A.5 Planning Framework for District Planning⁷

A.5.1 Method for Establishing Framework

(1) Government Area

The gross unit floor area including meeting spaces of Government Area is established at $30\text{m}^2/\text{person}$, 57% above the gross unit floor area $(16.7\text{m}^2/\text{person})$ established for the normal offices for Astana, as mentioned in Section 3.4, because this Area is composed of governmental offices that administrate the important republican issues, and at the same time symbolize the country. This unit floor area, however, does not apply for buildings of special functions such as the Presidential Palace, Parliament, and the Supreme Court.

(2) Business Area

The gross unit floor area including meeting spaces of Business Area of District 13 is established at $20\text{m}^2/\text{person}$ and District 14 is $16\text{ m}^2/\text{person}$ in order for the average unit floor area of Government Area and Business Area to be $16.7\text{m}^2/\text{person}$ as described in Section 3.4. For the commercial facilities located in this Area, the gross unit floor area will be established at $16.7\text{m}^2/\text{person}$, while that for the selling area will be $0.95\text{m}^2/\text{person}$ as indicated in Section 3.4.

(3) Diplomatic Area

The gross unit floor area including meeting spaces and the area for one local staff on average of the Diplomatic Area is established at $30\text{m}^2/\text{person}$. For the residential area, the gross unit floor area is established at $60\text{m}^2/\text{person}$, assuming that there will be on average 1 (one) accompanying family member.

A.5.2 Floor Area Framework

Floor area framework is derived by multiplying the gross unit floor area mentioned above and the working population calculated in the Economic Framework. The planned floor area of the Presidential Palace indicated by the Presidential Office, and the floor areas estimated by some of the departments are separately referred.

⁷ This chapter, A.5, presents numerical frame work for district planning presented in Section 3.7 of Main Report.

(1) Government Area

	Building Name		Working	Unit Area / P	Total Floor
	Dunding Name		Population Population	(m [*])	Area (m)
1	Residence for President		100		20,000
2	President's Administration		1,700	30	50,100
3	Parliament		1,927		57,800
4	National Security Committee		865	30	25,950
5	Supreme Court		1,333		40,000
6	Cabinet of Ministers		1,038	30	51,900
7	Ministry of interior Affairs		933	30	28,000
8	Ministry of State Revenue		865	30	25,950
9	Ministry of External Affairs		1,767	30	53,000
10	Ministry of Culture, Information and Public Accord	<u></u>	897	30	26,900
11	Ministry of Science and High	Education	897	30	26,900
12	Ministry of Health Care, Edi Sport		897	30	26,900
13	Ministry of Energy, Industry, and Environmental Protection	903	30	27,100	
14	Ministry of Labor and Social S Ministry of Agriculture, Agen	•	850	30	25,500
15	Ministry of Defense		1,910	30	57,300
16	Ministry of Justice		600	30	18,000
17	General Prosecutor Office		600	30	18,000
18	SME (Small and Medium E	ntrepreneur	5,248	25	131,200
19	Ministry of Transport, Commo	unication	833	30	25,000
		Visitor	5,000		60,000
20	Universal Hall (5,000seats)	Office	300	20	6,000
21	Culture facility (Memorial Ce	nters)	Worker 30		7,000
	Service facility	User	Local user 13,000	1.5	19,065
22	(Commercial Building and Office		970	20	19,400
	Apartment) Housing		800	25	20,000
	Government total (1~19)		24,163		735,500
	Numbers 20,21,22 total		Exclude local user 7,100		131,465
	Grand total		31,263		866,965

(2) Business Area (Including Commercial Area)

	Building Name	Working	Unit Area	Total Floor
1, 5	Adaptive on the Section Section	Population	/P (m)	Area (m²)
1	Business District 13	45,478	20	887,825
- 2	Business District 14	72,957	16	1,182,840
	Total	118,435	17	2,070,665

(3) Diplomatic Missions

Number of Stationed Diplomatic Corps and other International Institutions in 2030 are given below.

1	Afghanistan	11	Egypt	21	Japán	31	Palestine	41	Ukraine
2	Armenia	12	France	22	Korea	32	Poland	42	U.K
3	Austria	13	Georgia	23	Kyrghyzstan	33	Rumania	43	Uzbekistan
4	Belarus	14	Germany	24	Lebanon	34	Russia	44	Vatican
5	Belgium	15	Greek	25	Libya	35	Saudi Arabia	45	European
									Commission
6	Bulgaria	16	Hungary	26	Lithuania	36	Spain	46	UNESCO
7	Canada	17	India	27	Malaysia	37	Swiss	47	UNISEF
8	Check	18	Iran	28	Mongolia	38	Tajikistan	- 1	Other 12
9	China	19	Israel	29	Netherlands	39	Turkmenistan		
10	Cuba	20	Italy	30	Pakistan	40	Turkey	H	

Required number of Embassy and other International Institutions, as informed by MOFA at the time of the international competition in 1988, and adopted in this Master Plan, are given below.

	1、花花1、5.1. · · · · · · · · · · · · · · · · · ·	2000	2010	2020	2030
	Number of Embassy	45	60	70	80
1	Site area for Embassy (ha)	83.46	111,28	130	148
1	Site area for Residence (ha)	10.13	13.50	16	18
	Total	93.59	124.78	146	166
2	Number of International Institutions	15	17	20	20
2	Required floor area for the above (m)	15,000	17,000	20,000	20,000
3	Population of Diplomatic Corps	910	1,078	1,260	1,400
	Residential total floor		32,340	37,800	42,000

^{*} source MOFA "Project of Diplomatic Enclave in Astana City" Appendix 2

Other required facilities for diplomatic missions from the same source as above are given below.

,	• .	2000*	V	2010		2020		2030		
		Site area(ha)	Floor area(m²)	Site area(ha)	Floor area(m)	Site area(ha)	Floor area(m)	Site area(ha)	Floor area(m²)	Floor m/p
1	Kindergarten	0.80	1,000	1	1.200	1.12	1,400	1.28	1,600	9.0
2	School site	2.80	2.000	3	2,400	3.92	2,800	4.48	3,200	18.0
3	Clinic, Service house site	0.26	1,920	0	2,304	0.36	2,688	0.42	3,072	2.1
4	General shops	0.10	800	0	960	0.14	1,120	0.16	1,280	0.9
5	Supermarket	0.15	1,270	0	1,524	0.21	1,778	0.24	2,032	1.4
6	Post, Bank	0.26	1,920	0	2,304	0.36	2,688	0.42	3,072	2.1
7	Car maintenance, Service	0.14	3.350	0 .	4,020	0.20	4,690	0.22	5,360	7.6/cur
8	Fire station	0.05	3,350	0	4.020	0.07	4,690	0.08	5,360	
9	Gym hall	0.24	3,350	0	4,020	0.34	402	0.38	5,360	30.6
10	Sports ground	1.50	3.350	2	4.020	2.10	4,690	2.40	5,360	3.8
11	Hotel	1.00	5,000	1	6,000	1.40	7,000	1.60	8,000	
12	Multi functional complex / business center, Cinema, Conference, etc.	9.50	100,000	11	120,000	13,30	140,000	15.20	160,000	114
		16.80	127.310	20	152,772	23.52	173,946	26.88	203,696	145.5

^{*} source MOFA "Project of Diplomatic Enclave in Astana City" Appendix 2

In consideration of the number of diplomatic missions estimated at 1,400 by the Ministry of Foreign Affairs, the number excluding the accompanying family member, will be 700. By multiplying this and the unit floor area of $90\text{m}^2/\text{person}$, the total floor area floor necessary becomes 63,000 m² in 2030, out of which 21,000 m² is office area and 42,000 m² is residential area. On the other hand, the total floor area of the service facilities is calculated to be $203,696\text{m}^2$ (plot area 26.88 ha) based on the population forecast conducted by the Ministry of Foreign Affairs. The floor area will be 145.5 m²/person, which is in accordance with the level of the developed nations.

A.6 Preservation of Historic Architecture and Cultural Properties⁸

A.6.1 Current Situation

In Astana there are a total of 17 historic and culturally significant properties: 2 qualifying as National Cultural Properties, 15 qualifying as Regional Cultural Properties, and 42 pending registration.

Although there are many cultural properties well maintained, as provisioned by the national law regarding protection of historic and culturally significant properties, there is an abundance of cultural properties neglected resulting from the lack of devotion necessary expenses for administration and maintenance of these cultural properties. Another possible reason is that both the national government and the private sector do not have the financial flexibility to provide funds to support the maintenance and administration of these cultural properties.

The historical and culturally significant buildings, along with the streetscape, of the existing urban area, are often lost in the waves of development and certainly shadowed by the dissonant large-scale architecture.

A.6.2 Purpose

The purpose of preservation of historic architecture and cultural properties is as follows;

- Preservation of the urban area will provide a physical expression of Astana's history for future generations.
- The historical cultural properties are not isolated, but are incorporated with other similarly designed properties to create a harmonious streetscape. Through this strategy, the buildings will be preserved and utilized.
- The proposed streetscape including proposed properties will combine harmoniously with the green corridor that runs through the existing city axis, providing lush green surroundings.

A.6.3 Plan for Preservation

The streetscape will be preserved by incorporating the trees along the streets and the foliage into the preservation of the historical and culturally significant properties.

⁸ This chapter, A.6, supplements Sub-section 3.8.6 of Main Report.

To encourage and lead a balanced development of the streetscape, guidelines for the designated special area in accordance with local government will be created.

The local government will make efforts to enlighten not only the owners of the cultural properties but also private businesses and the community so as to gain their understanding. The local government also will provide expenditure assistance and/or tax exemptions for those property owners to facilitate the preservation and utilization of the properties.

In addition to purchasing property for public use, the local government and/or the private sector will install and maintain the foliage, lighting, sidewalks, street furniture and so forth to facilitate the pedestrian in the cosmopolitan, around-the-clock city.

A.6.4 Preservation Objectives

(1) Criteria for Potential Historic Architecture and Cultural Property Status

For those objects not yet registered or pending registration according to national law and being a lasting structure displaying historical value, should any one of the following criteria be applicable, that structure or object would be able to qualify for cultural property status.

- 1) A building, street, tree, etc. capable of narrating "Astana".
- 2) A building, street, tree, etc. deep in the minds of the residents of Astana.
- 3) A building, street, tree, etc. where reproduction is either impossible or extremely difficult.
- 4) A building, street, tree, etc. with academic value.
- 5) A building, street, tree, etc. that plays an important role in the green corridor on the city's axis in the existing urban area.

