

GOVERNMENT OF MALAYSIA

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

FINAL REPORT

HIGHWAY PROJECT

APPENDIX

JUNE 1989

JAPAN INTERNATIONAL COOPERATION AGENCY

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APPENDIX TO CHAPTER 2

Future Traffic Demand Forcasting

Table 2.1: Traffic Zone Plan

		Master (C Zo	A Committee of the Comm	Feasibility Study	
A Zone B Zone	For Model Calibra- tion	For Planning	For Traffic Assignment (C Zone)	Zone Name	
1 KUALA	1 CPA	1	1	1	Dewan Bandaraya
LUMPUR	CIA	2	2 3	2	Bukit Nanas Bukit Bintang
		3	4	3	Pasar Besar
			5		Jalan Sultan
			6	8	Stadium Merdeka
$x = \frac{1}{x_{M_{\bullet}}} \frac{x_{M_{\bullet}}}{x_{M_{\bullet}}}$				9 	Selangor Club
9		4	8	4	Jalan Raja Laut
			9		General Hospital
		ر مانساندانداند بالمانساندانداندانداندانداندانداندانداندانداندا	10		Jalan Raja Uda
		5	11 12	5	Ampang Complex Padang Race Track
		6	13	6	Pudu
		7	14 15	7	Jalan Loke Yew Choo Cheng•Khay
		8	16	8	Jalan Dato Onn
			17	9	Lake Garden
· · · · · · · · · · · · · · · · · · ·	2	9	18	10	Sentul
	KEPONG	10	19		Taman Segambut
		11	20	11	Kg. Chubadak
			21	•	Kg. Batu Muda
		: 	22		Kg. Batu
		12	23		Taman Kok Lian
	•	13	24	12	Taman Kok Doh
	:		25		Kg. Batu Delima
	· .	14	26	13	Jinjang Utara
			27		Kepong North
		به جه آب این این این این بین دید سد سا	28	<i>₹</i>	Kg. Kepong
			29		Kepong

			Plan one)	Feasibility Study	
A Zone	B Zone	For Model Calibra- tion	For Planning	For Traffic Assignment (C Zone)	Zone Name
1 (Cont.)	2 (Cont.)	15	30 31	12	Kepong Bahru Taman Kepong
		16	32 33	14	Bt. Tunku Kg. Segambut
		17	34 35	15	Taman Bt. Maluri South of Taman Bt. Maluri
	3	18	36	16	Taman Tasik Titiwangsa
		19	37 38	17	Kg. Puah Taman Ibu Kota
		20	39		Taman Bunga Raya
		21	40 41 42 43	18	Taman Air Panas Setapak Jaya Wangsa Maju South of Wangsa Maju
	•	22	44 45	19	U.T.M. Kg. Datuk Keramat
	4 AMPANG	23	46 47 48	20	Taman U-Thant Padang Polo Kelab Padang Golf Kelab
			49 50	21	Taman Maluri South of Taman Maluri
	5 CHERAS	24	51 52	22	Pudu Hulu Kg. Cheras Baru
			53	23	Taman Cheras
		25	54	24 25	Taman Ikan Emas
			55	26 27	Bandar Tun Razak
			56	28	Taman Mutiara Barat

		Master (C Zo	Plan one)	Feasibility Study	
A Zone	B Zone	For Model Calibra- tion	For Planning	For Traffic Assignment (C Zone)	Zone Name
1 (Cont.)	5 (Cont.)	26	57	29	Taman Batu Cheras
(COITE:)	(COIIC.)	27	58 59	30 31	Sungei Besi East of Sungei Besi
	6	28	62	32	Bt. Seputih
	OUG	29	60 61	33	Salak South T.U.D.M.
		30	64	34	Kg. Pantai
		31	63	35	Taman Desa
		32	65 66	36 37	Kg. Melayu
	. A. 	33	67	38 39	Taman Sri Petaling
			68	40 41	Taman Gembira
			69	42 43	Taman O.U.G.
tig i a serie	· · · · · · · · · · · · · · · · · · ·		70	44	Bt. Jalil East
			71	45 46	Bt. Jalil West
	7 DAMANSARA	34 A	72 73	47	Taman Duta
	* * * * * * * * * * * * * * * * * * *	35	78	48	Taman Tun Dr. Ismail
		36 36	74 75 76	49	Taman Bandaraya Taman Bangsar Taman Bt. Pantai
	WILL MAN	36	79	50	University Malaya
		37	77	49	Brickfield

(Cont.d)

		Master (C Z	one)	Feasibility Study	
A Zone	B Zone	For Model Calibra-	For Planning	For Traffic Assignment	Zone Name
		tion	- 	(C Zone)	
2	8	38	80	51	Batu Arang
GOMBAK	GOMBAK WEST	39	81		Rawang
. '		ek <u>nija</u>	<u> </u>		
	and the second	40	82	53	Kg. Kundang
			83		Kuang
		41	84	54	Kg. Sg. Tua
•		$\gamma_{i,j+1}, \gamma_{i,j} = \gamma_{i,j+1}, \ldots, \gamma_{i,j}$	85		Sri Gombak
• •			86		Hulu Gombak
		42	87	55	Batu
			88		Taman Desa Jaya
		· · · · · · · · · · · · · · · · · · ·	89		Bandar Baru Selayang
	9	43	90	56	Taman Melewar
	GOMBAK		91		Setapak
	EAST	4.4			raininininininininininininininininininin
		44	92	57	Kg. Hulu Klang Dalam
		45	93	a "	Kg. Hulu Klang
			94		Taman Keramat
3	10	46	95	58	Ampang
HULU	HULU	40	96	59	Ampang
LANGAT	LANGAT				e reger eren ge Die bestel des de la de la
* 1	NORTH	47	97	60	Hulu Langat
	**************************************	48	98	61	Cheras
	11	49	99	62	Bandar Baru Bangi
•	HULU		100	63	Bandar Baru Bangi
	LANGAT		101	64	Kajang
	SOUTH	50	102	65	Bangi
		51	103	66	Hulu Semenyih
•		52	104	67	Kg. Sg. Purun
		32	105	68	Semenyih
			106	69	Beranang

		Master (C Zo		Feasibility Study	
A Zone B Zone	For Model Calibra- tion	For Planning	For Traffic Assignment (C Zone)	Zone Name	
4	12	53	107	70	S 11, 12, 52
PETALING	PETALING JAYA	54	108	71	s 13
		55	109		S 16, 17
		56	110 111	72	S 14, 20, 21, 22 S 51 A
		57	112	73	S 52, 7, 8
		58	113		S 5, 6, 9, 10
	•	59	114 115	74	S 51 S 1, 2, 3, 4, 18
		est of the following the second secon	116	75	Jalan Klang Lama
		60	117	76	SS 20, SS 21
		61	118	77	S 19, SS 2
		62	119		SS 22, 23, 24, 25
		63	120	78	SS 1, 3
-		64	121		SS 9, 8
		65	122 123	79	SS 4, 5, 6, 7 SS 11
	13	66	124	80	Batu Tiga North
	SHAH ALAM		125 126	81 82	Government I.T.M.
		67	127	83	Shah Alam New Town
			128 129	84 85	Shah Alam New Town Shah Alam New Town
			130	86	Batu Tiga South
			131	87 	HICOM
		68	132	88	Shah Alam New Town
·			133	89	Shah Alam New Town
			134	90	Shah Alam New Town
		:	135	91	Shah Alam New Town
			136	92	Shah Alam New Town

Cont.d

		Master (C Zo	Plan one)	Feasibility Study	
A Zone	B Zone	For Model	For	For Traffic	Zone Name
		Calibra-	Planning	Assignment	
		tion	· ·	(C Zone)	
4	14	69	137	93	SS 12, 13, 14
(Cont.)	PETALING	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	120	94	SS 16, 17, 18, 19
	SOUTH		138	95	Damansara
		70	139	96	Puchong
				97	
	4.	建铁铁铁矿		98	
				99	
		71	140	100	Serdang
	15	72	141	101	Bt. Raja
	PETALING	72	140	102	Cungai Dulah
	NORTH	73	142 143	102	Sungai Buloh Kg. Bt. Lanjan
	. '		ingingni nangaran. TAD		wy. De. Lanjan
	· · .		144	103	Kg. Subang
		74	145	104	Subang Airport
	·	75	146	105	South of Subang Airport
5	16	76	147	106	Klang North Town Centre
KLANG	KLANG		148		Klang North Town Centre
	CENTRAL		149	108	Klang North Town Centre
	** *	77	150	109	Klang South Town Centre
			151	110	Klang South Town Centre
				111	
		78	152	112	Kg. Telok Gadong Besar
				113	
				114	
			153	116	Port Klang Town Centre
		79	154	115	Kg. Tk. Pulai
		80	155	117	South Port
			156	118	Kg. Jawa
	17	81	TOO		J =
	17 KLANG	81	130		
	17 KLANG SOUTH	81	130	119	in The Committee of the
	KLANG	81	157		Kg. Bahru Batu Lima
	KLANG	81		119	Kg. Bahru Batu Lima Kg. Tk. Gong

Cont.d

A Zone B Zone		Master (C Z	,	Feasibility Study	
		For Model Calibra- tion	For Planning	For Traffic Assignment (C Zone)	Zone Name
5	18	82	160	123	Kapar
(Cont.)	KLANG NORTH	83	161	124	Meru
		84	162 163	125 126 127	Kg. Batu Empat Kg. Batu Belah
			164	128	Klang North Port
		85	165	129	North Port
6	19	86	167	130	Bukit Tinggi, Pahang
BUKIT TINGGI	BUKIT TINGGI				
7 & 8 EXTERNA	20 L SEPANG	87	167	131	Sepang, Selangor
AREA	21	88 89	168 169	133 134	Kuala Selangor, Selangor Sabak Bernam, Selangor
. 4	21	90	170	135	Ulu Selangor, Selangor
	20	91	171	132	Kuala Langat, Selangor
	21	92	172	136	Perak and North
	22	93	173	137	Pahang and East Coast excluding Bukit Tinggi
	20	94	174	138	Negeri Sembilan and South

TABLE 2.2: POPULATION BY TRAFFIC ZONE, 1985

1000	100	*	and the second		100		
ZONE I	WORKER	STUDENT	H.WIFE	JOBLESS	SUB T.	BELOW 6	TOTAL
1 I	5080	2930	1040	760	9810	1690	11500
2 1	1.00 Per 1.0		1110	720		1890	
3 I		4 4 7 4	790		7110		8300
4 I	and the second s				65410	11490	76900
5 I		4630	and the same of th		14560	2530	
6 I		The second secon	3570	2020	32350	5560	37910
7 1		12250		and the second s	and the second s	8660	50610
8 I		1475		60		920	3945
9 I	and the state of t		175		3415	1050	4465
10 I				4500	55090	9710	64800
11 I		14630	5960	4610	49580	841C	57990
12 I	the state of the s	4.74	7960	5630	67310	11210	78520
13 I	* · ·	and the second s	6380	3420	47950	8260	56210
14 /1	2920		990	630	6440	1160	7600
15 I		2390	990	760	7500	1310	8810
16 I		6180	2540	1530			22100
17 I	24250	17930	6790		53270		
18 I	12090	8800	3960	1930	26780		
19 I	18620	12090	6490		39890		
20 1	15420	9140	4140		31450		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 I	17650		4720				
22 I	8677	5668	2496		18251		
23 I			1344				
24 I			1718	1054	13692	2390	
25 I	and the second second		1074	658	8557		10051
26 I		the state of the s	1289	790		1793	12062
27 I		34 20					12062
28 I			1790	1098		and the second second	16753
29 I		3200	1310			1500	10890
30 I			2653		4.5		
31 I						· ·	
32 I					and the second s		
33 I			2780	1530			
34 I			5010		36470	and the second second second	
35 I		7540	3580				
36 · I		5200	2040	11 80		2750	19100
37 I		1850				and the second of the second	
38 I			1804		13506	2410	15916 11935
.39 I		3235	1353		10128 12156	1807	and the second of the second o
49 I		3883	1624 902	962 479	6753	2169 1205	
41 1	and the second s	2157					15119
42 I		4098 3983	1714 1624	910 362	12830 12156	2289 2169	14325
43 I 44 I		609	and the second s	136	1910	339	2249
44 I			292	156	2184	338	2572
45 I 46 I		435	183	-98	1366	243	1609
40 I 47 I			1770	1160	15590	2710	18309
49 1		4340	1060	2220	14550	2450	17000
49 I		22060	6660	5260	65020	9790	74810
50 I		2040	590	510	6060	1040	7100
20 k	2720	2070	,,0	240	5000	10.10	

TABLE 2.2 (Cont.)

