

ORDINANCE 2888

AN ORDINANCE OF THE CITY OF KIRKLAND AMENDING AND SUPPLEMENTING THE KIRKLAND SANITARY SEWER COMPREHENSIVE PLAN ADOPTED BY ORDINANCE 2796 (CHAPTER 15.44 KIRKLAND MUNICIPAL CODE).

Whereas, the Kirkland Department of Public Works has recommended an amendment to the City of Kirkland East Planning Area Comprehensive Sewer Plan, as heretofore adopted by Section 15.44.020 of the Kirkland Municipal Code; and

Whereas, following proper notice of hearing thereon, the City Council for the City of Kirkland held a public hearing on said proposed amendment and supplement to the Kirkland sanitary sewer comprehensive plan at its regular meeting on August 5, 1985; and

Whereas, an environmental checklist was submitted on the recommended sanitary sewer comprehensive plan amendment; the responsible official evaluated this proposal and issued a declaration of non-significance; and this environmental information accompanied the proposal and recommendation during its consideration by the City Council, now, therefore,

Be it ordained by City Council of the City of Kirkland as follows:

Section 1. The comprehensive sanitary sewer plan heretofore adopted for the Kirkland sanitary sewer service area by Chapter 15.44 of the Kirkland Municipal Code is hereby amended and supplemented as set forth in Exhibit A attached hereto, and by this reference incorporated herein. Exhibit A dated July, 1985 was prepared, published and recommended by the Kirkland Department of Public Works.

Section 2. A copy of this ordinance, including Exhibit A shall be recorded in the office of the Director of Administration and Finance and copies shall be filed in the following City departments for the use of the general public and the affected departments of the City: Department of Public Works, Building Department, Department of Planning and Community Development. Copies shall also be filed with those departments or agencies of King County as may be required by either Chapter 13.24 of the King County Code or King County Ordinance 2638.

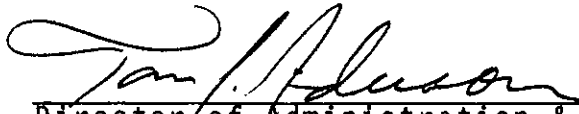
Section 3. This ordinance, including Exhibit A attached hereto shall be in force and effect five days from and after the date of passage of this ordinance and publication as required by law.

Passed by majority vote of the Kirkland City Council in regular, open meeting this 5th day of August, 1985.

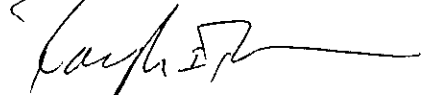
Signed in authentication thereof this 5th day of August, 1985.


MAYOR

ATTEST:


Director of Administration & Finance
(ex officio City Clerk)

APPROVED AS TO FORM:


City Attorney

CITY OF KIRKLAND
EAST PLANNING AREA
COMPREHENSIVE
SEWER PLAN

February 1984
City of Kirkland
Department of Public Works
Larry Larse, Director
Amended July 1985

AMENDMENT TO CITY OF KIRKLAND
EAST PLANNING AREA COMPREHENSIVE SEWER PLAN

On March 19, 1984 the City of Kirkland by Ordinance No. 2796 adopted a comprehensive sewer plan for those areas in the Kirkland East Planning Area, bordered on the north by N.E. 94th Street, on the east by 132nd Avenue N.E., on the south by N.E. 40th and on the west by I-405.

On July 24, 1984 Water District 81 by Resolution No. 494 adopted a comprehensive sanitary sewer plan for the area generally north of the City of Kirkland plan. Water District 81's plan was adopted in contemplation of the impending turnover of the Trend Sewer Area by King County to Water District 81. The comprehensive plan would provide a guide for the future total development of the service area.

Within the City of Kirkland and Water District 81's comprehensive plan there was an overlap area which either jurisdiction could serve. This overlap area is in the vicinity of N.E. 90th Street. An agreement was entered into between the City of Kirkland and Water District 81 that provided for either agency serving this area and simply stated that when service was desired the agency that had service available would provide

service unless both agencies could provide service, in which case it would be provided by the District.

Overlake Christian Church located on 132nd Avenue N.E. at N.E. 90th Street has been working on an addition to their facilities. The King County Health Department had notified the church that further expansion of their facilities cannot be accomplished while utilizing septic tanks for sewage disposal. Overlake Christian Church requested service from the City of Redmond but was denied by the City Council on August 21, 1984. Overlake Christian Church then contacted Water District 81 concerning providing sewer service but approval of this request by Water District 81 can not be granted until such time as King County divests themselves of the Trend Sewer Area and allows Water District 81 to proceed as a sewage provider.

Overlake Christian Church, not being in a position to proceed with their development, has contacted the City of Kirkland and requested consideration for sewer service along N.E. 90th Street. Such service would entail a gravity sewer system and low head pump station to pump the sewage to the City facilities at N.E. 90th and approximately 126th Avenue N.E.

In order to satisfy this request from Overlake Christian Church for sewer service, the City of Kirkland is amending their comprehensive plan to include N.E. 90th Street from approximately 126th N.E. to 132nd N.E. in order to provide service.

Also, the City of Kirkland is proposing an amendment to the sewer overlap agreement between the City of Kirkland and Water District 81 which will include the amended area within the overlap agreement and allow the City of Kirkland to provide service.

Comprehensive Plan Amendment

The proposed amendment to the Comprehensive Plan includes the additional property along N.E. 90th Street from approximately 126th N.E. to 132nd Avenue N.E. and approximately one-half block north of N.E. 90th Street to N.E. 85th Street on the south. Hydraulic calculations and text within the plan have been amended to show the effect on the sewer system when full development within the amended area occurs.

0095C/206A/LL/rd



Seattle-King County / **DEPARTMENT OF PUBLIC HEALTH**
400 Yesler Way Seattle, Washington 98104 (206) 587-4600

JESSE W. TAPP, M.D., M.P.H.
Director of Public Health

October 17, 1984

Mr. Gary Hirotaka
Overlake Christian Church
9051-132nd Ave. NE
Kirkland, WA 98033

Re: Additions to Overlake Christian Church

Dear Mr. Hirotaka:

This letter is in response to the letter from Mr. Roy Martinez regarding the three phase additions to Overlake Christian Church. The Health Department concurs with Mr. Martinez that public sewer connection will be required to handle the wastewater for the proposed additions.