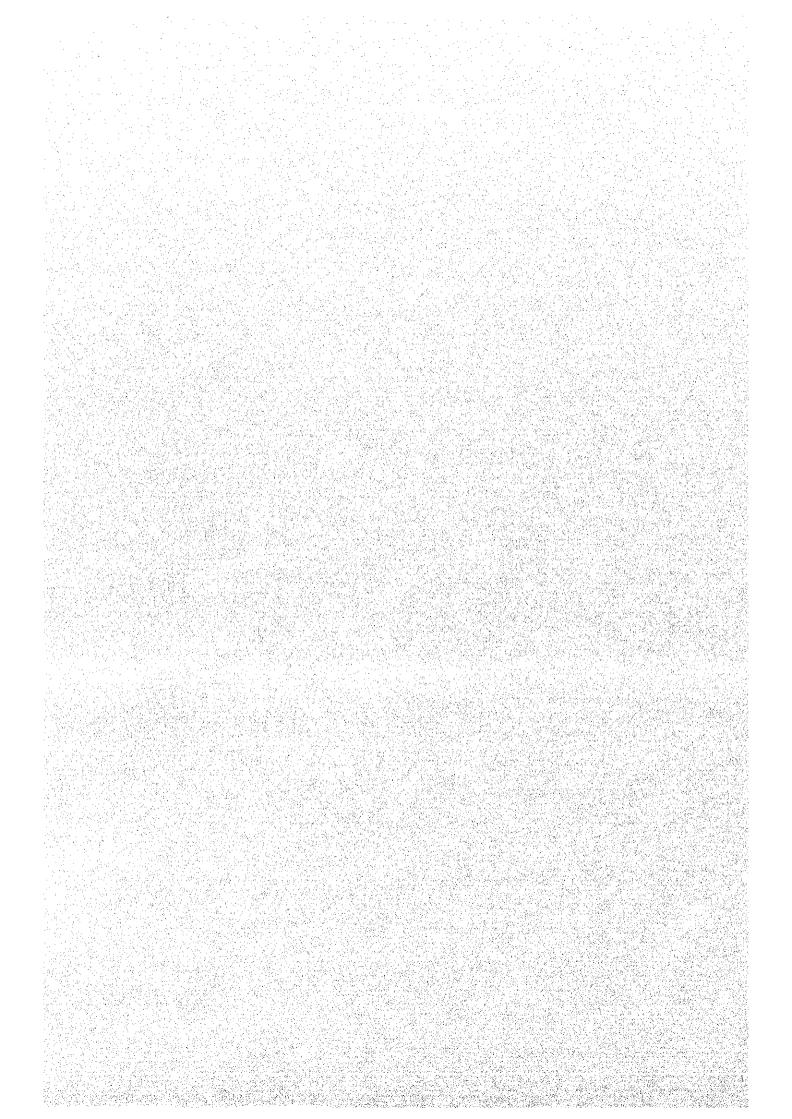
(2) Potential Historic Architecture and Cultural Property for Preservation

Based on the results of the study conducted concerning the above (6.4.1) criteria, 95 objects in total will be chosen. At present, the Station Precinct (photos S-1 to 42) and Beibitshilik Street Precinct (photos B-1 to 22), which run along the north-south axis green corridor of the existing urban area (Main Report 3-8), and the Kenesary Street Precinct (photos K-1 to 22) in addition to other structures on the east-west axis will be the primary streetscapes for preservation. Other objects and structures including trees, bridges, streets, etc. are included as well (photos O-1 to 10). Proposed

objects are listed in Table A.6.1 with location shown in Figures A.6.1. Figure A.6.2 depicts the images of the objects.

- 1) The group of buildings along Akzaiyk Street (photos S-1 to 19) of the Station Precinct were built in the 1940-1950 decade. The two- and three-story buildings are in well-preserved condition and will be preserved as a historical streetscape.
- 2) The housing built for railway workers in the 1940-1950 era on Libkneht Street and neighboring streets (photos S-20-38) and the school building for the workers' children on Pervomaisaya Street (photo S-40) will be preserved to narrate the memory of the golden era of the railroads to the ensuing generations.
- 3) The five-story pre-fabricated housing of Beibitshilik Street Precinct (photos B-2 to 9; 13 to 14), built in the Tselinograd era, is in a well-preserved condition and will be preserved as an example of architecture from the Soviet period.
- 4) The housing of the railway officials still remains in the Kenesary Street Precinct on Pobeda Street. Designed by the Moscow architect Mayrson, when compared to the housing complex built near to the station for the railway employees, these two-story structures have an air of the upper class (photos K-16-22). Other buildings along Kenesary Street built in the 1950's still carry the feeling of serenity of the Stalin style (photos K-5 to 15). These houses also will be preserved as an example of architecture expressing the Soviet era.
- 5) Additionally, the bridge (photo O-1), tree (photo O-4), historical street (photos 2 and 3) and other items dear to the community will also be objects for preservation.

TABLE



TableA.1.1 Estimated District-wise Area--Residential Area--Population-Density in 2000

Planning Region S	Sub-Zoning		Low Dens					f									1
		Net Residential Area (ha)	Population	Gross Housing Stock (m2)	Net Residential Area (ha)	Population	Gross Housing Stock (m2)	Nat Residential Area (ha)	Population	Gross Housing Stock (m2)	Total Area(ha)	Total Net Residential Area(ha)	Subtotal Population Existing (and development of existing urban fabric)	Subtotal Population New Developed Areas	Total Population	Gross Housing Stock (m2)	Avarage Ne Population Density (p/ha)
								<u> </u>			385	300	46,300	0	46,300	703,760	154
Central Planning Region R	Residential District 3	95	4,317	65,618	204	41,983	638,142	0	.0.	110 105	563	325		- 0	56,800	863,360	
P	Residential District 4	97	6,133	93,222	202	42,891	651,943	26	7,776	118,195	357	268		0	34,300	521,360	-
F	Residential District 5	142	9,008	136,922	126	25,292	384,438	0	0	0						579,120	
F	Residential District 6	94	5,272	80,134	175	32,828	498,986	0	0	0	384	269		0	38,100 175,500	2,667,600	
S	Sub-total	429	24,730	375,896	707	1-12,99-1	2,173,509	26	7,776	118,195	1,689	1,162	175,500				
2. Northern Planning Region	Northern Industrial District	285	11,558	175,682	. 0	. 0	0	0	.0	0	2,146	285	11,558	0	11,558	175,682	
	Central Industrial District	30	1,342	20,398	. 0	. 0	0	0	0	0	2,313	30		0	1,342	20,398	1
\$	Settlement Zheleznodoezhny	118	3,410	51,832	. 0	0		0	0	0	176	118		0	3,410	51,832	
5	Sub-total	434	16,310	247,912	0	0	0	0	0	0	4,635	434	16,310	0	16,310	247,912	
3. Southeastern Planning Region R	Residential District 7	106	4,431	67,351	212	47,169	716,969	0	0	0	594	318	· · · · · · · · · · · · · · · · · · ·	0	51,600	784,320	
	Residential District 8	0	. 0	0	149	30,200	459,040	0	0	0	395	149	30,200	. 0	30,200	459,040	
	Residential District 9	46	2,700	41,040	0	0	0	0	0	0	676	46	2,700	0	2,700	41,040	
	Residential District 10	133	1,329	20,201	0	. 0	0	.0	0	0	213	133	1,329	0	1,329	20,201	10
	Industrial District - Station 40	0	. 0	0	0	0	. 0	0	0	0	616	0	0	0	0	0	· C
	Settlement Promyshlenny	60	2,512	38,182	0	0	0	0	0	0	114	60		0	2,512	<u> </u>	
	Settlement Internatsionalnoye	130	2,470	37,544	0	Ö	0	0	0	0	130	130	2,470	0	2,470	37,544	
	Settlement Michurino	56	1,107	16,826	0	0	0	0	0.	0	56	56	1,107	0	1,107	16,826	
	Settlement Kuygenzhar	54	318	4,834	0	0	0	0	0	0	54	54		0	318		
	Sub-total	585	14,867	225,978	362	77,369	1,176,009	0	0	0	2,848	946	92,236	0	92,236	1.401.987	97
	Residential District 11	28	1,600	24,320	0	0	0	0	- 0	0	1,100	28	1,600	0	1,600	24,320	57
1. 000pitin 2 /mining g	Residential District 12 (incl. Airport zone)	147	12,700	<u> </u>	0	0	0	. 0	.0	0	5,237	147	12,700	O	12,700	193,040	86
	Settlement Prigorodnoye	97	1,286	19,547	0	0	0	0	0	0	118	97	1,286	0	1,286	19,547	13
	Settlement Telman	49			0	0	0	0	0.	0	49	49	426	0	426	6,475	9
	Sub-total	321	16,012		0	0	0	0	0	0	6,50√	321	16,012	0	16,012	243,382	50
	Residential District 1	98			3	540	8,208	0	O	0	332	100	4,500	0	4,500	68,400	45
5, 110(ttt***C3kb1t1 1 ttt***** 8 -1-8 -1-	Residential District 2	239	13,529		42	8,971	136,359	0	0	0	441	281	22,500	0	22,500	342,000	80
	Settlement Kirovo	105	3,620		. 0	0	0	0	0	0	231	105	3,620	0	3,620	55,024	34
	West Industrial District	6	70		0	0	0	0	0	0	561	6	. 70	0	70	1,064	12
	Sub-total	++8	21.179		45	9,511	144,567	0	0	0	1,565	493	30,690	0	30,690	466,488	62
Grand Total		2,216	,.				3,494,085	26	7,776	118,195	17,241	3,355	330,748	0	330,748	5,027,370	99

Note the planning regions follow Ak Orda original boundaries - but are expanded to extend to new city boundaries, as well as the sub-zoning divisions are a continuation of the original Ak Orda sub-divisions - but are amended to

Table A.1.2 Estimated District-wise Area-Office Floor Area-Working Population in 2000

	0.1.2	1	2	3	4	5	6	7	8	9	10	11	12	13	Working Population	Office (only) Gross Floor Area in m2
1 Million District	Sub-Zoning	243	1,078	1.900	1.971	0	486	1,842	3,146	2,331	2,128	1,556	3,748	4,440	24,869	380,436
Centra]	Residential District 3	243	1,824	1,800	1,870	419	514	345	6,006	2,032	1,165	1,088	3,889	4,607	25,802	383,884
k was a second of the second o	Residential District 4	3,679	1,824	0	379	523	200	0	929	747	134	251	1,947	2,307	12,920	116,914
	Residential District 5	1.459	2,073	1,400	910	0	200	1,267	2,270	2,002	314	184	2,714	3,215	18,008	225,746
	Residential District 6	5,624	6,799	5,100	5.130	942	1:400	3,454	12,351	7.112	3,741	3 079	12.298	14,569	81,599	1,106,980
	Sub-Total		1,327	1,500	2,653	0	0	<u> </u>		448	426	251	2,202	2,609	14,612	153,758
Northern Planning Region	Northern Industrial Zone	2,463			1,390	105	0		331	359	179	678	3,204	3,793	21,257	223,832
	Central Industrial Zone	4,013	2,902	2,000	1,390	103	0.	2,303	331	229	1//	0.0	3,207	5,770		
1.19	Settlement Zheleznodoezhny			2.560	4.043	105	0	2,303	1,064	807	605	929	5.406	6.402	35,869	377,590
	Sub-Total	6,476	4,229	3,500					268	418	739	100	883	1.046	5,859	82,942
South-Eastern Planning Region	Residential District 7	486	249	0	758	105	0					100	565	669	3,747	59,057
and the second second	Residential District 8	0	0	0	0	174	0		143	986	1.210	0	363	009	0.147	33,037
	Residential District 9	0	0	0	0	0	0				0		— <u> </u>	0	0	
	Residential District 10	0	0	0	0	0	0	0		0	0		0 36	0 45	240	4.500
	Industrial Zone Station 40					·			134	- 0		25	30	43	240	4,500
	Settlement Promysshlenny															
	Settlement Internatsionalnoys															
The second of the second of the second	Settlement Michurino															
	Settlement Kuygenzhar															12.66.706
to the second state of the second	Sub-Total	486	249	0	758	279	0	806	545	1.404	1,949	. 125	1,484	1,760	9,846	146,500
Southern Planning Region	Residential District 11	1,338			-	174	-		-		-	50	351	416	2,330	15,384
	Residential District 12	1,186	124	0	1,617	0	0	0	357	179	0	117	805	953	5,339	56,533
	Settlement Prigorodnoye															
	Settlement Telman															
and the second second	Sub-Total	2,524	1.24	0	1,617	7 174	0	0	357	179	0	167	1.156	1,369.	7,669	71,918
North- Western Planning Region	Residential District 1	0	0	. 0	0	0	0	0	0	90	314	0	91	107	601	10,434
	Residential District 2	395	1,700	0	2,552	0	0	1,036	393	508	291	0	1,545	1,830	10,252	120,816
	Settlement Kirovo			-												
	Western Industrial Zone	243	290	0	0	0	0	0	0	0	0	0	120	142	795	4,310
Unknown	<u> </u>	152	207	-		-	-	-	. 89		-		101	119	669	
CHRIOWI	Sub-Total	790	2,198		2,552		-	1,036	483	598	605		:1,856	2,199	12,3,17	135,560
Grand Total	1	15,901	13,599	8,600	14,100	1,500	1,400	7,599	14,800	10,100	6,900	4,301	22,200	26,300	147.300	1,838,548
Grana Iotai	only -not industrial or other small busine										<u> </u>					

