23	0.49	1.71	1149.90	13.32
164	157	158	0.00	0.00	0.00	207.90	0.00
164	157	609	0.00	0.00	0.00	1406.77	85.02
164	157		18.72	0.00	18.72	1614.67	85.02
158	157	609	4.51	0.85	5.37	370.12	0.00
158	157		37.80	0.00	37.80	370.12	0.00
157	158		33.60	0.00	33.60	207.90	0.00
157	158	159	20.83	2.75	23.58	194.67	0.00
157	158	95	25.53	0.92	26.45	13.24	0.00
163	158	159	4.17	0.45	4.62	150.17	0.00
163	158	95	4.17	0.44	4.62	331.40	26.64
163	158	157	4.17	0.03	4.20	20.42	0.00
163	158		34.20	0.00	34.20	257.63	26.64
159	158	95	22.04	2.10	24.14	0.71	0.00
159	158	157	20.83	4.67	25.50	349.69	0.00
159	158		14.40	0.00	14.40	350.41	0.00
97	159		21.60	0.00	21.60	930.81	26.64
97	159	158	3.00	0.00	3.00	348.32	0.00
97	159	162	3.12	0.02	3.14	543.65	26.64
97	159	160	3.19	0.00	3.19	38.85	0.00
158	159		14.40	0.00	14.40	344.84	0.00
158	159	162	0.00	0.00	0.00	0.00	0.00
158	159	160	0.00	0.00	0.00	344.84	0.00
160	159	158	0.00	0.00	0.00	2.09	0.00
160	159	162	3.25	0.00	3.25	5.56	0.00
160	159		54.40	0.00	54.40	7.65	0.00
159	160		61.20	0.00	61.20	383.68	0.00
159	160	87	4.74	1.27	6.01	383.68	0.00
161	160	87	0.00	0.00	0.00	1733.87	208.68
161	160	159	0.00	0.00	0.00	7.65	0.00
161	160		36.41	0.00	36.41	1741.51	208.68
209	161	501	4.64	0.61	5.25	287.81	0.00
209	161	160	5.86	0.00	5.86	11.77	0.00
209	161		24.30	0.00	24.30	299.57	0.00
90	161		18.82	0.00	18.82	1737.29	219.78
90	161	501	0.00	0.00	0.00	59.72	11.10

90	161	160	0.00	0.00	0.00	1683.66	208.68
90	161	209	0.00	0.00	0.00	74.55	0.00
501	161	160	4.81	0.00	4.81	46.09	0.00
501	161	209	3.81	0.17	3.98	390.89	0.00
501	161		4.86	0.00	4.86	436.98	0.00
159	162		39.60	0.00	39.60	463.92	26.64
159	162	163	3.30	0.06	3.36	285.27	0.00
159	162	98	3.29	0.01	3.29	224.48	26.64
159	162	208	3.60	0.00	3.61	58.21	0.00
163	162	98	0.00	0.00	0.00	0.00	0.00
163	162	208	0.00	0.00	0.00	234.47	0.00
163	162		14.40	0.00	14.40	224.96	0.00
208	162	163	0.00	0.00	0.00	385.45	0.00
208	162	98	3.22	0.00	3.22	48.58	0.00

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLows TOTAL	(PCU/HR) FIXED
208 162	51.20	0.00	51.20	434.03	0.00
216 163 162	0.00	0.00	0.00	223.23	0.00
216 163 158	3.74	0.00	3.74	30.84	0.00
216 163	12.80	0.00	12.80	254.08	0.00
96 163	20.70	0.00	20.70	231.69	26.64
96 163 162	3.16	0.00	3.16	1.72	0.00
96 163 158	3.38	0.00	3.38	217.32	26.64
96 163 216	3.80	0.00	3.80	15.41	0.00
162 163	14.40	0.00	14.40	591.79	0.00
162 163 158	0.00	0.00	0.00	44.70	0.00
162 163 216	0.00	0.00	0.00	633.88	0.00
608 164 216	0.00	0.00	0.00	254.30	0.00
608 164 157	0.00	0.00	0.00	1520.74	85.02
608 164	10.08	0.00	10.08	1401.02	85.02
216 164 157	4.76	0.07	4.82	93.93	0.00
216 164	28.80	0.00	28.80	93.93	0.00
810 165 91	0.00	0.00	0.00	672.98	0.00
810 165 166	3.60	0.02	3.62	90.62	37.62
810 165	31.29	0.00	31.29	726.60	37.62
91 165	33.23	0.00	33.23	592.99	59.20
91 165 166	0.00	0.00	0.00	108.58	32.32
91 165 61	0.00	0.00	0.00	489.28	26.88
166 165 61	3.42	0.02	3.44	150.56	13.32
166 165 91	4.18	0.01	4.19	57.56	32.32
166 165	30.96	0.00	30.96	208.12	45.64
167 166 165	3.11	0.00	3.11	32.32	32.32
167 166 812	3.25	0.00	3.25	0.06	0.00
167 166 168	3.18	0.00	3.18	0.00	0.00
167 166	69.30	0.00	69.30	32.38	32.32
165 166	34.40	0.00	34.40	199.20	69.94