20NE I WORKER STUDENT H.WIFE JOBLESS SUB T. BELOW 6 TOTAL			4.15						
52 I 9060 6500 3450 2040 21050 4350 25401 53 I 3930 2960 1690 850 9430 1870 11300 54 I 34590 24080 11240 7300 77210 15990 93200 55 I 13260 8700 4040 2910 28910 6080 34990 56 I 10320 7740 3880 2550 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 59 I 15728 11176 3712 3348 33964 6080 40644 60 I 5390 4990 2690 2560 15620 2980 18600 61 I 3100 6560 1970 2180 18810 3700 22510 62 I 8100 6560 2970 2180 18810 3700 22510 63 I 11760	ZONE	I	WORKER	STUDENT	H.WIFE .	JOBLESS	SUB T.	BELOW 6	TOTAL
52 I 9060 6500 3450 2040 21050 4350 25401 53 I 3930 2960 1690 850 9430 1870 11300 54 I 34590 24080 11240 7300 77210 15990 93200 55 I 13260 8700 4040 2910 28910 6080 34990 56 I 10320 7740 3880 2550 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 59 I 15728 11176 3712 3348 33964 6080 40644 60 I 5390 4990 2690 2560 15620 2980 18600 61 I 3100 6560 1970 2180 18810 3700 22510 62 I 8100 6560 2970 2180 18810 3700 22510 63 I 11760		· ·		1700	7.0		6730	1370	7000
53 I 3930 2960 1690 850 9430 1870 11300 54 I 34590 24080 11240 7300 77210 15990 93200 55 I 13260 8700 4040 2910 28910 6080 34990 56 I 10320 7740 3880 2250 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 58 I 23592 16764 5568 5022 50946 10020 6096 60 I 55390 4990 2690 2560 15620 2980 18600 61 I 5510 4710 1900 1420 13540 2660 16200 62 I 8100 6560 1970 2180 18810 3700 22710 63 I 1760 9530 2860 3190 27340 5370 32710 65 I 2330								and the second s	
54 I 34590 24080 11240 7300 77210 15990 93200 55 I 13260 8700 4040 2910 28910 6080 34990 56 I 10320 7740 3880 2550 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 59 I 15728 11176 3712 3348 33964 6080 40644 60 I 5390 4990 2690 2560 15620 2980 18600 61 I 5510 4710 1900 1420 13540 2660 16200 62 I 8100 6560 1970 2180 18810 3700 22510 63 I 11760 9530 2960 3190 27340 5370 3370 32716 64 I 3590 2910 870 970 8340 1640 9980 65 I 23						and the second s		and the second s	and the second s
55 I 13260 8700 4040 2910 2810 6080 34990 56 I 10320 7740 3850 2550 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 58 I 23592 16764 5568 5022 50946 10020 6096 59 I 15728 11176 3712 3348 33964 6680 40644 60 I 5390 4990 2690 2560 15620 2960 18600 62 I 8100 6560 1970 2180 18810 3700 22510 63 I 11760 9530 2860 3190 27340 5370 32710 64 I 3590 2910 870 970 8340 1640 9980 65 I 2330 2920 400 1040 6690 1500 300 1800 67 I 1590				and the second second	the state of the s		and the second second		
56 I 10320 7740 3880 2250 24190 5000 29190 57 I 16570 11720 3850 2550 34690 7110 41800 58 I 23592 16764 5568 5022 50946 10020 60965 59 I 15728 11176 3712 3348 33964 6680 40644 60 I 5390 4930 2690 2560 15620 2980 18600 61 I 3100 6560 1970 2180 18810 3700 22510 63 I 31760 9530 2860 3190 27340 5370 32710 64 I 3590 2910 870 970 8340 1640 9980 65 I 2330 2920 400 1040 6690 1500 88190 65 I 2330 2920 400 1040 690 1500 88190 67 I 1590 490		_							
57 I 16570 11720 3850 2550 34690 7110 41800 58 I 223592 16764 5568 5022 59946 10020 60965 59 I 15728 11176 3712 3348 33964 6800 40644 60 I 5390 4990 2690 2560 15520 2980 18600 51 I 5510 4710 1900 1420 13540 2660 16200 62 I 8100 6560 1970 2180 18810 3700 22510 63 I 11760 9530 2860 3190 27340 5370 32710 64 I 3590 2910 870 970 8340 1640 9980 65 I 2330 2920 400 1040 6690 1500 8100 67 I 1590 1450 520 370 3930 780 4710 68 I 930 4490					the state of the s				
59 I 23592 16764 5568 5022 50946 10020 60965 59 I 15728 11176 3712 3348 33964 6680 40644 60 I 5590 4990 2690 2560 15520 2980 18600 61 I 5510 4710 1900 1420 13540 2660 16200 62 I 8100 6560 1970 2180 18810 3700 22510 63 I 11760 9530 2860 3190 27340 5370 32710 64 I 3590 2910 870 970 8340 1640 9980 65 I 2330 2920 400 1040 6690 1500 8190 65 I 2500 480 300 220 1500 300 1800 67 I 1590 1450 520 370 3930 780 4710 681 4930 4490		-							
59 I 15728 11176 3712 3348 33964 6680 40644 60 I 5390 4980 2690 2560 15620 2980 18600 61 I 5510 4710 1900 1420 13540 2660 16200 62 I 8100 6560 1970 2180 18810 3700 22510 63 I 11760 9530 2960 3190 27340 5370 32710 64 I 3590 2910 870 970 8340 1640 9880 65 I 2330 2920 400 1040 6690 1500 8190 66 I 500 480 300 220 1500 300 1800 67 I 1590 1450 520 370 3930 780 4710 68 I 4930 4490 1630 1140 12190 2410 14600 69 I 3100 2830 103		-							
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81 I 5990 4080 940 2050 13060 2340 15400 82 I 510 350 80 170 1110 190 1300 83 I 1960 910 460 390 3720 680 4400 84 I 3290 1530 770 660 6250 1140 7390 85 I 440 210 110 90 850 150 1000 86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 109 750 140 890 91 I 1130 710 380 330 2550 <td>79.</td> <td>I</td> <td>6460</td> <td>3790</td> <td>870</td> <td>880</td> <td>12000</td> <td>21:10</td> <td>14110</td>	79.	I	6460	3790	870	880	12000	21:10	14110
82 I 510 350 80 170 1110 190 1300 83 I 1960 910 460 390 3720 680 4400 84 I 3290 1530 770 660 6250 1140 7390 85 I 440 210 110 90 850 150 1000 86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480	80	I	510		70	180	1100	200	
83 I 1960 910 460 390 3720 680 4400 84 I 3290 1530 770 660 6250 1140 7390 85 I 440 210 110 90 850 150 1000 86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 </td <td>81</td> <td>1</td> <td>5990</td> <td>4080</td> <td>940</td> <td>2050</td> <td>13060</td> <td>2340</td> <td>15400</td>	81	1	5990	4080	940	2050	13060	2340	15400
84 I 3290 1530 770 660 6250 1140 7390 85 I 440 210 110 90 850 150 1000 86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 <td>82</td> <td>I</td> <td>510</td> <td>350</td> <td>80</td> <td>170</td> <td>1110</td> <td>190</td> <td>1300</td>	82	I	510	350	80	170	1110	190	1300
85 I 440 210 110 90 850 150 1000 86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1830 1160 630 540 4160 750 4910 90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850	83:	1	1960	910	460	390	3720	680	4400
86 I 2260 1060 540 450 4310 790 5100 87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555	84	1	3290	1530	770	660	6250	1140	7390
87 I 660 310 160 140 1270 230 1500 88 I 670 430 230 200 1530 270 1800 89 I 1930 1160 630 540 4160 750 4910 90 I 330 210 110 109 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 66	. 85	1	440	210	110	90	850	150	1000
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90 I 330 210 110 100 750 140 890 91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	88	I	670	430	230	200	1530		1800
91 I 1130 710 380 330 2550 460 3010 92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	89	Ι	1930		630	540	4160	750	
92 I 1540 970 530 440 3480 620 4100 93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	90	I	330	210	110	109	750	140	890
93 I 9265 4520 1430 1275 16490 2960 19450 94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	91	I	1130	.710	380	3 3 0	2550	and the second s	
94 I 9265 4520 1430 1275 16490 2960 19450 95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	92	I	1540	970	530	440	3480	620	4100
95 I 470 230 80 70 850 150 1000 96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	93	I,	9265	45 20	1430	1275	16490	2960	19450
96 I 2873 1468 813 555 5709 1018 6727 97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	94	I	9265	4520	1430	1275	16490		
97 I 4021 2054 1137 777 7989 1424 9413 98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	95	I	470	230	80				
98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690	96	1	2873	1468	813				
98 I 3447 1761 975 666 6849 1221 8070 99 I 1149 587 325 222 2283 407 2690		I		2054	1137	777	7989	1424	
	98	Ī	3447	1761	975	666	6849		8070
		I		58 7	325	222	2283	.407	2690
	100	Ţ	20950	9780	3220	2100	36050	6450	42500

TABLE 2.2 (Cont.)

ZONE	I WORKER	STUDENT	H.WIFE	JOBLESS	SU3 T.	astow 6	TOTAL
	I 1540	900	370				3500
102	I 8960	5000	3500	1440	18900	3390	22290
	I 3610 I 0	2020	1420	5 8 0	7630 0	1370	9000
105		830	350	660	3990	710	4700
106		6530	2110	1670	19290	4560	23850
107		7770	2520	1980	22960	5430	28390
2	I 6850	4970	1610	1270	14700	3470	18170
109	1 12920	10880	3740	2640	30180	6160	36340
110	I 5814	4896	1680	1194	13584	2772	16356
111	I 3876	3264	1120	796	9056	1848	10904
112		3763		1038	10961	2235	13196
113		5267	2275	1452	15343	3129	4.4.5
114		6020	2600	1660	17536	3576	21112
115	and the second s	6370	3770	2370	20110	4200	24310
116	I 13520	11220	.: .4840	3090	32670	6660	39330
117	1 0	0	0		: Q	0	0
	I 3262	2611	1315	966	8155	1639	9793
119		1119	564	414	3495	702	4197
,:	I 1080	870	440	330	2720	550	3270
121	The second secon	1370	690	510	4280	860	5140
	I 4060	3260	1640	1210	10170	and the second s	12210
	I 6670	5200	2090	1760	15720	3280	19000
124	-	4920	20,60	1300	14020	2780	16800
125		3270	1450	640	9030	980	10010
	I 1500	1335	593	263	3691	405	4095
127		445	198	88 570	1231	135	1366
-	I 3190 I 0	2850° 0	1270	570 0	7860 0	860	8740
	I 0	.0	0	Û	0	0	0
	I 1009978	678540	-	185399	- · ·	393199	2534337
- · - ·				· •			

TABLE 2.3: POPULATION BY TRAFFIC ZONE, 1995

I BNOS	WORKER	STUDENT	H.WIFE	JOBLESS	SUB T.	95FOM 9	TOTAL
1 [4980	2,960	910	700	9550	1550	11100
2. 1	6510	4380	1150	770	12810		
3.1		2650			7950		9170
4 I		28500	8979		39190		104000
5 Î	8720		2190		20110		23500
6.1	20460		4170		41990		48690
7 1	30620		8090	5090			75600
8 I	1740	1965	180	35	3970	1090	
9 [1910			85	4350	1200	5550
10 I	the state of the s	and the second second	6980	4250		9370	64500
11 1		22100	7800	6390		11790	84100
	36410	22230	7580	5680	72000	11410	83410
13 I		17460	6720	3760	56000	9210	65210
14 I	8000	5350	2390	1500	17340	3,060	20400
15 I	28110	20460	7340	5880	61790	10420	72210
16 I	9150	6750	2410	1500	0.186.L	3290	23100
17. I	30700	24110	8050	5250	6811C	11390	79500
18 I	23220	17330	· ·	3440	50770	8230	59000
19 I		15060	7030	3020	47670	3030	55700
20 I	23120	14100	5540	3830		7810	54400
21 I	17770	10830	4260	2950	3.5810	5990	41800
22 I	14124		3633	- 2132	29379	4945	
23 I	7605	5110	1956	1148			18482
24 I	8330			1284	17750	2938	20688
25 I	5206			302	11035		
26 I	6243		1507		13313	2203	
27 I	6248		1507	963	13313		15516
23 I	8678	6383	2093	1333	1,8492		21552
. 29 I	17210	13250	4720	1950	37130	6073	43200
30 I	16996	13146	7819	3143	41104	7203	48307
31 I	7234	56 34	3351	1347	17616	3087	20703
32 I	12820	7650	2500	1700	24670	4040	28710
33 I	12640	7740	2580	1490	24450	3960	28410 56200
34 I	24790	14810	6090	3270	48960	7240 4390	
35 1	12830	3740	3610	1830	27010	3360	
36 I	10350	6970	2370	1450	21140	2530	18400
37 I	7770	5240	1780		15870 20544	3496	24040
38: I		6812		-1372 -1029		2622	18029
39 I	7411	5109	1855 - 2230	1027	13490	3146	21536
40 I	8894	6131				1748	12020
41 I	4941	3406	1239		19516	3321	22837
42, I	and the second second	and the second s	2354	1303 1235	18490	3146	21636
43 I	3894		2230 2523		20907	3556	24463
44 I	10055	6933	2984 2984		23896	4064	27960
45 T	11492	7924 4953	1803	998	14937	2540	17477
46 I 47 I	7163 3656		1980	1360	19440	3160	22600
48 I	15050	9690	2050			4990	36310
49 I			5890	4860			72890
5) I		2550	650	5 30	7340	1170	8510
23.1	7700	2730	3,70		, .		

TABLE 2,3 (Cont.)