(note this table lists office floor areas only -not industrial or other small business-, but gives total of working population-including industrial and other small business)

Legend: 1 = Industry, 2 = Construction, 3 = Trade & Repair, 4 = Transport & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 5 = Hotel & Restaurant, 6 = Financial Activities, 7 = Real Estate, 8 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 12 = State Management, 9 = Education, 10 = Health Care & Social Services, 11 = Other Public & Communication, 12 = State Management, 13 = Other Public & Communication, 14 = Transport & Communication, 15 = Transport & Communicat

Table A.1.3 Estimated District-Commercial Area-in 2000

		Neighborhood	District Shopping	City Centre Shopping	
		Shopping Total Gross	Gross Floor Areas in	Gross Floor Area	Total Retail Floor Area
Planning Region	Sub-Zoning	Floor Area in m2	m2	in m2	in m2
1. Central Planning Region	Residential District 3	8,103	8,103	0	
	Residential District 4A	9,940	9,940	51,266	71,146
	Residential District 5	6,003	6,003	0	12,005
	Residential District 6	6,668	6,668		13,335
	Sub-Total	30,713	30,713	51,266	112,691
2. Northern Planning Region	Northern Industrial District	4,045	0	0	4,045
	Central Industrial District	470	0	0	470
	Settlement Zheleznodoezhny	1,194	. 0		
	Sub-Total	5,709	0	0	5,709
3. Southeastern Planning Region	Residential District 7	9,030	9,030	0	18,060
	Residential District 8	5,285	5,401	0	
	Residential District 9	945	0	0	
	Residential District 10	465	0	0	465
	Industrial District - Station 40	0	0	0	
	Settlement Promyshlenny	879	0	0	
	Settlement Internatsionalnoye	865	. 0	0	
	Settlement Micharino	387	0	0	387
	Settlement Kuygenzhar	111	0	0	
	Sub-Total	17,968	14,431	0	32,399
4. Southern Planning Region	Residential District 11	560	0	0	560
	Residential District 12	4,445	0	0	
	Settlement Prigorodnoye	450	0	0	450
	Settlement Telman	149	0	0	1
	Sub-Total	5,604	0	0	5,604
5. Northwestern Planning Region	Residential District 1	1,575	0	0	1,575
	Residential District 2	3,938	3,938	0	7,875
	Settlement Kirovo	1,267	0	0	1,267
za stalita zakon	West Industrial District	25	0	0	25
	Sub-Total	6,804	3,938		10,742
Grand Total		66,797	49,081	51,266	167,144

Note: the Number of Shop Staff is included in the Working Population Table

Table A.1.4 Major Streets in Astana (Width more than 10 m)

	Table A.1.4 Major Str	Length		th more the	Other	Total	Average
No	Street Name	(m)	(m)	(m2)	area (m2)	Area (m2)	width (m)
1	Sary-Arka	2,500	26	6,080	19,160		
2	Astrakhanskaya Highway	2,100	25	1,560	804		
3	Bogenbai	2,400	25	7,200	200,000		
4	Manasa	1,942	25	7,686	63,000		
5	Respublika	2,330	24	11,374	54,490		
6	Vavilova	682	24		6,698		T
7	Beibetshilik	3,400	23	47,400	81,000		
_8	Birzhan Sal	400	- 23	3,500	2,335		
9	Auezova	3,600	22	56,000	20,000		
10	Kravtsova	1,000	_ 22	6,000	61,100	89,100	
11	Mirzoiana	700	20	2,400	74,850	91,250	
	Panfilova	870	19	8.85	7,420		
13	Abylai-khana	2,000	18	12,000	28,000	76,000	
	Pobeda	3,320	18	19,932	12,943	92,635	
15	Pushkina	2,200	: 17	10,200	34,750	82,350	: 37.4
16	Akzhaiyk	1,400	16	10,900	962	34,262	24.5
17	Baraeva	1,203	16	5,272	10,780	35,300	29.3
18	Valikhanova	2,100		12,800	25,600	72,000	34.3
19	Abai	5,500	15	27,841	39,594	149,935	27.3
	Omarova	3,400	15	17,276	21,377	89,653	26.4
	Begeldinov	320	14	1,848	1,452	7,780	24.3
22_	Dzhangildina	3,800	12	21,950	23,725	91,275	24.0
23	Gumilyova	3,000	12	3,704	24,000	63,704	1 21.2
24	Moskovskaya	2,400		8,904	23,000	60,704	25.3
25	Mukana	1,800		8,725	95,975	126,300	70.2
26	Petrova	934	12	5,484	7,790		26.2
27	Road between microdistricts #4 and #5	700			34,010		
28	Seifullina	3,700		22,200	37,000		
29	Tsiolkovskii	3,996		10,500	16,800	75,252	18.8
30	Imanova	1,300	11	4,400	11,000	29,700	
31	Kenesary	5,200		32,161	32,547		
32	Baitursynova	2,000			12,000	40,000	
33	Bukeikhana	1,060			2,520		
34	Bypass road	1,584	10	· · · · · · · · · · · · · · · · · · ·	76,547	94,571	
35	Lesozavodskaya	2,500			15,000	45,000	
36	Likhachyova Oth of May	2,100			46,000	71,400	
37	9th of May	1,900		1	6,600	35,342	
39	Mozhaiskii Potanina	1,070			10,800	21,500	
139	Road between microdistrict #9 and	950	10	2,590	21,875	33,965	35.8
40	Alpharabi	3,000	10		0	30,000	10.0
41	Sembinova	1,670			29,968		
42	Zatayevicha	-1,500	10		15,000		
43	Zhumabayeva	910	10	· ·	53,690		

Table A.1.5 Townscape Characteristics of Major Streets (More than Width 10 m)

[]	Table A.1.5 Townscap	DE CHATA	eter istics	of Major S Per	1 m of Lei	<u>atii 10 iii)</u>	
No	Street Name	Total Length (m)	Lane Width (m)	Pave- ment (m2)	Tree Area (m2)	Lawn /flower area (m2)	No. Trees (Nos.)
1	Sary-Arka	2,500	26	2.4	7.7	3.1	369
2	Astrakhanskaya Highway	2,100	25	0.7	0.4	0.0	2,890
3	Bogenbai	2,400	25	3.0	0.0	0.0	623
4	Manasa	1,942	25	4.0	32.4	37.1	1,316
5	Respublika	2,330	24	4.9	0.0	0.0	1,947
6	Vavilova	682	24	0.7	9.8	0.0	
7	Beibetshilik	3,400	23	13.9	23.8	8.8	1,403
8	Birzhan Sal	400	23	8.8	5.8	13.0	244
9	Auezova	3,600	22	15.6	5.6	7.7	2,183
10	Kravtsova	1,000	22	6.0	61.1	26.7	1,625
11	Mirzoiana	700	20	3.4	106.9	i	343
12	Panfilova	870			• 		94
13	Abylai-khana	2,000					2,431
14	Pobeda	3,320		 	{		2,076
15	Pushkina	2,200			1		800
16	Akzhaiyk	1,400			 		451
17	Baraeva	1,203	~	 		 	554
_	Valikhanova	2,100			· · · · · · · · · · · · · · · · · · ·		
	Abai	5,500		 	1		1,862
20	Omarova	3,400			 	+	
_	Begeldinov	320			 		81
	Dzhangildina	3,800					
	Gumilyova	3,000		 	1		1
	Moskovskaya	2,400				1	
-	Mukana	1,800		1		1	
26	Petrova Road between microdistricts	934	12	5.9	8.3	0.0	
27	#4 and #5	700	12	0.0	48.0	0.0	
	Seifullina	3,700		2 6.0	10.0	23.3	1,434
29		3,996					
	Imanova	1,300) 1	3.4	1 8	5 13.3	267
31	4.445.4	5,200) 1	1 6.2	2 6.:	***	
32	and the second s	2,000) 10) 4.0	6.0		†
	Bukeikhana	1,060) - (10	6.	8 2.		
	Bypass road	1,584	1	0 1.	4 48.	- 	
3.	5 Lesozavodskaya	2,500) 1	0 2.			1
30	Likhachyova	2,100	1				
3	7 9th of May	1,900) 1	0 5.			
3	Mozhaiskii	1,070					T
39	Potanina	950	0 1	0 2.	7 22.	5 7.3	307
Δ	Road between microdistric 0 #9 and Alpharabi	t] 3,00	0 1	o <u>o.</u>	0 0.	0 0.0	
	1 Sembinova	1,67		0 2.		9 3.8	869
1	2 Zatayevicha	1,50		0 4.	_	0.0)
ļ	3 Zhumabayeva	91		0 0.	0 59.	0 18.	362

Table A.2.1 List of Kindergartens

# of	Address	Total	Numb	Number
kinderg		area	er	of
arten	. [(m2)	of	children
			staff	•
Saryarka	Region			*
2	Karasai-Batyr, 31/1	2,688	33	299
5	Republic, 15/1	3,114	37	403
10	Lesozavodskaya, 20	1,191	12	130
20	Auesova, 113a	1,121	15	169
22	Zheltoksan, 47	1,865	- 32	270
29	Dzhangildina, 17	879	18	197
41	Beybitshilik, 75a	778	15	164
42	Abay, 41	1,982	12	134
43	Gercen, 84	786	12	100
46	Moscovskaya, 396	2,066	27	324
50	Dzhangildina, 24	2,481	37	340
54	Lineynaya, 16a	945	18	208
61	Dzhambula, 69/1	2,698	32	329
64	Druzhba, 56	2,103	30	334
66	Pobeda, 69a	1,054	18	216
Almaty	Region	A A		
1	M-r "Molodezhny"	2,550	28	351
8	M-r 3, 8	2,091	22	220
12	Lomonosova, 52	1,359	12	150
18	"Prigorodnyi" settelment	878	9	70
28	Lihachev, 7a	893	19	104
47	"Komsomolski"	627	9	62
1	settelment	an a said		r Within
49	Mozhaysky, 5	1,517	15	- 222
51	Minsky Alley, 216	514	9	101
55	M-r 1	1,825	27	276
58	Internatsionalnaya, 37	1,945	30	223
59	M-r 2	1,700	24	285
63	Koshkarbaeva, 33	2,009	24	295
67	Abylay-han, 6	2,698	33	351
69	Abylay-han, 23/1	2,698	30	369
70	Abylay-han, 33	3,000	30	416
73	M-r 5, 30	2,640	30	244
75	M-r "Molodezhny", 40/1	2,726	24	247
9	M-r 4	1,164	12	181
4	Birzhau-sala, 3a	997		148
3	Timiryazev, 20a	1,020		170
39	Karassai batyr, 3	1,116.1		194