The Health Department's records show that any further additional drainfield would not be feasible, as the repair to the system done in 1983 used up all the available drainfield reserve area. Therefore, prior to the Health Department recommending approval of the additions, a letter from the sewer district indicating their ability to serve the church will be required.

Should you have questions regarding this matter, please contact Don Wang, of this department, any week day between 8:30 and 9:30 a.m., at 885-1278.

Very truly yours,

William F. Liening

William F. Liening, R.S.
Supervising Sanitarian
East District Service Center
Environmental Health Section

WFL:DW:k1

Attachment

District Service Centers:

CENTRAL
1500 Public Safety Bldg.
Seattle 98104
587-2755

NORTH
10501 Meridian Ave. N.
Seattle 98133
363-4765

COLUMBIA HEALTH CENTER
3722 S. Hudson
Seattle 98118
587-4650

SOUTHWEST
10820 8th Ave. S.W.
Seattle 98146
244-6400

EAST
2424 156th Ave. N.E.
Bellevue 98007
885-1278

SOUTHEAST
Renton
3001 N.E. 4th St.
Renton 98056
228-2820

Environmental Health Services
172 20th Ave.
Seattle 98122
587-4832

Auburn
20 Auburn Ave.
Auburn 98002
852-8400

Overlake Christian Church

Dr. Bob Moorehead
Senior Pastor

June 24, 1985

Larry Larse
Director of Public Works
City of Kirkland
123 Fifth Avenue
Kirkland, Washington 98033

Dear Mr. Larse:

Thank you for meeting with Wayne Goodman, Bob Morgan and me this morning. I am writing this letter to : (1) Inform you of church growth history & needs. (2) Inform you of previous attempts which Overlake Christian Church has made to obtain sewer service and (3) Request sewer service from the City of Kirkland.

- (1) Overlake Christian Church began in 1969 with a few families meeting in a home to approximately 3,500 members meeting in a 97,000 square foot facility. Overlake is a multiservice ministry which is meeting the needs of youth, emotionally disturbed, alcoholics pre-school/grade school children and senior citizens. Additional building and parking space is needed to facilitate these growing ministries, which go far beyond preaching on Sundays. Our present sewer system will not support the additional facilities required.
- (2) Requests for sewer service have been made to Redmond and W.D. #81. The Redmond City Council denied our request on August 21, 1984. W.D. #81 is waiting for K.C. to divest unconditionally ^{THEIR} interest within W.D. #81's jurisdiction.
- (3) We are requesting that at your next possible opportunity you will recommend modification of the sewer service area overlap (attached) to include Overlake Christian Church.

If you have questions regarding this letter, please contact me.

Yours truly,

Gary Hirotake

Gary Hirotake
Operations Administrator

cc: Wayne Goodman
Bill Skaham

CITY OF  KIRKLAND

123 FIFTH AVENUE · KIRKLAND, WASHINGTON 98033-8189 · (206) 828-1100

July 23, 1985

Mr. Bill Skahan
Manager
Water District No. 81
P.O. Box 539
Kirkland, WA 98033

Subject: Overlake Christian Church Sewer Service

Dear Bill:

About a month ago, Gary Hirotaka of Overlake Christian Church contacted the City concerning sewer service to the church property. Apparently they cannot move ahead on a needed expansion project until this issue is resolved. To date they have been turned down by Redmond and are not able to move forward with Water District No. 81 until King County divests and puts you into the sewer business. Thus, they contacted Kirkland.

The City of Kirkland is willing to work with Overlake Christian Church, but first Kirkland must modify its Comprehensive Sewer Plan and we both must agree to modify the sewer service agreement covering overlaps in our respective service areas.

I am proposing to the City Council an amendment to the sewer plan. A public hearing will be held concerning this subject on August 5th. If the amendment is adopted we will have to modify the service area agreement and submit the documents to King County for approval. This then will allow the City to work with Overlake Christian concerning the necessary sewer extension.

Attached is the proposed amendment to the sewer plan together with the request from Overlake Christian Church. If you have any questions or comments, please call me.

Sincerely,



Larry J. Larse, Director
Department of Public Works

pj
c: G. Hirataka, Overlake Christian Church
enclosures



NOTICE OF PUBLIC HEARING

Notice of public hearing before the Kirkland City Council in the Kirkland City Council Chambers, City Hall.

Date of Hearing: August 5, 1985

Time: 8:00 p.m.

Nature of Hearing: The Kirkland City Council will hold a public hearing for the purpose of receiving written and oral public comment on the East Planning Area Comprehensive Sewer Plan Amendments. Any person affected by this matter may appear and be heard. Additional information may be obtained at the Kirkland City Hall. By order of the Kirkland City Council in regular meeting on July 15, 1985.

Date of Publication: July 22, 1985

Janice J. Perry

 Janice J. Perry
 Deputy City Clerk
 City of Kirkland

377.000.535.80.430.009

REC. JA

DATE

Julia E. Tolson

 7-18-85

RCW 197-11-970 Determination of nonsignificance (DNS).

DETERMINATION OF NONSIGNIFICANCE

Description of proposal AMENDMENT to the East Planning Area, Comprehensive Sewer Plan for the City of Kirkland

Proponent City of Kirkland

Location of proposal, including street address, if any Extending the area covered by the plan to include N.E. 90th St., from 120th Ave. N.E. to 132nd Ave. N.E.

Lead agency City of Kirkland

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

There is no comment period for this DNS.

This DNS is issued under 197-11-340(2); the lead agency will not act on this proposal for 15 days from the date below. Comments must be submitted by _____.

Responsible official Joseph W. Tovar

Position/title Director, Planning and Community Development Phone 828-1262

Address City of Kirkland, 123 5th Avenue, Kirkland, Washington 98033

Date 7/12/85 Signature 

You may appeal this determination to (name) Nancy L. Carlson
at (location) Kirkland City Hall, 123 5th Avenue, Kirkland 98033.
no later than (date) 7/19/85
by (method) WRITTEN NOTICE OF APPEAL

You should be prepared to make specific factual objections.
Contact Nancy Carlson to read or ask about the procedures for SEPA appeals.

Distribute to "Checked" Agencies on Reverse side of this form along with a copy of the Checklist.

Publish in the Daily Journal American, Date: _____

ORDINANCE _____

AN ORDINANCE OF THE CITY OF KIRKLAND AMENDING AND SUPPLEMENTING THE KIRKLAND SANITARY SEWER COMPREHENSIVE PLAN ADOPTED BY ORDINANCE 2796 (CHAPTER 15.44 KIRKLAND MUNICIPAL CODE).