165	166	812	0.00	0.00	0.00	4.56	0.00
165	166	168	0.00	0.00	0.00	91.11	13.32
165	166	167	3.19	0.00	3.19	103.54	56.62
812	166	168	0.00	0.00	0.00	0.00	0.00
812	166	167	0.00	0.00	0.00	23.76	0.00
812	166	165	0.00	0.00	0.00	115.65	0.00
812	166		22.92	0.00	22.92	139.41	0.00
168	166	167	0.00	0.00	0.00	30.66	13.32
168	166	165	0.00	0.00	0.00	60.15	13.32
168	166	812	0.00	0.00	0.00	0.01	0.00
168	166		91.20	0.00	91.20	14.46	13.32
61	167		6.12	0.00	6.12	1174.67	193.14
61	167	166	0.00	0.00	0.00	32.32	32.32
61	167	171	0.00	0.00	0.00	1142.35	160.82
166	167		69.30	0.00	69.30	100.01	69.94
166	167	171	4.14	0.00	4.14	24.40	24.30
166	167	61	6.03	0.10	6.13	78.26	45.64
171	167	61	0.00	0.00	0.00	1304.86	123.20
171	167	166	4.03	0.00	4.03	0.06	0.00
171	167		79.20	0.00	79.20	1073.65	123.20
92	168		77.14	0.00	77.14	48.60	48.60
92	168	166	3.43	0.00	3.43	0.00	0.00



SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
92	168	211	3.70	0.00	3.70	0.00	0.00
92	168	813	4.16	0.00	4.17	48.60	48.60
166	168		91.20	0.00	91.20	91.11	13.32
166	168	211	0.00	0.00	0.00	1.90	0.00
166	168	813	0.00	0.00	0.00	97.45	26.64
166	168	92	3.56	0.00	3.56	5.09	0.00
211	168	813	0.00	0.00	0.00	385.91	0.00
211	168	92	0.00	0.00	0.00	68.55	0.00
211	168	166	0.00	0.00	0.00	0.00	0.00
211	168		18.96	0.00	18.96	454.46	0.00
813	168	92	0.00	0.00	0.00	13.32	13.32
813	168	166	0.00	0.00	0.00	517.62	26.64
813	168	211	0.00	0.00	0.00	220.94	0.00
813	168		11.68	0.00	11.68	751.87	39.96
93	169		75.09	0.00	75.09	39.96	39.96
93	169	813	3.00	0.00	3.00	39.96	39.96
813	169	93	0.00	0.00	0.00	61.92	61.92
813	169		30.53	0.00	30.53	61.92	61.92
177	170	92	3.67	0.00	3.67	0.00	0.00
177	170	813	4.53	0.33	4.86	186.89	0.00
177	170	93	4.04	0.00	4.04	0.00	0.00
177	170		124.46	0.00	124.46	186.89	0.00
92	170		17.28	0.00	17.28	948.95	39.96
92	170	813	0.00	0.00	0.00	462.52	0.00
92	170	93	0.00	0.00	0.00	486.43	39.96
92	170	177	3.59	0.00	3.59	0.00	0.00
813	170	93	0.00	0.00	0.00	176.39	0.00
813	170	177	0.00	0.00	0.00	0.00	0.00
813	170	92	0.00	0.00	0.00	375.20	0.00
813	170		28.92	0.00	28.92	551.59	0.00
93	170		31.68	0.00	31.68	400.70	13.32
93	170	177	0.00	0.00	0.00	0.00	0.00
93	170	92	0.00	0.00	0.00	303.18	13.32
93	170	813	0.00	0.00	0.00	97.52	0.00
172	171	167	3.98	0.00	3.98	0.00	0.00
172	171	92	5.66	0.00	5.66	0.00	0.00
172	171		63.77	0.00	63.77	0.00	0.00
167	171		79.20	0.00	79.20	1166.75	185.12
167	171	92	0.00	0.00	0.00	281.08	185.12
167	171	172	3.53	6.86	10.39	885.67	0.00
92	171		3.60	0.00	3.60	1312.26	123.20
92	171	172	0.00	0.00	0.00	221.64	0.00
92	171	167	0.00	0.00	0.00	1090.62	123.20
174	172	171	0.00	0.00	0.00	0.00	0.00
174	172	173	3.28	0.00	3.28	0.14	0.00
174	172		52.46	0.00	52.46	0.14	0.00

171	172		63.77	0.00	63.77	212.78	0.00
171	172	173	0.00	0.00	0.00	0.00	0.00
171	172	174	0.00	0.00	0.00	353.73	0.00
173	172	174	3.28	0.00	3.28	0.00	0.00
173	172	171	3.28	0.00	3.28	0.00	0.00
173	172		4.32	0.00	4.32	0.00	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLows	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
175	173	172	0.00	0.00	0.00	0.00	0.00
175	173	92	0.00	0.00	0.00	899.26	0.00
175	173	176	3.00	0.00	3.00	141.00	0.00
175	173		51.43	0.00	51.43	434.31	0.00
172	173		4.32	0.00	4.32	0.14	0.00
172	173	92	4.13	0.00	4.13	0.14	0.00
172	173	176	4.11	0.00	4.11	0.00	0.00
172	173	175	4.20	0.00	4.20	0.00	0.00
92	173		64.80	0.00	64.80	0.00	0.00
92	173	176	0.00	0.00	0.00	0.00	0.00
92	173	175	0.00	0.00	0.00	0.00	0.00
92	173	172	4.06	0.00	4.06	0.00	0.00
176	173	175	3.00	0.00	3.00	0.01	0.00
176	173	172	4.22	0.00	4.22	0.00	0.00
176	173	92	4.30	0.08	4.39	136.78	0.00
176	173		61.71	0.00	61.71	136.79	0.00
56	174		8.40	0.00	8.40	798.54	0.00
56	174	172	0.00	0.00	0.00	0.14	0.00
56	174	175	3.28	0.46	3.75	798.39	0.00
172	174		52.46	0.00	52.46	353.73	0.00
172	174	175	0.00	0.00	0.00	0.00	0.00
172	174	56	0.00	0.00	0.00	353.73	0.00
175	174	56	3.28	0.00	3.28	0.01	0.00
175	174	172	4.29	0.00	4.29	0.00	0.00
175	174		4.32	0.00	4.32	0.01	0.00
174	175		4.32	0.00	4.32	798.39	0.00
174	175	173	0.00	0.00	0.00	798.39	0.00
173	175		51.43	0.00	51.43	0.01	0.00
173	175	174	0.00	0.00	0.00	0.01	0.00
178	176	55	3.00	0.00	3.00	60.65	48.60
178	176	173	3.27	0.00	3.27	1.73	0.00
178	176	177	3.25	0.00	3.25	0.00	0.00
178	176		85.20	0.00	85.20	62.37	48.60
55	176		72.00	0.00	72.00	332.24	0.00
55	176	173	0.00	0.00	0.00	135.06	0.00
55	176	177	0.00	0.00	0.00	0.00	0.00
55	176	178	3.00	0.00	3.00	255.01	0.00
173	176		72.00	0.00	72.00	141.00	0.00