Source; Department of Education, Astana Municipality

Table A.2.2 List of Secondary Schools

No	School name	Address & Telephone	No. pupils	No. teachers
1	Mathematical-economic lyceum #1	13, Zheltoksan Street	581	36
2	Kazakh-Turkish Lyceum of Astana City	191, Seifullina Street	193	22
3	Secondary School #2 (Russian and Kazakh)	47, Seifullina Street	1,285	80
4	Mixed-type multi-profile school-gymnasium #3	67, Omarova Street	1,478	93
5	Kazakh school-gymnasium #4	30, Kazakhskaya Street	1,226	83
6	Secondary school #5	"Tselinnyi" micro-district	1,579	110
7	Secondary school #5 Secondary school #6 (with Kazakh gymnasium classes)	62, Bogenbai Avenue	1,737	113
8	School-gymnasium #7	103, Auezova Street	1,188	- 82
9	Secondary school # 8 (Russian, Kazakb)	56, Gastello Street	1,258	78
10	Humanitarian-economic lyceum #9	12, Sary-Arka Street	1,052	77
11	Secondary school # 10 with Kazakh gymnasium classes	10, Korkyta Street	1,608	118
12	Chemical-biological lyceum #11	65, Moskovskaya Street	1,390	72
13	School-complex #12	17, Kirpichnaya Street	315	34
14	Secondary school # 13 (Russian and Kazakh)	Silikatuyi settlement	507	51
15	Secondary school # 14 (Russian and Kazakh)	33, Moskovskaya Street	1,334	86
16	Secondary school #15 (Russian and Kazakh)	1, Frunze Street	1,438	95
17	Secondary school #16 (Russian and Kazakh)	253, Kenesary Street	2,617	134
18	Secondary school #18 (Russian and Kazakh)	41, Bogenbai Avenue	1,131	72
19	Secondary school #19 (Russian and Kazakh)	170, Dulatova Street	833	58
20	Secondary school #20	62, Kartalinskaya Street	640	42
21	Secondary school #21	14, Lesozavodskaya Street	1,358	8€
22	Secondary school #22 (Russian and Kazakh)	Micro-district #5	2,690	135
23	Secondary school #23 (Russian and Kazakh)	16, Kurskaya Street	994	75
24	Secondary school #24 (Russian and Kazakh)	Prigorodnyi Settlement	354	38
25	Secondary school #25	17, Timiryazeva Street	1,878	93
26	Kazakh secondary school #26	44, Konstitutsia Street	1,086	60
27	Secondary school #27	Molodyozhnyi micro-district	2,058	121
28	Secondary school #28 (Russian and Kazakh)	Micro-district #1	1,850	93
29	Secondary school #29 (Russian and Kazakh)	Sorokovaya Station	689	4
30	Secondary school #30 (Russian and Kazakh)	Micro-district #2	1,547	84
31	Secondary profile school #31	131, Kenesary Street	1,546	9.
32	Secondary school #32 with gymnasium classes	21/1, Abylaikhan Street	2,089	12.
33	School-complex #33	2, Liteinaya Street	626	3:
34	Secondary school #35 (Russian and Kazakh)	5/1, Abai Street	1,455	9
35	Secondary school #36	Pervomaiskaya Street	1,661	8
36	Secondary school #37 (Russian and Kazakh)	Al-Farabi micro-district	1,791	11
37	Kazakh Lyceum #38	Micro-district #9	1,202	7
38	German educational complex		435	. 4
39	Ukrainian educational complex	49, Seifullina Street	100	l
40	Professional-training center of general education		376	3
Tot			49,175	3,08

Source; Department of Education, Astana Municipality

Table A.2.3 List of colleges and professional schools

1	Name of educational facility	Number of students	Number of teachers	Notes
1	Professional school #1	582	57	State
2	Professional school #2	383	35	State
3	Professional school #3	442	44	State
4	Professional school #4	151	6	State
5	Professional school #5	86	8	State
6	Polytechnic College	1,169	78	State
7	Transport and Communication College	798	52	State
8	Humanitarian College	320	10	State
9	Agrarian-Technical College	418	20	State
10	Medical College	314	18	State
11	Financial-Economic College	560	73	State
12	Trade and Economy College	333	29	Private
13	College of the Management Institute	132	12	Private
14	Social-Humanitarian College	246	10	Private
15	Economical-Juridical College	251	11 (1977)	Private
16	Branch of Aktau College	23	4 - 75.4	Private
17	College "Lingua"	32	1	Private
18	Branch of the Dentist College by Rusutdinov	7	2 *	Private
19	Medical College "Akdina"	54	6	Private
20	College "Danalyk"	150	8	Private
21	Kazakh Juridical College "Akniet"	214	11	Private
22	Capital's Branch of High Law School "Adilet"	128	17	Private
23	Capital's Branch of Medical Center "Emily"	133	5 5 5 5 5 5 5	Private
24	Eurasian Juridical College	170	2	Private
25	Academy Astana "Kazakh Professional College"	90	10	Private
	Total Annual Control of the Control	7,186	529	Mark Control

Source; Department of Education, Astana Municipality

Table A.2.4 List of Institutions of Higher Education

#	Name of the institution,	Address,	No.	No.	No.	No.
	Form of property	te le phone	students	Doctors	Professors	Docent
	·			of		S
				Science		
1	Agrarian University by	Pobeda, 116	6,341	21	24	111
	S.Seyfullyn					
2	The L. N. Gumilyov Eurasian	Tsiolkovsky,6	7,550	24	41	205
	University					
3	Medical Academy	Sary-Arka, 95	1,833	41	26	53
4	Kazakh National Music	Pobeda, 65	202	:		
	Academy	. !				
5	Eurasian Humanitarian	Zhumabaeva,3	863	5	5	-, 32
	Institute (Formerly "AKKU")	The second second		4.		
6	Management Institute	Beybetshilik, 73	360	2	3	5
			- 1 - 1 · 1	<u> </u>		
7	Institute of Arabic Language	Kazakbskaya, 30b	108	-	1	3
	and East Culture	,	1 20 0			1 4
8	Education-consulting unit of	Tsuołkovsky, 51	321	5		
	"Kaynar" University					
9	Branch of "Turan" University	Pushkina, 166	682			
1.			<u> </u>			
10	Branch of Humanitarian	Stroitelnaya, 16	400		4.5	
	University by Kunaev		4			
11	Branch of Moscow	Beybitshilik, 41	100			
	Socio-Humanitarian Institute					
12	Branch of Higher Law School	Chubary, Zorge, 3	358	. 2	3	16
1	"Adilet"					
13	Branch of Almaty Processing	Pushkina, 66	230	1		10
	Institute					
14	Branch of Central-Asia	Zheltoksan, 41	450			
	University					
15	Russiau-Kazakh Modern	Pushkina, 166	800	6	6	22
:	Humanitarian University					
	Brauch					
16	Branch of Almaty Institute of	Beybetshilik, 39	50		1	5
	Managers-Economists					ļ
	"Daulet"	- 17				
17	Akmola Branch of Almaty	Pervomayskaya, 1	443	2	2	4
1	Labor and Social Relations	77-25-41			1000000	
	Academy					
18		Lihacheva, 7	135	2	2	3
	Management Academy					
19		Akzhayik, 31	400	3	-	1
	Juridical University					

Table A.2.5 List of Hospitals and Clinics

Name of the facility		Table A.2.5 List of Hospitals and Clinics							
City polyclinic #1 Seyfullina, 42 53 60 20	#	Name of the facility	Address		Nurses	· ·	Beds		
City polyclinic #1 Seyfullina, 42 53 60 20	1	Ambulance hospital	Bogenbaya, 15						
City polyclinic #2	2			53	60	20			
City polyclinic #3 Pushkina, 132,134 45 51 5				56	97	26			
5 Consulting-diagnostic polyclinic #6 Abylay-ban, 22/1 42 61 13 6 City hospital #1 Beybitshilik, 47a 70 139 83 225 7 State Public Utility Enterprise "City hospital #2" Abylay-han, 13 96 198 158 310 8 City hospital #3 Bokey-han, 40 27 51 30 60 9 City Ambulance Station Druzhba, 18 72 87 57 10 City child isolation hospital Kulturnaya, 51 29 83 70 180 11 City child lospital #2 Manasa, 10 73 163 106 215 13 City mental dispenser Uchilishuaya, 7 57 139 187 500 14 City tuberculosis dispenser Uchilishuaya, 7 57 139 187 500 15 Venereal dispenser Pushkina, 164/1 33 57 29 100 16 Narcological dispenser Vishnevskoe Highway, 11 28 <td></td> <td></td> <td></td> <td></td> <td>51</td> <td>5</td> <td></td>					51	5			
6 City hospital #1 Beybitshilik, 47a 70 139 83 225 7 State Public Utility Enterprise "City hospital #2" Abylay-han, 13 96 198 158 310 8 City hospital #3 Bokey-han, 40 27 51 30 60 9 City Ambulance Station Druzhba, 18 72 87 57 10 City solation hospital Kulturnaya, 51 29 83 70 180 11 City child isolation hospital Stroitelnaya, 2/1 32 82 54 120 12 City child dospital #2 Manasa, 10 73 163 106 215 13 City mental dispenser Uchilishuaya, 7 57 139 187 500 14 City tuberculosis dispenser Uchilishuaya, 7 57 139 187 500 15 Venereal dispenser Pushkina, 164/1 33 57 29 100 16 Narcological dispenser Chehova, 14a 20 <td></td> <td>Consulting-diagnostic</td> <td></td> <td>42</td> <td>61</td> <td>13</td> <td>- 5</td>		Consulting-diagnostic		42	61	13	- 5		
State Public Utility Enterprise "City hospital #2" Abylay-han, 13 96 198 158 310	6		Beybitshilik, 47a	70	139	83	225		
O		State Public Utility	.4.4	96		5.45	310		
10	8	City hospital #3	Bokey-han, 40				60		
11	9	City Ambulance Station	Druzhba, 18				mand		
12	10	City isolation hospital	Kulturnaya, 51	29	83	70	180		
13	11	City child isolation hospital	Stroitelnaya, 2/1	32	82	- 54	120		
14	12	City child hospital #2	Manasa, 10	73	163	106	215		
15	13	City mental dispenser	Uchilishuaya, 7	57	139	187	500		
15	14	City tuberculosis dispenser	Stroiteley, 9	51	141	88	300		
16	15		Pushkina, 164/1	33	57	29	100		
17				20	36	38	155		
18	17		Vishnevskoe Highway, 11	28	- 46	22	- 100		
Maternity hospital #1 9 May, 70 44 109 80 110	18			· 49	98	65	125		
20 Blood transfusion center Moskovskaya, 82 16 36 26	19	Maternity hospital #1	9 May, 70	44	109	80	110		
Center "AIDS" Naberezhnaya, 37 12 18 4	20			16	36	26			
22 SVA "Orbita" M-r 1 8 10 2 23 SVA "Lesozavodskaya" Lesozavod 10 12 1 24 SVA "Shipager" Komsomolsky village 5 7 2 25 SVA "Promyshleuny" 30 years Tseliny, 2 6 6 0 26 Dorozhnaya hospital including: 125 319 115 Child polyclinic # 1 Byrzhan sala, 10 125 319 115 Child specialized polyclinic # 5 Pushkina, 110 155 274 82 Child policlinic # 2 Auezov, 90 155 274 82 Child policlinic # 4 9 May, 69 155 274 82 Child policlinic # 6 Abylay-hau, 1 1 155 274 82	21	Center "AIDS"		12	18	4	3 1		
23 SVA "Lesozavodskaya" Lesozavod 10 12 1				· · · · · · · · · · · · · · · · · · ·	+		11.12		
24 SVA "Shipager" Komsomolsky village 5 7 2 25 SVA "Promyshlenny" 30 years Tseliny, 2 6 6 0 26 Dorozhnaya hospital including: 125 319 115 Child polyclinic # 1 Byrzhan sala, 10 Child specialized polyclinic # 5 Pushkina, 110 City child hospital Zheltoksan, 42 155 274 82 Child policlinic # 2 Auezov, 90 155 274 82 Child policlinic # 4 9 May, 69 155 274 82 Child policlinic # 6 Abylay-hau, 1 1 1 1		<u> </u>	·						
25 SVA "Promyshleuny" 30 years Tseliny, 2 6 6 0 26							1		
Dorozhnaya hospital including: 125 319 115				6	6	0			
Child specialized polyclinic # 5 City child hospital Child policlinic # 2 Child policlinic # 4 Pushkina, 110 2heltoksau, 42 Auezov, 90 Child policlinic # 4 9 May, 69 Child policlinic # 6 Abylay-hau, 1		Dorozhnaya hospital		125	319	115			
Child specialized polyclinic # 5 City child hospital Zheltoksan, 42 155 274 82 Child policlinic # 2 Auezov, 90 Child policlinic # 4 9 May, 69 Child policlinic # 6 Abylay-hau, 1		Child polyclinic # 1	Byrzhan sala, 10		5 , 4				
Child policlinic # 2 Auezov, 90 Child policlinic # 4 9 May, 69 Child policlinic # 6 Abylay-hau, 1	ļ	Child specialized polyclinic	Pushkina, 110						
Child policlinic # 2 Auezov, 90 Child policlinic # 4 9 May, 69 Child policlinic # 6 Abylay-hau, 1			Zheltoksan, 42	155	274	82			
Child policlinic # 4 9 May, 69 Child policlinic # 6 Abylay-hau, 1	1			1 .					
Child policlinic # 6 Abylay-hau, 1						10.73			
	Tot		1.214	2,380	1,363	2,500			

