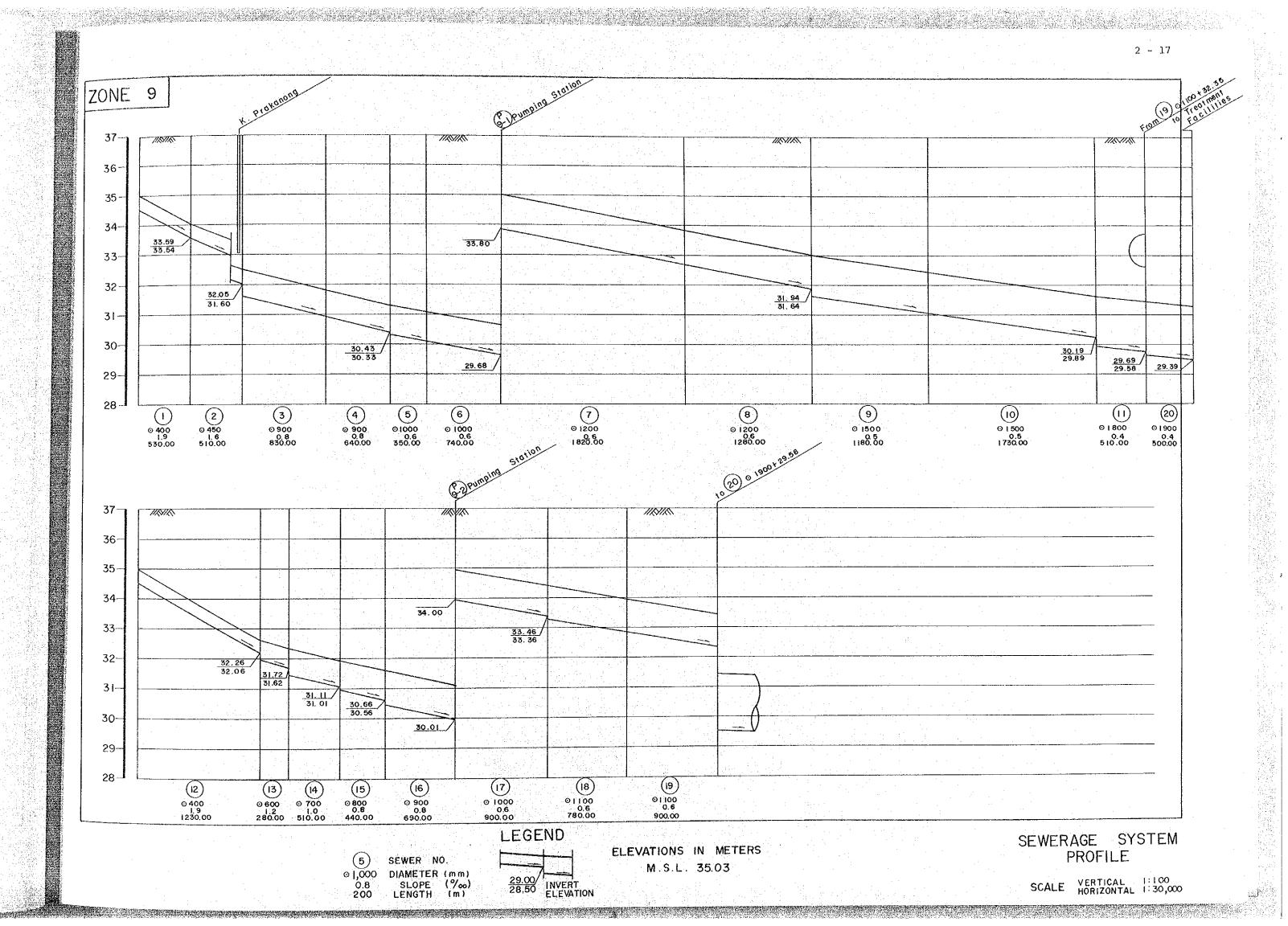
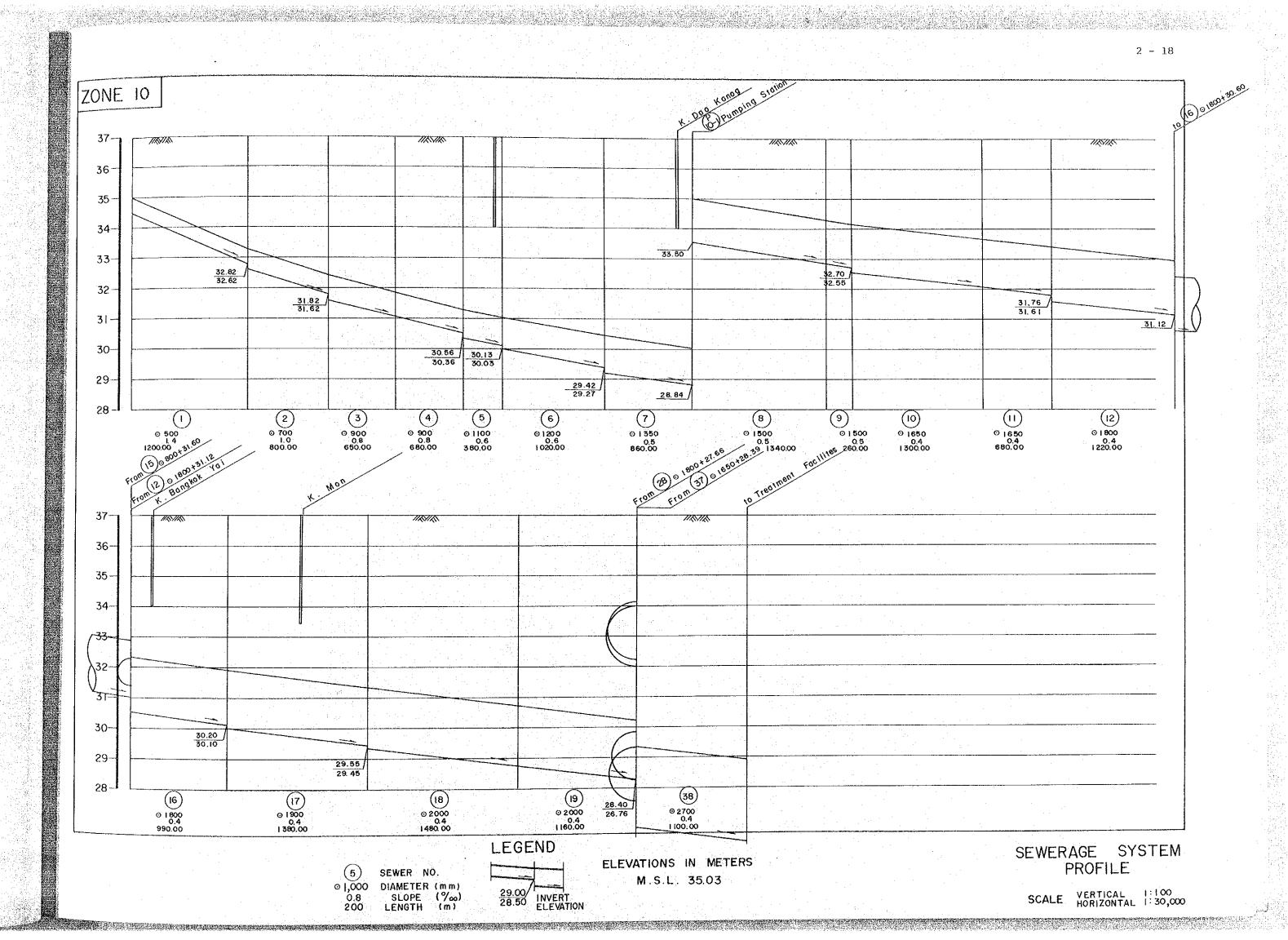
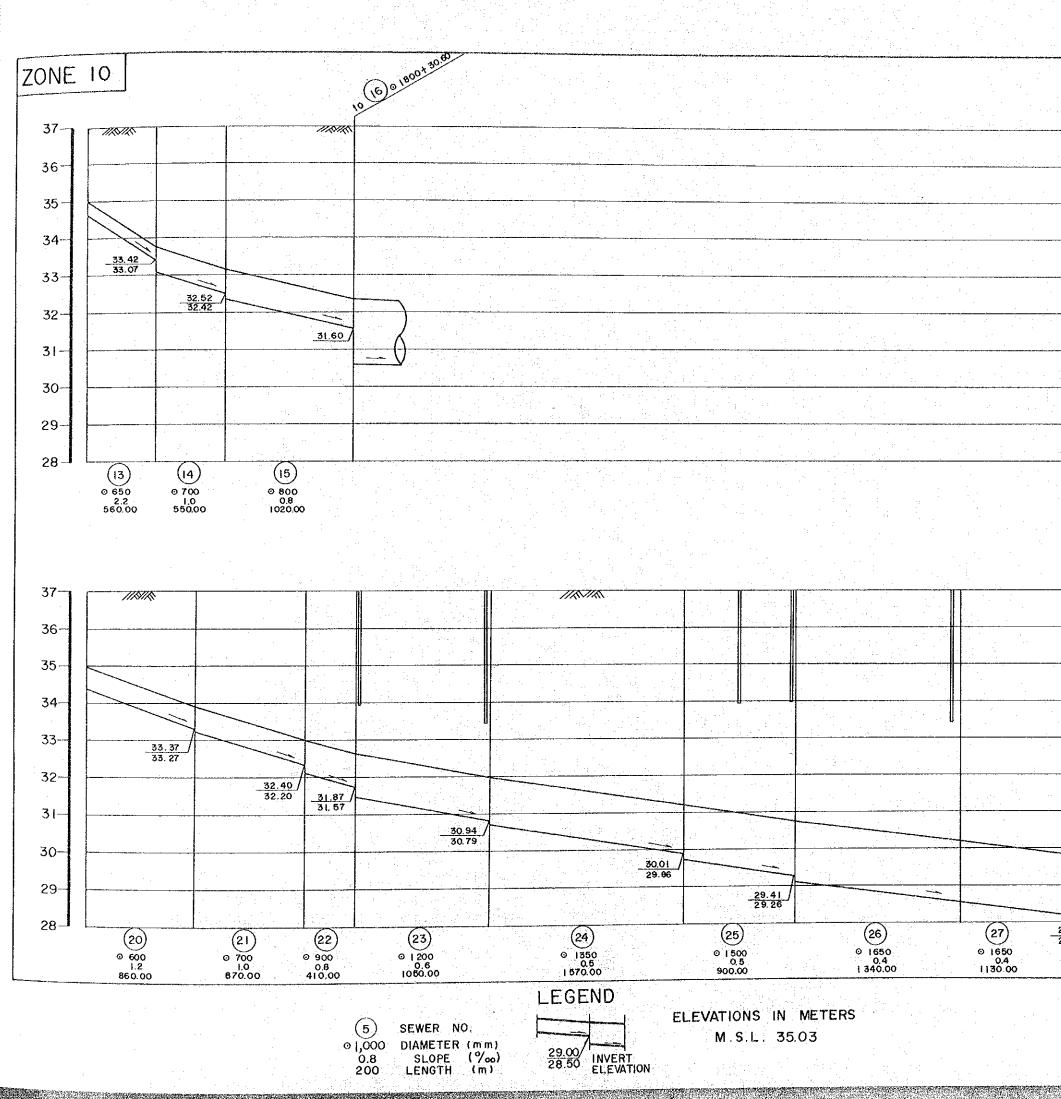