Whereas, the Kirkland Department of Public Works has recommended an amendment to the City of Kirkland East Planning Area Comprehensive Sewer Plan, as heretofore adopted by Section 15.44.020 of the Kirkland Municipal Code; and

Whereas, following proper notice of hearing thereon, the City Council for the City of Kirkland held a public hearing on said proposed amendment and supplement to the Kirkland sanitary sewer comprehensive plan at its regular meeting on August 5, 1985; and

Whereas, an environmental checklist was submitted on the recommended sanitary sewer comprehensive plan amendment; the responsible official evaluated this proposal and issued a declaration of non-significance; and this environmental information accompanied the proposal and recommendation during its consideration by the City Council, now, therefore,

Be it ordained by City Council of the City of Kirkland as follows:

Section 1. The comprehensive sanitary sewer plan heretofore adopted for the Kirkland sanitary sewer service area by Chapter 15.44 of the Kirkland Municipal Code is hereby amended and supplemented as set forth in Exhibit A attached hereto, and by this reference incorporated herein. Exhibit A dated _____, 1985 was prepared, published and recommended by the Kirkland Department of Public Works.

Section 2. A copy of this ordinance, including Exhibit A shall be recorded in the office of the Director of Administration and Finance and copies shall be filed in the following City departments for the use of the general public and the affected departments of the City: Department of Public Works, Building Department, Department of Planning and Community Development. Copies shall also be filed with those departments or agencies of King County as may be required by either Chapter 13.24 of the King County Code or King County Ordinance 2638.

Section 3. This ordinance, including Exhibit A attached hereto shall be in force and effect five days from and after the date of passage of this ordinance and publication as required by law.

Passed by majority vote of the Kirkland City Council in regular, open meeting this _____ day of _____, 1985.

Signed in authentication thereof this _____ day of _____, 1985.

MAYOR

ATTEST:

Director of Administration & Finance
(ex officio City Clerk)

APPROVED AS TO FORM:

City Attorney

TABLE OF CONTENTS

Introduction	1
Purpose	1
Objectives	1
Sewer System History	4
Location of Study Area	5
Topography and Drainage Basin Characteristics	5
Land Use	11
Existing Zoning	11
Land Use Relationships to Sewer System Planning	14
Population Projections	14
Sewerage Facilities Design	15
Design of Sewerage Facilities	18
Developer Extension Criteria	21
Conformance with Other Plans	22
Agreement with Adjacent Municipalities	23
Relationship to County Plans, Policies and Land Use Controls	23
Disposal Systems	23
System Evaluation	24
Health Hazard Areas	37
Construction Schedule	37
SEPA Compliance	39
Appendix A - Department of Public Health Letter	
Appendix B - Standard Design and Construction Standards	
Appendix C - Trend Sewer Agreement	
Appendix D - City of Kirkland - County Sewer Franchise	
Appendix E - SEPA Checklist and Declaration of Non-Significance	
<u>Appendix F - City of Kirkland - Water District No. 81 Overlap Agreement</u>	

INTRODUCTION

Pursuant to Chapter 13.24 of the King County Code, the following is a comprehensive sewer plan for the area located east of I-405 and currently planned to be sewerred by the City of Kirkland. Portions of this area are currently sewerred by the City of Kirkland. The total area to be analyzed in this report is bounded approximately on the north by N.E. 94th St., on the east by 132nd Ave. N.E., on the south by N.E. 40th and on the west by I-405. Subsequent to the completion and adoption of this report other areas within the purvue of the City of Kirkland for sewer service may have comprehensive sewer plans developed for them. ~~Princi-~~
~~pally-these-areas-are-north-of-N.E.-90th-St.-{within-King-County~~
~~and-to-N.E.-116th-St.}-and-the-area-west-of-I-405-and-within-the~~
~~boundaries-of-the-City-of-Kirkland.~~

PURPOSE

The purpose of the study is to develop a comprehensive sewerage plan for the East Planning Area of and adjacent to, the City of Kirkland within the sewer franchise area of the City of Kirkland and to meet the current standards of King County Ordinance No. 2638.