173	176	177	3.00	0.00	3.00	0.00	0.00
173	176	178	3.18	0.00	3.18	141.00	0.00
173	176	55	3.24	0.00	3.24	0.00	0.00
177	176	178	0.00	0.00	0.00	0.00	0.00
177	176	55	0.00	0.00	0.00	0.09	0.00
177	176	173	3.10	0.00	3.10	0.01	0.00
177	176		24.30	0.00	24.30	0.10	0.00
178	177	176	3.00	0.00	3.00	0.10	0.00
178	177	170	3.00	0.00	3.00	186.89	0.00
178	177		69.94	0.00	69.94	183.88	0.00
176	177		27.77	0.00	27.77	0.00	0.00
176	177	170	0.00	0.00	0.00	0.00	0.00
176	177	178	0.00	0.00	0.00	0.00	0.00
170	177		124.46	0.00	124.46	0.00	0.00

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLOWS TOTAL	(PCU/HR) FIXED
170 177 178	3.00	0.00	3.00	0.00	0.00
170 177 176	3.06	0.00	3.06	0.00	0.00
179 178 176	0.00	0.00	0.00	62.37	48.60
179 178 177	3.35	0.05	3.40	198.85	0.00
179 178	23.66	0.00	23.66	261.22	48.60
176 178	73.03	0.00	73.03	396.01	0.00
176 178 177	0.00	0.00	0.00	0.00	0.00
176 178 179	0.00	0.00	0.00	396.01	0.00
177 178	81.60	0.00	81.60	0.00	0.00
177 178 179	3.32	0.00	3.32	0.00	0.00
177 178 176	3.55	0.00	3.55	0.00	0.00
94 179	50.63	0.00	50.63	5.81	0.00
94 179 178	0.00	0.00	0.00	215.52	0.00
94 179 93	3.01	0.00	3.01	548.04	0.00
178 179	23.66	0.00	23.66	396.01	0.00
178 179 93	3.52	0.00	3.52	0.00	0.00
178 179 94	3.75	0.20	3.96	396.01	0.00
93 179	160.00	0.00	160.00	917.72	48.60
93 179 94	0.00	0.00	0.00	925.34	0.00
93 179 178	3.35	0.00	3.35	48.60	48.60
113 180	9.00	0.00	9.00	83.58	11.10
113 180 203	37.36	2.30	39.66	83.58	11.10
81 180	10.29	0.00	10.29	2700.09	260.18
81 180 203	0.93	2.71	3.64	2567.67	249.08
81 180 113	0.93	2.28	3.21	132.43	11.10
81 181	47.02	0.00	47.02	201.35	60.60
81 181 618	0.00	0.00	0.00	201.35	60.60
115 181	12.00	0.00	12.00	11.05	0.00
115 181 618	3.14	0.00	3.14	11.05	0.00
201 200 511	3.20	0.97	4.17	1288.77	173.98

201	200		6.00	0.00	6.00	1288.77	173.98
107	200		9.00	0.00	9.00	76.96	0.00
107	200	511	30.42	1.12	31.55	43.98	0.00
107	200	201	30.44	0.87	31.31	32.98	0.00
511	200	201	6.72	1.81	8.53	733.54	162.88
511	200		20.40	0.00	20.40	733.54	162.88
202	201	200	3.00	0.00	3.00	1288.77	173.98
202	201	510	3.65	0.15	3.79	229.78	0.00
202	201		10.80	0.00	10.80	1518.54	173.98
200	201		6.00	0.00	6.00	766.52	162.88
200	201	510	0.00	0.00	0.00	27.50	0.00
200	201	202	0.00	0.00	0.00	739.02	162.88
510	201	202	3.62	0.36	3.98	437.73	0.00
510	201		27.00	0.00	27.00	437.73	0.00
104	202		20.40	0.00	20.40	998.23	173.98
104	202	106	19.07	2.23	21.31	32.66	0.00
104	202	201	18.69	4.06	22.75	965.57	173.98
139	202		18.00	0.00	18.00	552.97	0.00
139	202	106	21.36	0.00	21.36	0.00	0.00
139	202	201	8.89	5.54	14.43	552.97	0.00
139	202	104	21.36	0.00	21.36	0.00	0.00
201	202		10.80	0.00	10.80	1176.76	162.88