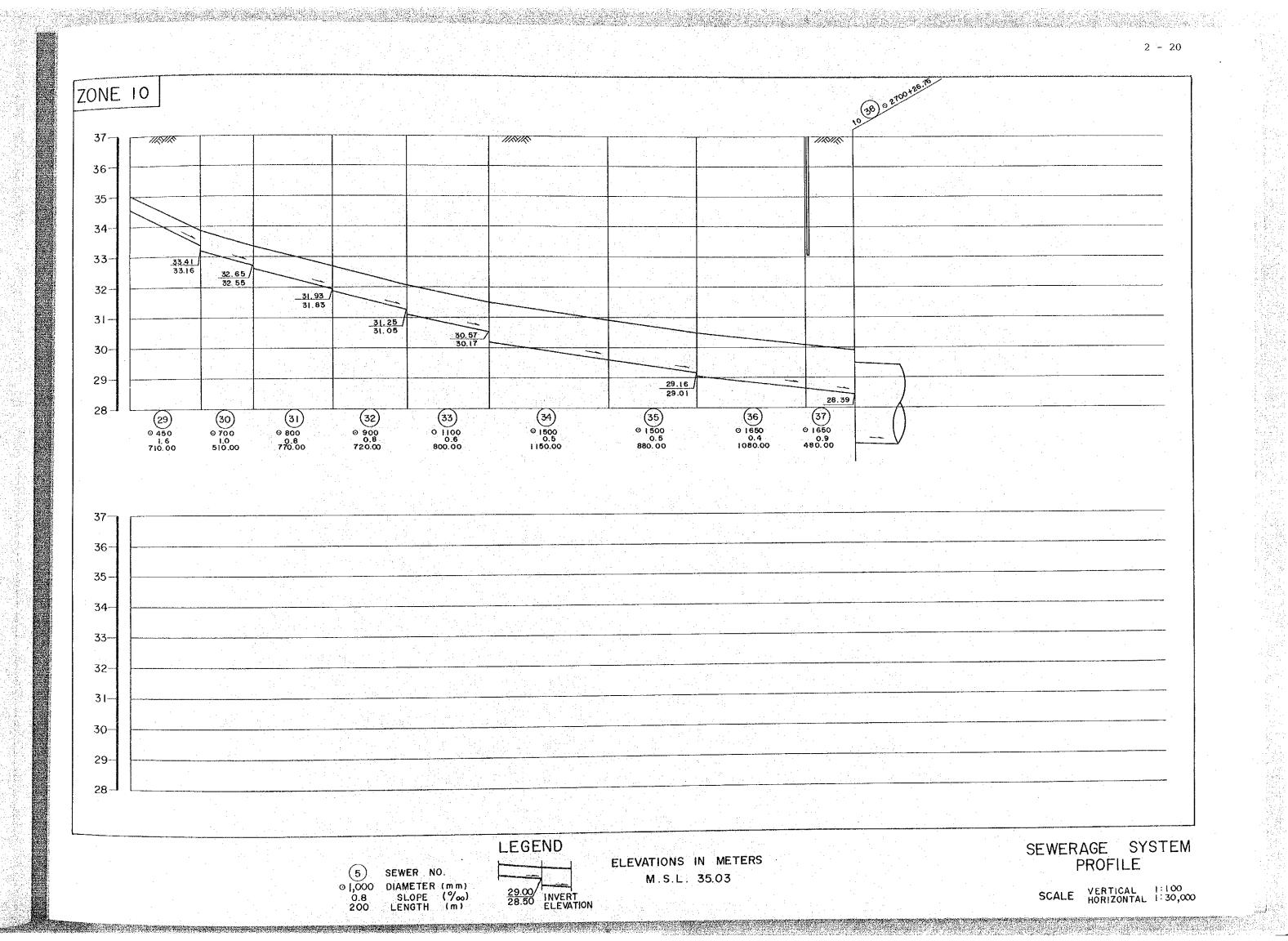
2 - 16 SEWERAGE SYSTEM PROFILE SCALE VERTICAL 1:100 HORIZONTAL 1:30,000

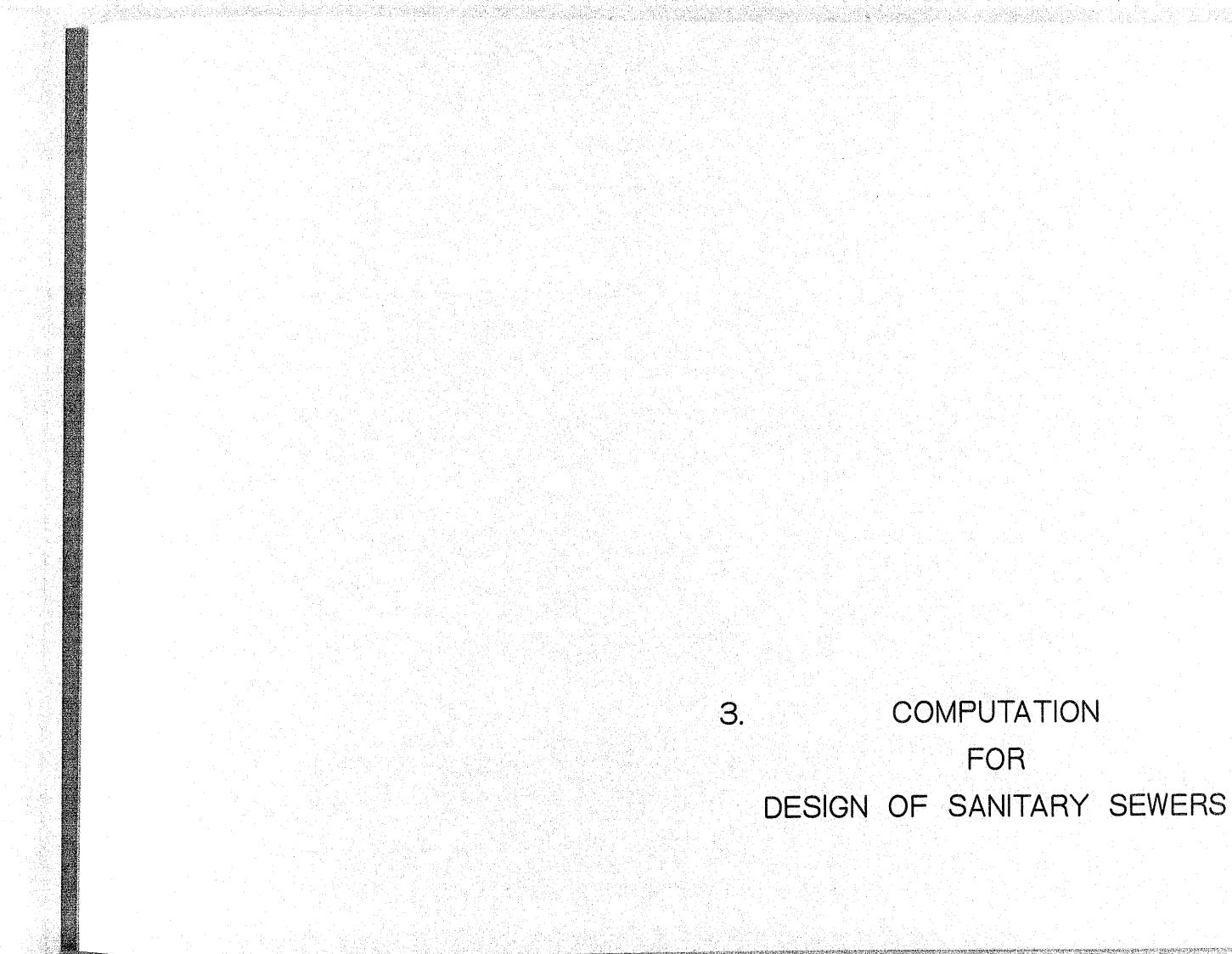






2 - 19 10 38 0 2700 28.76 TINTR 28.27 28.12 28 [©] 1800 0.4 1 150.00 ----27, 66 SEWERAGE SYSTEM PROFILE SCALE VERTICAL 1:100 HORIZONTAL 1:30,000 a gun gana ang





	Nome	of Zone	· -		Area	(ha)		pulation Density	Popula	Ition		Uni	t F	ow]						· .	·	
			R		Commer	cial Tot					Per Co	ipita Cor	nmercia	l Infi	Itration	. <u>.</u> .							
le sur contraction de la contraction de	ZON	E I		3,020	380	3,4	00 30	o persons ha	1018,700	persons	201	/c/d	16 ^m */	na/d 7.	.6 ^{m³} /ha/d								
		Area	hv Lan	d Use	1								T			H		para ana ana ana ana ana ana	ter her en en besedere en				T
r S	Posi	dential	r	nercial	<i> </i>	Area		Don	nestic W	astewater	Flo	W	Othe	r Flow				Des	igned	Sewer			
eve	Near	Area	 	Area	11		afior	47.8	Ŧ		<u>o</u>				Tatal				9	E	Å_	<u>+</u>	
Z0. 01 S	Increment	Total	Increment	Total	Increment	Total	Total Population	Residential (Åve.)	Commercial (Ave.)	Total	Peaking Factor	Peak Flow	Industrial	In fil tration	Total Design Flow	Diameter	Length	Slope	Velocity (Full)	Capacity (Full)	Ground Surface Elevation	Sewer Invert Elevation	Remarks
	ha	ha	ha	ha	ho	ha	persons	^{m³} /s	m³/s	m³/ s	å	m ³ /s	m³/s	^{m³} / s	^{m³} /s	mm	ក្	%00	m/s	^{m3} /s	m	m	
\bigcirc	30.12		3, 15		33.27		9,980	0. 023	0.004	0.027	4.0	0.108		0.003	0. [1]	⊙ 500	1000.00	1.4	0.62	0. 122		<u>34.50</u> 33.10	
(2)	04.00	115.10	44 79	47.94	129 77	163.04	48.910	0. 114	0.064	0 179		0.40.9		0.014						0.050		32,50	
	84.98	10.10				100.04	+0.010	V. 114	0.004	0, 178	2.8	0.498		0.014	0.512	01100	620.00	0.6	0.69	0. 656		32 13 32 03	
(3)	46.50	161.60	32,01	79.95	78.51	241.55	72.470	0. 169	0. 107	0. 276	2.6	0.718		0. 021	0.739	01200	1120.00	0.6	0.73	0. 828		31.36	· · · · · · · · · · · · · · · · · · ·
land distriction	to	6																					
$\overline{\bigcirc}$																	L e					34.60	
$\underline{\mathbb{O}}$	20.27			· · · · · · · · · · · · · · · · · · ·	20.27		6,080	0.014		0. 014	4.6	0.064		0.002	0.066	⊙ 400	1600.00	1.9	0.63	0. 079		31.56	
5	112.70	132.97	3.61	•	116.31	136.58	40,970	0.095	0.005	0. 100	3.2	0.320		0.012	0.332	o 900	800.00	0.8	0.70	0.444		31,06 30,42	
6																				-		29.82	
	134.46	429.03	44.05	127 61	178.51	556.64	166,990	0, 388	0.1717	0,559	2.3	1.286		0.049	1.335	⊙1500	1220.00	0.5	0.78	.1. 370		29.21	
		;																· ·					Pumping Statio
									.							- 1 0 0 0				0.701		33.10	
	504.40	933.43		127.61	504.40	1 061.04	318,310	0. 74 1	0. 17 1	0.912	2.1	1.915		0.093	2.008	01900	1840.00	0.4	0.81	2.301	0	<u>32.36</u> 30.90	
(8)	323.14	1 256.57		127.61	323.14	1 384.18	415,250	0. 966	0. 171	1. 137	2.0	2.274		0. 122	2.396	02000	1550.00	0.4	0.84	2.639	57.00	30.28	
(9)									A 17	1 070		0.540		0.130	0.070	0.0.100	1700.00	0.4	0.97	7 005	74	30 18	
\vdash		1 446.54		127,61	189.97	1 574, 15	472,250	1. 099	0. 171	1, 270	2.0	2.540		0, 138	2.678	<u>002100°</u>	1320.00	0, 4	0.87	3,005,		29.65	
	to	(73)		<u></u>																· .			
(10)	2.43			:	0.43		770	0.002		0.002	4.8	0.010		0.001	0.011	o 200	265.00	4.5	0.61	0.019		34.80 33.61	
\vdash	2.43				2,43		730	0.002		0.002												33.51	
\mathbb{U}	7.40	9.83		<u> </u>	7.40	9.83	2,950	0.007		0.007	4.8	0.034	<u> </u>	0.001	0.035	⊙ 300	300.00	2.8	0.63	0. 044		32.67	
(12)	21.10	30.93			21.10	30.93	9,280	0. 022		0, 022	4.2	0.092		0.003	0.095	⊙ 450	610.00	1.6	0, 62	0.099		<u>32,52</u> 31,54	
		00.93	·		E1.1V		5,200	<u></u>														31.39	
$\mathbb{P}_{}$	22.33	53.26			22.33	53.26	15,980	0, 037		0.037	3.8	0.141		0.005	0. 146	⊙ 600	240.00	1.2	0.65	0, 184		31.10	
	0.00	53,26		· · · · ·	0.00	53.26	15,980	0. 037		0, 037	3.8	0.147		0.005	0. 152	◎ 600	50.00	1.2	0.65	0.184		31.10 31.04	· · · · · · · · · · · · · · · · · · ·
(15)			· · · · ·																			31.04	
	H.50	64.76		:	11.50	64.76	19,430	0,045		0.045	3.6	0.162		0.006	0.168	○ 600	170.00	1.2	0.65	0. 184		<u>30,84</u> 30,84	
(16)	6.42	71.18			6.42	71,18	21,350	0, 050		0, 050	3.5	0.175		0.006	0.181	0 600	120.00	1.2	0, 65	0.184		30.70	
(17)		·····												0.000	0.037	- 7 -2	300.00		0.00	0.054		30.60	
Ш	25.64	96.82			25.64	96,82	29,050	0.068	<u>.</u>	0.068	3.3	0.224	<u> </u>	0.009	0, 233	0 700	360.00	1.0	0, 66	0. 254		30.24	