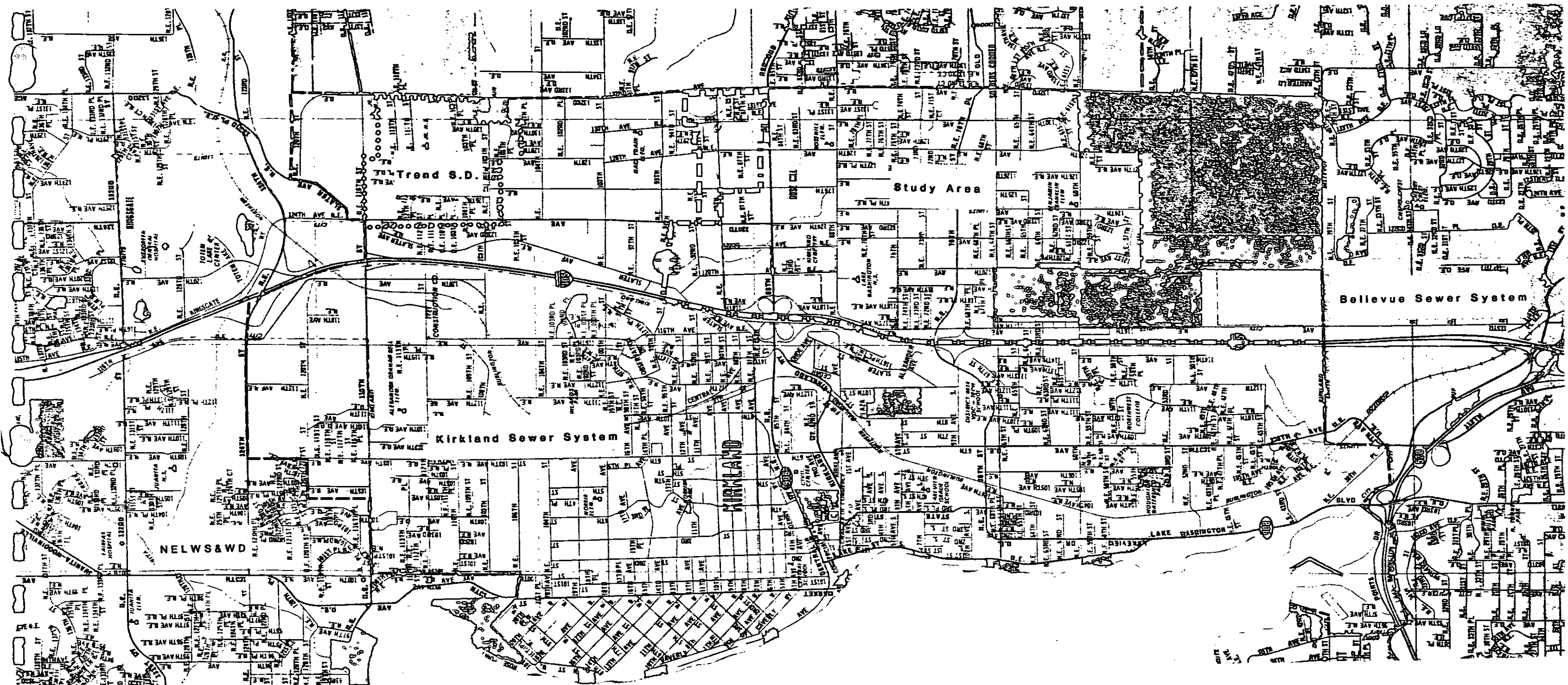
OBJECTIVES

The objectives of this investigation are outlined in King County Ordinance No. 2638, Section 2 as follows: Comprehensive Plans, Sewer Districts. The Sewer District Comprehensive Plan shall consist of the following:

1. A narrative report which provides the following information:

adjacent to N.E. 85th St. and 128th Ave. N.E. further extends this drainage basin to N.E. 85th St. on the north and from 126th Ave. N.E. on the west to approximately 131st on the east.

The recently constructed N.E. 90th St. trunk line which includes a pump station for a force main under I-405 at N.E. 90th St. drains the N.E. 90th St. basin which extends from approximately N.E. 80th St. on the south to N.E. 94th St. on the north and from I-405 on the west to ~~126th Ave.~~ 132nd Avenue N.E. on the east. Flows in this basin are also from the south and the east to the trunk line under N.E. 90th St. Note that the drainage basin due to topography ends at 126th Ave. N.E. ~~and there are no plans at this time to sewer the area north of N.E. 85th St. and east of 126th Ave. N.E.~~ Extension further east along N.E. 90th Street to 132nd Avenue N.E. and serving the area north of N.E. 85th Street will require a pump station to pump westerly along N.E. 90th Street to obtain gravity flow at approximately 126th Avenue N.E.