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
201	202	104	18.69	4.14	22.83	981.09	162.88
201	202	106	21.36	9.67	31.02	195.67	0.00
510	203	80	25.35	1.36	26.72	13.31	0.00
510	203	108	25.25	1.51	26.76	454.99	0.00
510	203		6.58	0.00	6.58	468.29	0.00
108	203		9.00	0.00	9.00	550.28	0.00
108	203	510	27.22	5.36	32.58	473.98	0.00
108	203	80	31.25	6.42	37.67	76.29	0.00
180	203		37.54	0.00	37.54	2651.25	260.18
180	203	510	3.33	0.09	3.42	88.16	0.00
180	203	80	3.23	4.29	7.52	2470.23	260.18
180	203	108	3.23	3.89	7.12	92.86	0.00
205	204	105	0.00	0.00	0.00	0.00	0.00
205	204	77	0.00	0.00	0.00	1497.99	162.88
205	204		19.80	0.00	19.80	1498.00	162.88
77	204		7.67	0.00	7.67	1740.35	162.88
77	204	205	0.00	0.00	0.00	1740.28	162.88
77	204	105	4.84	0.00	4.84	0.07	0.00
76	205		1.20	0.00	1.20	1503.04	162.88
76	205	103	0.00	0.00	0.00	5.38	0.00
76	205	204	0.00	0.00	0.00	1497.66	162.88
103	205		7.20	0.00	7.20	442.88	0.00
103	205	204	4.69	0.00	4.69	0.34	0.00
103	205	76	4.40	0.47	4.86	442.54	0.00
204	205		19.48	0.00	19.48	1740.28	162.88
204	205	76	0.00	0.00	0.00	1625.77	162.88
204	205	103	4.62	0.36	4.98	114.50	0.00
98	206		46.80	0.00	46.80	209.33	73.92
98	206	126	0.00	0.00	0.00	23.64	0.00
98	206	207	0.00	0.00	0.00	185.69	73.92
126	206		6.00	0.00	6.00	63.59	0.00
126	206	207	3.14	0.00	3.14	58.86	0.00
126	206	98	3.55	0.00	3.55	4.73	0.00
207	206	98	0.00	0.00	0.00	357.15	73.92
207	206	126	3.16	0.00	3.16	102.69	0.00
207	206		16.20	0.00	16.20	459.84	73.92
206	207		16.20	0.00	16.20	244.55	73.92
206	207	89	2.24	0.09	2.33	195.18	73.92
206	207	208	2.56	0.06	2.62	49.37	0.00
89	207		12.60	0.00	12.60	459.84	73.92
89	207	208	2.33	0.00	2.33	0.00	0.00
89	207	206	1.98	0.38	2.36	459.84	73.92
208	207	206	16.90	0.00	16.90	0.00	0.00
208	207	89	16.90	0.00	16.90	0.00	0.00
208	207		36.00	0.00	36.00	0.00	0.00
162	208		65.83	0.00	65.83	292.68	0.00

162	208	207	0.00	0.00	0.00	0.00	0.00
162	208	209	0.00	0.00	0.00	292.68	0.00
207	208		36.00	0.00	36.00	49.37	0.00
207	208	209	3.23	0.00	3.23	49.37	0.00
207	208	162	3.64	0.00	3.64	0.00	0.00
209	208	162	0.00	0.00	0.00	434.03	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLows	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
209	208	207	3.24	0.00	3.24	0.00	0.00
209	208		13.37	0.00	13.37	434.03	0.00
208	209		13.37	0.00	13.37	342.05	0.00
208	209	89	0.00	0.00	0.00	43.88	0.00
208	209	161	0.00	0.00	0.00	298.17	0.00
89	209		34.80	0.00	34.80	1.40	0.00
89	209	161	3.24	0.00	3.24	1.40	0.00
89	209	208	3.67	0.00	3.67	34.47	0.00
161	209		27.77	0.00	27.77	465.44	0.00
161	209	208	0.00	0.00	0.00	399.56	0.00
161	209	89	3.30	0.00	3.30	65.87	0.00
812	210	129	0.00	0.00	0.00	42.17	0.00
812	210	211	0.00	0.00	0.00	351.83	52.70
812	210		14.83	0.00	14.83	394.01	52.70
129	210		9.00	0.00	9.00	239.47	0.00
129	210	211	3.29	0.00	3.30	59.59	0.00
129	210	812	3.62	0.05	3.66	179.88	0.00
211	210	812	0.00	0.00	0.00	408.86	52.70
211	210	129	3.29	0.00	3.29	0.01	0.00
211	210		58.32	0.00	58.32	408.87	52.70
168	211		18.96	0.00	18.96	222.83	0.00
168	211	210	0.00	0.00	0.00	139.06	0.00
168	211	130	0.00	0.00	0.00	83.78	0.00
168	211	145	0.00	0.00	0.00	0.00	0.00
210	211		72.90	0.00	72.90	411.43	52.70
210	211	130	0.00	0.00	0.00	102.90	0.00
210	211	145	0.00	0.00	0.00	154.75	52.70
210	211	168	0.00	0.00	0.00	153.78	0.00
130	211		9.00	0.00	9.00	408.31	0.00
130	211	145	3.13	0.00	3.13	0.00	0.00
130	211	168	3.33	0.08	3.41	300.69	0.00
130	211	210	3.29	0.00	3.29	107.62	0.00
145	211		9.00	0.00	9.00	162.19	52.70
145	211	168	0.00	0.00	0.00	0.00	0.00
145	211	210	0.00	0.00	0.00	162.19	52.70
145	211	130	3.25	0.00	3.25	0.00	0.00
608	212	117	5.81	1.10	6.91	203.88	0.00
608	212	96	5.80	0.82	6.61	222.59	73.92

608	212		28.80	0.00	28.80	426.47	73.92
96	212		17.10	0.00	17.10	669.91	73.92
96	212	608	5.64	2.54	8.18	669.91	73.92
216	212	608	11.73	23.20	34.94	18.79	0.00
216	212	117	10.00	60.81	70.81	536.79	0.00
216	212	96	55.16	0.00	55.16	0.00	0.00
216	212		18.00	0.00	18.00	555.58	0.00
136	215		7.20	0.00	7.20	693.42	43.42
136	215	74	10.76	2.81	13.57	331.85	0.00
136	215	73	10.80	1.16	11.96	361.57	43.42
73	215		3.60	0.00	3.60	1625.05	172.70
73	215	136	4.11	3.21	7.33	1316.36	172.70
73	215	74	8.22	4.34	12.56	308.69	0.00
72	215		61.80	0.00	61.80	1290.15	0.00