		ور می ور مار می ور		1999. 												film Andreas Andreas Andreas Andreas							3 - 2
	Nome	of Zone		·····	Area	(ha)		pulation Density	Popula			Uni	t Fl	ow.					ман на К	· ·			
			}		Commen		* •	persons		e des la FT	Per Co		nmercia		Itration		· · ·						
	ZON		3	,020	380	3,4	00 30	10 /ha	1018,700		201 1	/ c /d	16 ^{m³} /h	o/d 7.	6 ^{m³} /ha/d		· .						,
5			oy Land Comme		А	rea		Don	nestic W	astewater	Flo	W	Othe	r Flow				Des	igned	Sewer			
ewer	Res	idential Area		Area	t		ation		7		tor				Total				······	Ê	J GC	tg	
20. 0f S	Increment	Total	Increment	Total	Increment	Total	Total Population	Residential (Ave.)	Commercial (Ave.)	Total	eaking Factor	Peak Flow	Industrial	Infiltration	Design Flow	Diameter	Length	Slope	Velocity (Full)	Capacity (Full)	Ground Surface Elevation	Sewer, Invert Elevation	Remarks
	ha	ha	ha	ha	ha	ha	persons	^{m³} /s	m³/s	m³/ s	<u> </u>	^{m3} /s	^{m³} ∕s	^m ³/s	^{m³} /s	mm	m	%。	m/s	^{m³} /s	m	m	
(18	10,97	107.79			10.97	107.79	32.340	0,075		0, 075	3.3	0.248		0.009	0.257	⊙ 8 00	200.00	0.8	0, 65	0.324		30 14 29 98	
(19	34.94	142.73			34.94	142,73	42,820	0. 100		0. 100	3.2	0.320		0.013	0. 333	o 900	400.00	0.8	0.70	0.444		29.88 29.56	
(20	0.00	142.73			0.00	142.73	42,820	0. 100		0, 100	3.2	0.320		0.013	0.333	⊙ 900	50.00	0. 8	0.70	0. 444		<u>29.56</u> 29.52	
- 																						29.52	
	11.64	154.37			11.64	154,37	46,310	0, 108		0. 108	3.	0.335		0.014	0.349	<u>0</u> 900	360.00	0.8	0.70	0. 444		29.23	
	to	(29)										in and and											· ·
22	3.86				3.86		1,160	0.003		0.003	4.8	0.014		0.001	0.015	⊙ 200	235.00	4.5	0, 61	0.019		<u> </u>	
				· · · · · · · · · · · · · · · · · · ·												_						33.64	
	7.39	11.25			7.39	11.25	3,380	0.008		0,008	4.8	0.038		0, 001	0.039	O 300	200.00	2.8	0.63	0. 044		<u>33.08</u> 32.98	· · · · · · · · · · · · · · · · · · ·
(24	6.96	18.21			6.96	18.21	5,460	0.013		0.013	4.7	0.061		0. 002	0.063	o 400	160.00	1.9	0, 63	0.079		32.68	
25	74.29	92.50			74.29	92.50	27,750	0. 065		0. 065	3.4	0.221		0.008	0. 229	o 700	620.00	1.0	0.66	0. 254		<u>32.38</u> 31.76	
26				<u> </u>																	00.	31.76	
	0.00	92,50	· · · ·		0.00	92,50	27,750	0.065	· ·	0, 065	3,4	0.221		0.008	0.229	0 700	100.00	1.0	0,66	0.254	37.	<u>31.66</u> 31.56	·
(27	24.19	116.69	: · ·		24.19	116.69	35,010	0.082		0, 082	3.2	0.262		0.010	0. 272	0 800	520.00	0, 8	0.65	0. 324		31.14	
28	65.28	181.97		:	65.28	181.97	54,590	0. 127		0. 127	3.0	0.381		0.016	0.397	o 900	510.00	0.8	0.70	0.444		31.04 30.63	
	18.42		<u> </u>										<u>.</u>							0.000	. *	28.93	
1.5		354.76			18.42	354,76	106,430	0, 248		0. 248	2.7	0.670		0,031	0.701	01200	490.00	0.6	0, 73	0.828		28.64 28.64	
30	0.00	354.76			0.00	354.76	106,430	0. 248		0. 248	2.7	0.670		0, 031	0.701	01200	50.00	0.6	0.73	0. 828		28.34	
P +2)																		· · · · · · · · · · · · · · · · · · ·				Pumping Station
		<u> </u>												0.075	0 747	01200	750.00	0.6	0.73	0. 828		33.80	
	38.32				38.32	393.08	117,920	0.274		0. 274	2.6	0.712		0.035	0. 747	01200	750.00	0.0	0. (3	0. 020		33.35	
	to	(40)																				34.75	
32	5.29	 			5.29		1,590	0.004		0.004	4.8	0.019		0. 001	0, 020	© 250	250.00	3.5	0, 62	0.031		33,88	
33	6.48	11.77			6.48	11.77	3,530	0.008		0.008	4.8	0.038		0.001	0.039	0 300	480.00	2.8	0, 63	0.044		<u>33.83</u> <u>32.49</u>	
	17.55										4.2	0.084		0.003	0, 087	o 450	355.00	1.6	0, 62	0, 099		<u>32.34</u> 31.77	
	17.55	29.32			17,55	29.32	8,800	0.020		0.020	4.2	1 0,004	1	1 0.000	L 0.001	<u> </u>	<u> </u>	<u>.</u>		<u></u>			

re per par engel haarde i stêrtere as degel sterpent

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	Nome	of Zone			Area	(ha)		pulation	Popula	Ition	<u>11. 199</u>	Uni	t 📋 Fl	ow		· .				· ·			
	Nome		R	esidential	Commerc	ial Tota	1	Density persons,			Per Ca	pita Cor	mercia	l Infi	Itration	1. 1. 1. 1.	· ·					•	
	ZON	Ξ		3,020	380	3,40	30 30	o ha	1018,700	persons	201 1	/c/d	16 ^{m³} /	na/d 7.	6 ^{m³} /ha/d			1. 1					
-										*** **********************************			*****	I	المصيد مستحد مستحد								
				d Use	A	rea		Don	nestic W	astewater	Flo	w	Othe	r Flow		· .	· · ·	Des	igned	Sewer			
vers	Resi	dential Area	Com	nercial Area			U			1	11									······	e Ce	+	
No. of Sev	ncrement	Total	Increment	Total	Increment	Total	Total Population	Residential (Ave.)	Commercial (Ave.)	Total	eaking Factor	Peak Flow	Industrial	In filtration	Total Design Flow	Diameter	Length	Slope	Velocity (Full)	Capacity (Full)	Ground Surface Elevation	Sewer Invert Elévation	
	ha	ha	ha	ha	ha	ha	persons	^{m³} /s	m³∕s	m³/ s	å	^{m³} /s	m³∕s	^{m³} /s	^{m³} / s	mm	m	%00	m/s	^{m³} /s	m	m	ļ
6			·. ·		34.41	67.77	10,100	0.044				0.150		0.000		0.000	E10.00		0.65	0. 184		<u>31.62</u> 30.97	
(35)	34.41	63.73	·····		34.41	63.73	19,120	0,044		0.044	3.6	0.158		0.006	0. 164	0 600	540.00	1.2	0, 65	0, 104	1	30.97	
(36)	3.34	67.07			3.34	67.07	20,120	0.047		0.047	3.6	0.169		0.006	0. 175	0 600	640.00	<u> </u>	0.65	0. 184		30.20	ļ
P														d an An an an an									Pum
19																						34.40	
37	4.94	72.01			4.94	72.01	21,600	0.050		0. 050	3.5	0.175		0,006	0, 181	0 600	175.00	Ι. 2	0.65	0. 184		34.18	
20										0.007		0.001		0.008	0. 229	0 700	465.00	i. 0	0.66	0.254		34.08 33.62	
	24.15	96.16			24.15	96.16	28,850	0.067		0.067	3.3	0.221		0.008	0.223		400.00		0.00			33.52	
(39)	33.23	129.39			33.23	129.39	38,820	0. 090		0. 090	3.2	0.288		0.011	0, 299	0 800	455.00	0.8	0.65	0.324	:	33.15	
6												1 0 7 4		0.054	1.088	01500	180.00	0.5	0.78	1. 370		<u>32.45</u> 32.36	-
$\underline{\mathbb{W}}$	94.76	617.23			94.76	617.23	185,170	0.431		0.431	2.4	1.034		0.054	1.000	01500	180.00	0.5	0.10	1. 510		32.00	<u> </u>
(41)	0.00	617.23			0.00	617.23	185,170	0.431		0.431	2.4	1.034		0.054	1.088	01500	50.00	0.5	0.78	1. 370		31.98	
62		631.82								0.441		1.059		0.056	1. 11 4	01500	440.00	0.5	0.78	1, 370	. 00	31.98 31.76	-
	14.59	631.82			14,59	631.82	189,550	0.441		0.441	2.4	1.058	_	0.000	1. 11 - 7	01000	110.00				1	31.76	1
(43)	80.73	712.55			80.73	712.55	213,770	0.497		0.497	2.4	1.193		0.063	1. 256	01500	900.00	0.5	0.78	1. 370		31.31	
	to	(58)												North Contraction (Contraction)									
	10	<u> </u>		1, 			na na na sin Dan na si								e e e e e e e e e e e e e e e e e e e	-			-		-	34.80	1
(44)	2.50				2.50		750	0. 002		0. 002	4.8	0.010		0.001	0.011	<u> </u>	190.00	4.5	0.61	0.019		33.95	<u> </u>
45										0.008	4.8	0.038		0.001	0. 039	⊙ 300	380.00	2.8	0.63	0.044		<u>33.85</u> 32.79	
(45)	8.65	11.15			8.65	11.15	3,350	0.008		0.008	4.0	0.000									-	32.49	
(46)	34.58	45.73			34.58	45.73	13,720	0. 032		0. 032	3.9	0.125		0.004	0. 129	0 600	355.00	1.2	0.65	0. 184		32.06	+
	27.34					1				0. 051	3.5	0,179		0.006	0. 185	0 700	195.00	1.0	0.66	0.254		<u>31.96</u> 31.77	-
]	·			27.34	73.07	21,920	0.051		0,001		0,110										31.77	
(48)	19.97	93.04			19.97	93.04	27,910	0. 065		0. 065	3.4	0.221		0.008	0, 229	0 700	395.00	1.0	0.66	0. 254	-	31.38	
(49)	20.36							0.070		0.079	3.3	0.261		0.010	0, 271	0 800	300.00	0, 8	0.65	0. 324		<u>31 28</u> 31.04	-
(P)	20.36	113.40	·		20.36	113.40	34,020	0.079		0.013	<u> </u>		-								1		
(+4)			ļ														_				-	34.00	Purr
(50)	23.85		1							0.000	3.2	0.307		0. 012	0.319	0 800	400.00	0.8	0, 65	0. 324		<u>34_20</u> <u>33.88</u>	
	23.85	137.25			23,85	137.25	41,180	0.096		0.096	3.2	0.301										33.78	
(51)	36.20	173,45			36.20	173.45	52,040	0. 121		0. 121	3.0	0,363		0.015	0, 378.	0 900	95.00	0.8	0.70	0.444	1	33.70	