ZONE II	HOOKED	STUDENT	H.WIEF	JOSLESS	SHA T.	A unite	TOTAL
~~~~~+~		3100541					
51 I	3800	2310	880	480	7470	1740	.9210
52 I	9510	7010	3220	1980	21720	4470	26190
53 I	3850	2990	1480	780	9100		10900
54 I	73620	52740	21300		162080		195100
55 I	28450	19230	7740	5790	61220		73900
56 I	14650	11280	4910	2940	33780		40700
-:57: I.	35300	26130	6990	5310	73730	14280	83010
58 I	29004	21198	6078	· ·	62022		: 73740
59 I	19336	14132	4052		41348		the state of the s
60 I	5100	5770	2680	2670	17220		20500
61 I	11300	9900	3450	2680	27330	and the second s	32590
62 I	13060	10860	2820	3280	30020	558C	35700
63 I	36930	30700	7950	>290		and the second s	100900
64 I	7650	5360	1650		17580	3320	20900
65 I	3990	5080	600			2390	13700
66 I	620	620	340	260	1840	370	2210
67 I	1920	1800	560	410	4690	900	5590
68 1	6700	6260	1970	1430	16360	3140	19500
69 I	3920	3650	1150		9560	1849	11400
70 I	2870	2170	420	570	6030	1080	7110
71 I	10960	8600	1900	1170	22630	3760	26390
72 I	21450	13570	2900	2120	40040	6370	46410
73 I	15790	12080	2260		32510	5290	
74 I	12050	7090	2070	1930	23140		and the second of the first
75 I	21160	12460	3620	3370	40610	6970	47580
76 I	15900	3320	1670	2290	28680	4530	33210
77 I	27090	16290	5010	5450	53840	9060	A STATE OF THE STA
78 I	25430	15280	4320	3720	48750	8350	57100
79 I	8450	5110	1000	1100	15660	2540	18200 8500
80 I	3360	2360	470 2350	1070	7250	1240	
81 I 82 I	16960	11900 3580	710	5420 1630	36630 11030	6260 1830	
83 I	5110	1890	1830	730	7360	1330	8690
84 I	3910 6620	3200	1400	1240	12460	2240	14700
85 I	18510	8950	3910	3470	34840	and the second of the second o	41110
86 I	2840	1370	600	530	5340	960	6300
87 I	10180	4930	2140	1910	19160	3440	22600
88 I	12540	8220	3840	3420	28120	5070	33190
89 I	11120	7230	3380	3010	24740	4460	29200
90 I	8180	5330	2490	2210	18210	3290	21500
91 I	4640	3020	1410	1260	10330	1860	12190
92 I	2130	1390	650	580	4750	the state of the s	5610
93 I	13430	6780	1860	1735	23805		27845
94 1	13430	6780	1860	1735	23805		27845
95 I	870	440	120	120	1550	260	1810
96 T	4603	2430	1168	828	9029	1593	10627
97 I	6443	3402	1634	1158	12637	2236	14873
98 I	5523	2916	1401	993	10833	1917	12750
99 I	1841	972	467	331	3611	639	4250
100 I	30960	14980	4290	Z9 Z0	53150	8950	62100

TABLE 2.3 (Cont.)

ZONE	I	WORKER	STUDENT	H.WIFE	JOBLESS	SUB T.	BELOW 6	TOTAL
101	I	2270	1370	500	280	4420	680	5100
102	I	16520	9530	5790	2470	34310	6200	40510
103	I	4860	2800	1700	720	10080	1820	11900
104	1	<u> </u>	0	0	0	0	0	0
105	I	3340	1330	480	960	6110	1080	7190
106	1	8660	6460	1810	1490	18420	4180	22600
107	1	10500	7840	2190	1310	22340	5070	27410
	1	5660	. 4980	1390	1150	14180	3210	17390
109	I	14330	12370	3670	2720	33090	6510	39600
110	Ţ	6425	5550	1650	1224	14850	2916	17766
111	1	4284	37.00	1100	816	9900	1944	11844
112	I	5248	4470	1673	1110	-12501	2500	15001
113	1	7345	6258	2341	- 1554	17499	3500	20999
114	1	6396	7152	2676	1776	20000	4000	24000
115	1	- 14800	12720	6510	4250	38280	8120	46400
116	1	15510	13200	4930	3270	36910	7390	44300
117	I	91.0	0	0	5 0	. 0	0	0
118	1	6909	5684	2471	1897	16961	3409	20370
119.	Ţ	2961	2436	1059	813	7269	1461	8730
120	I	1420	1170	510	390	3490	700	4190
121	I	2610	2320	1010	770	6910	1390	8300
. 122	Ι,	4890	4010	1750	1340	11990	2420	14410
123	1	8040	6440	2230	1970	18680	3820	22500
124	I	21660	19020	6870	4540	52090	10110	62200
1 25	1	16420	15010	5790	2670	39890	4210	44100
126	Ī	2040	1860	720	330	4950	525	5475
1.27	1.	680	620	240	110	1650	175	1825
128	1	3940	3610	1400	640	9590	1010	10600
129	I	0	0	0	0	0	0	9
130	Ţ	0	0	0	0	. 0	0	. 0
TOTAL	I	1583899	1099269	383019	281770	3347957	592108	3940065

		\$					
	<b>=</b> 0.01	- 0 A - D	ODER ATTOR	DV TOAEE1	C ZONE, 20	NNE	
	TABL	E 2.4 ; P	OPULATION	DI IMMELI	. C ZUIL 3 ZI	303	4.
						4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	
2004E \$	WORKER	CTUDENT	o atee	223 (90)	SHIR :T:	BELOW A	TOTAL
ZONE I	WURKER	21005M	. u	Anner 200	300:10	accon.o	
1.1	4810	2850	850	710	9220	1470	10690
2 I	7140	48 00		900			16210
5 <b>3 I</b>	4660	2.00	870		8770		
· 4 I	54720		10480		108990		126900
5 I	10770		2540	3250	24750	4160 7900	28910 57900
	24400		4770 9860	3100 5820	50000 80660	16240	
9 I		24580 2335				1265	6000
9 I		2495		110		1355	
10 I	25480	17250		4410		9360	64110
11 I	45630	27810	9330		and the second s	14820	106100
12 I	38340	23340		6300	75700	11910	9761 D
13 I		19460	7180	4410		10280	
14 1	12240	8150	3460	and the second s	26360		31100
	49190		12110				125810
16 I			2380		the second secon		
17 I		28670	9160	65 30 50 30			
18 I			9000	5030	5	11610 9260	\$2410 63300
	25740	The second secon	7600 6700	3590 5110	and the second second second second		69110
20 I 21 I	29480 17690			3060	35540		41490
22 I	18637	12506		2944	38693		4 44 4
23 1	10051		2453	1585	20834		
24 I	9924		2275		and the second s		24551
25 I		4545	1422	999	13168	2176	15344
26 I	7443		1706	1199		2612	18414
27. I	7443	V 1		i i	15802		
28 I		7575		1665			25576 70500
29 I	28210	21620	7370	3330 5138		9970 11816	76573
30 I	27097 11613	20846 8934	11676 5004	2202	27753		32817
31 I 32 I	17729	10560	3330	2480	34090		39610
33 I	12850	7850	2530	1590	24820	3990	28810
34 I	30150	17970	7080	4173	59370	8830	68200
35 I	13940	9470	3720	2070	29200	4800	34000
36 I	12340	8280	2700	1800	25120	3980	the state of the s
37 I	11990	8060	2620	1750		3880	28300
38 I	12822	8608	3060	1964	26554	4528	
39 I	9616	6606	2295	1398	19915	3396 4075	23311 27974
40 I	11540	7927 4404	2754 1530	1578 932	23899 13277	and the second second	15541
41 I 42 I	6411 12181	8368	2907	1771	25227	4302	29529
42 I	11540	7927	2754	10.78	23899	4075	27974
45 I 44 I	17850	12257	4259	2590		6300	43256
45 I	20400	14008	4868	2960	42236	7200	49435
46 I	12750	8755	3043	1850	26398	4500	30898
47 I	10040	3600	2180	1660	22460		26100
48 I	21880	14040	2810	6860		7010	52600
49 I	30220	21960	5510	5040		3680	71410
50 I	4060	2910	710	700	8380	. 1310	9590

TABLE 2.4 (Cont.)

ZONE I	WORKER	STUDENT	H•WIFE J	OBLESS	SUB Ta	BELOW 6	TOTAL
51 I	5230	3160	1140	670	10200	2390	12590
52 I	30230		9530	5440	68330	14370	
53 T	25600	19750		5280	59790	12210	72000
54 I	98040		26480	19690	213980	44120	258100
: 55 . I	48480	and the second s	12320	10130	103480		125110
56 I	19100			3930	43600	9110	52710
57 I	57590	42480	10690	9050	119810	23000	142310
58 I	37578	27300	7392	7586	79956		94980
59 Î	25052	18200	4928	5124	53304	10016	63320
60 I	7170	The state of the s		3170	19970	4030	
61 I	and the factor and applications of		5950	5073	50220	9770	59990
62 I	21380	17650	4300	5510	48840	9170	58010
63 Î	79270		15930	20460	181100	33990	215090
64 I	14410	11890	2900	3720	32920	6180	39100
65 1	6760	and the second second	940	2840	19070	3940	23010
66 I	850	840	430	360	2480	530	3010
67 I	2430	2250	660	520	5860	1140	7000
68/I	9540		26'00	2070	23030	4470	27500
59 I	5200	4810	1430	1130	12570	2430	15000
70 I	2880	2170	1400	600	6050	1050	7100
71 I	12740	9940	2100	1430	26210	4300	30510
72 1	23510	14830	3050	2483	43870	6330	50700
73 I	21450	16570	2900	3540	44460	7040	51500
74 1	12100	7090	1970	2020	23180	3930	27110
75 I	25340	14870	4120	4220	43550	3240	56790
76 I	22700	12560	2300	3489	41040	6250	47300
77 1	30730	18400	544C	6500	61070	10130	71200
- 78 I	28170	16970	4530	4310	53980	9120	63100
79 I	10110	6100	1160	1390	18760	2360	21720
I 08	- 5840	4080	760	1930	12510	2090	14700
81 1	26410		3420	8710	56950	9440	66400
82 I	9110	ხ350	1130	3000	19540	3260	22900
83 I	5610	27 00	1120	1090	10520	1890	12410
84 I	9440	4550	1330	1,940	17710	3190	20900
85 I	34020	16400	6770	66 30	63820	11480	75300
86 1	3340	1610	670	650	6270	1130	7400
87 I	18400		3550	35.70	34480	6210	40690
88 I	23020		6520	5370	50800	9310	60110
39 I	19160		5420	5300	42270	7740	50010
90 I	15020	9710	4250	4150	33130	6070	39200 20000
91 I	7660	4950	2170	2120	15900	3100 1050	6730
92 I	2600	1680	730	720	5730	4995	
93. I	16915.		2245	'	30000 30000	4995	34995 34995
94 I 95 I	16915	8525	2245 170	2315 169	2150	360	2510
and the second second	1210 6073	510 3198	1443	1130	11854	2123	13977
96 I 97 I		and the second s	2026	1582	16592	2971	19563
and the second s	7293	3837	1737	1356	14223	2547	16770
99 I	2431	1279.	579	452	4741	849	5590
100 I			5270	3940	67440	11130	75520
100.1	27600	10710	7210	5 40	0,770	11100	1 43 4 4

TABLE 2.4 (Cont.)

ZONE I	WORKER	STUDENT	H.WIFE	JOBLESS	• T BUZ	BELOW 6	TOTAL
101 I	2910	1750	600	380	5640	870	6510
102 I	23010	13200	7550	3520	47280	8830	56110
103° I	5860	3360	1930	900	12050	2250	14300
104 I	0	0	0	O	0	0	0
105 I	4330	.1720	590	1290	7930	1370	9300
106 I	9480	7040	1860	1690	20070	4530	24600
107.I	11760	8730	2310	2090	24890	5620	30510
108:1	7400	5490	1450	1330	15670	3530	19200
109 I	17090	14650	4090	3330	39160	7730	46890
110 I	7614	6522	1824		17442	3438	20880
111 I	5076	4348	1216	988	11628	2292	13920
112 T	6323	5343	1870	1365	14901	3023	17929
113 I	8851	7479	2618	1911	20859	4238	25097
114 I	10116	8548	2992	2184	23840	4844	28684
115 I	23420	19960	9530	6820	59730		
115 I	18520	15640	5470	4000	43630	8870	52500
117 I	0	0	0	0	0		
118 I	11326	9233	3752	3157	27468	5642	33110
119 I	4854	3957	1608	1353	11772		14190
120 I	1710	1390	57C	470	4140	850	4990
121 I	4110	3350	1350	1150	9960	2050	12010
122 I	5460	4460	1820		13270	2730	16000
123 I	9680	77 00	2510	2420	22310	4600	26910
124 I	38250	33330	11290		91060		109000
125 1	32530	29530	10720		78180	8610	86790
126 T	2528		840		-6083	65.8	6751
127 I	843		280		2028	223	2251
128 I			1480		10820	1190	
129 I	0	0					0
130 I		27990			85860		
TOTAL I	2223800	1550160	516958	419980	4710898	839321	5550219

TABLE 2.5 : EMPLOYMENT AND STUDENT BY TRAFFIC ZONE, 1985

	DAY TIME	WORKER			STUDENT		
Z0%5	i i	S_ <i>N</i> O	3_RD	TOTAL	PRIMARY	UNIV.	JATOT
1	940	6180	32720	39840	6790	. 0	6790
2	2450	9840	45650	57940	21130	0	21130
3 - 1		3060	22330	27640	14540	0	14540
4		2690	20650	240.90	16670	0	16670
5		8310	31340	41440	12690	. 0	12690
6	0	2240	8070	10319	10370	0	10370
7	1 0	3540	12150	15690	11510	0	11510
	1 1325	1095	16305	13725	2055	Q	2055
. 9	1225	925	8615	10765	2055	6580	8635
10	I 1140	7460	25730	34330	28420	0	28420
	1230	2450	5360	9040	5980	0	6980
12		11720	8790	21369	15620	0	15620
13		9400	5870	16500	17310	0	17310
	ı e	2070	42.60	5330	30	0	30
	ı c	870	750	1629	173	0	170
	I 0.	2130	9480	11619	11270	730	12000
17		3070	5450	0048.	8960	2840	11800
	1 280	3260	3150	6690	9370		9370
	I 2740	1810	14130	18680	10930	5910	16940
20		2750	6010	8950	13690	0	18690
21	I 90	3010	7680	10780	13860	0	13860
22		3646	4140	7786	2977	i 0	2977
23		1963	2229	4192	1603	0	1603
24		1080	1481	2607	. 2065	322	2388
	I 28	675	925	1523	1291	201	1492
	I 34	810	1111	1955	1550	241	1791
	I 34	810	: 1111	. 1955	1550	241	1791
	48	1125	1543	2716	2153	335	2488
29	I . 0	920	250	1170	0	0	0
30	I 728	$\mathrm{disc} \sim 3136$	5138	9002	2149	0	2149
- 31	312	1344	2202	3858	921	Э	921
32	0	260	1650	1929	3070	0	3070
33	1 470	6460	9160	16090		0	7590
. 34	90	5 3 0	3020	3640	5080	0	-5080
35	0	7930.	5420	13350	11380	9	11380