Source; Department of Health Care, Astana Municipality

Table A.2.6 List of Police Offices and Fire Departments

No	Name	Address
Polic	e Stations	
1	Head Office	19 Beibitshilik
2	*Department of Almaty District	2, Leihacheva
3	Department of Sary-Arka District	6, R. Luckemsburg
4	- Industrial District Sub-Divition of	41, Samarkandskaya
	Sary-Arka District	
Fire	Department	
1	Fire Department #1	47, Tsiolkovskii Street
2	Specialized FD #2 (head office)	91, Omarova Street
3	Fire Department #4	"Promyshleunyi" Settlement
4	Fire Department #6	Industrial zone, reinforced concrete plant "Artem"
5	Fire Department #8	3, Betonnaya Street
6	Fire Department #10	"Textilshik" micro-district (micro-district #3)

Table A.2.7 List of Cultural Facilities, Theaters and Museums

1	Names	Address			
Theat	ters and Auditoriums				
1	Russian Drama Theatre	72, Bigeldinov Street			
2	Kazakh Music and Drama Theatre	47a, Omarov Street			
3	Culture and Leisure Activity Center	40, Respublika Avenue			
4	Congress-Hall	2, Beibitshilik Street			
5	Railroad Work's Palace	(now under reconstruction; shall be re-opened as a			
75		Kazakh music and dance theater)			
Muse	eums a contract and a				
1	Museum of Modern Art	Respublika Av., 3			
2	Museum of History and Culture of Astana	Kenesary, 107			
3	The S.Seyfullyn Museum	Auezova, 78			
Cult	ural Facilities				
1	State Philharmonic Society	72, Respublic Avenue			
2	Child and Juvenile Art Palace	1, Boykeyhana Avenue			
3	"Zhastar" Palace	72, Respublic Street			
4	Ceremonial Palace	40, Respublic Avenue			
5	Management of Movie and Video Lease	2a, Abylaikhan Street			
Libr	aries	the second field the second			
1	Central Library*	Bogenbaya, 26			
2	Republic Public Library	Seyfullina, 72			
3	Scientific-technical Library	Pobeda, 87			
4	Branch of Central City Library	Abylay-han, 2			
5	Branch of Central Children' Library by Gaydar	Bogenbaya, 26			
6	Specialized Library for Blind and Poor Eyesight People	M-r Molodezny, Polevaya, 2/1			

^{*:} Central Library has 8 branch libraries for children and 10 branch libraries for adults in various parts of the city.

Table A.6.1 (1) List of proposed cultural property for preservation

Station Precinct (S)

no.	location	name	stories	date	remarks
S-1	1, Akzaiyk st	housing	2		
S-2	2, Akzaiyk st.	housing	2		
S-3	3, Akzaiyk st.	shop/housing	2		
S-4	4, Akzaiyk st.	office	2		mass development of the street with
S-5	5, Akzaiyk st.	office/housing	3	40-50	similar facades
S-6	6, Akzaiyk st.	housing	- 3		
S-7	7, Akzaiyk st.	office	3		
S-8	8, Akzaiyk st.	shop/housing	3		
S-9	12, Akzaiyk st.	shop/housing			
S-10	13, Akzaiyk st.	shop/housing			
S-11	14, Akzaiyk st.	housing			
S-12	15, Akzaiyk st.	housing			
S-13	16, Akzaiyk st.	housing			for a strength wind to the control of
S-14	17, Akzaiyk st.	shop/housing	3	40-50	mass development of the street with
S-15	18, Akzaiyk st.	housing	_		similar facades
S-16	19, Akzaiyk st.	housing			
S-17	21, Akzaiyk st.	housing			·
S-18	23, Akzaiyk st.	housing	1000	10 Hz 4	
S-19	25, Akzaiyk st.	housing			
S-20	East-1				#228 Type, by Moscow arch.
S-21	East-2			**	Mayrson for railway workers
S-22	West-1				housings. In this period they are
S-23	West-2	Libkneht st. housing	2	40-50	very rich and strong, as the railway
S-24	West-3				was very important from the view
S-25	West-4				point of the country's economic
S-26	West-5				growth
S-27	South-1			1.0	giowai
S-28	South-2				
S-29	South-3	Lineinaya st. housings	2	40-50	ditto
S-30	South-4				
	South-5				
S-32	12, Gyote st.			1.5	
	<u></u>	english (GE) (Ale			The Arthur September 1997
S-34	16, ditto	Gyote st, housings	2	40-50	ditto
	18, ditto			10.10	
					
S-37	14, Timir. St.	Timinuaras et bassins	2 2	40.50	
S-38	16, ditto	Timiryazev st. housings	2	40-50	ditto
	1	Water tower		30s	supplied water to locomotives too
		No.37 Secondary school	2	50s	typical school style during the great
S-41	19,Pervomaiskaya st		2	50s	time of railway workers

Table A.6.1 (2) List of proposed cultural property for preservation

Biebitshilik Street Precinct (B)

no.	location	name	stories	date	remarks
B-1	25, Beibitshilik St.	Printing Company	4	60s	Soviet Industrial-Functional Style, 70'add wall paintings
B-2	24, Beibitshilik st.	housing	5		
B-3	26, Beibitshilik st.	housing	5	62-64	Moscow PC panel, wall is thicker
B-4	28, Beibitshilik st.	housing	. 5	02-04	(35-40cm)
B-5	30, Beibitshilik st.	housing	5		
B-6	29, Beibitshilik st.	housing	5		Leningrad PC panel, wall is thinner
B-7	31, Beibitshilik st.	housing	5	62-64	with insulation. Steel joints are
B-8	33, Beibitshilik st.	housing	5	02-04	welded (rust problems)
B-9	35, Beibitshilik st.	housing	5		
	37, Beibitshilik st.	Ministry of Energy	5	60s	Khrushchev Style
B-11	39, Beibitshilik st.	Polytech College	4	60-61	Stalin Style
B-12	40, Beibitshilik st.	housing	5	,	Lenongrad PC panel with ceramic
B-13	42, Beibitshilik st.	housing	5	62-64	tiled surface and insulation inside
B-14	44, Beibitshilik st.	housing	5		thed surface and moderation mode
B-15	49, Beibitshilik st.	Medical Academy	5		Typical school design from Moscow
B-16	51, Beibitshilik st.	Medical Academy	5	63-64	(there are many in USSR)
B-17	53, Beibitshilik st.	Medical Academy	55		and the control of th
B-18	59, Beibitshilik st.	Automobile tech school	4	60-61	Capitol ornament by gypsum, which Khrushchev prohibited by decree
B-19	73, Beibitshilik st.	Agricultural University	3	50s	Stalin Façade has ornament
B-20	64, Beibitshilik st.	"MOSKVA" shop	2	1963	"Constructive Functional" style
B-21	114, Poveda	Hospital for railway worke	3	50s	Stalin Style
B-22	Agricultural Univ.	Student Club	2	1949	Façade ornament, w/pink wall

Kenesary Street Precinct (K)

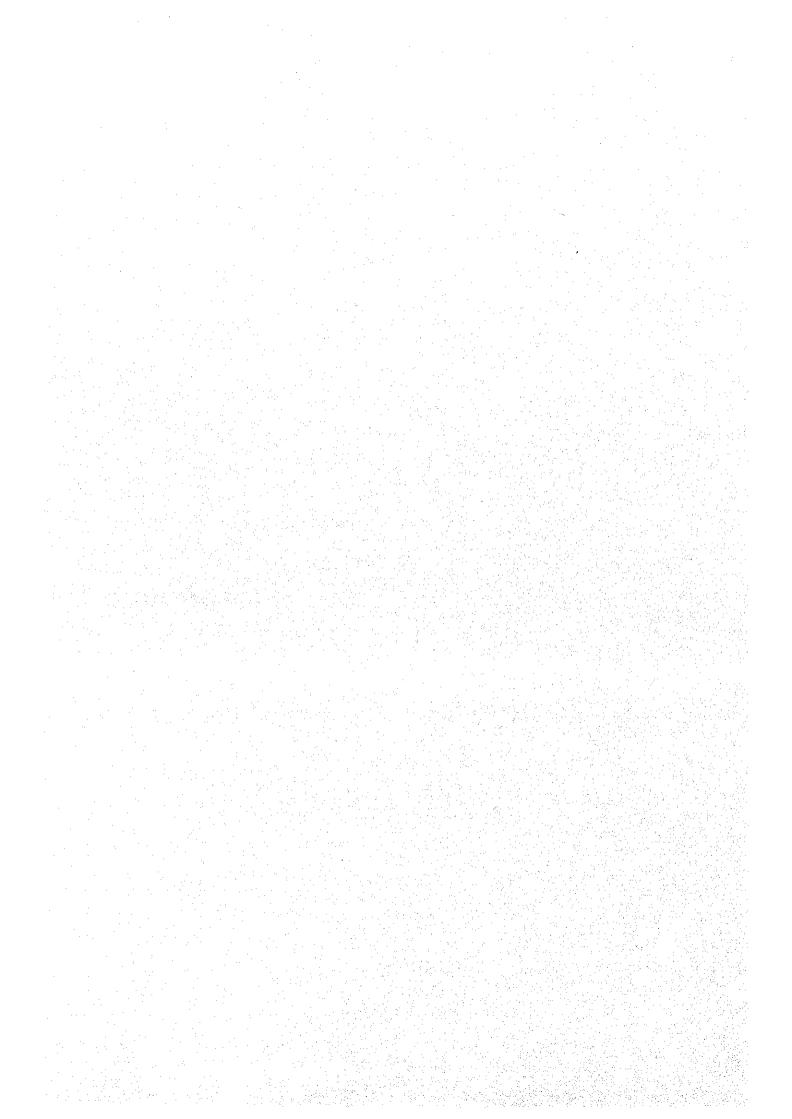
no.	location	name	stories	date	remarks
K-1	1, Beibitshilik	housing/shop	4	50s	
K-2	5, Beibitshilik	housing/shop	3	50s	
K-3	151, Kenesary	Wooden house	1	19C	merchant house, logs came from
K-4	31, ditto	Wooden house	: 1	19C	Siberia
K-5	68, ditto	housing/shop	3	50s	
K-6	70, ditto	Water tower	(5+)	30s	supplied water for locomotives too
K-7	72, ditto	shop/house	3	50s	
K-8	74, ditto	shop/house	4	50s	·
K-9	76, ditto	Gov. office	2	50s	
K-10	78, ditto	housing	3	50s	
K-11	80, ditto	housing	3 .	50s	
K-12	30, Pobeda st.	shop/house	2	50s	. •
K-13	93, ditto	Gov. office	3	50s	
K-14	95, ditto	housing	3	50s	
	97, ditto	Gov. office	3	50s	
K-16	99, ditto	Gov. office	2	50s	
K-17	20, Pobeda st.				
	22, Pobeda st.				for railway high ranked workers
K-19	24, Pobeda st.	Ilanaina	2	50s	housing, #230 type designed by
K-20	26, Pobeda st.	- Housing	1 4	308	Moscow arch.Mayrson
K-21	32, Pobeda st.				MOSCOW arcit.iviayison
	27, Pobeda st.				