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Contraction of the second second second

		(7000	<u> </u>		Ared	(ha)		oulation	Populat	ion I		Uni	r Flo)W			· · · .						
N	ome (of Zone	Re	sidential	Commerc	ial Tota		Density	Populat		Per Ca		nmercial		Itration				· ·				
		• 1						o persons ha	1018,700	persons	201		16 ^{m³} /h										
1	ZONE	, I.		3,020	380	3,40					201		16 "75		6 ^{m³} /ha/d	:							
			میں میں میں ہے۔ اس میں ا	the second		<u> </u>	<u> </u>				-017111-0-0171-0-01-0		<u> </u>			<u></u>							
		Area b			A	rea		Dom	estic Wa	stewater	Flo	W Constant	Other	Flow				Desi	igned	Sewer	-		
ers		ential	Comm	Area			Total Population		T					a statu a			<u> </u>			·	e S	.	
Sew		Ared	·····	Aleu	sut s		at a	ē	cial	i i i	actor	3	Ū	с.	Total	Ū		e Li se	(Full)	Capacity (Full)	Ground Surface Elevation	Invert vation	
v.	ţ		uer.		ů ř		ota opu	(e.)	e je		ц В	Flow	stri	atic	Design	je -		e	ťy (ţ	N T N	ti .	Remark
ō	e me	Total	ncrement	Total	ncrement	Total	μa	sidenti((Ave.)	ommercic (Ave.)	Total	D D	and the second second	Industrial	Infiltration	Flow	Diameter	Length	Slope	Velocity	gci	E E	Ele	
07	Increment		on					ů.	ပိ		aking	Pedk		Ľ.		L		07	- Sei	ğ	о С	Ř	
-	ha ha	ha	ho	ha	ha	ha	persons	m³/s	m ⁵ /s	m ³ / s	a.	m ³ /s	m³/s	^{m³} /s	m ³ /s	mm	m	%	m/s	^{m³} /s	m	m	
				· · · · · · · · · · · · · · · · · · ·		[33, 70	
52)	0.00	173.45			0.00	173.45	52,040	0. 121		0. 121	3.0	0.363		0.015	0.378	0 900	50.00	0.8	0.70	0.444		33.66	
										aa Argana (Maria)	4.4											33.66	· · · ·
53)	5.31	178.76			5.31	178.76	53,630	0. 125		0. 125	3.0	0.375		0.016	0. 391	0 900	240.00	0.8	0.70	0.444		33.47	
									na kao amin'ny fisiana Ny INSEE dia mampika							0 000		~ ~	0.70	0.444	1999 1997 - 1997 1997 - 1997	33, 47	
54)	19.53	198.29			19.53	198.29	59,490	0, 138		0. 138	3.0	0.414		0. 017	0.431	○ 900	60,00	0.8	0.70	0.444		33.42	
50					101.14	319.43	05 070	0 007		0. 223	2.7	0.602		0. 028	0, 630	01100	385.00	0.6	0.69	0.656	-	33.22 32.99	
55	21.14	319.43			121.14	519.45	95,830	0.223		0. 225	2,1	0.002		0.020	0.000						н. 1.	32.99	
56					0.00	319.43	95,830	0. 223		0, 223	2.7	0.602		0. 028	0. 630	01100	40.00	0.6	0.69	0.656		32.97	
	0.00	319.43			0.00	313.43	00,000	0.220		0, 220			.				1999 - 19					32.87	
57	49.34	368.77			49.34	368.77	110,630	0. 257		0.257	2.6	0, 668		0.032	0, 700	01200	910.00	0.6	0.73	0.828		32.32	
$\frac{1}{2}$				<u>.</u>																		31.01	
58)	79.13	1 160.45	1		79.13	1 160.45	348,140	0. 810		0.810	2.1	1.701		0. 102	1.803	01800	50.00	0.4	0.78	1. 992		30.99	
$\overset{\circ}{\frown}$				· · · · · · ·																		30,99	
59)	7.57	1 168.02			7.57	1 168.02	350,410	0.815		0.815	2.1	1.821		0. 103	1.815	01800	330.00	0.4	0.78	1. 992	-	30,86	
60															an an taon an t			· - •				30, 86	
<u>60</u>	74.25	1 242.27			74.25	1242.27	372,680	0.867		0.867	2.1	1.821		0. 109	1.930	01800	480.00	0.4	0.78	1.992	00	30.67	
			4 F										1. A.		0.007	01900	550.00	0. 4	0.81	2. 301	N N	<u>30.57</u> 30.35	
<u> </u>	77.75	1 320.02	3.08		80.83	1323.10	396,930	0.923	0.004	0.927	2.1	1.947	1	0.116	2.063	01300	550.00	0. 4	0.01	2.001	-	30.35	
62									0.055	1. 024	2.1	2.150		0. 122	2.272	01900	340.00	0.4	0.81	2.301		30.21	
	27.78	1 347. 80	37.89	40.97	65.67	1388.77	416,630	0.969	0,055	1. 044	<u> </u>	2.130										30.11	
63)				 			400 470	0.992	0.055	1. 047	2.1	2,199		0 125	2.324	02000	560.00	0.4	0.84	2.639		29.89	
\leq	32.67	1 380.47		40.97	32,67	1421.44	426,430	0.332	0.000	1. 011									-				
	to	(71)							e de la composition de										· .				
		<u> </u>					<u> </u>					1										34.60	
64	0.00		5.33		5,33		1,600	0,004	0.007	0.011	4.8	0.053	· · ·	0.001	0.054	<u>⊙ 350</u>	380.00	2.2	0.62	0.059		33.76	
			0.00	;												0.000	475.00		0.63	0.079		33.71	
65)	0.25	0.25	1.70	7.03	1.95	7.28	2,184	0.005	0.009	0.014	4.6	0,064		0.001	0.065	⊙ 400	435.00	1.9	0.03	0.013		32.88	
														0.004	0.305	© 800	470.00	0.8	0.65	0. 324		<u>32.48</u> 32.10	
66	0.00	0.25	39.05	46.08	39.05	46.33	13,900	0. 032	0.062	0.094	3.2	0,301		0.004	0.000			0.0			-	31.90	
67)										0 170		0.501		0.008	0.509	01000	540.00	0.6	0.65	0, 509		31.58	
\leq	0.00	0.25	41,45	87.53	41.45	87.78	26,330	0.061	0.118	0. 179	2.8	0.001		0.000							1	31.38	
68								0.000	0. 172	0. 262	2.6	0.681		0.011	0. 692	01200	30.00	0.6	0.73	0.828	1	31, 36	
	0.00	0.25	40.93	128.46	40.93	128.71	38,610	0.090	U. 174	V. EVE							•	· · · ·				31.21	
69	0.00	0.05	60.07	170 57	50,07	178.78	53,630	0, 125	0.240	0.365	2.5	0.913		0.016	0.929	01350	935.00	0.5	0.72	1.034	-	30.74	
		0.25	50.07	1/8.93		110.10		+											0.70			30.59	
70)	53.90		30.32		84, 22	263.00	78,900	0, 184	0. 280	0.464	2.3	1.067		0, 023	1. 090	01500	120.00	0.5	0.78	1. 370	L	30.53	L