35	1 0	2390	2300	46 90	40	О	40
37	1230	1960	860	4050	. 0	0	0
33	1 208	1768	2322	4298	2140	0	2140
39	1 156	1326	1741	3223	1505	0	1505
40	I 187	1591	2090	3369	1926	0	1926
. 41	104	384	1161	2149	1070	0	1070
42	198	1680	2206	4984	2033	0	2033
43			2090	3868	1926	2	1926
44.			360	2113	234	0	234
45			412	2416	268	0	268
45			253	1511	168	Э	168
4.7	1 2080	252C	.8910	- 13510	2930	0	2930
48		3200	4040	7520	3200	0	3200
40	1 0	4880	23650	28530	22430	0	22430
50	O 1	0	4940	4940	1020	10890	11910

÷		TABLE	2,5 (Cont	<u>.)</u>				4.
	DAY	TIME	WORKER			STUDENT		
ZONE	I	1_ST	S_ND	3_RD	LATET	PRIMARY	UNIV	TOTAL
51	I	1560	1000	730	3290	850	0	850
52	I	690	34.50	3670			and the second second	7330
53		40			and the second s		9	2030
54		330	2890	11930			•	16360
55		3810	3070				0	7960
56		610	600				0	10430
57 58	I I	260 0	5990 1620				0	10790 6336
59		3	1080	1432			0	: 4224
and the second second	Ī	2700	420	1290	and the second s		Č	4400
61		1440	2350		5440		ő	3070
52		220	1290		2130		0	1190
63		90	1990					220
54	I	450	430	4780				21520
- 65		490		36.90	5390			
66		1840	480	580	2900			300
67		580	30	230	and the second second		0	1290
68		670	250	1000	1920		0	25.90
59 70		900	580	560	2040	the second of the second of the second	0	2700 9620
70 71		250	450 3900	2010 6550	2460 10700		530	2330
	I	120	2.212.2	13450	22070	the state of the s		6330
	Ī	620	2580	19650	22850		2140	23390
	Ĭ	. 0	10890	9820	20710		0	7580
75		ŋ.	the second secon	1130		The state of the s		5790
76	ī	120	1330	5140		3400	0	3400
	$\mathbf{I} = \{\cdot\}$	430	4420	12150	17000	10470	.0	10470
78		190	16270	8280	24740		. 47, 0	8930
	Ī	180	580	1630			C	3070
80		370			460			660
81		0.					3780	
82 83		370 60	80 90	2430	2880 150		0	
- 84		3			5340			
85		0	6210		9780			
	I	60			2670			430
87		250		1840	4060	0		0
88		190	1160	460		910	0	910
89	I		90	. 0	770	760	C	
90			90	0	400		0	300
91			90	0				0
92		800	0					
93		30		4000	5630	2810		2810 2810
94 95	I r	30 310	1600		56 30 4 3 0	2810 220	0	220
96		.805	743			1473	. 0	1473
95		1127	1046		2771			2061
98		966			23.76	1767		1767
99			299					589
100			7430	7550				

TABLE 2.5 (Cont.)  OAY TIME WORKER ZONE I 1_ST 2_NO 3_RD TOTAL PRIMARY UNIV. TOTAL  101 1 680 360 730 1770 1250 0 1230 102 1 5940 1650 3040 10630 5070 0 5070 103 1 2040 700 590 3330 310 0 310 104 1 2850 750 8620 12220 0 50 50 105 I 250 130 500 980 50 0 50 106 I 530 5990 1890 8410 4760 0 4760 107 I 0 2440 8420 10860 2270 0 2270 108 I 470 730 1890 3090 15510 0 15510 109 I 0 1690 5270 6960 7780 0 7780 110 I 108 726 2274 3108 13134 0 13134 111 I 72 484 1516 2072 8756 0 8756 112 I 268 1053 1148 2469 3780 0 3780 113 I 374 1473 1606 3453 5292 0 5292 114 I 428 1684 1836 3948 6048 0 6048 115 I 0 390 580 970 2930 0 2930 116 I 0 3150 10660 13810 10420 0 10420 117 I 0 430 2110 2540 0 0 0 2930 116 I 0 3150 10660 13810 10420 0 10420 117 I 1 0 430 2110 2540 0 0 0 0 0 0 1470 123 I 4910 2710 1860 9480 4300 0 4300 124 I 1360 2400 1220 4980 4470 0 0 4470 125 I 1010 110 770 1890 3720 0 3720 126 I 270 863 578 1711 323 0 323 127 I 90 288 193 571 108 0 3720 128 I 0 3830 770 4600 570 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		* •							
ZONE I         1_ST         2_NO         3_RD         TOTAL PRIMARY         UNIV-         TOTAL           101 I         680         360         730         1770         1250         0         1230           102 I         5940         1650         3040         10630         5070         0         5070           103 I         2040         700         590         3330         310         0         310           104 I         2850         750         8620         12220         0         50         50           105 I         250         130         500         880         50         0         50           106 I         530         5990         1890         8410         4760         0         4760           107 I         0         2440         9420         10860         2270         0         2270           108 I         470         730         1890         3090         15510         0         15510           107 I         0         1690         5270         6960         7780         0         7780           107 I         0         1690         5270         6960         7780			TABLE 2	.5 (Cont.	)	with the second	;		
101   1   680   360   730   1770   1250   0   1230   102   1   5940   1650   3040   10630   5070   0   5070   103   1   2040   700   590   3330   310   0   310   104   1   2850   750   8620   12220   0   50   50   105   1   250   130   500   880   50   0   50   106   1   530   5990   1890   8410   4760   0   4760   107   1   0   2440   8420   10860   2270   0   2270   108   1   470   730   1890   3090   15510   0   15510   109   1   0   1690   5270   6960   7780   0   7780   110   1   108   726   2274   3108   13134   0   13134   111   1   72   484   1516   2072   8756   0   8756   112   1   268   1053   1148   2469   3780   0   3780   113   1   374   1473   1606   3453   5292   0   5292   114   1   428   1684   1836   3948   6048   0   6048   115   1   0   390   580   970   2930   0   2930   113   1   287   511   350   1148   1477   0   1477   119   1   123   219   150   492   633   0   633   124   1360   492   633   0   633   124   1360   490   2750   1140   0   1470   121   1   830   360   400   1590   660   0   660   122   2660   1070   390   4120   1450   0   1450   124   1   1360   2400   200   2750   1140   0   1140   121   1   360   2400   120   4980   4470   0   4470   125   1   1010   110   770   1890   3720   0   3720   126   1   270   863   578   1711   323   0   323   127   1   90   288   193   571   108   0   108   128   1   0   3830   770   4600   570   0   0   0   1301   0   0   0   0   0   0   0   0   0	ZONE		TIME	WURKER 2 NO	<b>ጓ</b> ዩስ			UNIV.	TOTAL
102   1   5940   1650   3040   10630   5070   0   5070   103   1   2040   700   590   3330   310   0   310   104   1   2850   750   8620   12220   0   50   50   105   1   250   130   500   880   50   0   500   106   1   530   5990   1890   8410   4760   0   4760   107   1   0   2440   8420   10860   2270   0   2270   108   1   470   730   1890   3090   15510   0   15510   109   1   0   1690   5270   6960   7780   0   7780   110   1   108   726   2274   3108   13134   0   13134   111   1   72   484   1516   2072   8756   0   8756   112   1   268   1053   1148   2469   3780   0   3780   113   1   374   1473   1606   3453   5292   0   5292   114   1   428   1684   1836   3948   6048   0   6048   115   1   0   390   580   970   2930   0   2930   116   1   0   3150   10660   13810   10420   0   10420   117   1   0   430   2110   2540   0   0   0   0   0   0   0   0   0		· 			J				
102 I         5940         1650         3040         10630         5070         0         5070           103 I         2040         700         590         3330         310         0         310           104 I         2850         750         8620         12220         0         50         50           105 I         250         130         500         880         50         0         50           106 I         530         5990         1890         3410         4760         0         4760           107 I         0         2440         8420         10860         2270         0         2270           103 I         470         730         1890         3090         15510         0         15510           107 I         0         1690         5270         6960         7780         0         7780           110 I         108         726         2274         3108         13134         0         13134           110 I         108         726         2274         3108         13134         0         13134           111 I         1         268         1053         1148         2469 <td>101</td> <td><b>I</b> :</td> <td>680</td> <td>360</td> <td>730</td> <td>1779</td> <td>1230</td> <td>0</td> <td>the state of the s</td>	101	<b>I</b> :	680	360	730	1779	1230	0	the state of the s
103 I         2040         700         590         3330         310         0         310           104 I         2850         750         8620         12220         0         50         50           105 I         250         130         500         880         50         0         50           106 I         530         5990         1890         8410         4760         0         4760           107 I         0         2440         8420         10860         2270         0         2270           108 I         470         730         1890         3090         15510         0         15510           109 I         0         1690         5270         6960         7780         0         7780           110 I         108         726         2274         3108         13134         0         13134           111 I         72         484         1516         2072         8756         0         8756           112 I         268         1053         1148         2469         3780         0         3780           113 I         374         1473         1606         3453         5292					3040	10630	5070	0	
104 I         2850         750         8620         12220         0         50         50           105 I         250         130         500         880         50         0         50           106 I         530         5990         1890         8410         4760         0         4760           107 I         0         2440         8420         10860         2270         0         2270           103 I         470         730         1890         3090         15510         0         15510           109 I         0         1690         5270         6960         7780         0         7780           110 I         108         726         2274         3108         13134         0         13134           111 I         72         484         1516         2072         8756         0         8756           112 I         268         1053         1148         2469         3780         0         3780           113 I         374         1473         1606         3453         5292         0         5292           114 I         428         1684         1836         3948         6048 </td <td></td> <td></td> <td>2040</td> <td>7.00</td> <td>590</td> <td>3330</td> <td>310</td> <td>=</td> <td></td>			2040	7.00	590	3330	310	=	