Table A.6.1 (3) List of proposed cultural property for preservation

OTHERS (O)

no.	location	name	stories	date	remarks
O-1	over ISHIM	Bridge to the Central Park	-	60s	Wooden bridge was collapsed due to heavy passenger traffic and was newly build by reinforced concrete
O-2	Central Park	Central Alley	-	late 19C	about 300m length 10m wide
O-3	Old Fortress area	Uzkaya street	-	1830s	about 150m length 7m wide
O-4	Central Park	Old Poplar Tree	-	early 20C	about 100 years old, near Boat house,
O-5	behind Telekom	Kirov's house	1	20s	Kirov, no.2 after Stalin stayed in 30s
O-6	49, Abai st.	Min. of Transport	3	30s	former Karaganda Railway Dep.
O-7	83, Abai st.	Wali Fence		20s	Tatar's "Green Mosk"'s Wall Fence. The mosk was burned down in20s
O-8	84, Abai st.	Hausina	3	1954	Built by Japanese prosoners of the war. Works and details are valued as
O-9	86, Abai st.	Housing	3	1934	high-grade
O-10	19, Pushkin st.	"Tselinselmash" Plant	2	50s	Stalin style

FIGURE



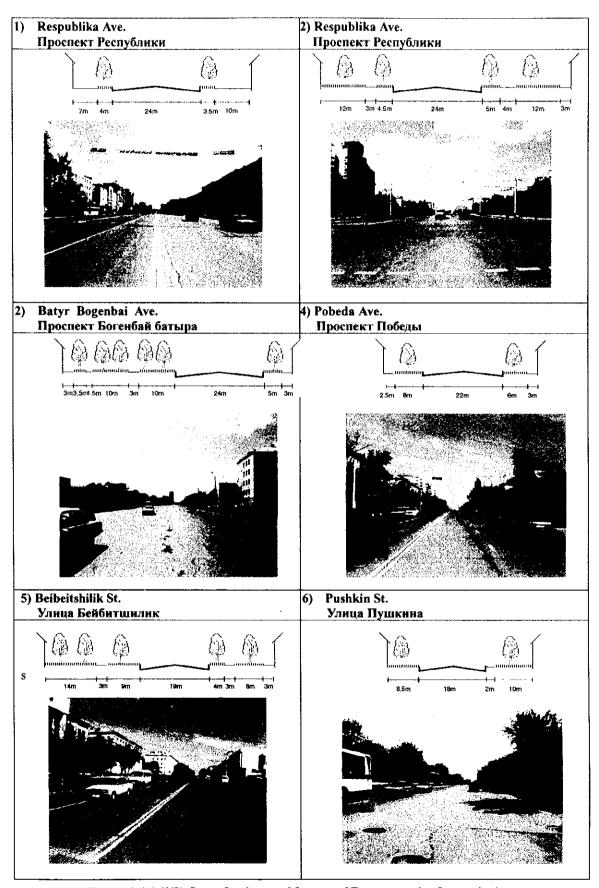


Figure A.1.1 (1/3) Cross-Sections and Images of Representative Streets in Astana Рисунок А.1.1 (1/3) Внешний вид и поперечное сечение главных улиц г. Астаны

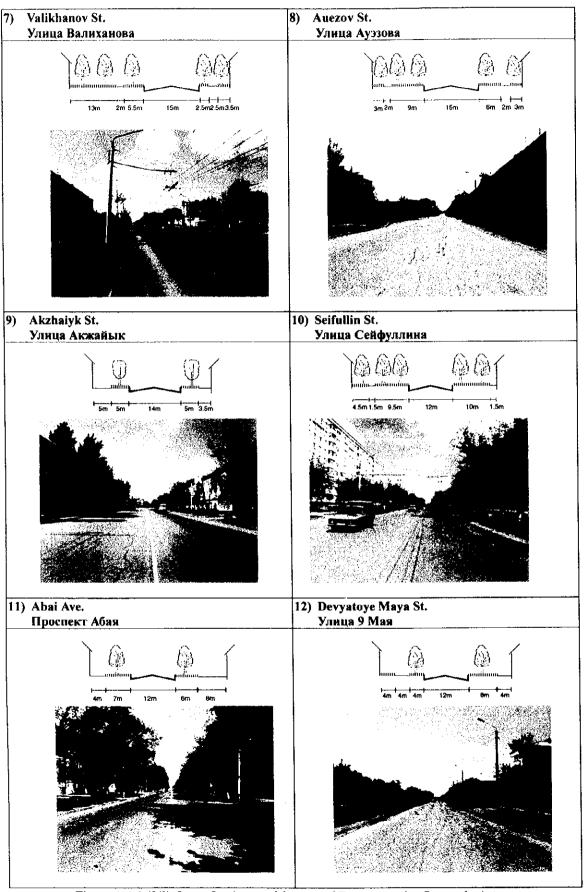


Figure A.1.1 (2/3) Cross-Sections and Images of Representative Streets in Astana Рисунок A.1.1 (2/3) Внешний вид и поперечное сечение главных улиц г. Астаны

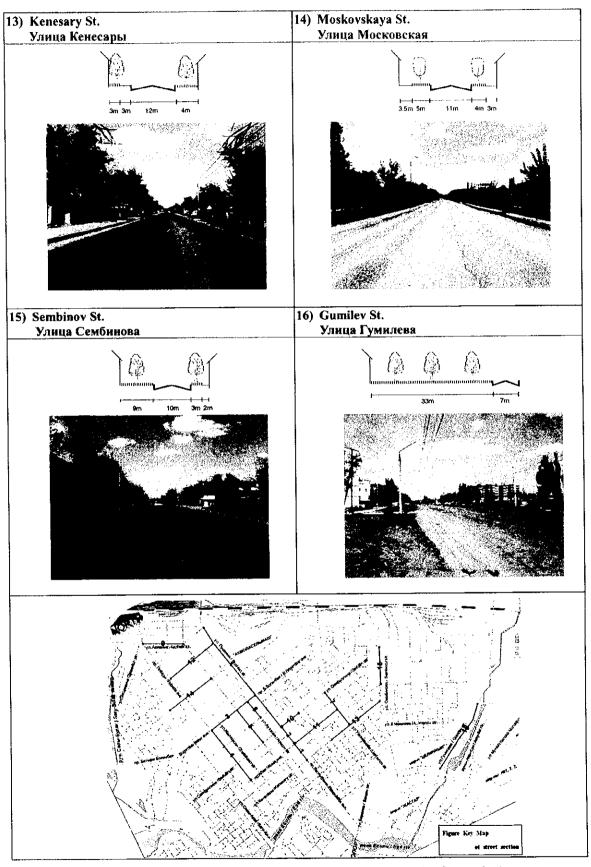
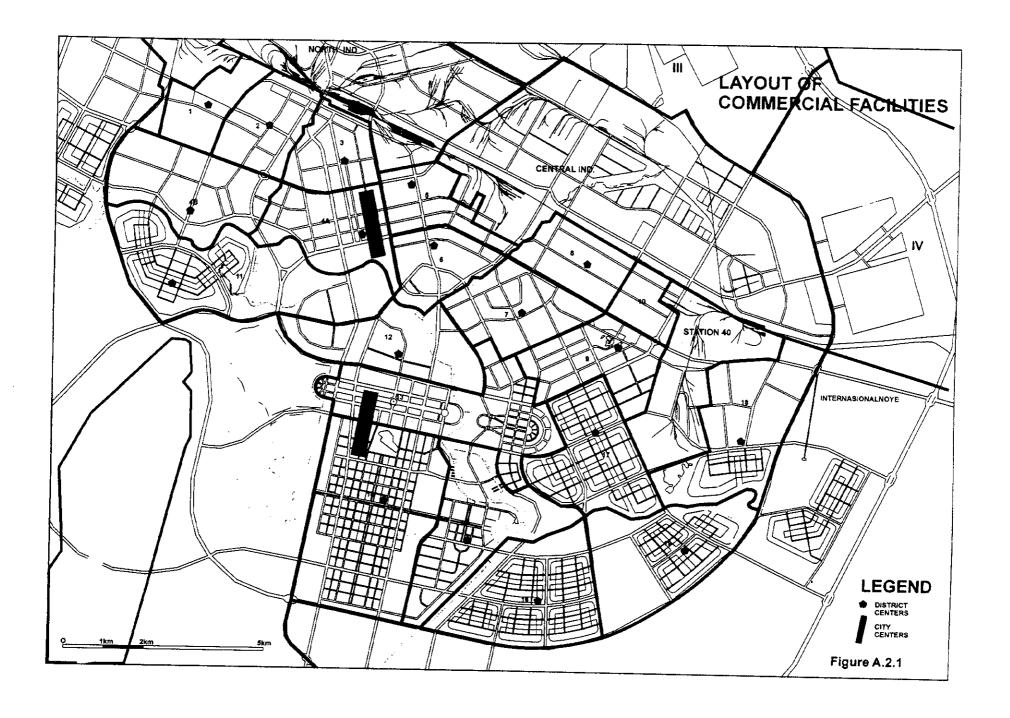
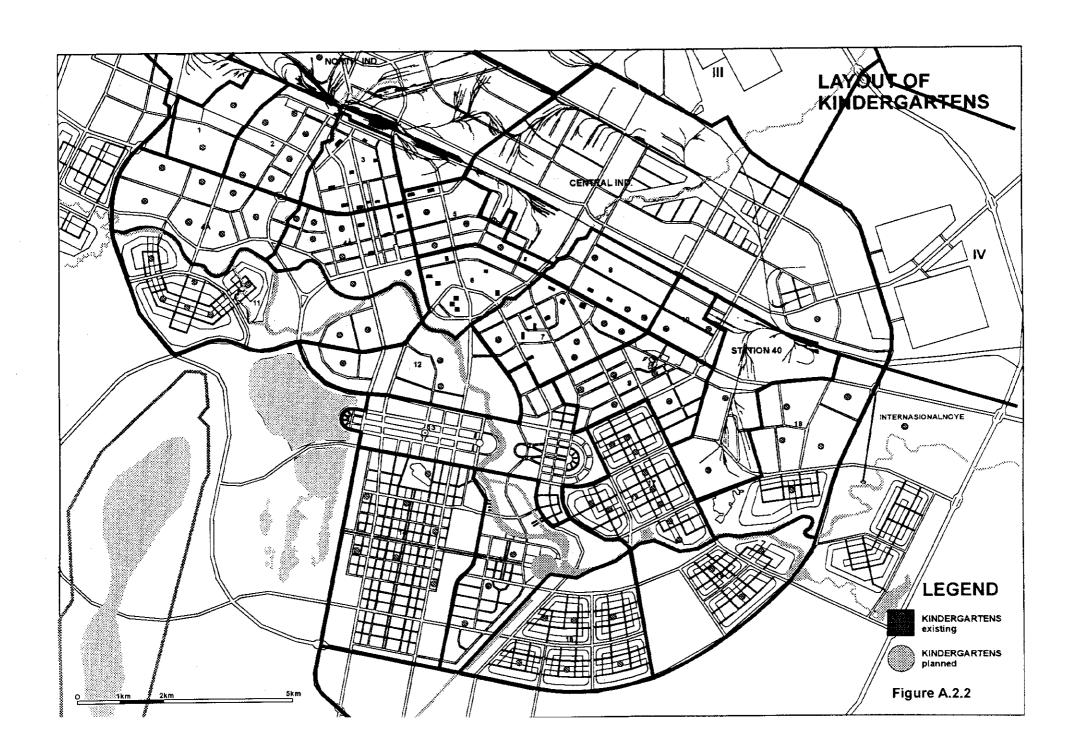
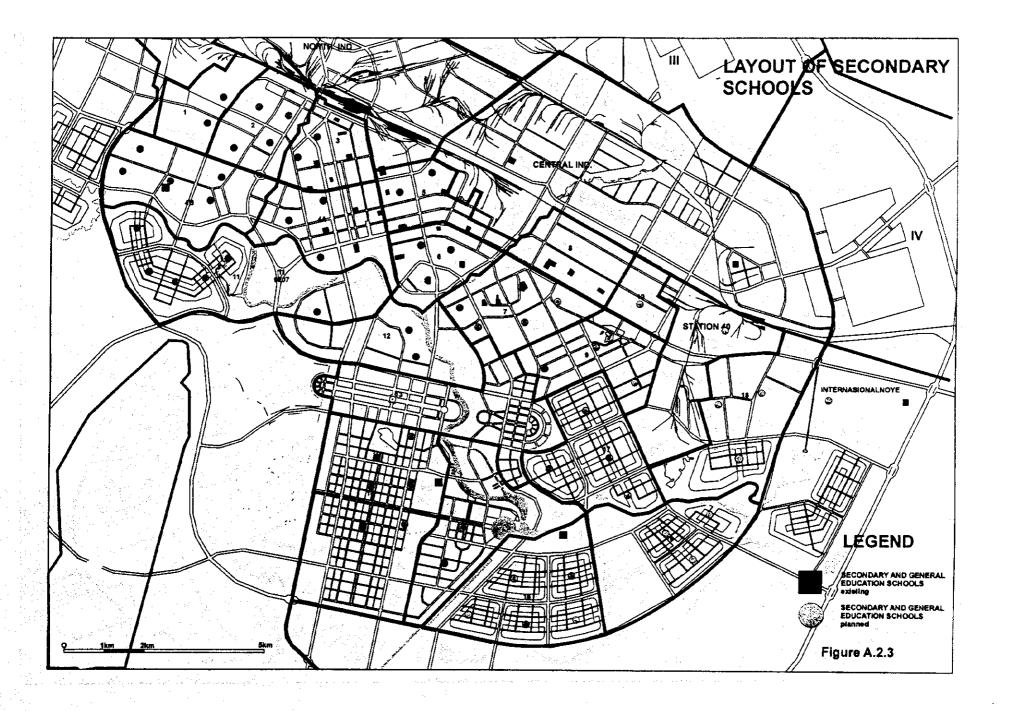
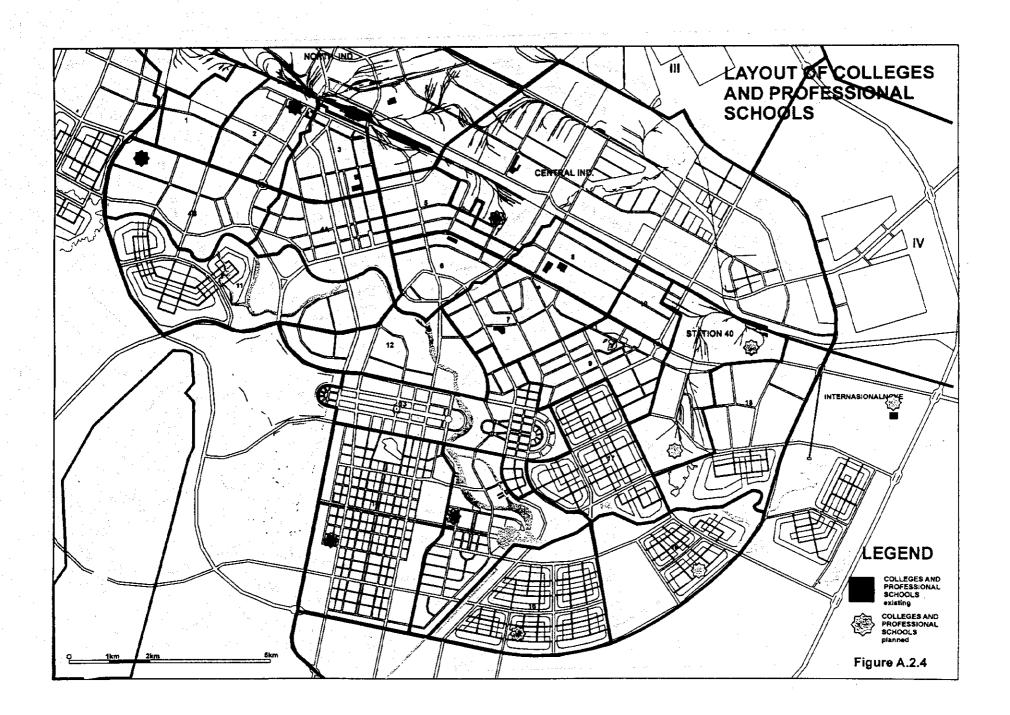