MAP 2: KIRKLAND & ADJACENT SEWER SYSTEM BOUNDARIES

----- Sewer System Boundaries

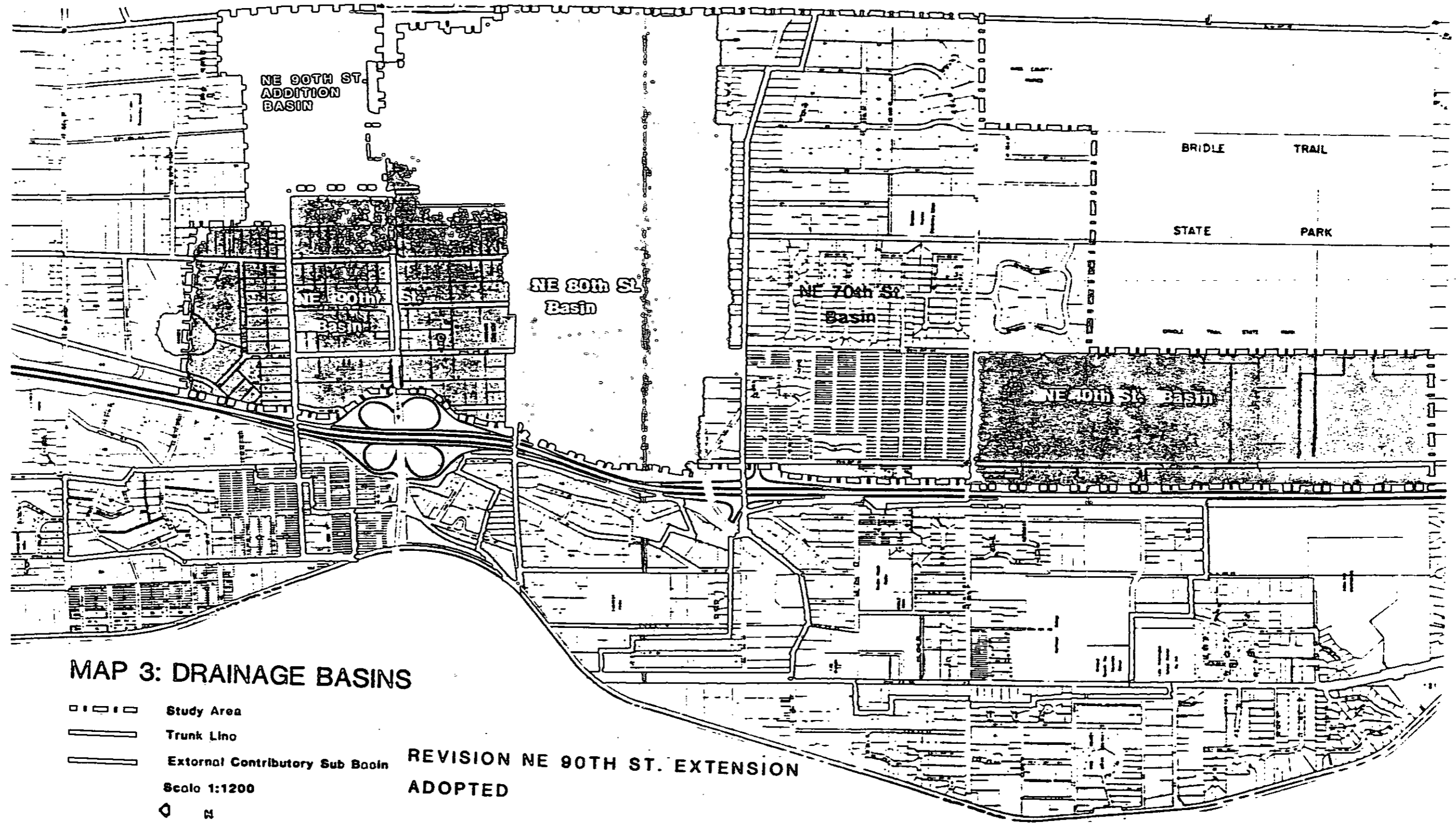
□□□□ Study Area

oooooo Trend Sewer District

Scale 1:4000

△ N

REVISION NE 90TH ST. EXTENSION
ADOPTED

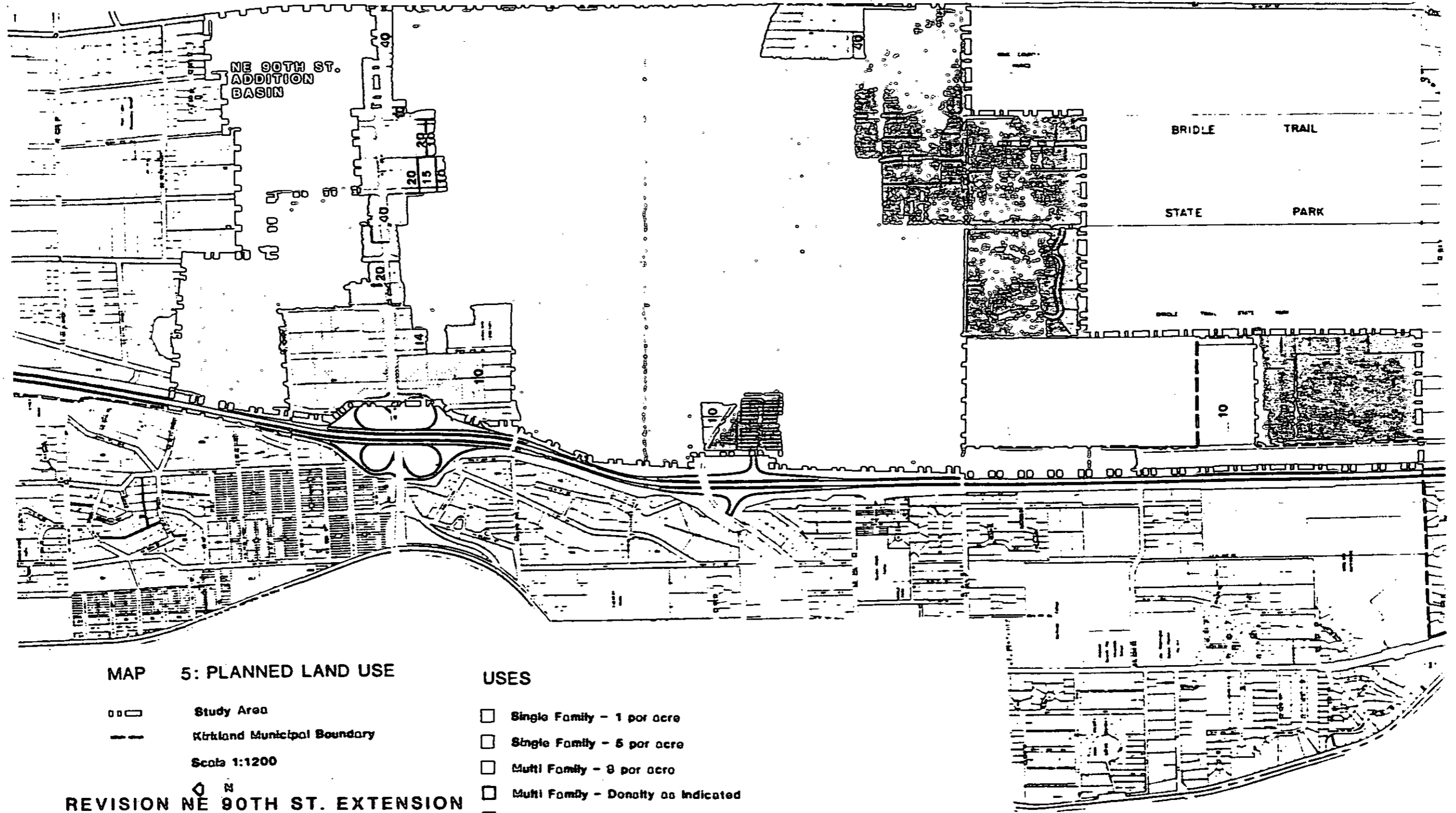




MAP 4: TOPOGRAPHY

REVISION NE 90TH ST. EXTENSION
ADOPTED

- ▣▣▣ Study Area
- Scale 1:24000
- Contours 25 Feet
- ◀ N



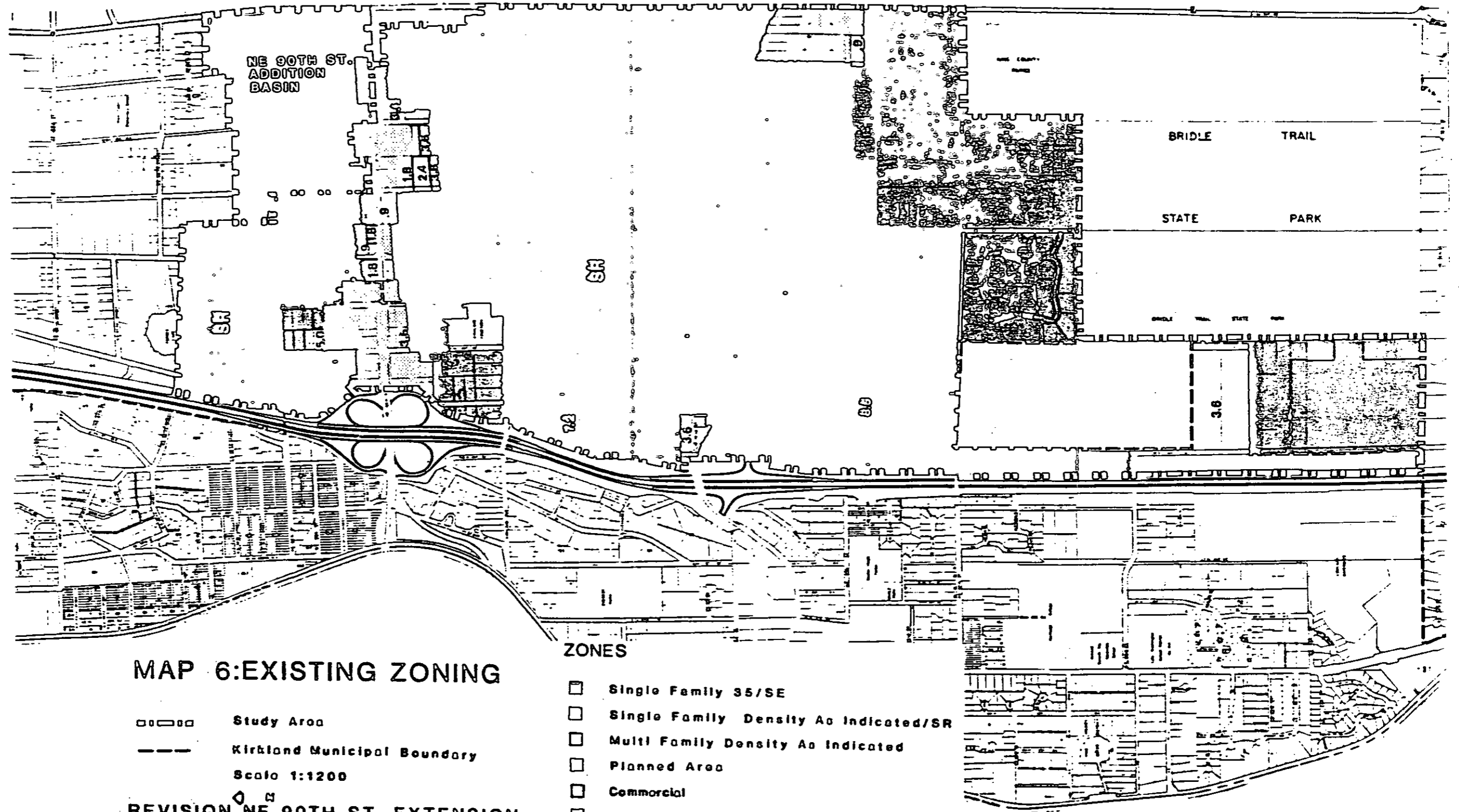
MAP 5: PLANNED LAND USE

- ▭ Study Area
- Kirkland Municipal Boundary
- Scale 1:1200

**REVISION NE 90TH ST. EXTENSION
ADOPTED**

USES

- ▭ Single Family - 1 per acre
- ▭ Single Family - 5 per acre
- ▭ Multi Family - 8 per acre
- ▭ Multi Family - Density as Indicated
- ▭ Commercial
- ▭ Open Space



MAP 6: EXISTING ZONING

□□□□ Study Area
 - - - - Kirkland Municipal Boundary
 Scale 1:1200

REVISION NE 90TH ST. EXTENSION
 ADOPTED

ZONES

- Single Family 35/SE
- Single Family Density As Indicated/SR
- Multi Family Density As Indicated
- Planned Area
- Commercial
- Freeway Commercial
- Open Space

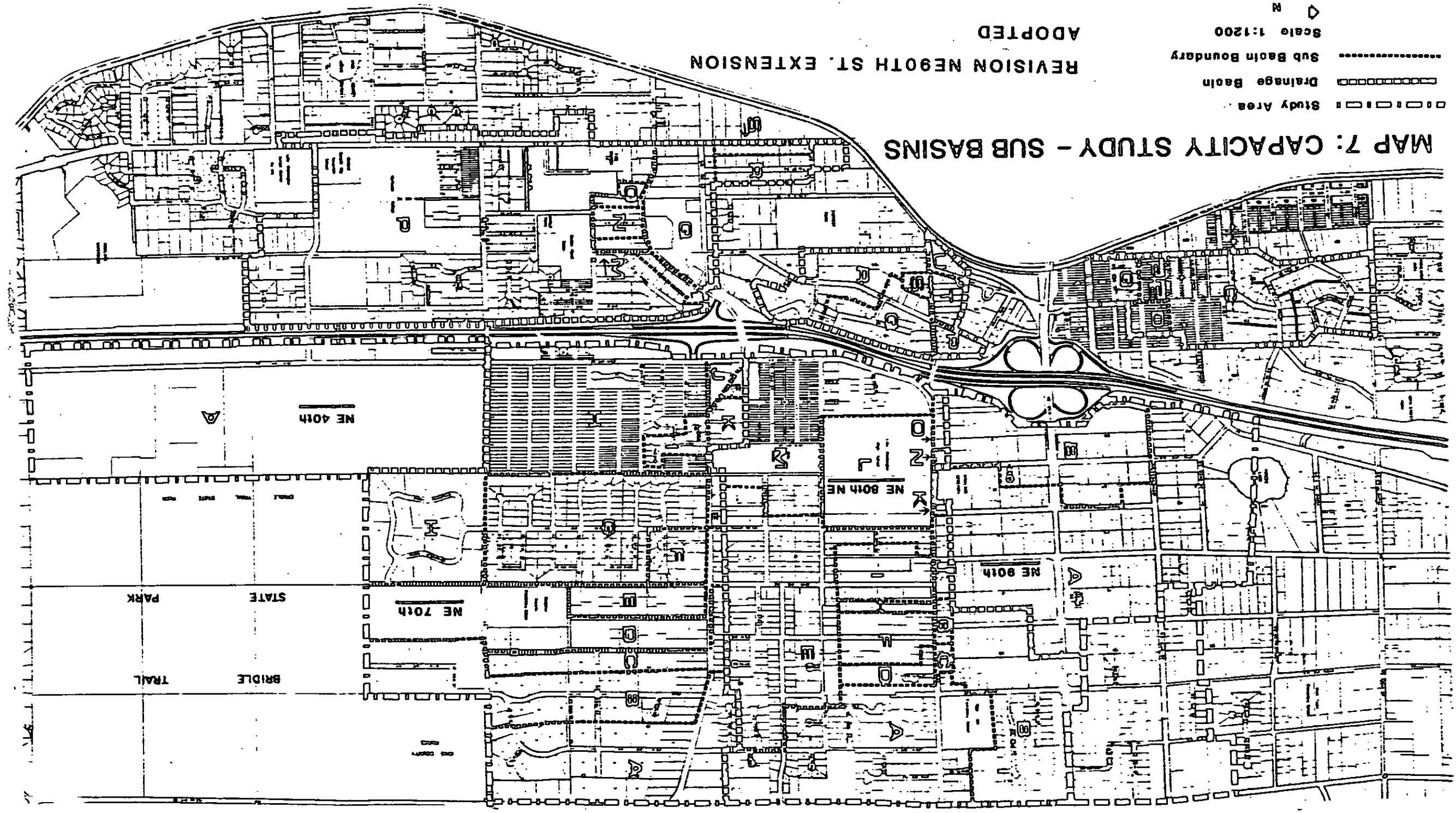
The City of Kirkland has entered into agreements with surrounding jurisdictions concerning sewer service. In a few cases along the southern portion of the City there are agreements with the City of Bellevue whereby the City of Bellevue accepts the sewage from Kirkland and transmits it to the Metro system. Through an agreement of this type, the N.E. 40 St. Basin will be connected to the Bellevue Sewer System, and in this manner sewage from the basin will be transmitted to the METRO Interceptor. Certain parcels in the vicinity of 132nd Ave. N.E. and N.E. 85th may also be served in a similar manner with connections to the Redmond Sewer System located to the east. The City of Kirkland also has an agreement with King County and accepts sewage into the Kirkland system at N.E. 116th St. from a county residential area known as the Trend Sewer Area. Sewage from this area crosses I-405 in a 18 inch gravity line located at approximately N.E. 116th St. King County Water District No. 81's Comprehensive Sewer Plan and the City of Kirkland's plan overlap in the area of N.E. 90th Street. The terms of future service in this overlap area is covered by the agreement in Appendix F. At this time there are no other agreements concerning the City of Kirkland sewer system and there are no existing agreements concerning sewage in the study area of this comprehensive plan.