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		R				11	Density	4 1 1			pita C	ommercial	Infi					
					Area		Don	nestic Wa	astewater	Flo	W	Othe	r Flow				Des	igned
	sential Area Total	r	Area Total	Increment	Total	Total Population	Residential (Ave.)	Commercial (Ave.)	Total	king Factor	wo L M M M M M M M M M M M M M M M M M M	Industrial		Total Design Flow	Diameter	Length	Slope	Alacity, (Eull)
ha	hợ	ha	ha	ha	ha	persons	m³/s	m ³ /s	m³/ s	Ped	0. ^{m³} /s	m³/s	— ^{m³} /s	^{m³} /s	mm	m	%0	m/
47.48	1 482.10	2.57	252.39	50.05	1734.49	520,350	1, 211	0.339	1. 550	2.0	3. 100		0. 153	3. 253	<u>⊚2200</u>	485.00	0.4	0. 9
91.36	1573.46		252.39	91,36	1 825. 85	547,760	1. 274	0. 339	1. 613	1.9	3.065		0. 161	3. 226	0 2 200	860.00	0.4	0.9
0.00	3 020.00		380.00	0.00	3 400. 00	1020,000	2.373	0.510	2. 883	1. 8	5. (89		0. 299	5.488	o 2 700	40.00	0.4	1.(
to	Treatmen	t . F	acilities										: : :					
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	ZONE Resid	ZONE Area by Residential Area E Total b ha ha 47.48 1482.10 91.36 1573.46 0.00 3 020.00	ZONE I Area by Lan Residential Comr Area Total E Total E b ha ha ha 47.48 1482.10 2.57 91.36 1573.46 0.00 3020.00	Iame of Zone Residential ZONE I 3,020 Area by Land Use Residential Commercial Area Area E Total E bo ha ha ha ha ha ha ha 91.36 1573.46 252.39 0.00 3020.00 380.00 10 Treatment Facilities 10 Treatment Facilities 10 I I 10 I I 10 I I 11 I I 12 I I 13 I I 14 I I 15 I I 15 I I 15 I I 14 I I 15 I I 16 I I 17 I I 18 I I 19 I I 10 I I 11 I I 12 I I	Iome of ZoneResidentialCommercialAreaLandUseResidential AreaCommercial AreaAreaTotal $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ Total $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ h^{0} h^{0} h_{α} h_{α} h^{0} h^{α} h_{α} h_{α} 1482.10 2.57 252.39 91.36 1573.46 252.39 91.36 1573.46 252.39 91.36 1573.46 252.39 0.00 3020.00 380.00 0.00 3020.00 380.00 10 TreatmentFacilities 10 1482.10 2.57 252.39 91.38 0.00 3020.00 380.00 10 1482.10 2.57 136 1573.46 252.39 10 1482.10 2.57 10 1482.10 2.57 100 300.00 300.00 10 1482.10 2.57 100 1482.10 1482.10 100 1482.10 1482.10 100 1482.10 1482.10 100 1482.10 1482.10 100 1482.10 1482.10 100 1482.10 1482.10	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Interview of ZoneResidentialCommercialTotalZONEI3,0203803,400AreaAreaAreaResidential AreaCommercial AreaAreaTotal $\frac{1}{22}$ Total $\frac{1}{22}$ Total $\frac{1}{22}$ Total $\frac{1}{22}$ Total $\frac{1}{22}$ $\frac{1}{20}$ $\frac{1}{20}$ Total $\frac{1}{22}$ $\frac{1}{20}$ <	IoneDensityIoneIoneResidentialCommercialTotalTotalDensity300Jaca3803400300Persons300PersonsResidential AreaAreaAreaAreaImage: Second and the second an	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Image of Zone Residential Commercial 3,020 Total 3,020 Density Population 1018,700 persons ZONE 1 3,020 380 3,400 300 persons n. 1018,700 persons Area by Land Land Use Area Total 300 persons n. 1018,700 persons Land Land<	Imme of Zone Residential Commercial Total Density Population 300 Per Ca 201 ZONE 1 3,020 380 3,400 300 Per Ca 201 300 Per Ca 201 2011 2011 Per Ca 201 2011 <td< td=""><td>Jone of Zono Residential Commercial Total Total Soco Per Capital Can Area by Land Use Area Area</td></td<> <td>Idame of Zone Residential Commercial Total Total</td> <td>Indiane of Zone Periodical commercial Total Doessity Periodication Periodic</td> <td>Image of Zone Residential Commercial 3,020 Total 3,020 Tot</td> <td>Igne of Zero Residential Commetcial 3,400 Total 3,400 Domestic Wigtowater Flow Per Capita Commetcial Infiltration 7,68"/ha/3 Area by Lond Use- Residential Commetcial Area by Lond Use- Area by</td> <td>Instra of No Density Population Per Cogno Ommercial Instruction ZONE 1 3,020 380 3,400 Density Per Cogno Commercial Instruction Instruction Instruction Rescarting Area 380 3,400 Domestic Commercial Instruction <td< td=""><td>Imme of Zerie Residential Commercial 300 Torul 3,000 Density Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population 108 r00 person 201 / 21 Population 108 r00 person 201 / 21<</td></td<></td>	Jone of Zono Residential Commercial Total Total Soco Per Capital Can Area by Land Use Area Area	Idame of Zone Residential Commercial Total Total	Indiane of Zone Periodical commercial Total Doessity Periodication Periodic	Image of Zone Residential Commercial 3,020 Total 3,020 Tot	Igne of Zero Residential Commetcial 3,400 Total 3,400 Domestic Wigtowater Flow Per Capita Commetcial Infiltration 7,68"/ha/3 Area by Lond Use- Residential Commetcial Area by Lond Use- Area by	Instra of No Density Population Per Cogno Ommercial Instruction ZONE 1 3,020 380 3,400 Density Per Cogno Commercial Instruction Instruction Instruction Rescarting Area 380 3,400 Domestic Commercial Instruction Instruction <td< td=""><td>Imme of Zerie Residential Commercial 300 Torul 3,000 Density Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population 108 r00 person 201 / 21 Population 108 r00 person 201 / 21<</td></td<>	Imme of Zerie Residential Commercial 300 Torul 3,000 Density Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population with 108 r00 person 201 1/2 / 21 Population 108 r00 person 201 / 21 Population 108 r00 person 201 / 21<

Image: Constraint of the constraint	ned	Sewer			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Velocity (Full)	Capacity (Full)	Ground Surface Elevation		Remarks
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	^m /s	m³/s	m	, m	
1.03 5.874 28.55	0.90		7.00	29.41 29.41	
			м	28.57	
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 ^	Vome (of Zone			Area	(ha)		oulation Density	Populat	rion _		Uni	t Fl	ow			:						
			Re	sidential	Commerc	ial Tota	l	persons.			Per Ca		nmercia		Itration				•				
	ZONE	2		2,030	1,570	3,60	22	9' ⁄ha	823,800	persons	201 1,	/c/d	16 ^{m³} /I	na/d 7.	6 ^{m³} /ha/d	н 1970 - С. 49		· ·				· .	
5		Area t		I Use nercial	A	rea		Dom	nestic Wa	istewate	r Flo	W	Othe	r Flow				Desi	gned	Sewer			
o. of Sewer		ential Area Total	Increment	Area Total	Increment	Total	Total Population	Residential (Ave.)	Commercial (Ave.)	Total	eaking Factor	Peck Flow	Industrial	Infiltration	Total Design Flow	Diameter	Length	Slope	Velocity (Full)	Capacity (Full)	round Surface Elevation	Sewer Invert Elevation	Remarks
ž	1100	ha	ho	ha	ha	ha	persons	m ³ /s	m ³ /s	m ³ / s	Ped		m ³ /s	<u> </u>	^{m³} / s	mm	m	%00	> ^m /s	^{m3} /s	<u>ნ</u> ო	m n	
$\overline{1}$	ha	ha					percona	/ 3					1	, , ,								34.60	
낏	29.53		0.00		29.53		6,760	0.016	*	0.016	4.4	0.070		0.003	0.073	o 400	270.00	1.9	0.63	0.079		34.09 33.89	
2)	34.51	64.04	0.00		34.51	64.04	14,670	0. 034		0. 034	3.8	0.129		0.006	0, 135	0 600	230.00	1.2	0.65	0. 184	•	33.61	
7						100 7.4	41.700	0.007		0.097	3.2	0.310		0.010	0.326	o 900	190.00	0.8	0.70	0. 444		33.31 33.16	
ソ	118.30	182.34	0.00		118.30	182.34	41,760	0.097		0, 097	3.2	0.310		0.016	0.320	0 900	100.00	0.0	0.10			33.16	<u></u>
9)	80. 15	262.49	1.92	· · · · ·	82.07	264.41	60,550	0. 141	0.003	0, 144	2.9	0.418		0.023	0.441	© 900	425.00	0.8	0.70	0.444		32,82	
5)	249.01	511.50	39.05	40.97	288.06	552,47	126,520	0. 294	0,.055	0.349	2.4	0.838		0.049	0.887	01350	160.00	0, 5	0.72	1. 034		<u>32.37</u> <u>32.29</u>	
$\frac{1}{2}$	240.01	<u></u>														0.1750	0.05 0.0	0 6	0.72	1.034		32, 15	
5	1.48	512.98	2.50	43.47	3.98	556.45	127,430	0, 296	0.058	0.354	2.4	0.850		0.049	0.899	⊙ I 350	225.00	0,5	0.12	1.034		32.02 32.02	
\mathcal{D}	3,69	516.67	3.12	46.59	6.81	563.26	128,990	0. 300	0.063	0, 363	2.4	0.871		0.050	0, 921	01350	245.00	0.5	0.72	1. 034		31.88	· · · · · · · · · · · · · · · · · · ·
2		60F 17	10 47	C 7 00	124.89	688.15	157,590	0, 367	0.085	0.452	2.3	1.040		0.061	1, 101	01500	280.00	0.5	0.78	1.370		<u>31, 73</u> 31, 59	
2	108.46	625,13	16.43	63.02	124.03		101,000		0.000												00	31.59	
2	13.31	638.44	6.28	69.30	19.59	707.74	162,070	0.377	0.093	0. 470	2.3	1.081		0.062	1. 143	01500	370.00	0.5	0.78	1.370	37.	<u>31.41</u> 31.41	
9	8.50	646, 94	5,12	74.42	13.62	721.36	165, 190	0.384	0. 100	0.484	2.3	1.113		0.063	1. 176	01500	300.00	0, 5	0, 78	1.370		31.26	· · · · · · · · · · · · · · · · · · ·
_	to	(50)		· · ·																		34.80	
リ	4.97		0.00		4,97		1,140	0.003		0.003	4.8	0.014		0.001	0.015	0 200	510.00	4.5	0, 61	0.019		32.51 32.46	····
2)	6.21		0.00	· .	6.21	[],[8	2,560	0,006		0.006	4,8	0.029		0.001	0. 030	o 250	300.00	3.5	0. 62	0.031		31.41	
	0.21	11,18	0.00		0.21	11.10						0.050			0.059	⊙ 350	260.00	2.2	0.62	0. 059		<u>31.31</u> 30.74	
3	11.92	23.10	0.00		11.92	23.10	5,290	0.012		0.012	4.7	0.056		0.002	0.058		200,00					30.64	
4)	15.11	38.21	0.00		15.11	38.21	8,750	0.020		0.020	4.2	0.084		0.003	0,087	o 450	390.00	1,6	0.62	0.099		30.02	
	38.73						17 000	0.041		0.041	3.7	0, 152		0.007	0. 159	⊙ 600	210.00	1, 2	0.65	0. 184		<u>29.87</u> 29.62	
		76.94	0.00		38.73	76.94	17,620													0.054		29. 52	
6)	55.29	132,23	0.00		55.29	132.23	30,280	0.070		0.070) 3.3	0,231		0.012	0. 243	0 7.00	150.00	1. 0	0.66	0.254		29.37	
P)																					1		Pumping Stat
5	<u> </u>										, , ,	0.254		0,013	0. 267	0 800	430.00	0.8	0.65	0.324	ļ	34.20 33.86	
ク	12.73	144.96	0.00		12.73	144.96	33,200	0.077		0. 071	7 3.3	0.204										33.76	1
8)	81.27	226.23	0.00		81.27	226.23	51,810	0, 121		0. 12	3.0	0.363		0.020	0.383	0 900	280.00	0.8	0.70	0.444	l	33.53	