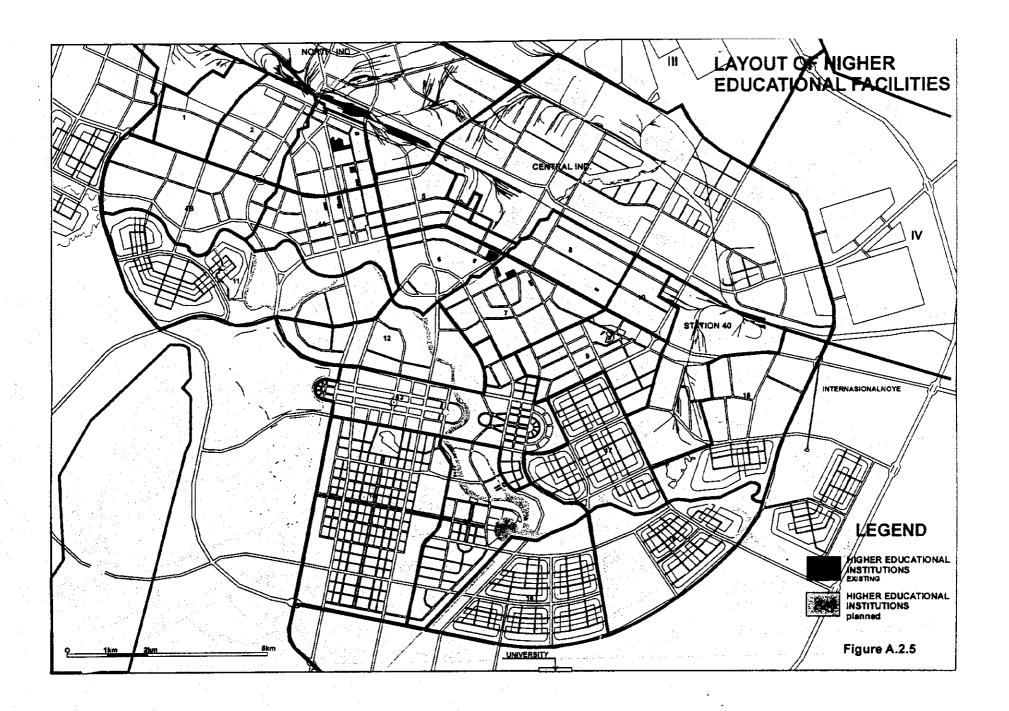
Figure A.1.1 (3/3) Cross-Sections and Images of Representative Streets in Astana Рисунок A.1.1 (2/3) Внешний вид и поперечное сечение главных улиц г. Астаны