RELATIONSHIP TO COUNTY PLANS, POLICIES AND LAND USE CONTROLS

This comprehensive facilities plan acknowledges and utilizes county zoning where applicable to the study area and City of Kirkland zoning and land use regulations where the area is contained within the municipal boundaries of the City of Kirkland. There is complete conformance with this plan and with the county zoning and with the City of Kirkland Land Use Policies Plan and Zoning Code.

DISPOSAL SYSTEMS

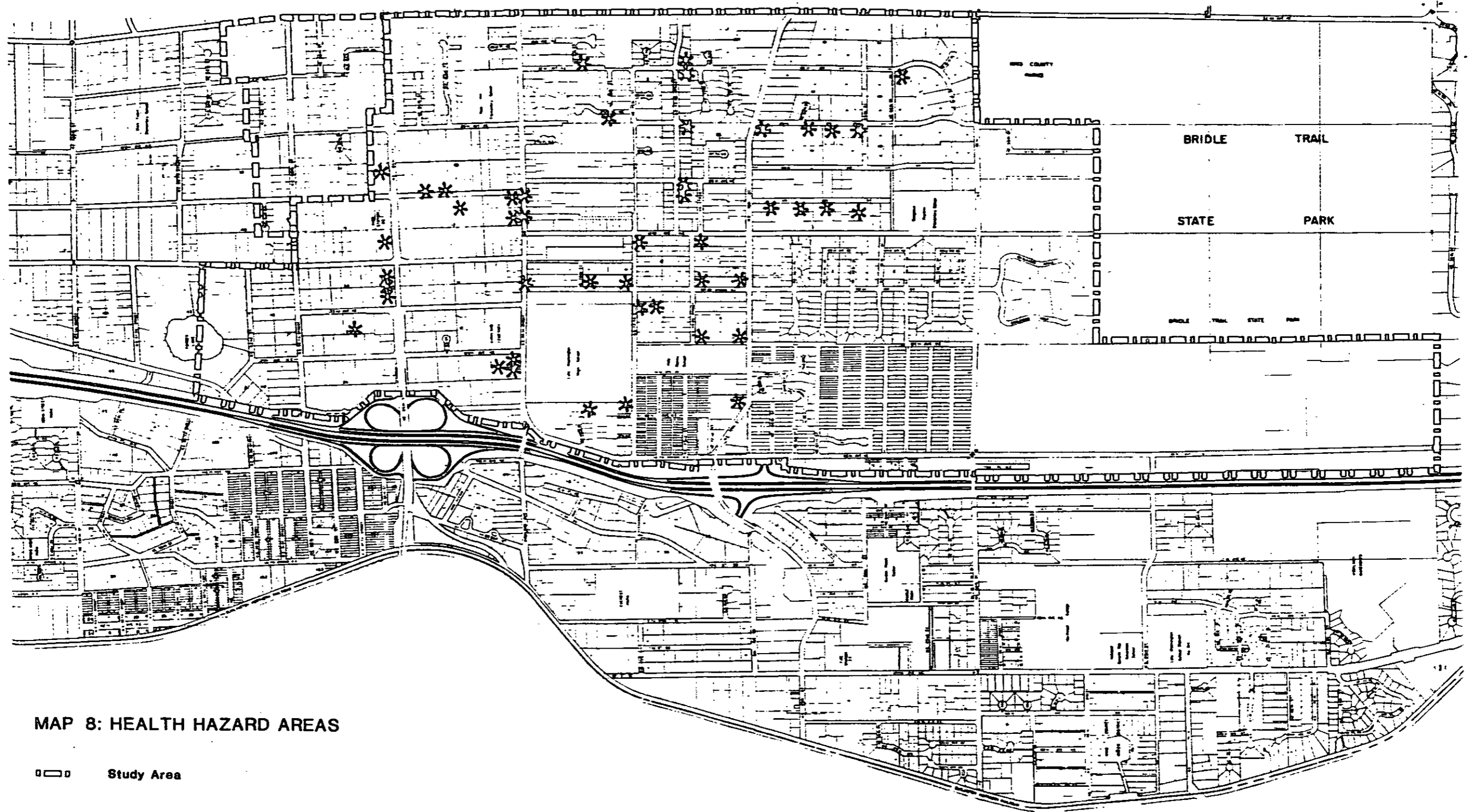
The City of Kirkland does not own, operate or maintain a sanitary sewer disposal facility. All of the disposal system which was previously described has been de-commissioned and all



MAP 7: CAPACITY STUDY - SUB BASINS

REVISION NE90TH ST. EXTENSION
ADOPTED

▽ N
 Scale 1:1200
 ----- Sub Basin Boundary
 - - - - - Drainage Basin
 □ □ □ □ Study Area



MAP 8: HEALTH HAZARD AREAS

- Study Area
- * Septic Failures Reported

Scale 1:1200



**REVISION NE 90TH ST. EXTENSION
ADOPTED**

minute of each segment, the cumulative peak demand in gallons per minute which flows into that segment either from upstream segments or adjacent and connecting sub-basins, and the difference expressed in either excess or deficient capacity between the capacity of the segment and the cumulative peak demand expressed in gallons per minute. Please note that in calculating the capacity of each segment; the Manning Capacity formula was used to calculate the capacity of the segment with the assumption that there was a full flowing condition and a roughness coefficient of $n=0.013$.