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER ANODE BNODE CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLWS TOTAL	(PCU/HR) FIXED
72 215 136	18.20	5.87	24.07	109.75	0.00
72 215 74	18.20	6.08	24.28	1440.31	33.60
72 215 73	17.93	5.90	23.84	13.82	0.00
164 216	28.80	0.00	28.80	254.30	0.00
164 216 212	0.00	0.00	0.00	0.23	0.00
164 216 163	0.00	0.00	0.00	254.08	0.00
163 216	14.40	0.00	14.40	649.28	0.00
163 216 164	0.00	0.00	0.00	93.93	0.00
163 216 212	3.19	0.16	3.36	555.35	0.00
302 300 301	0.00	0.00	0.00	749.13	64.70
302 300 69	0.00	0.00	0.00	1031.45	37.62
302 300	14.98	0.00	14.98	1780.58	102.32
32 300	3.44	0.00	3.44	254.51	0.00
32 300 301	5.46	0.61	6.07	149.83	0.00
32 300 69	4.54	0.07	4.62	104.68	0.00
300 301	3.74	0.00	3.74	898.96	64.70
300 301 33	0.00	0.00	0.00	280.84	0.00
300 301 37	0.00	0.00	0.00	618.12	64.70
18 302	3.60	0.00	3.60	1185.03	89.00
18 302 300	0.00	0.00	0.00	1626.34	89.00
23 302	22.63	0.00	22.63	154.24	13.32
23 302 300	0.00	0.00	0.00	154.24	13.32
502 501 161	0.00	0.00	0.00	264.00	0.00
502 501 100	0.00	0.00	0.00	1074.77	208.68
502 501 102	0.00	0.00	0.00	60.15	0.00
502 501	20.57	0.00	20.57	1398.92	208.68
161 501	4.86	0.00	4.86	347.53	11.10
161 501 100	3.88	0.21	4.09	239.27	0.00
161 501 102	3.48	0.00	3.48	108.25	11.10
102 501	27.00	0.00	27.00	197.16	11.10

102	501	161	4.16	0.10	4.26	172.98	0.00
102	501	100	4.42	0.00	4.42	24.18	11.10
503	502	87	23.21	3.56	26.77	215.52	0.00
503	502	501	23.21	12.83	36.04	745.56	208.68
503	502	14	23.25	25.40	48.65	225.39	0.00
503	502		38.88	0.00	38.88	1186.48	208.68
87	502		5.94	0.00	5.94	1628.08	136.08
87	502	501	16.64	4.98	21.62	73.66	0.00
87	502	14	16.65	6.21	22.86	1554.42	136.08
14	502		5.33	0.00	5.33	1185.28	111.78
14	502	87	18.57	5.86	24.42	1134.79	111.78
14	502	501	23.21	11.57	34.78	50.49	0.00
70	502		15.43	0.00	15.43	1134.10	0.00
70	502	87	13.83	32.45	46.28	604.88	0.00
70	502	501	13.83	32.33	46.16	529.20	0.00
70	502	14	93.31	0.00	93.31	0.03	0.00
504	503	502	2.80	0.33	3.13	813.04	208.68
504	503	5	2.80	0.31	3.11	199.38	0.00
504	503		17.07	0.00	17.07	1012.42	208.68
85	503		4.48	0.00	4.48	1200.18	13.32
85	503	502	6.72	11.40	18.12	373.44	0.00
85	503	5	6.72	10.51	17.24	826.74	13.32



SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
505	504	83	23.27	1.00	24.27	67.27	0.00
505	504	503	23.26	4.93	28.19	954.04	208.68
505	504		17.38	0.00	17.38	1021.31	208.68
4	504		9.36	0.00	9.36	1774.83	13.32
4	504	83	4.56	4.39	8.95	1716.45	13.32
4	504	503	4.52	3.78	8.30	58.38	0.00
512	505	99	0.00	0.00	0.00	0.00	0.00
512	505	504	0.00	0.00	0.00	603.82	208.68
512	505	3	0.00	0.00	0.00	352.97	78.02
512	505		3 2.71	0.00	32.71	956.79	286.70
99	505		4.68	0.00	4.68	1394.90	0.00
99	505	504	3.31	0.18	3.49	319.77	0.00
99	505	3	3.40	0.31	3.71	1075.13	0.00
3	505		11.70	0.00	11.70	98.10	0.00
3	505	99	3.77	0.00	3.77	0.37	0.00
3	505	504	4.75	0.05	4.80	97.72	0.00
508	506	512	21.47	5.93	27.40	845.34	262.40
508	506	151	21.46	6.32	27.78	113.51	0.00
508	506		6.12	0.00	6.12	958.84	262.40
507	506	512	16.70	4.22	20.92	77.99	0.00
507	506	151	16.70	4.48	21.17	433.53	71.70
507	506	81	16.60	4.46	21.06	34.14	0.00
507	506		5.85	0.00	5.85	545.65	71.70
1	506		13.35	0.00	13.35	1050.65	40.40
1	506	81	20.00	45.93	65.93	1227.42	40.40
614	507	506	27.22	4.59	31.81	280.58	71.70
614	507	81	27.22	5.88	33.10	250.94	0.00
614	507		5.18	0.00	5.18	531.52	71.70
99	507		31.89	0.00	31.89	1514.95	208.68
99	507	506	4.36	1.82	6.17	265.08	0.00
99	507	81	4.36	1.72	6.08	1249.87	208.68
617	508	81	37.36	1.31	38.66	62.91	60.60
617	508	506	37.35	15.87	53.22	133.23	0.00
617	508		12.64	0.00	12.64	196.14	60.60
510	508	81	1.74	0.03	1.77	76.15	11.10
510	508	506	1.73	0.15	1.87	836.72	273.50
510	508		45.26	0.00	45.26	912.86	284.60
511	510	203	6.47	0.31	6.78	85.30	0.00
511	510	508	6.35	1.91	8.26	816.39	284.60
511	510	201	6.35	1.81	8.16	141.58	0.00
511	510		14.50	0.00	14.50	1043.28	284.60
203	510		5.76	0.00	5.76	562.14	0.00
203	510	508	7.79	3.38	11.18	69.02	0.00
203	510	201	7.81	3.29	11.10	493.12	0.00
201	510		27.00	0.00	27.00	257.27	0.00
201	510	203	20.00	3.10	23.10	382.99	0.00