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107 I         0         2440         8420         10860         2270         0         2270           108 I         470         730         1890         3090         15510         0         15510           109 I         0         1690         5270         6960         7780         0         7780           110 I         108         726         2274         3108         13134         0         13134           111 I         72         484         1516         2072         8756         0         8756           112 I         268         1053         1148         2469         3780         0         3780           113 I         374         1473         1606         3453         5292         0         5292           114 I         428         1684         1836         3943         6048         0         6048           115 I         0         390         580         970         2930         0         2930           116 I         0         3150         10660         13810         10420         0         10420           117 I         0         430         2110         2540         0<				5990	1890	8410	4760	0	4760
103 I       470       730       1890       3090       15510       0       15510         109 I       0       1690       5270       6960       7780       0       7780         110 I       108       726       2274       3108       13134       0       13134         111 I       72       484       1516       2072       8756       0       8756         112 I       268       1053       1148       2469       3780       0       3780         113 I       374       1473       1606       3453       5292       0       5292         114 I       428       1684       1836       3948       6048       0       6048         115 I       0       390       580       970       2930       0       2930         116 I       0       3150       10660       13810       10420       0       10420         117 I       0       439       2110       2540       0       0       0         118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492 <t< td=""><td></td><td></td><td></td><td></td><td>8420</td><td>10960</td><td>2270</td><td>. 0</td><td>~ 2270</td></t<>					8420	10960	2270	. 0	~ 2270
109 I         0         1690         5270         6960         7780         0         7780           110 I         108         726         2274         3108         13134         0         13134           111 I         72         484         1516         2072         8756         0         8756           112 I         268         1053         1148         2469         3780         0         3780           113 I         374         1473         1606         3453         5292         0         5292           114 I         428         1684         1836         3948         6048         0         6048           115 I         0         390         580         970         2930         0         2930           116 I         0         3150         10660         13810         10420         0         10420           117 I         0         439         2110         2540         0         0         0           118 I         128         511         350         1148         1477         0         1477           119 I         123         219         150         492         633						3090	15510	. 0	15510
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112 I       268       1053       1148       2469       3780       0       3780         113 I       374       1473       1606       3453       5292       0       5292         114 I       428       1684       1836       3948       6048       0       6048         115 I       0       390       580       970       2930       0       2930         116 I       0       3150       10660       13810       10420       0       10420         117 I       0       439       2110       2540       0       0       0       0         113 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       930       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480<		1	and the second second					Q	8756
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114 I       428       1684       1836       3948       6048       0       6048         115 I       0       390       580       970       2930       0       2930         116 I       0       3150       10660       13810       10420       0       10420         117 I       0       430       2110       2540       0       0       0         118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       830       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       37						3453	5,292	. 0	5292
115 I       0       390       580       970       2930       0       2930         116 I       0       3150       10660       13810       10420       0       10420         117 I       0       439       2110       2540       0       0       0         118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       930       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323<				and the second s				0	6048
116 I       0       3150       10660       13810       10420       0       10420         117 I       0       439       2110       2540       0       0       0         118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       830       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323       0       323         127 I       90       288       193       571       108 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>. 0</td> <td>2930</td>								. 0	2930
117 I       0       430       2110       2540       0       0       0         118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       830       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323       0       323         127 I       90       288       193       571       108       0       108         128 I       0       3830       770       4500       570								and the second s	10420
118 I       287       511       350       1148       1477       0       1477         119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       930       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323       0       323         127 I       90       288       193       571       108       0       108         128 I       0       3830       770       4500       570       0       570         129 I       0       160       3610       3773       0	A Company of the Comp							O	0
119 I       123       219       150       492       633       0       633         120 I       2310       240       200       2750       1140       0       1140         121 I       830       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323       0       323         127 I       90       288       193       571       108       0       108         128 I       0       3830       770       4600       570       0       570         129 I       0       160       3610       3773       0       0       0         130 I       0       0       0       0       0       0								0	1477
120 I     2310     240     200     2750     1140     0     1140       121 I     930     360     400     1590     660     0     660       122 I     2660     1070     390     4120     1450     0     1450       123 I     4910     2710     1960     9480     4300     0     4300       124 I     1360     2400     1220     4980     4470     0     4470       125 I     1010     110     770     1890     3720     0     3720       126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0								0	633
121 I       830       360       400       1590       660       0       660         122 I       2660       1070       390       4120       1450       0       1450         123 I       4910       2710       1860       9480       4300       0       4300         124 I       1360       2400       1220       4980       4470       0       4470         125 I       1010       110       770       1890       3720       0       3720         126 I       270       863       578       1711       323       0       323         127 I       90       288       193       571       108       0       108         128 I       0       3830       770       4600       570       0       570         129 I       0       160       3610       3773       0       0       0         130 I       0       0       0       0       0       0       0							1140	G G	1140
122 I     2660     1070     390     4120     1450     0     1450       123 I     4910     2710     1860     9480     4300     0     4300       124 I     1360     2400     1220     4980     4470     0     4470       125 I     1010     110     770     1890     3720     0     3720       126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0								0	660
123 I     4910     2710     1860     9480     4300     0     4300       124 I     1360     2400     1220     4980     4470     0     4470       125 I     1010     110     770     1890     3720     0     3720       126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0								0	1450
124 I     1360     2400     1220     4980     4470     0     4470       125 I     1010     110     770     1890     3720     0     3720       126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0								0	4300
125 I     1010     110     770     1890     3720     0     3720       126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4500     570     0     570       129 I     0     160     3610     3770     0     0     0       130 I     0     0     0     0     0     0								. 0	4470
126 I     270     863     578     1711     323     0     323       127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0							and the second s		3720
127 I     90     288     193     571     108     0     108       128 I     0     3830     770     4600     570     0     570       129 I     0     160     3610     3773     0     0     0       130 I     0     0     0     0     0     0			and the second second					. 0	323
128 I 0 3830 770 4600 570 0 570 129 I 0 160 3610 3773 0 0 0 130 I 0 0 0 0 0 0									108
129 I 0 160 3610 3770 0 0 0 0 130 I 0 0 0 0 0 0 0 0				3830	770	•		0	570
			_				•		0
			-						0
101VF 1 84540 544310 031541 1004141 030011 41040 010301	TOTAL	Ī					636671	41890	678561

TABLE 2.6: EMPLOYMENT AND STUDENT BY TRAFFIC ZONE, 1995

			WORKER			STUDENT		
ZONE	I	1_51	S_ND	3_RD	TOTAL	PRIMARY	UNIV.	TOTAL
	+							
	I	.0	2250	39350	41600	and the second second	0	10400
2	Ī	. 0	3440		53470		0	36700
3		0	890	25660	26550		0	24210
	I	0		53140	55750		0	22900
5		-0	3560	44830		22800	0	22800
	1	0	1780	3 80 70			and the second s	14500
	I	0	2380		17080		i , , , , ,	15900
8	I	0	600	16685			0	9195
9	I	0	5 3 0	13165			0	9195
	I	0		24380			0	39000
	I	2650	4740	9220	16610	10000	0	10000
	1	0	15780			21800	0	21800
	I	2660	10430	7850	20940	25200	0	25200
	I	1330	2250		16910		0	100
	ī	2650		5660	17320		0	900
	I	0	2250	6210	8460			17300
17	Ī	1330	9250		17520			18100
18	I	2650	14350	18990	35990			1.9600
19	I .	0	2130	16430			9640 0	22000 29100
	I	. 0	3250	4		· ·		19200
21		0 0	6120	5401	16500 9255	4485		4485
22 23	I	0	3854 2075	2908	4983		0	
	1	0	1793		5351	3091		
	Ī	0	1120		3968		* A	2295
26	I "	.0	1345	3418	4763			2754
27	Ī	0	1345	3418	4763		435	
2.8	Ī	0	1868		5615		605	3825
29	Ī	1330	1420	6660	9410		Ő	0
	1	931	4480		13272		Ö	4550