										·····									•
	Nome	of Zone			Area	(ha)	F	ulation Density	Populat	tion		Un	·····						
			Re		Commerc		11 220	persons,	823,800	Dersons	Per Cap		mmercial	·······	tration				
	ZON	<u>E 2</u>		2,030	1,570	3,6	00 223	• /ha	023,000		201 1/	'c /d	116 ^{m³} /h	a/d 7.1	6 ^{m³} /ha/d	- 			· .
, s		T		d Use nercial	А	red		Don	nestic Wo	istewater	Floy	N	Other	Flow				Desi	gne
to. of Sever	Resi ncrement	idential Area Total	Increment	Area Total	Increment	Total	Total Population	Residential (Ave.)	Commercial (Ave.)	Total	Peaking Factor	Pedk Flow	Industrial	In filtration	Total Design Flow	Diameter	Leng th	Slope	
<i>L</i>	ha	ha	ha	ha	ha	ha	persons	m³/s	m³/s	^{m³} / s		^{m3} /s	^{m³} ∕s	^{m³} /s	^{m³} / s	mm	m	%00	m
(19)	14.69	240.92	2.45		17.14	243.37	55,730	0.130	0.003	0, 133	2.9	0.386		0. 021	0.407	0 900	430.00	08	0.
(20)	46.64	934.50	24.14	101.01	70.78	1035.51	237, 130	0.552	0. 136	0.688	2.1	1.445		0. 091	1. 536	©1650	570.00	0. 4	0.
(21)	6.94	941.44	6.22	107. 23	13.16	1048.67	240, 150	0.559	0. 144	0. 699	2.1	1.468		0. 092	1. 560	01650	365.00	0. 4	0.
(22)	31.06	972.50	4.42	111.65	35.48	1084.15	248,270	0.578	0. 150	0. 728	2.1	1.529		0. 095	1. 624	01800	280.00	0.4	0.
23	76.57	1049.07	9.73	121.38	86.30	1 170.45	268,030	0.624	0. 163	0. 787	2.1	1.653		0. 103	1. 756	01800	40.00	0.4	0.
24	34.88	1083.95	27.48	148.86	62.36	1232.81	282,310	0. 657	0. 200	0.857	2.1	1.800		0. 108	1.908	01800	265.00	0. 4	0.
	to	35																	
25	5.43				5.43		1, 240	0.003		0. 003	4.8	0.014		0. 001	0.015	⊙ 200	270.00	4.5	0
(26)	6.19	11.62	-		6.19	11.62	2,660	0.006		0.006	4.8	0.029		0, 001	0.030	© 250	235.00	3.5	0
(27) (27)	24.65	36.27			24.65	36.27	8,310	0.019		0. 019	4.3	0.082		0.003	0.085	⊙ 450	380.00	1, 6	0
(28)	12.11	48.38			12.11	48.38	11,080	0. 026		0. 026	4.0	0.104		0.004	0, 108	⊙ 500	210.00	1.4	0
(29)	21,56	69.94			21.56	69.94	16,020	0. 037		0. 037	3.8	0, 141		0.004	0. 145	⊚ 600	320.00	1.2	0
30)	9.36	79,30			9.36	79.30	18,160	0. 042		0. 042	3.7	0.155		0.007	0. 162	⊙ 600	230.00	1. 2	0
31)	26.15	105.45			26.15	105.45	24,150	0. 056		0. 056	3.4	0.190		0.009	0, 199	⊙ 700	160.00	1, 0	0
(p. 2.2)																			
32	27.07	132.52			27.07	132.52	30,350	0. 071		0. 071	3.3	0.234		0.012	0. 246	0 700	410.00	1	
33	+			<u></u>	27.34		36,610	0. 085		0, 085	3.2	0.272	2	0.014	0. 286	◎ 800	375.00	0.8	
34)	14.71				14.71	174.57	39,980	0.093		0. 093	3 3.2	0.298	3	0.015	0. 313	0 800	555.00	0.8	- C
35		-		148.86	6 3,33	1410.71	323,050	0.752	0. 200	0. 952	2 2.0	1.904	1	0. 124	2. 028	01 900	425.00	0.4	
	to																		
*			1																

ned Sewer velocity (Full) Ground Surface Elevation Capacity(Full) Sewer Invert Elevation Remarks m⁸/s m m 33.53 0.70 0. 444 33, 19 31.11 0.74 1: 580 30.88 30.88 0.74 1. 580 30.73 30.58 1.992 0.78 30.47 30.47 0.78 1. 992 30.46 30,46 0.78 1. 992 30.35 34.80 0,61 0.019 37.00 33.59 33.54 0. 031 0,62 32.72 32.52 0.62 0, 099 31.91 31.86 0.62 0. 122 31.57 31.47 0. 184 0.65 31,09 31.09 0, 65 0,184 30, 81 30.71 0.254 0.66 30.55 Pumping Station 34.30 33.89 0.66 0.254 33.79 0.65 0.324 33.49 33.49 0.324 33.05 0.65 30.25 2.301 30.08 0.81

3 - 7

						·····	: 										۰.		. ·	1	· ·		3 - 8
-	Nome	of Zone		A	rea	(ha.)		oulation Density	Populat	ion		Unit	FI	ow									
	N01110		Re	sidential	Commen	cial Tota		9 persons			Per Ca		mercial		Itration		n an		. •				
	ZONE	2		2,030	1,570	3,6	00 22	9 /ha	823,800	persons	201 1/	/c/d	6 ^{m³} ∕h	a/d 7.6	6 ^{m®} /ha/d			۰.					
			y Land				 I							<u>-</u>									
\$		T	Comm		A	rea	-	Dom	nestic Wa	istewater	Flo	w	Othe	r Flow				Desi	gned	Sewer			
103		tential Area		Area	+=		Total Population		ē		to	······	_		Total				(Full)	(i))	n Tace	ert on	
ŝ	t		ent		ncrement		puto	Residential (Ave.)	commercial (Ave.)		Factor	Flow	Industrial	In filtration	Design	Diameter	÷	e	y (F	Capacity(Full)	Ground Surface Elevation	wer Invert Elevation	Remarks
01	ement	Total	crement	Total	LC LE	Total	μα	Side (Av	Av Av	Total	อีย		subi	iltro	Flow	Оіап	Length	Slope	Velocity	ocit	Elea	re e	No mino
o Z	Incre		luc		_				0		eaking	Peak				L .	ا ست	<u> </u>			Gre	<u>ж</u>	
	ha	ho	ha	ha	ha	n ha	persons	m³/s	m³/s	^{m³} / s	<u>a</u>	^{m³} /s	m³/s	^{m³} /s	m³/s	rn m	m	%00	^m /s	^{m³} /s		m	
16			5.40		5.40	·	1,240	0.003	0.007	0.001	4.8	0.005		0.001	0,006	0 200	520,00	4.5	0,61	0.019		34.80 32.46	
	0.00		5.40		0,-10		.,	0.000	0.001	0.001	1.0	0.000										32.21	
(37)	0.00		6.54	11.94	6.54	11.94	2,730	0.006	0.016	0. 022	4.2	0.092		0, 001	0, 093	⊙ 450	255.00	Ι. 6	0.62	0.099		31.80	<u></u>
(38)			7.91	19.85	7.91	19.85	4,550	0.011	0. 027	0. 038	3.7	0.141		0.002	0. 143	◎ 600	120,00	1, 2	0,65	0. 184		<u>31.65</u> 31.51	
	0.00					,0.00	.,									1		·				31.51	
(39)	0.00		2.48	22.33	2.48	22.33	5,110	0.012	0. 030	0, 042	3.6	0, 151		0.002	0, 153	<u> </u>	30.00	1.2	0.65	0. 184		31.47	<i>.</i>
40			00.00	12 21	20.99	A7 71	0.020	0. 023	0.058	0. 081	3.2	0.259		0.004	0. 263	⊙ 800	530.00	0.8	0.65	0. 324		<u>31.27</u> 30.85	
	0.00		20.98	43.31	20.98	43.31	9,920	0. 023	0.008	0.001	J. 2	0,200		0.001	0.200							30.85	
(1)	0.00		0.00	43.31	0.00	43.31	9,920	0. 023	0.058	0. 081	3.2	0.259		0.004	0. 263	0 800	90.00	0.8	0.65	0.324		30.78	
62				· · · · · ·								0.775		0.005	0.340	0 900	455.00	0, 8	0.70	0. 444		30.68 30.32	
	0.00		14.06	57.37	14.06	57.37	13,140	0,031	0,077	0. 108	3.1	0.335		0.005	0.040							30. 32	· · · ·
(43)	0.00		12.38	69.75	12.38	69.75	15,970	0.037	0.094	0. 131	3.0	0.393		0.006	0. 399	<u> </u>	30.00	0. 8	0.70	0, 444		30.30	
													1.5	0.007	0.476	0 900	390.00	0, 8	0.70	0. 444	0	30.30 29.99	
	+		9.53	79.28	9.53	79.28	18,160	0.042	0.106	0. 148	2.9	0.429		0.007	0.436	0 300	0.00	0.0			37.	20.00	
(P) 2-3)																							Pumping Station
												nde johnen.			0.405	01000	170.00	0.6	0.65	0.509		34.00 33.90	
(45)	0.00		13.47	92.75	13.47	92.75	21,240	0.049	0. 125	0. 174	2.8	0.487		0, 008	0. 495	01000	110.00	0.0	0.00	0.303		33.80	······································
46	0.00		9, 39	102.14	9.39	102.14	23,390	0.054	0. 137	0, 191	2.8	0,535		0.009	0, 544	01 100	225.00	0, 6	0.69	0.656		33.67	
6	0.00			CVEI17											0 607	01100	160.00	0, 6	0.69	0,656		<u>33.67</u> 33.57	
47)	0.00		24.45	126.59	24.45	126.59	28,990	0.067	0. 170	0.237	2.6	0.616		0, 011	0. 627				0.00			33.57	
(48)			0.00	100 50		126,59	28,990	0.067	0. 170	0. 237	2.6	0.616		0.011	0. 627	01100	50,00	0.6	0.69	0.656		33.54	
			0.00	126.59	0.00	120,03	20,000								0.070		570.00	0,6	0.69	0.656		<u>33.54</u> <u>33.20</u>	
(49)	2,45		1.08	127.67	3,53	130. 12	29,800	0.069	0. 171	0.240	2.6	0.624		0.012	0.636	01100	010.00	0.0	0.00		-	33, 10	
50	9.00			100.40	10.63	140.75	32,230	0.075	0, 174	0.249	2,6	0,647		0.012	0, 659	01200	30.00	0.6	0,73	0.828		33.08	
	8.88	11.33	1.75	129.42	10,03	140.13	00,200												~	0 000		33.08 32.42	
51	4.70	16.03	1.03	130.45	5.73	146.48	33,540	0.078	0.175	0.253	2.6	0.658		0.013	0. 671	01200	1 100.00	0.6	0.73	0.828		32.42	
52			-				FE AAA	0, 128	0.209	0.337	2.4	0.809		0.021	0, 830	0 350	410.00	0.5	0.72	1.034		33.07	
R	68.33	84.36	25.36	155.81	93.69	240.17	55,000	0.120	0.200								00.00		0. 87	3,005		29.88 29.85	
53) 3.50	349.7	2.46	307.13	5.96	1 656.84	379,420	0.883	0.412	1 295	2.0	2,590		0. [46	2.736	0 2 100	80.00	0,4	0.01	0,000		29.85	
64							-	0.010	0,412	1.324	1.9	(2,590) 2,516		0, 151	2.741	02 100	905.00	0.4	0.87	3, 005		29.49	
Ľ	55.94	1 405.65	0.00	307.13	55.94	1712.78	392,230	0,912	U, 416	. 1. 524		L		<u> </u>									· .