201	510	508	28.82	0.72	29.55	27.45	0.00
143	511		5.14	0.00	5.14	740.29	260.18
143	511	80	11.25	0.00	11.25	0.00	0.00
143	511	510	11.25	1.76	13.01	647.13	260.18
143	511	200	11.27	1.40	12.66	93.16	0.00
80	511		3.84	0.00	3.84	1024.94	176.20

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLows	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
80	511	510	15.56	1.41	16.97	395.66	24.42
80	511	200	15.56	1.01	16.57	640.38	162.88
200	511		20.40	0.00	20.40	1332.74	173.98
200	511	80	12.96	8.75	21.72	1332.25	173.98
200	511	510	9.97	9.44	19.41	0.49	0.00
506	512		1.03	0.00	1.03	923.32	262.40
506	512	505	0.00	0.00	0.00	923.32	262.40
1	512		24.69	0.00	24.69	9.16	0.00
1	512	505	3.75	0.00	3.75	33.46	24.30
142	600		4.50	0.00	4.50	2440.53	33.60
142	600	601	0.00	0.00	0.00	2440.53	33.60
601	600	142	0.00	0.00	0.00	1635.91	201.60
601	600		19.80	0.00	19.80	1635.91	201.60
600	601		19.80	0.00	19.80	2440.53	33.60
600	601	602	0.00	0.00	0.00	2440.53	33.60
616	601	602	6.30	2.21	8.51	294.62	0.00
616	601		35.71	0.00	35.71	294.62	0.00
602	601	615	0.00	0.00	0.00	189.02	0.00
602	601	600	0.00	0.00	0.00	1635.91	201.60
602	601		26.32	0.00	26.32	1824.92	201.60
601	602		26.32	0.00	26.32	2735.15	33.60
601	602	603	0.00	0.00	0.00	2735.15	33.60
603	602	614	0.00	0.00	0.00	234.66	0.00
603	602	601	0.00	0.00	0.00	1824.92	201.60
603	602		15.21	0.00	15.21	2059.59	201.60
602	603		15.21	0.00	15.21	2735.15	33.60
602	603	618	0.00	0.00	0.00	213.21	0.00
602	603	604	0.00	0.00	0.00	2521.94	33.60
604	603	602	0.00	0.00	0.00	2059.59	201.60
604	603		29.79	0.00	29.79	2059.59	201.60
603	604		29.79	0.00	29.79	2521.94	33.60
603	604	605	0.00	0.00	0.00	2521.94	33.60
84	604		22.75	0.00	22.75	293.91	0.00
84	604	605	6.49	2.51	9.00	293.91	0.00
605	604	603	0.00	0.00	0.00	1891.88	201.60
605	604		32.81	0.00	32.81	1891.88	201.60
610	604	603	5.13	0.32	5.45	167.71	0.00
610	604		33.70	0.00	33.70	167.71	0.00

604	605		32.81	0.00	32.81	2815.85	33.60
604	605	606	0.00	0.00	0.00	2815.85	33.60
606	605	609	0.00	0.00	0.00	362.10	0.00
606	605	604	0.00	0.00	0.00	1891.88	201.60
606	605		4.05	0.00	4.05	2253.97	201.60
605	606		4.05	0.00	4.05	2815.85	33.60
605	606	620	0.00	0.00	0.00	718.38	0.00
605	606	607	0.00	0.00	0.00	2097.48	33.60
607	606	605	0.00	0.00	0.00	2253.97	201.60
607	606		14.63	0.00	14.63	2253.97	201.60
606	607		14.63	0.00	14.63	2097.48	33.60
606	607	123	0.00	0.00	0.00	2097.48	33.60
123	607		4.50	0.00	4.50	2253.97	201.60
123	607	606	0.00	0.00	0.00	2253.97	201.60

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER	TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)		
ANODE BNODE CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED		
88	608		3.60	0.00	3.60	927.54	60.60
88	608	212	2.74	0.41	3.15	285.94	60.60
88	608	164	4.71	97.00	101.71	641.60	0.00
123	608		7.20	0.00	7.20	1237.06	98.34
123	608	212	9.33	4.66	14.00	140.53	13.32
123	608	164	9.33	5.11	14.44	1096.53	85.02
123	608	88	14.40	0.00	14.40	0.00	0.00
212	608		28.80	0.00	28.80	688.70	73.92
212	608	164	10.51	0.64	11.15	1.06	0.00
212	608	88	9.06	2.39	11.45	687.65	73.92
605	609		14.22	0.00	14.22	362.10	0.00
605	609	610	5.48	11.82	17.30	362.10	0.00
157	609		4.90	0.00	4.90	574.17	85.02
157	609	610	0.00	0.00	0.00	994.90	85.02
86	610		4.05	0.00	4.05	1304.73	162.72
86	610	95	10.17	34.17	44.34	1192.60	162.72
86	610	611	42.19	100.50	142.69	49.00	0.00
86	610	604	42.19	154.62	196.81	63.12	0.00
609	610		11.38	0.00	11.38	1357.00	85.02
609	610	95	56.39	4.83	61.22	3.17	0.00
609	610	611	16.34	36.15	52.49	745.14	85.02
609	610	604	154.71	89.40	244.1	58.72	0.00
609	610	86	17.41	193.45	210.85	549.97	0.00
95	610		32.40	0.00	32.40	1991.59	138.42
95	610	611	120.52	0.00	120.52	0.00	0.00
95	610	604	75.38	54.98	130.35	45.87	0.00
95	610	86	10.76	121.93	132.69	1945.72	138.42
84	611		3.24	0.00	3.24	1792.38	0.00
84	611	155	2.61	0.62	3.23	1405.29	0.00
84	611	612	2.61	0.38	2.99	387.09	0.00