31	1	399	1920		5688		0	1950
	Ī	0	950	1330	2780	5500	0	5500
3.3	Ī	ō	19690	5200	24890		O .	8700
34	I	Ó	590	3470	4060	7300	. 0	7300
	I	0	4740	9040	13780	17600		17600
36	I	0	6860	4020	10880		o	
37		0	1680	1550	3230	. 0		<b>o</b>
-38		610		1580	3444	2228	. 0	2228
39		457	940		2582	1671	0	1671
40	I	549	1129	1422	3100	2005	. 0	2005
41	I	305	627	790	1722	1114	0	1114
42	I	579	1191	1501	3271	2117	O	2117
43	I	549	1129	1422	3100	2005	Ü	2005
44		1715	2369	2478	6562	2576	c	2576
45		1950	2708	2832	75 00	2944	0	2944
46		1225	1693	1770	4688	1840	0	1840
47		0	2140	33690	35830	5,000	Ω	5000
48		2650	8 30	12330	15810		0	6100
49		0	4720	27490	32210	31140	0	31140
50	I .	C	3 80	5730	6110	300	23160	23460
								T 4 T 1

TABLE 2.6 (Cont.)

							-	
	DAY	TIME	WORKER		\$	TUDENT		
20 NF			2 ND		TOTAL	PRIMARY	UNIV.	TOTAL
	-							
51	Ţ	1360	1240	1170	3770	1400	· · · · · · · · · · · · · · · · · · ·	1400
52			9080		23550	14300	. 0	14300
53		2530						3600
. 99 54 ¹ .		780	1000	1960 37010	6.4300	30000		30000
· ·					18160	17600		17600
55		1360	4070				· 0,	21100
56	1	970	710			21100		and the second second
57	I	580	8370	13320	22210	29500	0	29500
58	I .	210		3670			0	8700
59				5780		5800	0	5800
60	I	5380	430	2090	7900		0	5700
61	I	1390	2360	7840			0	5300
62		310	4310	5330	9950		. 0	3950
63	I	310	9870	19190	29370	12750	0	. 12750
64	I	590	1460	8040	10090	29900	0	29900
<b>6</b> 5		520	1210	8040 5400	7130	1620	7980	9600
66		2080		350	2930	500	0	500
67		1090		540	2770	1750	0	- 1750
68		1320			6870	4040	0	4040
69		1750		1200			. 0	3810
70		0		2440				16300
71		0		11020				3200
72		. 0		16280		11600		11600
73		ő	1840	37560	39400	40270		44300
74		Ö.	13680	12700	26380	2180	. 0	2180
75		0		5410	11250	2120	0	2120
75		ő		5770	7210	4600	Ō	4500
77		0	5030	16280		16000	Õ	16000
73		0	13000	11290	24380		0	11600
79.		0	710		3150	4400		4400
		360	180			2380		2380
80			2590		41270			23180
81				4330	4870	1540	0	1540
82		360	130	730	1950	2340		2340
83		180	140		14630	1280	0	1280
84		0	9900	4730	25210	7130	0	7130
85		0		<b>-</b> - · · ·				
86		360						
. 87		900	14520	6080	21500		0	3610
88		250	580	1080	1910	2480	0	2480
89		1040	190	1220	2450	1960	0	1960
90		500	140	1040	1689	1570	0	1570
91		1550		2560	5420	650	0	650
92		1330		0	1340	140	0	140
93		200	4270	7710	12180	5310	0	5310
94		200		7710	12180	5310	0	5310
95		1400	0	220	1520	480	0	490
96		1258	938	673	2869	2275	0	2275
97	1	1760		941	4013	3185	0	3185
98		1509	1125	807	3441	2730	0	2730
99	I .	503	375	269	1147	910	0	910
100	I	1440	84'60	9100	19000	7180	7420	14600
				*				-

TABLE 2.6 (Cont.)

	DAY	TIME	WORKER			STUDENT	saa salaa	
ZONE				3_RD		PRIMARY	.VIV	TOTAL
101	I	5030	400	640	6070	8300	0	8300
102	Ī	6220	2900	5090	14210	8180	0	8180
103	1	2410	1330	810	4550	920	O	920
104	· <b>I</b> .	0.1	800	14620	15420	1,16 to 0.	0	0
1 05	1	1440	400	510	2350	0	0	0
106	·I	0	4120	2720	6840	6260	0	
107	I	0	1740	9600	11340	3750	0	3750
108	I.	0	550	2590	3140	19390	0	19390
109	1	0	1230	4780	6010	11460	1 P 1 P 1 P 1	11460
110	I	0	528	3300	3828	18144	ý , <b>Ó</b>	18144
111	1	0	352	2200		12096		12096
112	1	50	1398	1178	2626			5208
113	I	70	1956	1648	3674		· ·	7290
114	· <b>I</b>	30.	2236			and the second s		8332
115	1	0	350			, and the second se		6000
116	1	0	2240	13400				14470
117	I	0	350	1860			0	<b>0</b>
118		287	371	1148	1805	i .	. 0	2590
119	I	123	159	492	774		0	1110
	I	2280	180	450	2910	1780	0	1780
121	I	840	1150	670			0	1330
	I	2710	970	820			. 0	2290
	1	4880	2260	1710	8850,		0	5900
124	Ţ	3910	4370	4470			. 0	1.2500
125	Ī	1620	180	2930		8140	0	8140
- 126	I	413.	2918	518			0	435
127	I	. 133	973:	173		145	0	145
	1	C	7780	1000	e de la companya de		0	680
129		0	140	3280	3420	0	0	c
	: <b>I</b>	0	0 .	0	0	- 1 T T T T T T T T T T T T T T T T T T	0	0
TOTAL	1	99320	424381	1060100	1583801	1039369	77131	1116500

TABLE 2.7: EMPLOYMENT AND STUDENT BY TRAFFIC ZONE, 2005

		****		- 1 - 1		CTUGTNE		
			WORKER .			STUDENT		: Total
ZONE	I	1_5T	STND	3 RD	TOTAL	PRIMARY	UNIV.	TOTAL
	+							
1		0	570	40690	41260	13700	0	13700
2	1	0	910	51640	52550	50900	0	50900
3	Ţ	0	380	26150	26530	32980	0	32980
	I	0	2610	64640	67250	28100	0	28100
5	I	0	1590	49860	51450	34000	0	34000
6	1	Û	1700	46030	47730	18000	0	18000
7	I	0	1710	15670	17380	19400	0	19400
	Ī	0	435	15730	16165	14050	0	14050
9	Ī.	Ö	435	15800	16235	11670	0	11670
10		ő	13740	25110	38850	48000	0	48000
11	I	ő	6240	10770	17010	12100	0	12100
	Ī	ŏ	17030	7300	24330	26400	0	26400
	Ī	ő	10780	8720	19500	29500	ő	29500
	I	0	2500	16560	19060	300	ő	300
	I	. 0	12940	25550	38490	1600	0	1600
and the second s		0		6410	8790	18770	2430	21200
16	I		2380		19650	18100	5600	23700
17	I	0	12260	7390				27900
	I	0	22140	40870	63010	27900 13430	11070	25400
	I	- 0	2380	17010	19399		11970	
	I	0	3530	12940		37250	9	37250
21		0	7940	10210	18150	22650	0	22650
22	Ĭ .	0	3913	5960	9873	5655	0	5655
7.	T e	0	2107	3209	5316	3045	0	3045
	I	0		10022	12093	3859	773	4632
25		0	1294	6264	7553	2412	483	2895
	I	0	1553	7517	9970	2894	580	3474
	I	0	1553	7517	9070	2894	580	3474
	I	0	2158	10440	12598	4020	805	4825
	I	0	1820	9170	10990	0	0	. 0
	1	0	5005	8848	13853	6510	0	6510
31	I	. 0	2145	3792		2790	0	2790
3.2	I	0	1250	1370	3120	7500	0	7500
33	Ι.,	0	22700	5520	28220	9900	. С	9900
34	·I ·	9.	570	36,50	4220	9000	0	9000
	1	υ	4770	10680	15450	23000	0	23000
36	I	.0	9100	4590	13690	. 0	0	. 0
37	Í	0	1570	1820	3390	0	0	0
38	I .	0	2280	3574	5854	3094	0	3094
39	1	0	1710	2680	4390	2320	. 0	2320
40	1	0	2052	3217	5269	2785	0	2785
41	1	0	0+11	1787	2927	1547	0	1547
42	1	. 0	2166	3395	5561	2939	0	2937
43		0	2052	3217	5269	2785	0	2785
	1	0	4791	9047	13838	4770	0	4770
4.5	1	0	5476	10340	15816	5452	0	5452
46		0	3423		9886	13408	0	3403
47		Ċ	2940	52800	54840	6700	0	6700
The second secon	1	.0	790		and the second second	8900	. 0	8900
49		0	5190		33320		0	38070
	1	. 0	480	- 5190	6670	540	32290	32830

TABLE 2.7 (Cont.)

0.14	***	LIDON CO			OTHER PART		
		WORKER			STUDENT	111. 711	TOTAL
ZONE I	1_ST	2_ND	3_R0	IUIAL	PRIMARY	UNIV.	TOTAL
	1060	1/00	1900	6000			2200
51 I	1850	1480		5220	2200	0	2200
52 I	3090		36380	61810		0	34600
53 I	4020			10910	5400	0	6400
54 1	930	8770	69750			C	47500
55 I	1550		20170	26810	30600	0	30600
56 I	1540		7920	10410	34600	91. T	34600
57 I	930		18100	3 0 2 9 0	to the contract of the contrac	0	49200
58 I	192		16920	19554		0	11340
59 I	128		11280	13036	7560	0	7560
60 I	9270		2520	12250	8200	0	8200
61 I	2240		13660	18400	11200	0	11200
62 I	130	7670	10940		9580	0	9580
63 I	510	19300	37640	57550	40480	0	40480
64 I	220	2530	11240	13990	40240	. 0	40240
65 I	960	1380	5490	7830	2910	12490	15400
66 I	3840	660	300	4800	600	0	600
67 I	1690	2140	700	4530	2390	0	2390
68 I	2110		6710	11310	6700	0	6700
69 I	2910		1500	11010	5510	0	5510
70 1	0		2590	3050	22200	0	22200
71 I	ō	9630	13090	22720	2520		3500
72 I	0	and the second s	17360	31000	15900	0	16900
73 Î	์ ซั	930	49370	50300	58280	7020	65300
74 Î	. 0	12900	14000	25900		0	10500
75 I	. 0	9820	10480	20300	12200	Ď	12200
76 I		1620	5960	7580	5600	ő	5600
77 1	Ö		19430	24820	22000	Ŏ	22000
78 I	0	the second secon	13340	24900	14000	Č	14000
79 I	. 0	and the second s	3110	3960	11900	0	11900
80 I	460		1180	1990	2240	0	2240
81 I	0		45700	46970	7920	13240	21160
· · · · · · · · · · · · · · · · · · ·	460					0	1900
			3780	4700	1900		
83 I	0		1180	1420	2220	0	2220
84 I	0		5330	18880	1790	0	1790
85 I	0			30770	9940	0	9940
86 I	500		1530	11180	640	0	649
87 I	1320			33660		0	5210
88 1	0		8410	96.00	8350	0	8350
89 I	500		9860	11319	0460	0	6450
90 I	500		8410		5300	0	5300
· 5-91 I	770			28520	2250	0	2250
92 I	1879		A 0	1379	440	0 "	440
93 I	. 0		10165	16115	<b>75</b> 05	0	7505
94 I	0		10165	16115			7505
95 I	910		270	1300	590	9	590
96 I	1483		1005	3606	3125	0	3125
97 I	2075		1407	5046	4375	0	4375
98 I	1779	1341	1206	4326	3750		3750
99 I	593	447	402	1442			1250
100 I	1370	. 8860	14250	24480	9070	10030	19100

TABLE 2.7 (Cont.)

			DAY TIM	É	WORKER			STUDENT		
	ZONE	I	1_5	T	5_ND	3_RD	TOTAL	PRIMARY	UNIV.	TOTAL
	101	Ï	593	 ()	460	650	7049	12600	0	12600
	102	1	711		3540	7020	17670	9330	0	9830
	103	Ī	201		1770	1010	4790	1170	0	1170
	104	ī		ō	850	16840	17690	. 0	0	0
	105	ĭ	137	ő:	540	650	and the second second	100	0.	100
-	106	-		0	4180	4970	9150	8500	0	8500
	107	Ī		Ö.	1980	15670	17650	5820	0	5820
	108	1		o -	660	4540	5200	24390	C	24380
-	109	- 7		0	1430	9070	10500	16410	0	16410
,		Ī		o:		7440	8028	24774	0	24774
	111	Ī		0	3 92	4960	5352	16516	0	16516
	112	Ī	· .	ō	2368	1753	4121	6763	0	6763
	113	I		Ö	3314	2453	57,67	9467	0	9467
	114			0	37,88	2804	6592	10820	0	10820
	- 115			Ó	470	8260	3730	8600	0	8600
	116			0	2310	22380	24690	18950	- 0	18950
		I		0	400	2480	2880	0	0	0
		I	17	5	448	2338	2961	4263	0	4253
	119	· T	7	5	192	1002	1269	1827	0	1827
	120		253	0	210	668	3600	1990	$O_{-\epsilon_2}$	1990
-	121	1	127	0	2460	1200	4930	1850	0	1850
		1	329	Ó	1500	1630	5420	2670	0	2670
	123	I	582	0	3010	2230	11060	7600	0	<b>7</b> 600
	124		380	0	9770	17590	31160	23,600	0	
	125	I	203	0	330	5790	8150		0	15770
	126	1	38	3	6555	638		and the second s	0	615
	127	1	12	В	2185	213	2526		0	205
	128	I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	16160	1620	17790		0	910
	129	I		0	200	4130	4330		. 0.	0
	130	I	2500	0	7830	28310	62140		2000	23300
ŀ	TOTAL	1	11472	1	574489	1534550	2223760	1522629	101271	1623900
								the second second		

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						1	12			1.	77	: ]- -	:	. :				٠.	:					٠						%,				r'					?							
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	PCU	821	834	51135	α 	1 N	) ( ) ( ) (	282	558	528	643	533	149	415	) ) ,	1 .	1 4	53.5	32.6	346	993	080	6	2	ເກ ເ ໝ (	S S	0 C	0 6	ဲတိ	3	56.	422	90	100	· 10	27	-4	22	ው <i>የ</i>	n′t ~1 t∽	ر <u>د</u>	) v	7 6	α υυ υ.υ	w	51
	TOTAL	22	4	45201	2.0	1 J	, .	, כו	1 (5	4	. P	4	3	4	3 C	ባ ሶ		. [	7	CO.	72	era .	ന	N,	N	<b>\</b> \		40	, 0	ന	6	7.	- 4	, 6	·N	48	-	ŝ	Ŋ~ ,	3,	Λa	) <i>-</i> -	4 L		0	ή.
	eus	52	82	1433	50,	1 a	10	5 2		(1)	m	-O		r- 1		rc	r ur	w	٠.	-4	œ	∞ .	o ·	0.6	7	n c	) (	ì J	() ن		ന	$\infty$	J G	۰.	O.	S.	·n	O.	· •	Ωti	U 1	֝ ֞ ֞ ֞ ֞ ֞	·O	~	1892	-20
	LORRY	W	9	6435	oo c Nu u	יור. טינ	, 0	9.6	.0	73	80	76	9. O	7,7	<u>٠</u>	t u	J 5	.6	9	78	28	77	-1	r- (	ው (	r 4	3 A	J O	) <b>(</b> ()	2	-4	4.	787	۰ i-	4	Γ-	30	2	<u>ب</u> ر	) (	) M	١ŵ	4 00		in	ı,
) T T O.	a.	37727	895	26728	304 404	30.0	117	453	960	352	476	27043	619	5414	15161	14245	6351	15920	13741	14132	8147	4393	4640	2899	0 0 0 0 0 0 0 0 0	0000	4200	6143	2633	615e	13363	5.07 to 5.07 to	5014	1424	6304	4725.	5508	3147	3985 2007	000	0000	2000	19203	10668	44221	11024
	M/CY	553	792	10605	- r	672		579	N	1	681	100	219	٠.	t -	· u	ነው		N	N	n	<b>⊳</b> 1	٠.	Jrι	n II	<b>3</b> (1)	2 (7	10	· w	•	m.	ഹാ	OO	· N	.+	N	NI.	-4 4	nο	. 14	١	i no		100	-1	0
μ Ε		939	005	51490	2 6	9 6 9 6	654	338	590	681	525	619	7	, o	44.8	4	S. L.	763	358	3.75	686	076 076	٦ ( ک	0 0	- r	9 1	, n	φ.	8	880	597	4 7 7 7 7 7 7 7	† (	299	32	25	800	. C	i n	v c	0	3	749	1	230	t.