6 X 1 X 6 7 X 1

			3 - 9
Area (ha) Population Unit Flow			
Residential Commercial Total Per Capital Commercial Infiltration			
ZONE 2 2,030 1,570 3,600 229 ha 823,800 persons 201 1/c/d 116 m³/ha/d 7.6 m³/ha/d			
Area by Land Use	Caluar		
Area Domestic Wastewater Flow Other Flow Designed	Sewer	u	
Ared Ared + Second Branch Second Seco	(Full)	Surfac Aation Invert vation	
Tity (File and the second of t	ty (F	vation vation	Remarks
Velocity (Fu Velocity (Fu	Capacity	cound Surfac Elevation ewer Invert Elevation	
	8	Š gr	
m^3/s	^{m³} /s	m m	
10 (62)		74.90	
	0.091	<u>34.80</u> 34.08	
55 0.00 1.86 1.86 430 0.001 0.002 0.003 4.8 0.014 0.001 0.015 © 200 160.00 4.5 0.61		33, 93	
(56) 0.00 4.46 6.32 4.46 6.32 1.450 0.003 0.008 0.011 4.8 0.053 0.001 0.054 0.350 320.00 2.2 0.62	0. 059	33. 23	·
		33.18	
67 0.00 3.56 9.88 3.56 9.88 2,260 0.005 0.013 0.018 4.3 0.077 0.001 0.078 0.400 170.00 1.9 0.63	0.079	32.86	
0 0 0 0 174 0 600 47000 1 2 0 65	0. 184	<u>32.66</u> 32.10	
(58) 0.00 16.11 25.99 16.11 25.99 5,950 0.014 0.035 0.049 3.5 0.172 0.002 0.174 © 600 470.00 1.2 0.65		32.00	
(59) 0.00 14.32 40.31 14.32 40.31 9,230 0.021 0.054 0.075 3.3 0.248 0.004 0.252 0 700 420.00 1.0 0.66	0. 254	31.58	
(59) 0.00 14.32 40.31 14.32 40.31 9,230 0.021 0.054 0.075 3.3 0.248 0.004 0.252 0.100 420.00 1.0 0.000		31.48	
60 0.00 6.68 46.99 6.68 46.99 10,760 0.025 0.063 0.088 3.2 0.282 0.004 0.286 ⊙ 800 50.00 0.8 0.65	0.324	31.44	
		31.34	· .
61 0.00 10.23 57.22 10.23 57.22 13,100 0.030 0.077 0.107 3.1 0.332 0.005 0.337 <u>0 900 500.00</u> 0.8 0.70	0.444	8 30.94	
0 0 0 53000 0 8 0 70	0. 444	ю <u>30.94</u> м <u>30.52</u>	
62 0.00 17.59 74.81 17,130 0.040 0.100 0.140 3.0 0.420 0.007 0.427 0.900 530.00 0.8 0.70		30.42	
(3) 0.00 15.48 90.29 15.48 90.29 20,680 0.048 0.121 0.169 2.9 0.490 0.008 0.498 01000 220.00 0.6 0.65	0. 509	30. 29	
(63) 0.00 15.48 90.29 15.48 90.29 20,680 0.048 0.121 0.169 2.9 0.490 0.008 0.436 01000 220,000 0.000			
			· · · · · · · · · · · · · · · · · · ·
	0.031	<u>34.75</u> 33.98	
64 0.00 1.96 450 0.001 0.003 0.004 4.8 0.019 0.001 0.020 © 250 220.00 3.5 0.62		33.93	
0 001 0 0044 0 300 140 00 2.8 0.63	0.044	33.54	
0.00 2.85 4.81 2.85 4.81 1,100 0.003 0.006 0.009 4.0 0.000 0.007		33.39	
66 0.00 5.88 10.69 5.88 10.69 2,450 0.006 0.014 0.020 4.2 0.084 0.001 0.085 0.450 150.00 1.6 0.62	0.099	33.15	
	0 122	<u>33.10</u> 32.88	
67 0.00 5.13 15.82 5.13 15.82 3,620 0.008 0.021 0.029 3.9 0.113 0.001 0.114 0 500 160.00 1.4 0.62	0. 122	32.88	/ / / /
	0. 184	32,65	·
68 0.00 8.05 23.87 8.05 23.87 5,470 0.013 0.032 0.045 3.6 0.162 0.002 0.164 © 600 110.00 1.2 0.65		32.55	
(5) 0.00 7.05 7.12 7.25 31.12 7.130 0.017 0.042 0.059 3.4 0.201 0.003 0.204 0.700 550.00 1.0 0.66	0.254	32.00	
0.00 7.25 31.12 7.25 31.12 7.150 0.017 0.042 0.000		31.80	-
10 0.00 33.23 64.35 33.23 64.35 14,740 0.034 0.086 0.120 3.1 0.372 0.006 0.378 900 520.00 0.8 0.70	0.444	31.38	
		34.60	
0 001 0.078 0.400 480.00 1.9 0.63	0.079	33.69	
1 0.00 9.83 9.83 2,250 0.013 0.018 4.3 0.077 0.001 0.078 0.400 430.00 1.3 0.000		. · · · · · · · · · · · · · · · · · · ·	

A CONTRACTOR OF THE OWNER

																				, ,			3 - 10
-		of Zone		A _{stan}	vrea	(ha)		ulation	Populat	ion	Set in the Set of Section Section	Unit	Fle	οw					· ···				•
	Vome	01 2010	Res	sidentlal (Commerc	ial Tota	1	Density persons,			^S er Cap	oita Com	mercial	Infi	tration				•				
	ZONE	2		2,030	1,570	3,60	229	9 ha	823,800	persons 2	201 1/	'c/d	6 ^{m³} /h	a/d 7.0	6 ^{m³} /ha/d					• •			
-																1							ــــــــــــــــــــــــــــــــــــ
			by Land		A	rea		Dom	estic Wa	stewater	Flow	W	Othe	Flow	1997 - 19			Desi	gned	Sewer	:		
VOTS		dential Area	Comm	ercial Area		· · · · · · · · · · · · · · · · · · ·	Total Population			· · · ·	2		· · · · · · · · · · · · · · · · · · ·		-				<u> </u>	<u> </u>	e c	te	
ы С					Increment		E a) tial	ommercial (Ave.)		Factor	Flow	rial	ion	Total Design	Diameter	. <u>c</u>	0	(Full)	Capacity (Full)	round Surface Elevation	Invert vation	
0	ement	Total	eme	Total	crer	Total	Pot	esidentio (Ave.)	Ave	Total			Industrial	trat	Flow	an	Leng th	Slope	Velocity	acity	und Elev	Elev	Remarks
07	Increi	1010	Increment		<u>د</u>			Res	S S		aking	Peak	Ĕ	Infiltration			Ľ	S			Gro	Sev	
	⊢ ha	ha	ha	ha	ha	ha	persons	m³/s	m³/s	^{m³} / s	е Д	^{m³} /s	^{m³} ∕s	^{m³} /s	^{m³} / s	mm	m	%00	m/s	^{m³} /s	m	m	
$\overline{\wedge}$																0 500	455.00		0. 62	0. 122		33,59 32,95	
[12]	0.00	<u> </u>	5.83	15.66	5.83	15.66	3,590	0.008	0.021	0. 029	3.9	0.113		0.001	0.114	<u> </u>	455.00	1.4	0.02	0. 122		32.65	
(73)	0.00		28.01	43.67	28.01	43.67	10,000	0. 023	0.058	0.081	3.2	0.259		0.004	0. 263	○ 800	365.00	0.8	0.65	0. 324		32.36	
Ă															~ ~ ~ ~	0 900	145.00	0.8	0.70	0. 444		<u>32.26</u> 32.14	
(14)	0.00		13.94	57.61	13,94	57.61	13,190	0. 031	0.077	0. 108	3.1	0.335		0.005	0.340	0 900	145.00	0.0	0.70	0. 444	· · ·	32.14	<u> </u>
(75)	0.00		12.77	70.38	12.77	70.38	16,120	0. 038	0.094	0. 132	3.0	0.396		0.006	0. 402	0 900	100.00	0.8	0.70	0.444		32.06	
$\overset{\lor}{\frown}$															0 6 0 4	0.1.00	370.00	0.6	0.69	0.656	· .	31.86 31.64	
(76)	0.00		27.93	98.31	27.93	98.31	22,510	0.052	0.132	0. 184	2.8	0.515		0, 009	0.524	01100	370.00	0.0	0.00	0.000		31.64	<u> </u>
(77)	0.00		15.36	113.67	15.36	113.67	26,030	0,061	0. 153	0.214	2.7	0.578		0.010	0.588	01100	320.00	0.6	0.69	0.656		31.45	
\sim	0.00																		0.00	0.656		31.45	
(78)	0.00		0.00	113.67	0.00	113.67	26,030	0.061	0. 153	0.214	2.7	0.578		0.010	0. 588	01100	100.00	0.6	0.69	0.656		31.39	
	to	85				the second second	an a						.								_		
			-																	0.070	.00	34.60	
(79)	0.00	·	6.88		6.88		1,580	0.004	0.009	0. 013	4.7	0.061		0.001	0. 062	0 400	270.00	1.9	0.63	0.079	37	<u>34.09</u> 34.09	
80						0.40	1 930	0.004	0.011	0.015	4.5	0.068		0.001	0.069	0 400	400.00	1. 9	0.63	0. 079		33.33	
	0.00	·	1.54	8.42	1.54	8.42	1,930	0.004			1.0											33. 13	
(81)	0.00		15.91	24.33	15.91	24.33	5,570	0.013	0.033	0.046	3.6	0.166		0.002	0 168	© 600	340.00	1.2	0.65	0. 184		<u>32.72</u> 32:52	· · · · · · · · · · · · ·
82								0, 025	0, 064	0. 089	3.2	0.285		0.004	0.289	: :⊙ 800	645.00	0.8	0.65	0. 324		32.00	
	0.00		23.25	47. 58	23.25	47.58	10,900	0.02.5	0,004	0.000			-						:			31.90	
83	0.00		17.17	64.75	17.17	64.75	14,830	0.035	0. 087	0. 122	3.0	0.366		0.006	0.372	0 900	80.00	0, 8	0.70	0.444		<u>31.84</u> 31.74	· · · · · · · · · · · · · · · · · · ·
60			···	· · ·						0.159	2.9	0.458		0.007	0.465	01000	270.00	0.6	0.65	0, 509		31.58	·
	0.00		19.13	83.88	19.13	83.88	19,210	0, 045	0.113	0, 158	2.5	0.400						1 E				31.14	
85	0.00		8.43	205.98	8.43	205.98	47, 170	0, 110	0.277	0.387	2.4	0.929		0.018	0.947	0 350	150.00	0.5	0.72	1.034		<u>31.07</u> 30.77	
RE					11					0.407	0 1	1.111		0. 023	1. 134	01650	95.00	0.4	0.74	1.580		30.72	
	0.00		52.06	258.04	52,06	258.04	59,090	0.137	0.346	0.483	2.3	F 11										30.63	
(87)	0.00		14.66	337.05	14.66	337.05	77,180	0. 180	0. 453	0.633	2.2	1.393		0.030	1. 423	01800	40.00	0.4	0,78	1.992		<u>30.46</u> <u>30.46</u>	
RO	0.00		1.4.00									LAAD		0.031	1. 479	01800	430,00	0.4	0.78	1.992		<u> </u>	·
	0.00		13.98	351.03	13.98	351,03	80,390	0. [87	0.471	0, 658	2.2	1.448	1	0.001	1							30.29	-
89	0.00			365.43	14.40	365.43	83,680	0, 195	0. 491	0, 686	2.2	1.509	-	0.032	1. 541	01800	940.00	0.4	0,78	1.992		<u>29.91</u> 29.39	
60		{ 	14.40	300.43	17.70	1						1010		0. 041	1. 853	01900	190.00	0.4	0.81	2.301		29.33	
90)	0.00		4.88	460.60	4.88	460.60	105,480	0.245	0,618	0.863	2.1	1.812		0.041									