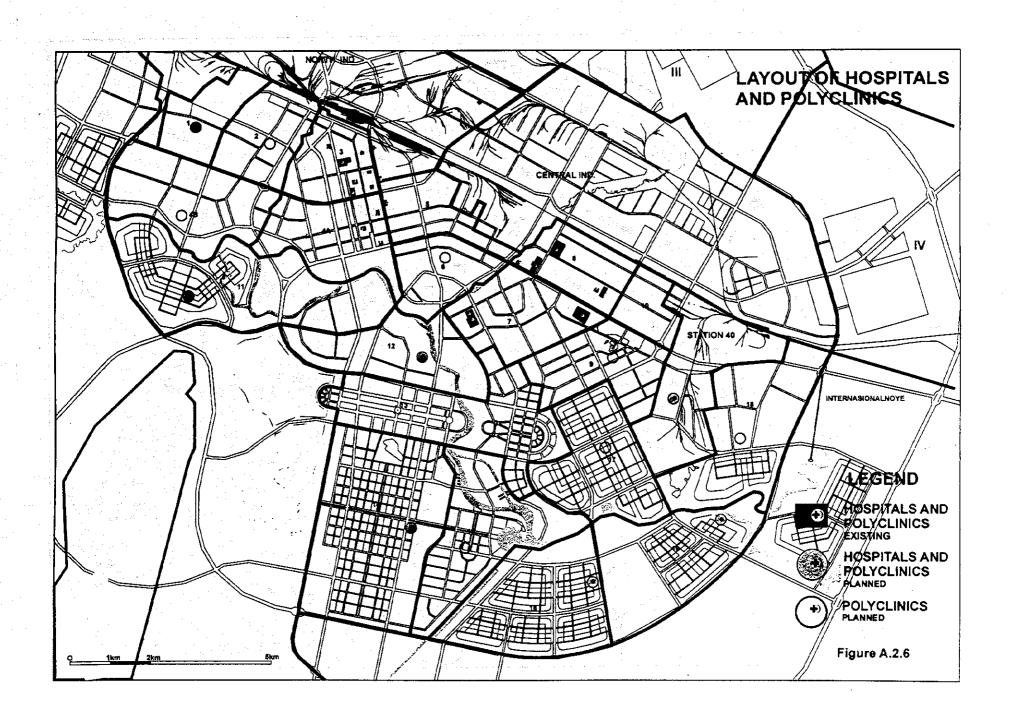


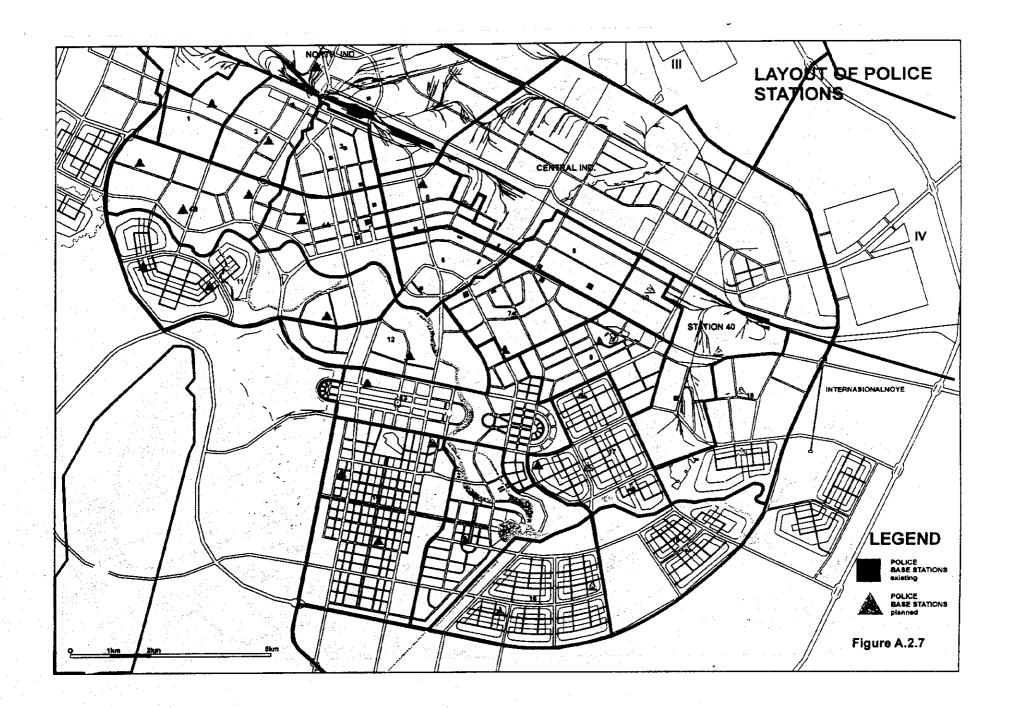












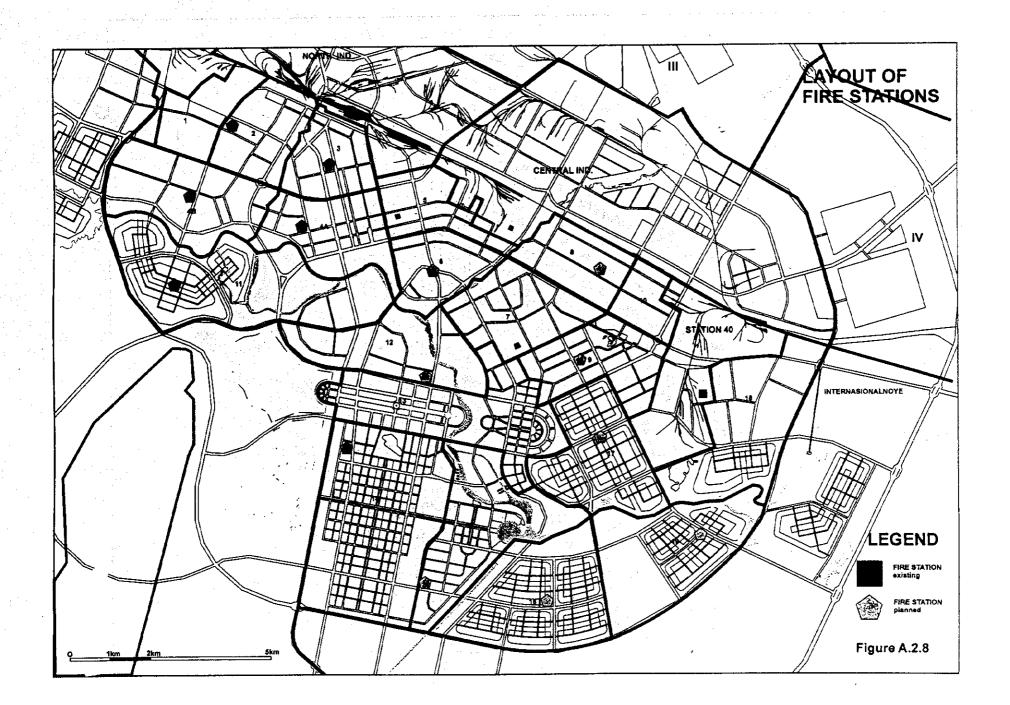


Figure A.3.1 Area Expansion Plan A (Kurokawa, 1998) (Plan A)

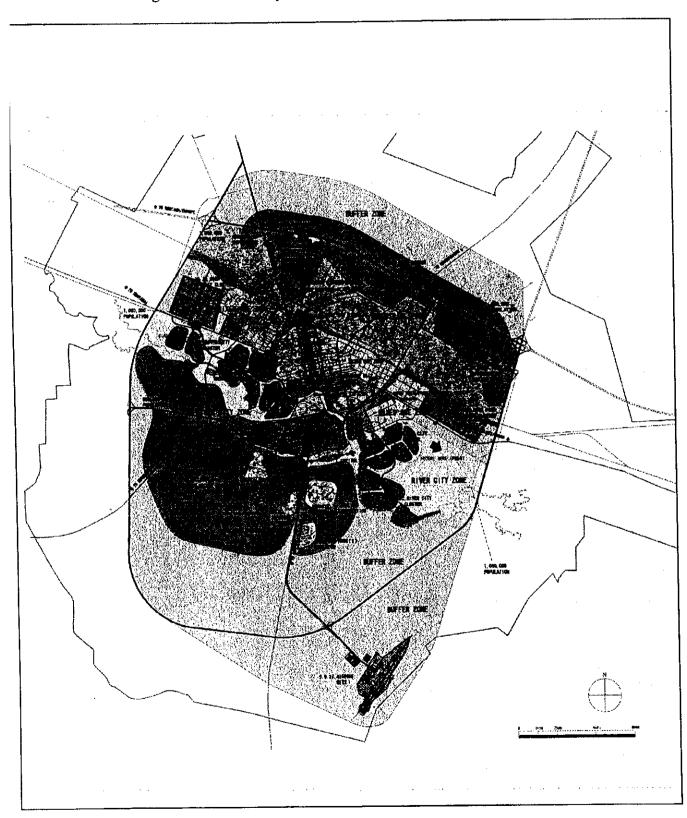


Figure A.3.2 Area Expansion Plan B (Saudi Binladen, 2000) (Plan B)

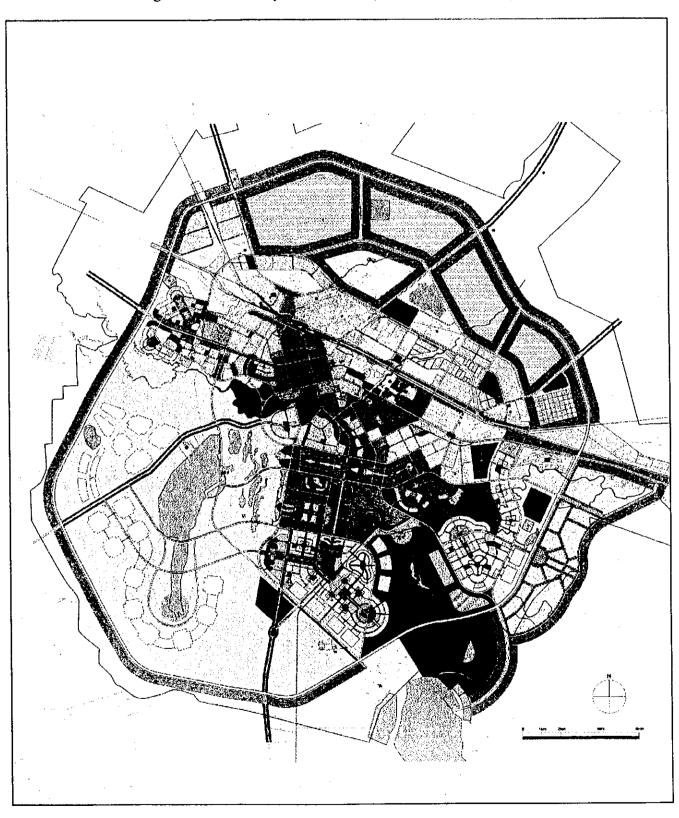
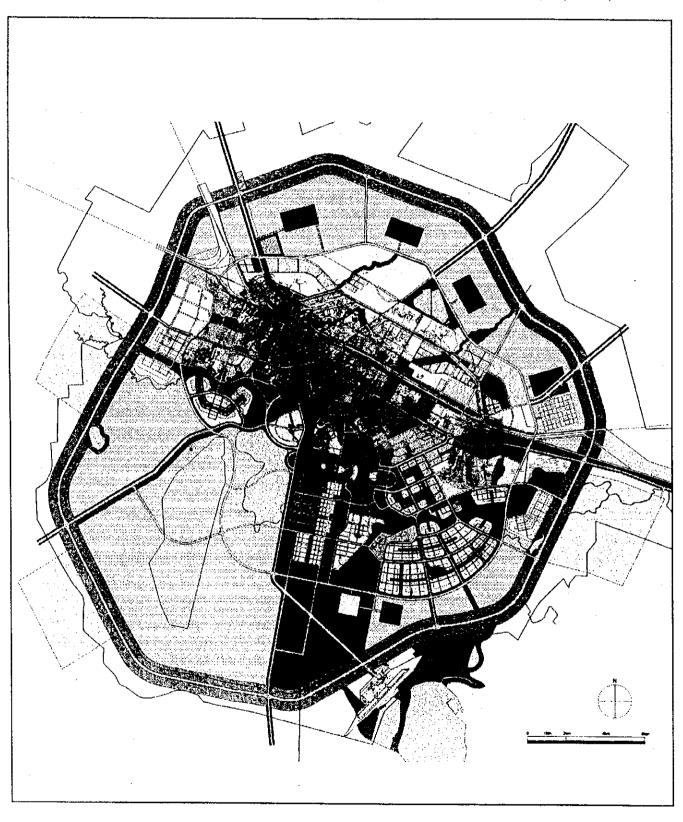


Figure A.3.3 Area Expansion Plan C (Present Maser Plan, 2000) (Plan C)



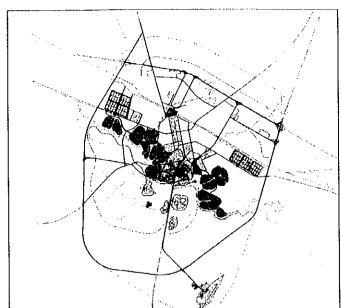
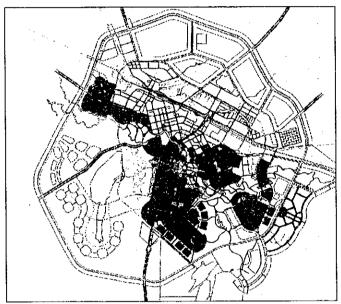
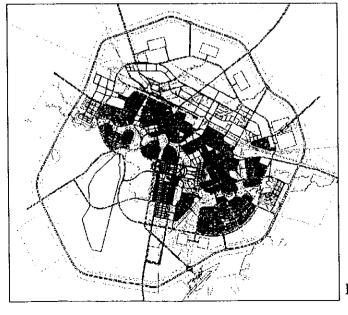


Figure A.3.4 Comparison of Residential District

Plan A



Plan B



Plan C

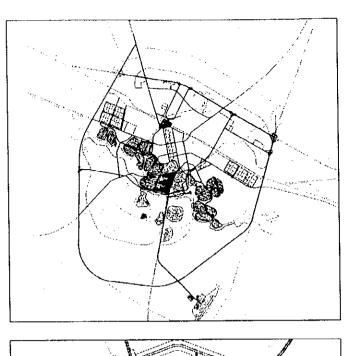
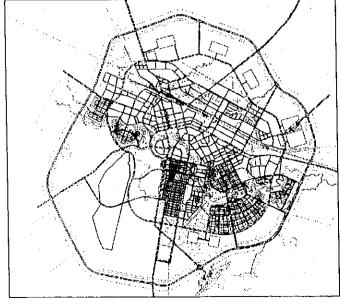


Figure A.3.5 Comparison of Central Business District

Plan A



Plan B



Plan C

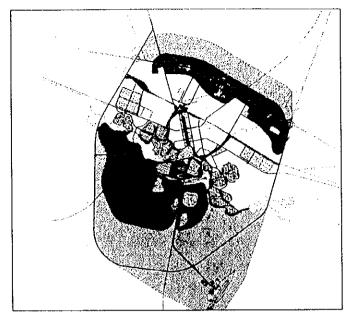
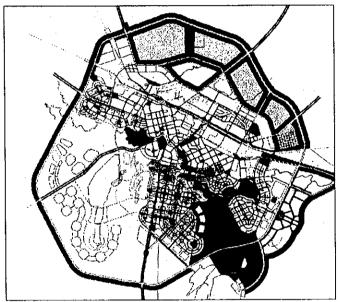
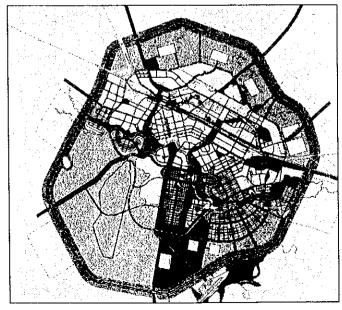


Figure A.3.6 Comparison of Green Areas

Plan A



Plan B



Plan C