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H	ORRY BUS TOTAL	ר פכע ר פכע	RIP ATTR M/CY	ACTION P.CAD	LORRY	808	TOTAL	DCU
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T 179		9413	49034	11611	41575	8139	27428	54067	23230	50185	35861	53909	14948	20837	23817	16255	75864	13740	17975	7763	6523	11485	14728	23714	92820	53804	15314	5201	34247	14995	126601	1022	13174	2940	12760	21126	10291	16893	40076	6848084
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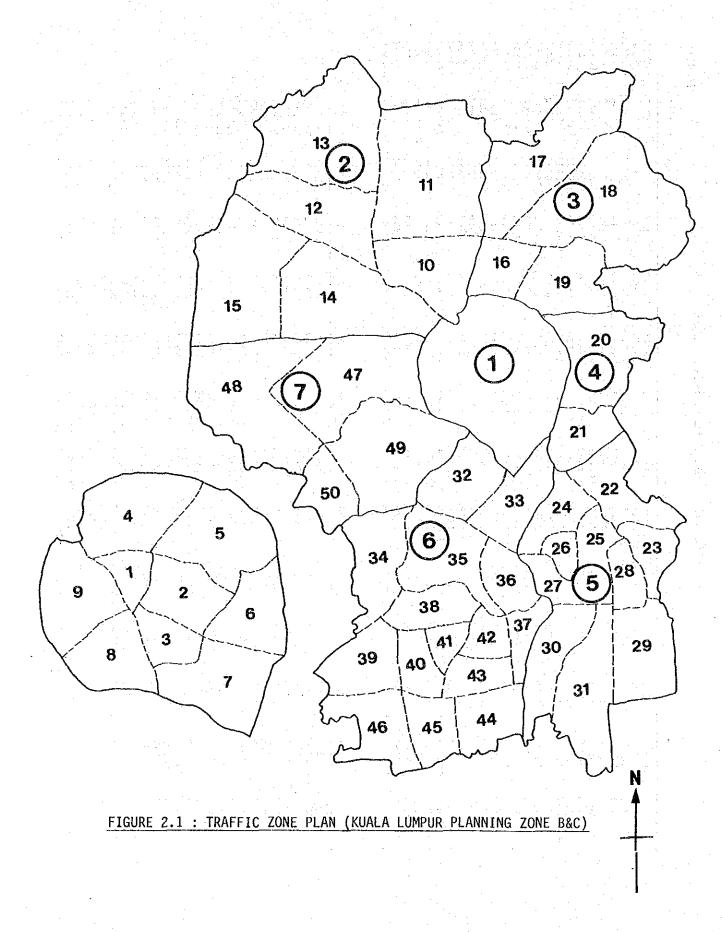
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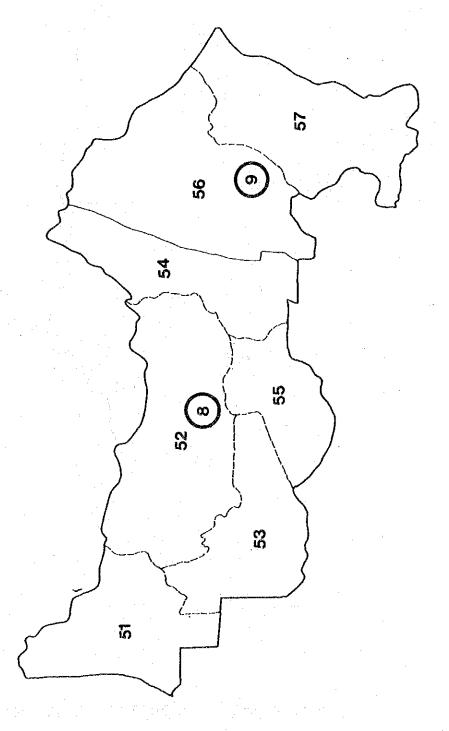


FIGURE 2.2 : TRAFFIC ZONE PLAN (GOMBAK DISTRICT PLANNING ZONE B&C)

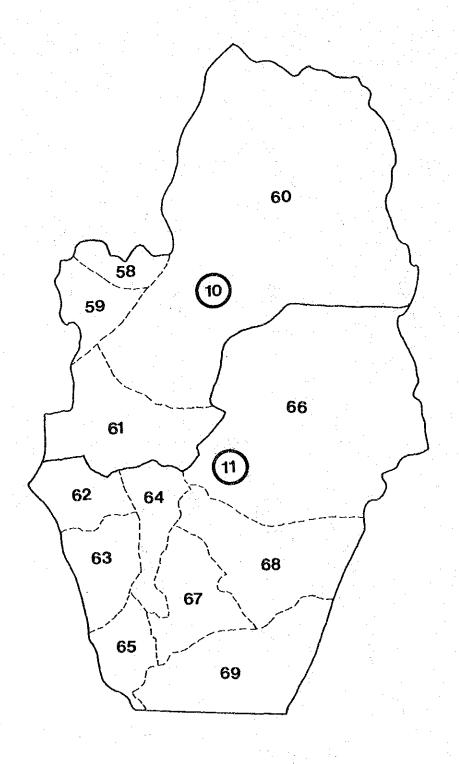
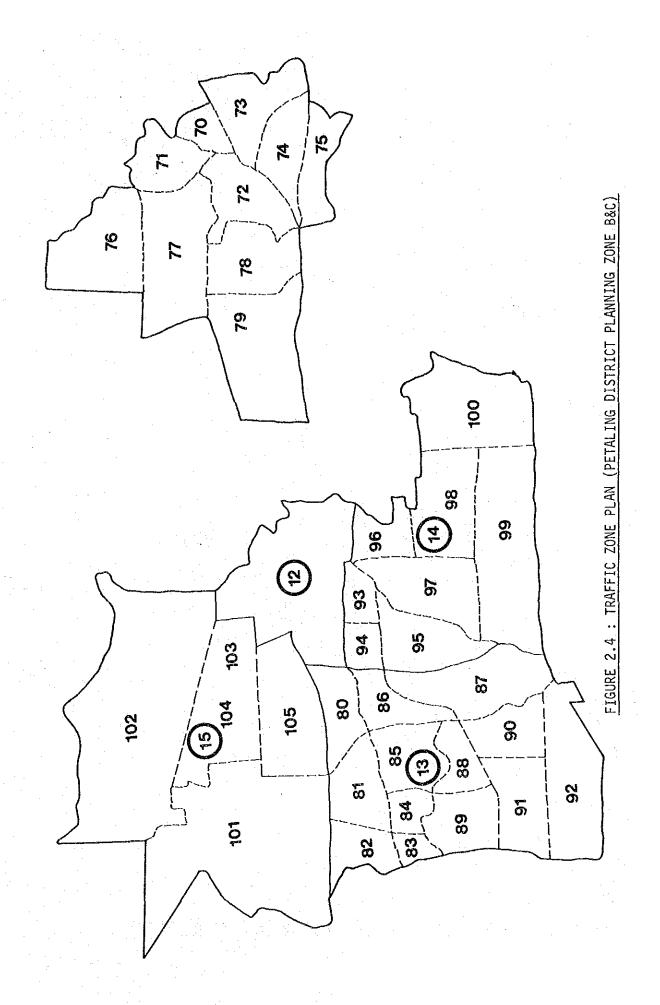


FIGURE 2.3 : TRAFFIC ZONE PLAN (HULU LANGAT DISTRICT PLANNING ZONE B&C)



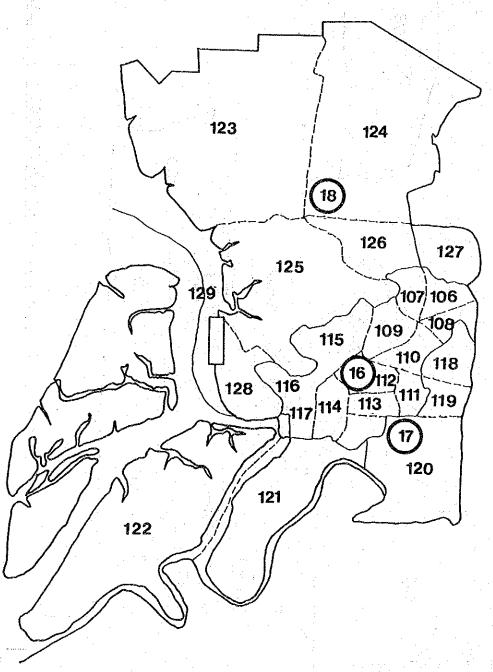
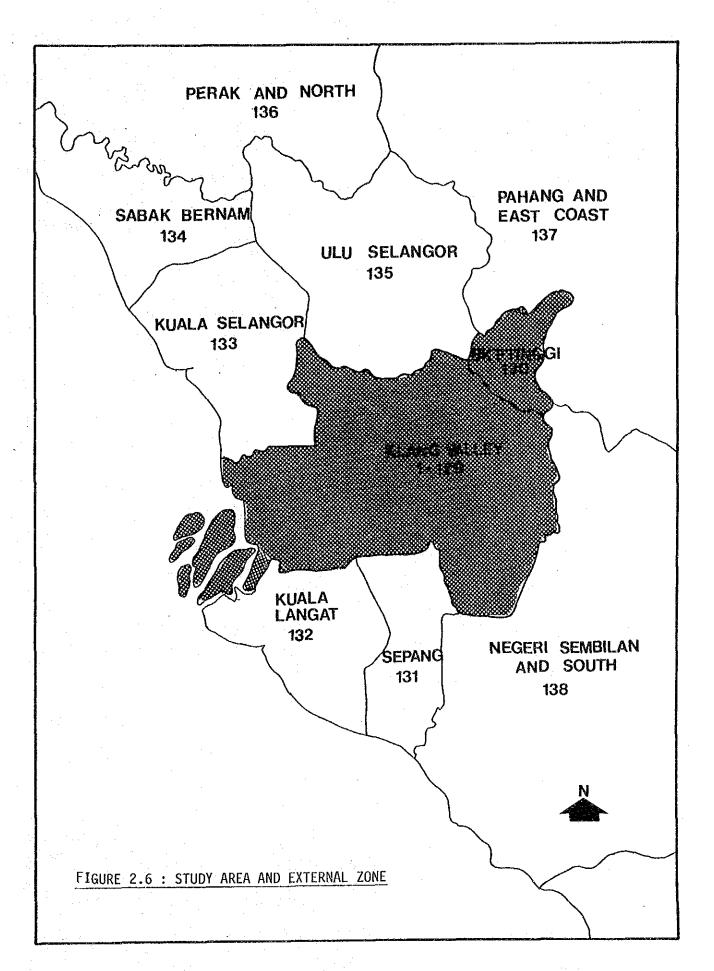


FIGURE 2.5 : TRAFFIC ZONE PLAN (KLANG DISTRICT PLANNING ZONE B&C)



# APPENDIX TO CHAPTER 3

Alternative Route Study

#### 3.1 Route Location and its Alternatives

# (1) Southern part of Middle Ring Road II (MRR-II)

Based on the existing road network in the southern sector of Kuala Lumpur and Petaling Jaya and the corridor landuse, alternative routes for southern part of MRR-II are formulated as shown in Figure 3.1 and described as below:

# (a) Segment A-B (Sungai Midah Area)

The southern part of MRR-II starts at the 8km roundabout on Jalan Cheras which is a 4-lane divided arterial road.

A four-leg, four-way interchange with three-level structure and roundabout was proposed at the Jalan Cheras 8km roundabout by the previous MRR-II Feasibility Study (Northern Part) in 1986.

Three alternative routes are set up in Sungai Midah area to avoid such physical constraints as Taman Midah, Taman Hijau, Taman Taynton, Chinese Cemetery, Taman Connaught and committed on-going industrial development (HAR Holding and Rumah Tulin).

The salient features of each alternative are summarized in Table 3.1.

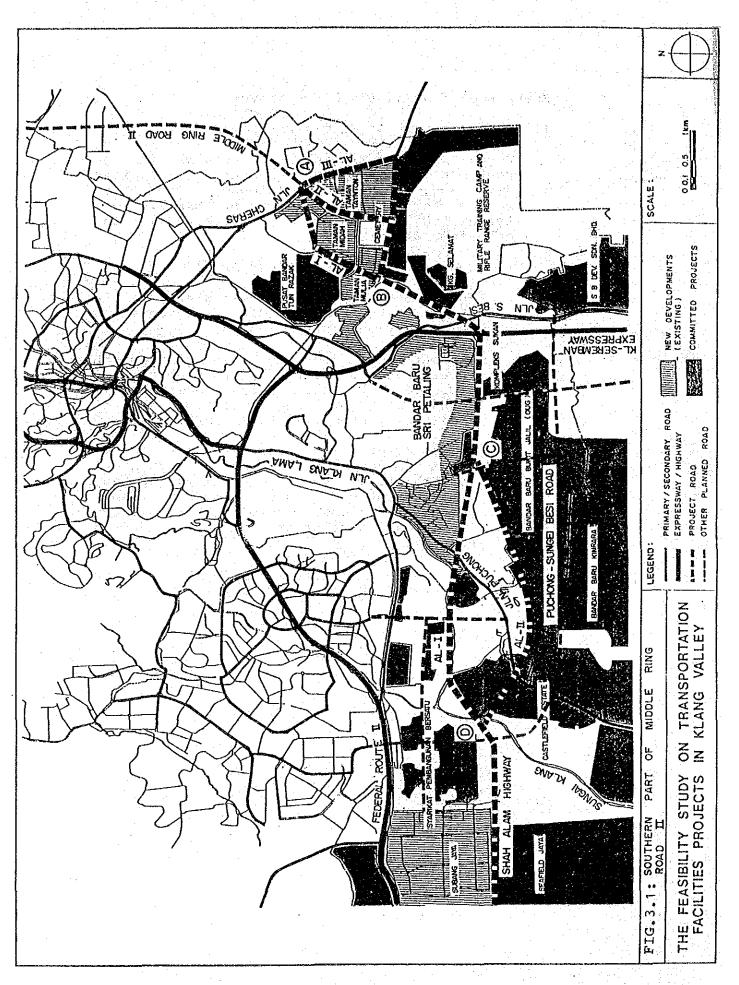


Table 3.1 Atternative Routes In Sundai Midah Area (Segment A-F

Alternative	AL-I	AL-II&	qII-74	AL-III
Item				
Background	The idea presented by the previous study by KEMAS	Original Route : Running in different landuse and providing at-grade intersection	New Idea : The same route as AL-II3 but adopting viaduct scheme	New Idea : Running on the existing Jalan Cheras and Jalan Cenderiewan
Terrain	Rolling	Rolling	Rolling	Flat
Road Throughway	5750	5280	5240	6150
(m) Frontage Road	2000	2000	2000	2650
Interchange Ramp	008	800	006	2500
Proposed Right-of-Way	40m (65%) ; 60m (35%)	40m (59%) : 60m (41%)	40m (22%) ; 60m (78%)	40m (53%) ; 60m (47%)
Land Acquisition Area (ha)	28	30	32	19
Cost Index	2.81	0.42	1,00	0.76
Physical Constraint/Landuse, Erriroument/Road Network/ Traffic Demand, etc.	- to overpass the built-up housing complex of Taman Midah near 80m roundabout on Jalan Cheras and the southern.part of Taman Midah to accomedate the consistent geometric design standard coping with anticipated heavy traffic demand - to provide an elevated road on viaduct in entire stretch to avoid excessive land acquisition and barrier effect of access-controlled road	- to overpass 'Jalan Cherar and run. southward among many physical. constraints such as Thanh Hiddh, Tanan Taynton, Tanan Connaught, Chinese Cemetery, military complex and some committed development - to provide at-grade intersection with Jalan Cendekiawan to minimize the violation of abovementioned constraints - to abandon applying consistent standard of Middle Ring Road II as well as distributing predicted enormous traffic	to adopt almost the same alignment as that of AL-IIa but apply viaduct scheme to accommodate the consistent studied of Middle Ring Road II and meet anticipated heavy traffic demand - to provide ramp to connect with Jalan Cendeklawan  to violate limited land of on-going development in the south by the construction of piers and its foundation	road of Jalan Cheras at 80m roundabout and run southward on the existing Jalan Cheras at 80m roundabout and run southward on the existing Jalan Cheras to utilize the existing right—of—way  ro mix traffic of both Middle Ring Road II and Jalan Cheras eventually to cape with complicated traffic movements  to form an interchange with Jalan Cherakiawan to turn westward to use the existing right—of—way  to provide frontage road on Jalan Cendekiawan to secure the existing function  to as well as alianthuting predicted as well as distributing predicted as well as distributing predicted
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## (b) Segment B-C (Sungei Besi Area)

In Sungei Besi Area, the available road space is limited and there exists several rigid physical constraints such as military camps, PETRONAS LPG depot, SOBENA development, railway track, Asrama Sarawak, Jalan Sungei Besi, Kuala Lumpur-Seremban Expressway and an existing diamond type interchange. Therefore, alignment may be fairly fixed.

The route for MRR-II continues westward between the northern bank of the Sungai Kuyoh and south of housing development (Bandar Baru Sri Petaling, Taman Overseas Union and Taman Yarl, etc.). Access to these housing development can be maintained via frontage roads.

Further south of Sungai Kuyoh, Puchong-Sungei Besi road is planned to run parallel to MRR-II, forming a vital feeder system to National Sports Complex, Bukit Jalil/Kinrara/Castlefield/ Sunway development and the surrounding area.

#### (c) Segment C-D (Kampung Kuchai Area)

In Kampung Kuchai area, two alternative routes are to be examined in avoiding built-up areas and on-going Kinrara Development. The two alternatives are termed riverside and hillside scheme.

The salient features of each scheme are summarized in Table 3.2.

After MRR-II crosses Sungai Klang, it is proposed to connect with Shah Alam Highway at Sunway Interchange where Puchong-Sungei Besi road and the extension of Jalan SS 8 will lead to the western part of MRR-II.

Table 3.2: Alternative Routes In Kampung Kuchai Area (Segment C-D)

		- 1		
į	Alternative	AL-1 (Kiverside	scheme)	AL-11 (HILLSIGE SCHEME)
ר כפוון				
Background		Original Route	Running along the riverside of Sungai Klang and Sungai Kuyoh	New Idea : Running in different landuse
Terrain	164111111111111111111111111111111111111		Flat	Rolling
Road	Throughway	 	7550	8100
reng cu (u)	Frontage Road			0
s a .	Interchange Ramp		2520	3020
r Propose	Proposed Right-of-Way	40m (38%) :	60m (50%): 80m (12%)	40m (22%): 60m (62%): 80m (15%)
d Land Ac	Acquisition Area (ha)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70
Cost	Index	!	1.00	1.03
r Physical Environme Traffic I	Physical Constraint/Landuse/ Environment/Road Network/ Traffic Demand, etc.	to overpass residential a an elevated barrier effect	overpass the existing industrial and idential area along Jalan Puchong by elevated road on viaduct to avoid rier effect of access-controlled road	to pass in the south of Jalan Puchong and in between the existing developed area and undeveloped rolling hills to mitigate the disturbance of the existing developed area
S		- to pass in be housing devel	pass in between on-going Taman Kinrara sing development and Sungai Klang	- to avoid adverse subsurface soil and hydrological conditions encountered in the scheme of AL-I.
		- to form an ir Petaling Jays of Sungai Kla Petaling Jays	form an interchange with a planned aling Jaya-Puchong road in the south Sungai Klang to provide access to aling Jaya and Puchong	- to form eventually an interchange with Jalan Puchong in hilly area near Bukit Tandang

#### (2) Shah Alam Highway

Based on the existing road network and corridor landuse along Shah Alam Highway, alternative routes are formulated as shown in Figures 3.2 and 3.3 and described as below:-

## (a) Segment E-F (Port Klang Area)

Shah Alam Highway starts from Klang West Interchange on North Klang Straits Bypass which is now an undivided two-lane tollway but will duly be improved to a 4-lane divided and access controlled tollway in the future.

The proposed route will be adjacent to the planned PKNS North Port Town Centre boundary and may inevitably violate the eastern portion. Nevertheless, the eastern portion can hardly be considered to be used for the construction of town centre buildings because it exists on the river basin and deep soft soil.

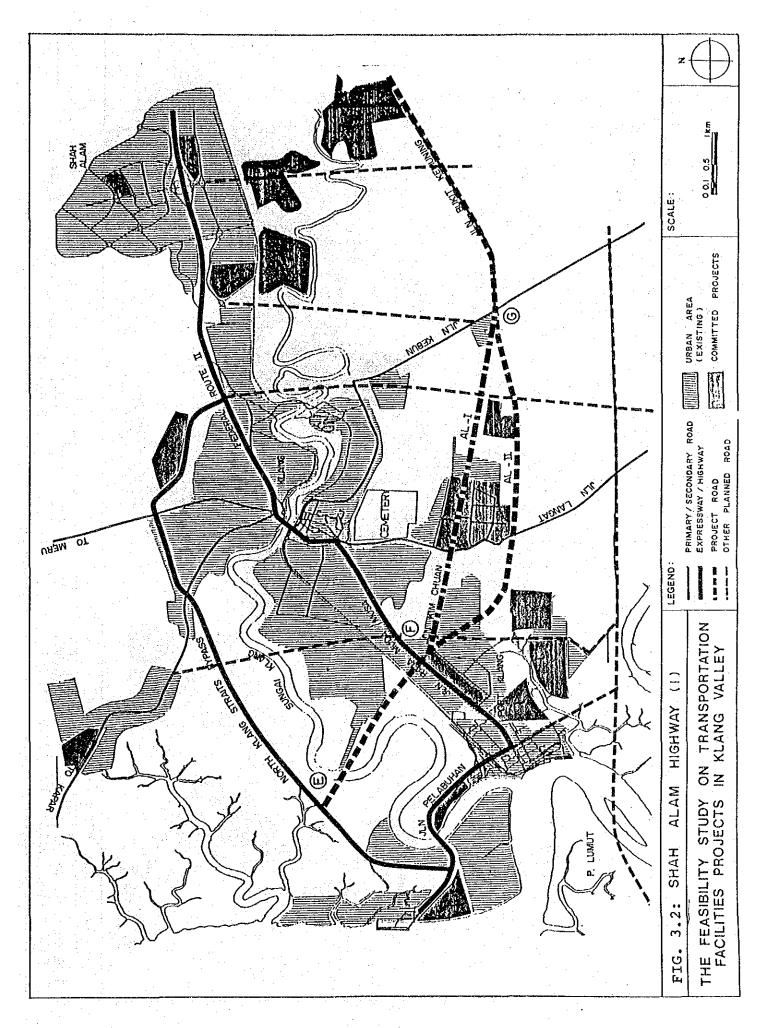
Between Klang West Interchange and Kim Chuan Interchange the proposed route passes along the north of the existing bund on Sungai Klang bank, crosses the railway track, runs along Jalan 2-Kaw.6/Jalan Petola to intersect with Persiaran Raja Muda Musa and continue eastward on the existing Jalan Kim Chuan.

#### (b) Segment F-G (Kampung Teluk Gadong Besar Area)

Here, two alternative routes are set up for exploring how to pass both the residential areas of Taman Sri Andalas and Taman Klang Jaya.

The Sri Andalas Route (AL-I) adopts the original corridor of Shah Alam Highway which was selected by the Klang Valley Transportation Study, while the Klang Jaya Route (AL-II) bypasses in the south of Taman Klang Jaya.

The salient features of each alternative are summarized in Table 3.3.



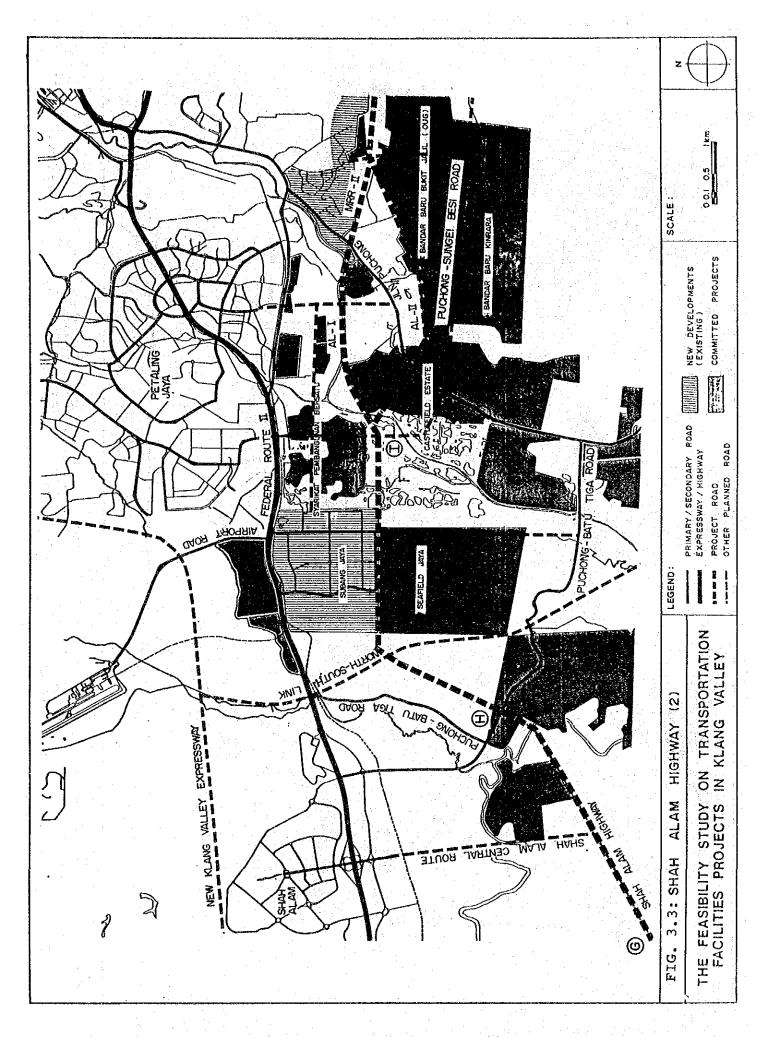


Table 3.3: Alternative Routes In Kampung Teluk Gond Besar area (Segment E-G)

	Alternative	AL-I (Sri Andalas Route)	AL-II (Klang Jaya Route)
Item			
Background		Original Route : Running on the boundary road of Jalan 1 Kaw 3 between Taman Sri Andales and Taman Klang Jaya	New Idea : Running in different landuse
Terrain		Flat	Flat
Road	Throughway	8050	9300
(m)	Frontage Road	3000	700
	Interchange Ramp	3780	3220
Propose	Proposed Right-of-Way	40m (33%); 60m (19%); 80m (48%)	60m (94%) : 80m (6%)
Land Ac	Cand Acquisition Area (ha)	43	53
Cost Index	dex	2*30	1,00
Physica Environ Traffic	Physical Constraint/Landuse/ Environment/Road Network/ Traffic Demand, etc.	- to run eastward on the existing Jalan Kim Chuan and Jalan 1 Kaw 3 to utilize the existing right-of-way	- to run south-eastward from Jalan Kim Chuan in between the existing residential area and agricultural area to mitigate the disturbance of the existing developed area
นอเเ		- to form an interchange with Jalan Langat at the existing at-grade intersection	- to bypass in the south of Taman Klang Jaya to avoid disturbing the built-up housing complex and its future expansion
εS		- to overpass the residential area by an elevated road viaduct to avoid excessive land acquisition and barrier effect	<ul> <li>to form an interchange with Jalan Langat at 2km far from the existing Kim Chuan Intersection</li> </ul>
		- to provide frontage roads to secure the function of existing roads	