and the second se	مساقبا همه بالكام وجوجة الإيدانية ويعاقبون والمقارق ويعو	i		Area	(ha)	1								<u> </u>						·		
Nome	of Zon				······	······	ulation Density	Populat			Unit		· · · · · · · · · · · · · · · · · · ·									
		Re	sidential	Commen	cial Tota		nersons	<u>.</u>		Per Ca		mercial		tration	et a la	•						
ZONI	E 2		2,030	1,570	3,60	00 22	9 ha	823,800	persons	201 1/	′c/d [l6 ^{m³} ∕h	a/d 7.0	6 ^{m³} /ha/d					.*			
				r		r																<u>، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، </u>
		by Lond			Area		Dom	estic Wa	istewater	Flo	Ŵ	Othe	Flow				Desi	gned	Sewer			
Resi	dential	Comm	nercial Area			Total Population				<u> </u>			· · · · · · · · · · · · · · · · · · ·					<u></u>	≘	ů.	+- c	
\$ n	Area	+ T		rement		n of	tiat	ommercial (Ave.)	ri Maria dagi	actor	мо I	iai	Б	Total	ter	£		(Full)	Capacity (Full)	Surface ation	wer Invert Elevation	
unent		mer		rem	T	0 0 0 0	lesidential (Ave.)	ne. Ve	Total	L L	ū	ıstı	rati	Design Flow	Diameter	Length	lope	ity	City	Eleva	ام ح	Remarks
ren	Total	Increment	Total	Incr	Total		lesiv (L	E S	TOTA	aking	Peak	Industrial	In fil tration	FIOW	Die	ë L	ŝ	Velocity	bdb	л Grou	Sewe	
inc.		<u></u>					₩ ³ /s	m ³ /s	m³/ s	Ded	0. ^{m³} /s	^{m³} /s	^{m³} /s	^{m³} / s	mm	m	%00	m/s	^{m³} /s	m m	.m	
ha	ha	ha	ha	ha	ha	persons	/s	/s	/ s		/ 5	/5	/ 5	/ 8			: 700	/ 3			29.31	
0.00		0.00	460.60	0.00	460.60	105,480	0.245	0.618	0.863	2.1	1.812		0.041	1.853	01900	40.00	0.4	0.81	2.301		29.29	
/ 0.00		-																			29.29	
0.00		12.56	473,16	12.56	473.16	108,350	0. 252	0.635	0.887	21	1.863		0.042	1. 905	01900	430.00	0.4	0.81	2.301		29.12	
					F17 05	110 010	0. 276	0. 695	0.971	2.1	2.039		0.046	2.085	0 2 000	400.00	0.4	0.84	2.639		29.02 28.86	
9 0.00		44.79	517.95	44.79	517.95	118,610	<u>V. 210</u>	0.000	0.011	E . 1								· · ·			28.86	
0.00		23.01	540.96	23.01	540.96	123,880	0.288	0.726	1.014	2.0	2.028		0.048	2.076	0 2 000	410.00	0.4	0.84	2.639		28.70	
0.00	<u>}</u>																		0.070		28.70	
5 0.00		14.66	555.62	14.66	555.62	127, 240	0, 296	0.746	1.042	2.0	2.084	<u> </u>	0.049	2.133	02000	355.00	0.4	0.84	2.639		28.56 28.46	
9						0.00	0 741	0.860	1. 201	2.0	2.402		0.056	2.458	02100	60.00	0.4	0.87	3.005		28.44	
9 0.00		85.14	640.76	85.14	640.76	146,730	0. 34 1	0.800	1. 201	2.0	E. 10E											
		105.17	745.93	105.17	745.93	170,820	0.397	1.001	1.398	1.9	2.656		0.066	2.722								Pumping Static
9 0.00			140.00	100.11								1									32.80	-
り 0.00		0.00	745.93	0.00	745.93	170,820	0.397	1.001	1.398	1.9	2.656		0.066	2.722	02 200	105.00	0,4	0.90	3.402	~	32.76	
									1 400		2.702		0.067	2.769	0 2 200	335.00	0.4	0.90	3.402	00	32.76 32.63	
8 0.00		11.99	757.92	11.99	757.92	173,560	0.404	1.018	1.422	1.9	2.102	·	0.067	2.105	02200	000.00				37	30, 92	
9 0.00			700.07	00.15	780.07	178,640	0.416	1. 047	1. 463	19	2.780		0. 069	2.849	0 2 200	290.00	0.4	0.90	3.402		30.80	
<u> 10.00</u>		22.15	780.07	22.10	100.01	110,010			a fa set										7 400		30.80	
9 0.00		11.41	791.48	11.41	791.48	181, 250	0.422	1.063	1.485	19	2.822		0.070	2.892	0 2 200	175.00	0.4	0.90	3.402		<u>30.73</u> 30.73	
	i i									1.9	2.898		0.072	2.970	0 2 200	160.00	0.4	0.90	3.402		30.67	-
<u> </u>		22.12	813.60	22.12	813.60	186,310	0.433	1.092	1. 525	1.3	2.030	-	0.072						-		30.67	
0.00				70.01	846.21	193,780	0.451	1. 136	1.587	1.9	3.015		0. 074	3.089	0 2 2 0 0	475.00	0.4	0.90	3.402		30.48	
		32.61	846.21	32.01	040.21	1001100																4
to																					34.75	
0.00	<u> </u>							0.004	0.000	4.8	0.029		0. 001	0. 030	© 250	330.00	3.5	0. 62	0. 031		33.60	1
9 0.00	ļ	3.04	ļ	3.04	t _{stat}	700	0.002	0.004	0.006	4.0	0.020	:									33.50	-
9 0.00					5.22	1,200	0.003	0.007	0. 010	4.8	0.048		0. 001	0.049	○ 350	95.00	2.2	0. 62	0.059		33.29	<u> </u>
		2.18	5.22	2 18	J.CC	1,200			-							100.00		0.62	0.099		<u>33, 19</u> <u>32, 90</u>	-
0.00		6.47	11.69	6.47	7 11.69	2,680	0.006	0.016	0. 022	4.2	0.092		0.001	0, 093	<u>⊙ 450</u>	180.00	1.6	0.02			32.75	
0.00	+							0.000	0.036	3.8	0.137		0.002	0. 139	0 600	200.00	1.2	0. 65	0. 184		32.51	
		7,53	19.22	7.53	3 19.22	4,400	0.010	0. 026	0,030									· · · ·			32.41	-
0.00					5 29.27	6,700	0,016	0.039	0,055	3,5	0,193		0.003	0. 196	0 700	240.00	1.0	0, 66	0.254		32.17	<u> </u>
		10.05	29.2	7 10.0											0 700	400.00	1.0	0.66	0,254	·.	<u>32.17</u> <u>31.77</u>	-
0.00		10.61		B 10.6	39.88	9,130	0.021	0.054	0.075	3.3	0.248	14 (A)	0.004	0. 252	0 700	+00.00	<u></u>	1 0.00		L		

Nome	of Zone			Area (ha) Commercial Tota		Population Density		Population		Unit Flow												
ZONE		Re	sidential 2,030	1,570			9 persons ha	823,800 persons		Per CapitaCommercialInfiltration2011/c/d116m³/ha/d7.67.6m³/ha/d7.6m³/ha/d												
	I	by Land		Area			Dom	iestic Wa	Istewater	er Flow			Other Flow				Desi	Designed Sewer				
	dential Area	T	nercial Area	Increment		Total Population				Factor	FI W			Total Design	eter	<u> </u>		Velocity (Full)	Capacity (Full)	Ground Surface Elevation	wer Invert Elevation	Remarks
Increment	Total	Increment	Total	lucre	Totai		Residential (Ave.)	Commercial (Ave.)	Total	edking	Peak	Industrial	Infiltration	Flow	Diameter	Length	Stope	s/ m	Capaci M³∕s		a Sewer Ele	<u>Vetini və</u>
ho	ha	ha	ha	ho	ha	persons	m³/s	^{m*} / s	m³/ _S	<u> </u>	^{m³} / s	^{m³} /s	^{ma} /s	^{m³} /s	mm	m	%。			<u>m</u>	31.67	<u>`</u>
0.00		11.02	50,90	11.02	50, 90	11,660	0. 027	0,068	0.095	3.2	0.304		0.004	0. 308	0 800	75.00	0.8	0.65	0.324	•	31.61 31.51	
0.00		11.77	62.67	11.77	62.67 908.88	14,350 208,130	0. 033	0.084	0. 117	3.1 1.9	0.363 3.238		0.006	0.369	○ 900 ○2300	585.00 30.00	0.8	070	0.444		31.04 30.38 30.37	: .
0.00		0.00	908.88	0.00									0. 089	3.467	02300	555.00	0.4	0. 92	3.831	•	<u>30.37</u> 30.15	
83.45 42.75	83.45	15.28 17.83			1007.61	230,740	0. 537 0. 568	I. 241 I. 265	1. 778 1. 833	l.9 1.8	3.378 (3.378) 3.299		0.089	3.469	© 2 300	380.00	0. 4	0.92	3.831		<u>30. 15</u> <u>30. 00</u>	
					1 139.30		0, 607	1. 294	1, 901	1.8	3.422		0. 097	3.519	0 2 300	500.00	0.4	0, 92	3.831	· · · ·	<u>30.00</u> 29.80	
49.05	175, 25		······································						1.936	1.8	3.485		0. 100	3.585	⊙ 2400	420.00	0.4	0.95	3, 291		29.70 29.53	
8.82	184.07	16.09	980.14	24.91	1 164.21	266,600	0. 620	1, 316	1.330	1.0	0.400		0.100	5,080	0 2400	120.00						<u></u>
to	(150)																			00	34.70	
0.00		3.87		3.87		890	0.002	0.005	0. 007	4.8	0.034		0.001	0.035	O 300	320.00	2.8	0.63	0.044	37.	<u>33,80</u> 33,65	
0.00		8.03	11.90	8.03	11.90	2,730	0.006	0.016	0. 022	4.2	0.092		0.001	0.093	⊙ 450	255.00	1.6	0.62	0. 099		<u>33.24</u> <u>33.09</u>	
0.00		8.60	20.50	8.60	20.50	4,690	0.011	0.028	0. 039	3.7	0.144	4	0.002	0. 146	◎ 600	320.00	1.2	0.65	0, 184		32,71 32,61	
0.00		12.60	33.10	12.60	33,10	7,580	0.018	0.044	0. 062	3.4	0.211		0.003	0.214	0 700	320.00	1.0	0.66	0.254		32,29 32,29	
0.00		4.79	37.89	4.79	37.89	8,680	0. 020	0.051	0. 071	3.3	0.234		0.003	0.237	◎ 700	280.00	1. 0	0.66	0. 254		32.01	
						18,950	0.044	0. 111	0. 155	2.9	0.450		0.007	0.457	01000	470.00	0.6	0.65	0.509		<u>31.71</u> <u>31.43</u>	
0.00	1	44.86		44.86					0. 211	2.8	0.591		0. 010	0.601	01100	500.00	0.6	0.69	0.656	-	<u>31.33</u> <u>31.03</u>	
0.00		29.78	112.53	29.78	112.53	25,770	0.060	0.151														
to	(131)														0.700	170.00	28	0.63	0.044		34.70 33.78	
0.00		4.23		4.23		970	0.002	0.005	0.007	4.8	0.034		0, 001	0.035	© 300	330.00				- . 	33.63	
0.00		6.99	11.22	6.99	11.22	2,570	0.006	0.015	0.026		0.008		0.001	0. 089	○ 450 ○ 600	310.00 210.00		0.62	1		33. 13 32. 98 32. 73	
0.00		5.70	16.92	5.70	16.92	3,870	0.009	0.023	0,032	3.9	0.125		0.001					0.66			32.63 32.39	-
0.00		16.39	33.31	16,39	33.31	7,630	0.018	0.045	. 0, 063	3.4	0.214		0.003	0.217	0 700	240.00	0 1.0	1 0.00			1 36.33	.

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