610	611		44.35	0.00	44.35	794.15	85.02
610	611	155	13.88	3.46	17.35	223.50	13.32
610	611	612	13.88	3.32	17.21	570.65	71.70
611	612		17.86	0.00	17.86	957.74	71.70
611	612	613	17.34	7.05	24.38	496.55	71.70
611	612	82	17.36	67.58	84.94	461.19	0.00
153	612		31.50	0.00	31.50	1845.05	13.32
153	612	82	6.78	6.97	13.75	1845.05	13.32
612	613		4.05	0.00	4.05	496.55	71.70
612	613	619	0.00	0.00	0.00	496.55	71.70
153	613		28.80	0.00	28.80	0.05	0.00
153	613	619	3.20	0.00	3.20	0.05	0.00
602	614		14.94	0.00	14.94	234.66	0.00
602	614	507	3.20	0.02	3.22	234.66	0.00
619	614	507	0.00	0.00	0.00	296.86	71.70
619	614		35.64	0.00	35.64	296.86	71.70
601	615		26.93	0.00	26.93	189.02	0.00
601	615	79	3.97	0.12	4.09	189.02	0.00
151	615		22.32	0.00	22.32	1043.48	85.02
151	615	79	0.00	0.00	0.00	1043.48	85.02
104	616		14.40	0.00	14.40	488.45	60.60
104	616	617	0.00	0.00	0.00	193.83	60.60

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

SIMULATION/BUFFER			TRAVEL	TIMES	(SECONDS)	FLOWS	(PCU/HR)
ANODE	BNODE	CNODE	FIXED	VARIABLE	TOTAL	TOTAL	FIXED
104	616	601	0.00	0.00	0.00	294.62	0.00
616	617		27.86	0.00	27.86	193.83	60.60
616	617	508	0.00	0.00	0.00	193.83	60.60
151	617		8.74	0.00	8.74	2.31	0.00
151	617	508	3.12	0.00	3.12	2.31	0.00
181	618		10.72	0.00	10.72	212.39	60.60
181	618	82	0.00	0.00	0.00	212.39	60.60
603	618		15.39	0.00	15.39	213.21	0.00
603	618	82	3.15	0.01	3.16	213.21	0.00
613	619		16.20	0.00	16.20	496.61	71.70
613	619	152	0.00	0.00	0.00	199.75	0.00
613	619	614	0.00	0.00	0.00	296.86	71.70
86	620		39.60	0.00	39.60	346.69	60.60
86	620	88	0.00	0.00	0.00	346.69	60.60
606	620		19.80	0.00	19.80	718.38	0.00
606	620	88	3.22	0.20	3.42	718.38	0.00
56	803		9.36	0.00	9.36	599.06	48.60
56	803	57	0.00	0.00	0.00	599.06	48.60
804	803	57	0.00	0.00	0.00	0.00	0.00
804	803		2.25	0.00	2.25	0.00	0.00
58	804		10.50	0.00	10.50	494.08	0.00
58	804	56	0.00	0.00	0.00	494.08	0.00
58	804	803	0.00	0.00	0.00	0.00	0.00
54	805		11.08	0.00	11.08	1027.29	22.20
54	805	66	15.12	6.03	21.15	35.58	0.00
54	805	57	15.60	5.46	21.06	890.70	22.20
54	805	56	32.09	2.43	34.52	101.00	0.00
66	805		15.30	0.00	15.30	501.04	40.40
66	805	57	20.00	4.16	24.16	94.21	40.40
66	805	56	20.00	4.24	24.24	523.39	0.00
57	805		10.80	0.00	10.80	543.48	89.48
57	805	56	11.75	0.01	11.76	1.26	0.00
57	805	54	11.73	2.11	13.84	462.27	49.08
57	805	66	30.10	1.94	32.04	79.95	40.40
56	805		8.70	0.00	8.70	349.30	0.00
56	805	54	8.68	0.90	9.58	118.73	0.00
56	805	66	8.68	0.71	9.40	230.57	0.00
57	806		9.42	0.00	9.42	1044.30	111.20
57	806	808	0.00	0.00	0.00	1044.30	111.20
57	806	58	0.00	0.00	0.00	0.00	0.00
807	806	58	3.44	0.04	3.48	393.59	0.00
807	806		3.60	0.00	3.60	393.59	0.00
59	807		5.28	0.00	5.28	484.68	0.00
59	807	808	0.00	0.00	0.00	91.09	0.00
59	807	806	0.00	0.00	0.00	393.59	0.00
806	808		2.49	0.00	2.49	1044.30	111.20

806	808	60	0.00	0.00	0.00	1044.30	111.20
807	808		2.95	0.00	2.95	91.09	0.00
807	808	60	3.98	0.02	3.99	91.09	0.00
811	810	165	0.00	0.00	0.00	772.26	0.00
811	810		4.50	0.00	4.50	772.26	0.00
51	810		14.10	0.00	14.10	493.28	37.62

SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024

SIMULATION/BUFFER ANODE	BNODE	CNODE	TRAVEL FIXED	TIMES VARIABLE	(SECONDS) TOTAL	FLows TOTAL	(PCU/HR) FIXED
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51	810	165	3.29	0.03	3.32	493.28	37.62
61	811		15.60	0.00	15.60	835.68	62.60
61	811	51	0.00	0.00	0.00	63.42	62.60
61	811	810	0.00	0.00	0.00	772.26	0.00
166	812		22.92	0.00	22.92	4.62	0.00
166	812	91	0.00	0.00	0.00	0.79	0.00
166	812	210	0.00	0.00	0.00	3.84	0.00
91	812		62.93	0.00	62.93	390.17	52.70
91	812	210	0.00	0.00	0.00	390.17	52.70
91	812	166	0.00	0.00	0.00	0.00	0.00
210	812		13.48	0.00	13.48	588.73	52.70
210	812	166	0.00	0.00	0.00	139.41	0.00
210	812	91	0.00	0.00	0.00	449.32	52.70
170	813		28.92	0.00	28.92	746.93	0.00
170	813	168	0.00	0.00	0.00	711.91	0.00
170	813	169	0.00	0.00	0.00	35.01	0.00
168	813		11.68	0.00	11.68	531.95	75.24
168	813	169	0.00	0.00	0.00	75.24	75.24
168	813	170	0.00	0.00	0.00	456.71	0.00
169	813		33.92	0.00	33.92	39.96	39.96
169	813	170	0.00	0.00	0.00	94.88	0.00
169	813	168	0.00	0.00	0.00	39.96	39.96
53	814		47.04	0.00	47.04	347.76	0.00
53	814	94	3.00	0.00	3.00	347.76	0.00
53	814	52	4.72	0.00	4.72	0.00	0.00
94	814		56.70	0.00	56.70	9.38	0.00
94	814	52	0.00	0.00	0.00	68.85	0.00
94	814	53	3.00	0.00	3.00	896.01	0.00
52	814		140.40	0.00	140.40	0.00	0.00
52	814	53	0.00	0.00	0.00	0.00	0.00
52	814	94	0.00	0.00	0.00	0.00	0.00
35	815		25.70	0.00	25.70	517.61	0.00
35	815	816	0.00	0.00	0.00	517.61	0.00
816	815	35	0.00	0.00	0.00	0.40	0.00
816	815		14.48	0.00	14.48	0.40	0.00
815	816		13.32	0.00	13.32	517.61	0.00
815	816	35	4.44	0.00	4.44	0.00	0.00
815	816	73	4.49	1.38	5.87	517.61	0.00

35	816		17.76	0.00	17.76	1008.50	43.42
35	816	73	0.00	0.00	0.00	1008.50	43.42
73	816		12.37	0.00	12.37	744.36	43.42
73	816	815	0.00	0.00	0.00	0.40	0.00
73	816	35	0.00	0.00	0.00	743.96	43.42

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

**SUMMARY STATISTICS FOR THE ASSIGNMENT NETWORK**

**NOTES:**

1. ALL COSTS ARE CALCULATED BASED ON THE VALUES OF:  
 1.00 PENCE PER MINUTE AND 0.00 PENCE PER KILOMETER
2. ALL TOTALS GIVEN ARE EXPRESSED AS RATES PER HOUR AS  
 OPPOSED TO ABSOLUTE TOTALS DURING THE TIME PERIOD SIMULATED;  
 TO OBTAIN ABSOLUTE TOTALS MULTIPLY BY LTP/60. = 1.00
3. ALL THESE FIGURES REFER TO THE DEMAND FOR TRIP MAKING,  
 I.E., THEY IGNORE VEHICLES UNABLE TO COMPLETE THEIR TRIPS  
 DUE TO OVER-CAPACITY JUNCTIONS
4. TOTAL TIMES DO NOT INCLUDE PENALTIES - THESE APPEAR  
 SEPARATELY.
5. SIMULATION DELAYS ARE TAKEN FROM THE FINAL ASSIGNMENT

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

**BUS FLOWS (IN TERMS OF PCUS)**

LINK TYPE PER HOUR	PCU-HOURS PER HOUR	PCU-KMS PER HOUR	PCU-PENCE KPH	AVER. SPEED
SIMULATION LINKS	147.9	8273.8	8872.7	56.0
SIMULATION TURNS	100.1			
SIMULATION C.C.S	0.0	0.0	0.0	0.0
SUB-TOTALS	248.0	8273.8	14880.6	33.4

**SUMMARY OF TRIP TOTALS - BUS FLOWS**

**ORIGINS DESTINATIONS**

INNER SIMULATION	0.0	0.0
EXTERNAL SIMULATION	0.0	0.0
SUB-TOTAL	0.0	0.0

N.B. THE ABOVE SUMMARY ALSO REFERS TO TOTAL FIXED FLOWS

**SIMULACION NUEVOS ARCOS PUNTA MAÑANA 2024**

**TOTAL FLOWS - FIXED PLUS ASSIGNED**

LINK TYPE PER HOUR	PCU-HOURS PER HOUR	PCU-KMS PER HOUR	PCU-PENCE KPH	AVER. SPEED
SIMULATION LINKS	2006.3	106947.6	120378.4	53.3
SIMULATION TURNS	1235.7			
SIMULATION C.C.S	0.0	0.0	0.0	0.0
SUB-TOTALS	3242.0	106947.6	194519.7	33.0

**SUMMARY OF TRIP TOTALS - TOTAL FLOWS**

**ORIGINS DESTINATIONS**

INNER SIMULATION	18252.6	16901.7
EXTERNAL SIMULATION	19095.4	20446.3
SUB-TOTAL	37348.0	37348.0

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NORMAL COMPLETION OF PROGRAM SATASS  
THERE HAVE BEEN 0 NON-FATAL ERRORS



FILES CURRENTLY IN USE:  
CHANNEL FILE NAME

1 MODIFICA.UFS  
2 MODIFICA.UFA  
5 C:\SATURN10\DAT\SATASS0.DAT  
6 MODIFICA.LPA  
9 M-2024.UFM

CPU TIME = 1.63 SECONDS

TOTAL CPU TIME TO DATE = 14.20 SECONDS

COMPLETION CODE - 0

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