#### (c) Segment G-H (South Shah Alam Area)

From Jalan Kebun to Jalan Puchong - Batu Tiga road, the alignment of Shah Alam Highway is fairly fixed on existing Jalan Bukit Kemuning where Shah Alam Highway will play an important role to form a grid pattern road network for Shah Alam. To maintain the existing situation of traffic along Jalan Bukit Kemuning as well as to provide accesses to Shah Alam Highway, frontage roads on both sides of Shah Alam Highway can be provided.

#### (d) Segment H-I (South Subang Jaya Area)

In this segment, Shah Alam Highway is proposed to run north-eastward to intersect with N-S Link. Seafield Development, planned at the south of Subang Jaya has secured enough space for Shah Alam Highway to pass between the present Subang Jaya and future Seafield Development.

Accordingly, no alternative route is set along this stretch, but some alternatives relating to the location and types of interchanges will be studied.

Finally, Shah Alam Highway crosses the existing Sungei Way tin mining field and extends eastward to join MRR-II.

The Sungei Way tin mining field is scheduled to stop operating in the near future and later to be developed into a residential area. Therefore, Shah Alam Highway and Sunway Interchange will be designed to meet the future needs.

# (3) North-South Expressway Link (N-S Link)

Based on the existing road network along the corridor of N-S Link and corridor landuse shown in Figures 3.4 and 3.5, alternative routes are studied and described as below:

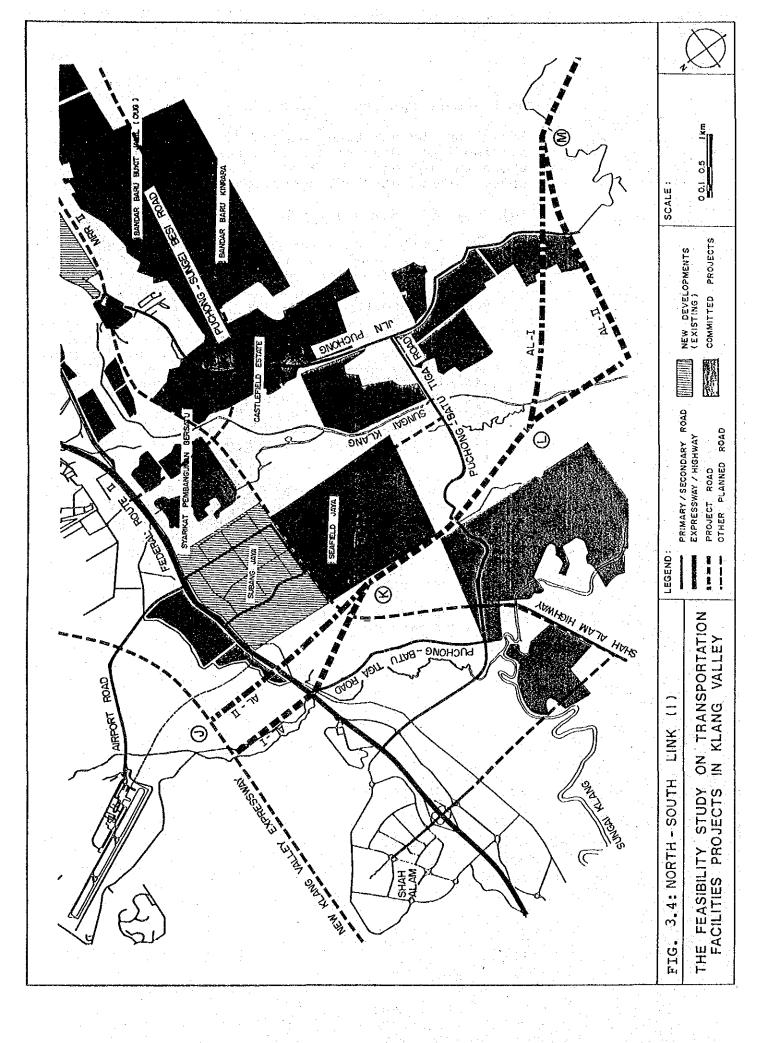
#### (a) Segment J-K (Subang Area)

N-S Link which starts from New Klang Valley Expressway in Subang area to form a three-leg junction with semi-directional ramps, runs southward to cross Federal Route II and and the railway track.

At the starting point and at the intersection with Federal Route II near Batu Tiga, Selangor State JKR plans on widening the existing Jalan Subang-Batu Tiga (new Jalan TUDM-Shah Alam). To meet the scheme of the State JKR's road, two alternatives are prepared, namely, Batu Tiga Route (AL-I) and Subang Route (AL-II).

Batu Tiga Route aims to follow the alignment of the planned road to make N-S Link functional and economical if the design standard of the new road can satisfy or adjust to that of N-S Link, while Subang route remains independant of this new road to keep its own alignment.

The salient features of each alternative are summarized in Table 3.4.



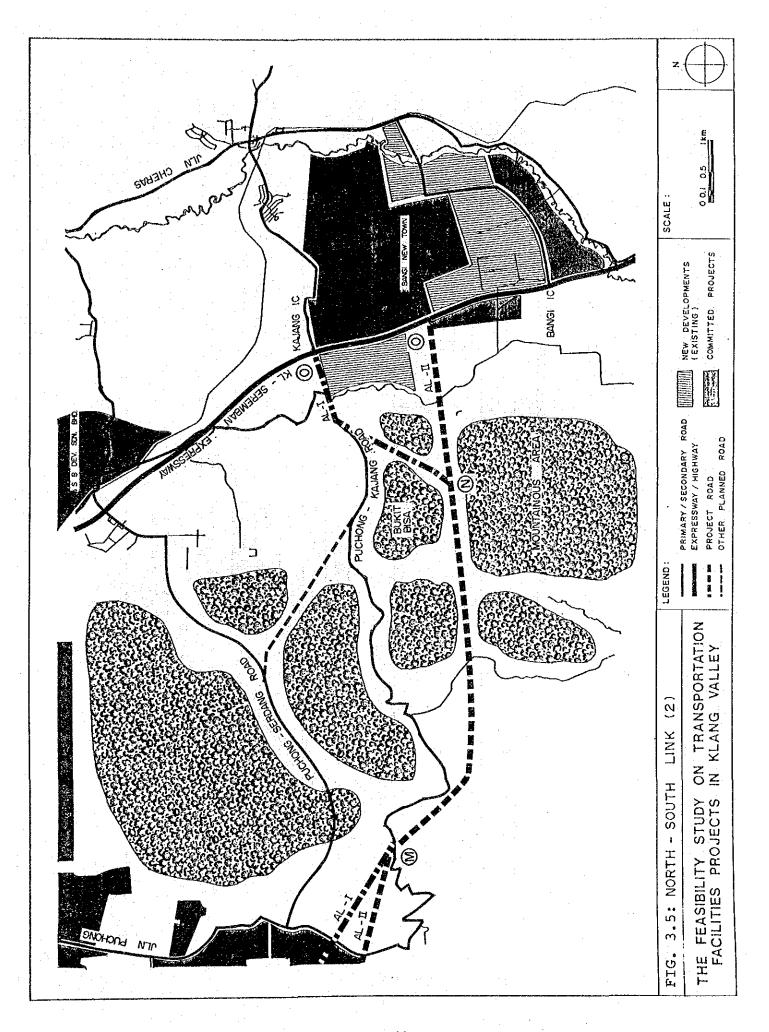


Table 3.4: Alternative Routes In Subang Area (Segment J-K)

Alternative	AL-I (Batu Tiga Route)	AL-II (Subang Route)
Background	New Idea : Running on the new Jalan TUDM-Shah Alam	Original Route: Running along the western end of Subang Jaya and Seafield Development
Torrest and the state of the st		SOLUTION STATE OF THE STATE OF
Road Throughway		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
(m) Frontage Road	The second of th	
Interchange Ramp	0086	
Proposed Right-of-Way	100 mos : (895) mos : (895) mos	(100 <b>%</b> )
Land Acquisition Area (ha)	600	102
Cost Index	1.00	1
Physical Constraint/Landuse/ Environment/Road Network/ Traffic Demand, etc.	- to utilize the existing right-of-way of new Jalan TUDM-Shah Alam from New Klang Valley Expressway to Federal Route II to minimize land acquisition area	- to run in the buffer zone between Shah Alam and Subang to avoid barrier effect of access-controlled road
	<ul> <li>to utilize a planned interchange with Federal Route II with necessary modification</li> </ul>	- to keep the own alignment and inter- changes to provide high mobility and high serviceability
	- to provide frontage road to keep the original functions of new Jalan TUDM-Shah Alam	

## (b) Segment K-L (HICOM Area)

The westward expansion of Subang Jaya and planned Seafield Development will have their western end facing N-S Link corridor. Jalan Puchong-Batu Tiga, which has two interchanges with both Shah Alam Highway and N-S Link, will provide access to these two developments.

N-S Link manages to pass the very narrow strip between the south-west corner of Seafield Development and the north-east corner of HICOM development.

Along Jalan Puchong-Batu Tiga, some squatter settlements are reported. The route of N-S Link, therefore, runs southward to avoid disturbance of the existing social environment.

## (c) Segment L-M (Kampung Bahru Puchong Area)

Along the eastern bank of Sungai Klang, N-S Link is proposed to connect with South Klang Valley Expressway to form a three-legged system interchange.

alternative routes are set up accomodate a desirable route on the linkage of one of either Shah Alam Highway or South Klang Valley Expressway Kuala Lumpur-Seremban Expressway, namely, Northern Route (AL-I) and Southern Route (AL-II). The northern route runs on boundary between urbanized area provide agricultural/forest area to and route more desirable shorter alignment on the linkage between Lumpur-Seremban Expressway and Shah While, the southern route aims Highway. to run in the south of urbanized area accomodate a desirable route and location of the junction connecting with South Klang Valley Expressway. salient features of each alternative The summarized in Table 3.5.

Table 3.5: Alternative Routes In Kampung Bahru Puchong Area (Segment L-M)

				:						
į		Alternative	AL	AL-i (Northern Route	rn Route)			AL-II (Southern Route	hern Route)	
Htem	e		-							
Ba	Background		TO TO	Original Idea		Running on the boundary between urbanized and agricultural/forest area	oundary d and est area	New Idea : E	Bypassing wide in the south	Bypassing wide mining field in the south
! !	Terrain	, [ ]	 	 	Flat	t		; 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flat	
	Road	Throughway	             	1 1 1 1 1 1 1 1	11,570	7.0		! ! ! ! ! !	12,720	
	m) (m)	Frontage Road	             			0	 		0	 
•		Interchange Ramp	1		1,000	00			2,750	
	Proposed	Proposed Right-of-Way	   	 	60m (1008	00%)			60m (100%)	
s	Land Ac	Land Acquisition Area (ha)	    -  -  -  -	 	] 	73	 		91	 
9 7	Cost Index	Index	 			60.			1.00	1
Salient Featu	Physical Bhviroal Traffic Traffic	Physical Constraint/Landuse/ Bnvironment/Road Network/ Traffic Demand, etc.		coaccomodate desirab on the linkage betwee Seremban and Shah Alae Seremban and Shah Alae to run south-eastward river and wide mining on the boundary of a area to form a junction wi valley Expressway on in the east of Sungai to form an interchang to provide access to	interchair ind Shah A ind Shah A inde mini indary of junction ressway of intercha	to accommodate desirable route focussing on the linkage between Kuala Lumpur-Seremban and Shah Alam Highway  to run south-eastward to cross the Klang river and wide mining field (no operation on the boundary of a future urbanised area  to form a junction with South Klang Valley Expressway on the old mining field in the east of Sungai Klang  to form an interchange with Jalan Puchong to provide access to the road network in this district	focussing the Klang o operation) banised klang ining field lan Puchong	Loaccomodate focusing on t Lumpur-Seremba Klang Valley E  to run southwa river and narr operation) to soil condition  to form a junc Valley Express Sungai Klang  to need an add improvement to interchange	to accomodate preferable route focusing on the linkage between Ku Lumpur-Seremban Expressway and Sout Klang Valley Expressway to run southward to cross the Klang river and narrow mining field (no preration) to avoid adverse subsurt soil condition to form a junction with South Klang Valley Expressway in the south of Sungai Klang to need an additional access road a improvement to Jalan Puchong at an interchange	to accomodate preferable route focusing on the linkage between Kuala Lumpur-Seremban Expressway and South Klang Valley Expressway and South Klang Valley Expressway and South to run southward to cross the Klang river and narrow mining field (no operation) to avoid adverse subsurface soil condition to avoid adverse subsurface soil condition with South Klang Valley Expressway in the south of Sungai Klang to need an additional access road and improvement to Jalan Puchong at an interchange

#### (d) Segment M-N

Many oil palm and rubber estates are located between Jalan Puchong and Kuala Lumpur-Seremban Expressway where mountainous and rolling hills are the predominent landform. Thus, the alignment of N-S Link is selected to traverse gentle slope to meet the design criteria so as to be functional yet economical.

#### (e) Segment N-O (Kampung Abu Bakar Area)

In this segment, N-S Link passes in the south of Bukit Bisa and runs toward Kuala Lumpur-Seremban Expressway. In Kampung Abu Bakar area, two alternative routes are set up to connect with Kuala Lumpur-Seremban Expressway, namely, Kajang Route (AL-I) and Bangi Newtown Route (AL-II).

These alternatives are based on two schemes, combination of system interchange and service interchange scheme and separation of both interchanges scheme.

The salient features of each alternative are summarized in Table 3.6.

Table 3.6: Alternative Routes In Kampung Abu Bakar Area (Segment N-O)

Item	Alternative	AL-I (Combination of Junction and Interchange Scheme-Kajang Route)	Separation of Junction and Interchange Scheme - Bangi Newtown Route)
Background		New Idea : Connecting with Kuala Lumpur - Original Idea : C Seremban Expressway at an Existing interchange so that all traffic will be distributed at a single place o	Connecting with Kuala Lumpur-Seremban Express- way in between Kajang and Bangi Interchanges in order to distribute
			traffic to Bangi Newtown at two places
Terrain	######################################	Rolling	Rolling
形 1 2 2 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	) i i	6220	5500
(m)	-	2000	
- 1	Interchange Ramp	0065	4900
	Proposed Right-of-Way	60m (68%) : 80m (32%)	60m (100%)
	Land Acquisition Area (ha)	41.	47
Cost	Index	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.00
e Physical L Environme Traffic	Physical Constraint/Landuse/ Environment/Road Network/ Traffic Demand, etc.	- to utilize the existing right-of-way at - to distribute traffic to Kajang Interchange to form a junction and its arterial road net with Kuala Lumpur-Seremban Expressway efficiently by existing the change of Kajang Interchar	to distribute traffic to Bangi Newtown and its arterial road network efficiently by existing two inter-
tnəil		- to use the existing right-of-way of Interchange (i.improved road in the west of Kajang direct ramp to Interchange and provide frontage road to secure the existing function - to form a function	e (i.e. no provision of p to the Newtown centre functional yet economical
e S		junction ea to use	
		- to connect with arterial road network in Bangi Newtown directly	