In Charts 4, 6, 8 and 10, where there is a deficiency in cumulative peak demand versus the theoretical capacity of the pipe segment, there is the identification of this deficiency by a negative sign next to the gallons per minute difference. In the Construction Schedule which follows this section, each of these identified pipe segments has a proposed remedy.

The N.E. 90th St. Basin and the N.E. 40th St. Basin are the only basins in which trunk line extensions are to be constructed in the future. In the 90th St. Basin an eight-inch line is planned to extend southward from the ten-inch line in N.E. 90th across N.E. 85th and then extend eastward along the south side of N.E. 85th. The ten-inch line in N.E. 90th St. will also be extended eastward as needed possibly to 132nd N.E. with the use of a low-head pump station along N.E. 90th (see Map 8 for planned extensions). Also note that in the future, the Rose Hill Pump Station may be decommissioned when the trunk extensions along N.E. 85th St. (N.E. 90th St. Basin) reaches 128th Avenue N.E. The properties now served by the pump station (all of sub-basin B - N.E. 80th St. Basin) could then gravity into the N.E. 90th St. Basin. This additional 85.4 gallons per minute of sewage could be accommodated by the N.E. 90th St. Basin trunk line given the proposed improvements listed in Chart 11 for the N.E. 90th St. Basin.

CHART 9: N.E. 90TH BASIN SEWAGE PRODUCTION PER SUBBASIN

Basin*	Pop.	Gallons	Acres NR	N.R. Gallons	Total Acres	Infil.	S.W.	Total GPD	GPM	Trunk Segment Drains To
A	2212.6	309764	11.92	95360	157.13	94278	78565	577967	401.37	F
B	170.9	23926	29.12	232960	47.35	28410	23675	308971	214.56	A
C	717.6	100464	-	-	55.23	33138	27615	161217	111.96	K
D	59.8	8372	-	-	4.59	2754	2295	13421	9.32	H
E	23.4	3276	-	-	1.72	1032	860	5168	3.59	I
F	28.6	4004	-	-	2.2	1320	1100	6424	4.46	J
G	84.4	11816	-	-	5.99	3594	2995	18405	12.78	M
H**	135.0	18900	6.64	53120	73.46	44076	36730	152826	106.13	F
								<u>Total</u>	<u>758.04</u>	<u>864.17</u>

*Note:

- Basin = Sewage sub-basin as shown on Map 7.
- Pop. = Sub-basin population.
- Gallons = Gallons of sewage produced by residential population.
- Acres NR = Non-residential acres on which are the uses capable of producing sewage.
- NR Gallons = Gallons of sewage produced by uses located on non-residential acres.
- Total Acres = Total acreage within the sub-basin including roads but exclusive of permanent open space.
- Infil. = Gallons of infiltration for the sub-basin to the sewer line, estimated at 600 gallons per acre.
- S.W. = Storm water introduced to sanitary sewer system within the sub-basin, estimated at 500 gallons per acre.
- Total G.P.D. = The total sub-basin sewage production in gallons per day calculated by the sum of: gallons, NR gallons, infil. and S.W.
- G.P.M. = Gallons per day divided by 1440 to yield gallons per minute.
- Trunk Segment Drains To = The most upstream trunk segment that the sub-basin drainage could logically be introduced into.

6050B/0204A/R0:rd:br
 **Revision/Addition/7/19/85

CHART 10: N.E. 90th BASIN CAPACITY ANALYSIS PER PIPE SEGMENT

<u>Pipe Segment</u>	<u>Diameter</u>	<u>% Slope</u>	<u>Capacity GPM</u>	<u>Scenario Cumulative Peak Demand (GPM)</u>		<u>Scenario Excess/Deficiency (GPM)</u>
A	8"	4.204	1113	214.56		+898.44
B	8"	3.786	1055	214.56		+840.44
C	8"	3.460	1010	214.56		+795.44
D	8"	1.226	601	214.56		+386.44
E	8"	.763	476	214.56		+261.44
F**	10"	.555	732	407.37	507.50	+330.63 +224.50
G	8"FM**	.1	500	615.93	722.05	-115.93 -222.06
H	8"	2.72	893	625.25	731.97	+267.75 +161.03
I	8"	8.15	1548	628.84	734.97	+919.16 +813.03
J	8"	10.63	1768	633.3	739.43	+1134.7 +1028.57
K	8"	4.93	1203	745.26	851.39	+457.74 +351.61
L	8"	.72	462	745.26	851.39	-283.26 -389.39
M	8"	1.63	691	758.04	864.17	-67.04 -173.17
N	8"	2.62	880	758.04	864.17	+127.96 +15.83
Metro	12"	2.7	2626	758.04	864.17	+1867.96 +1761.83

* Separate Trunk Line To Pump Station

+ Revision/Addition

** Force Main Current Pump Capacity = 500 GPM

6058B/0204A/R0:br
Revised 7/19/85

SERVICE AREA AGREEMENT
FOR SEWER SERVICE AREA OVERLAP

The CITY OF KIRKLAND (herein called the "City") and KING COUNTY WATER DISTRICT 81 (herein called the "District") both Washington municipal corporations

Do hereby AGREE as follows:

Whereas, the parties show a sewer service area overlap on their respective planning documents. This area is bounded by approximately Northeast 94th Street and Northeast 90th Street on the north and south, and by Interstate Highway 405 and approximately 126th Avenue N. E., on the west and east (see attached map); and

Whereas, this area of overlap exists to permit the best possible sewer service to be provided to potential sewer service customers within said area;

Therefore, IT IS AGREED between the City and the District:

1. All real property located within the corporate limits of the City of Kirkland will be served by the City sewer system, except as may be otherwise specifically provided in this agreement, or by future written agreement between the City and the District.

2. Once sewer service is provided by either the City or the District to any specific property or customer (including properties or customers connected to such sewer system prior to the effective date of this agreement) such service shall be continued to be provided by said serving agency, unless otherwise thereafter agreed to by separate written agreement.

3. If the District is able to provide sewer service within the subject overlap area at the time when service is requested, the District will provide said service unless the property requesting service is located within the corporate limits of the City of Kirkland. If at the time of such request for service, the District is unable to provide sewer service, the City may provide the service. If both parties are able to provide the service, it will be provided by the District unless the property to be so served lies within the corporate limits of the City of Kirkland.

AGREED this 5th day of September, 1984.

CITY OF KIRKLAND:

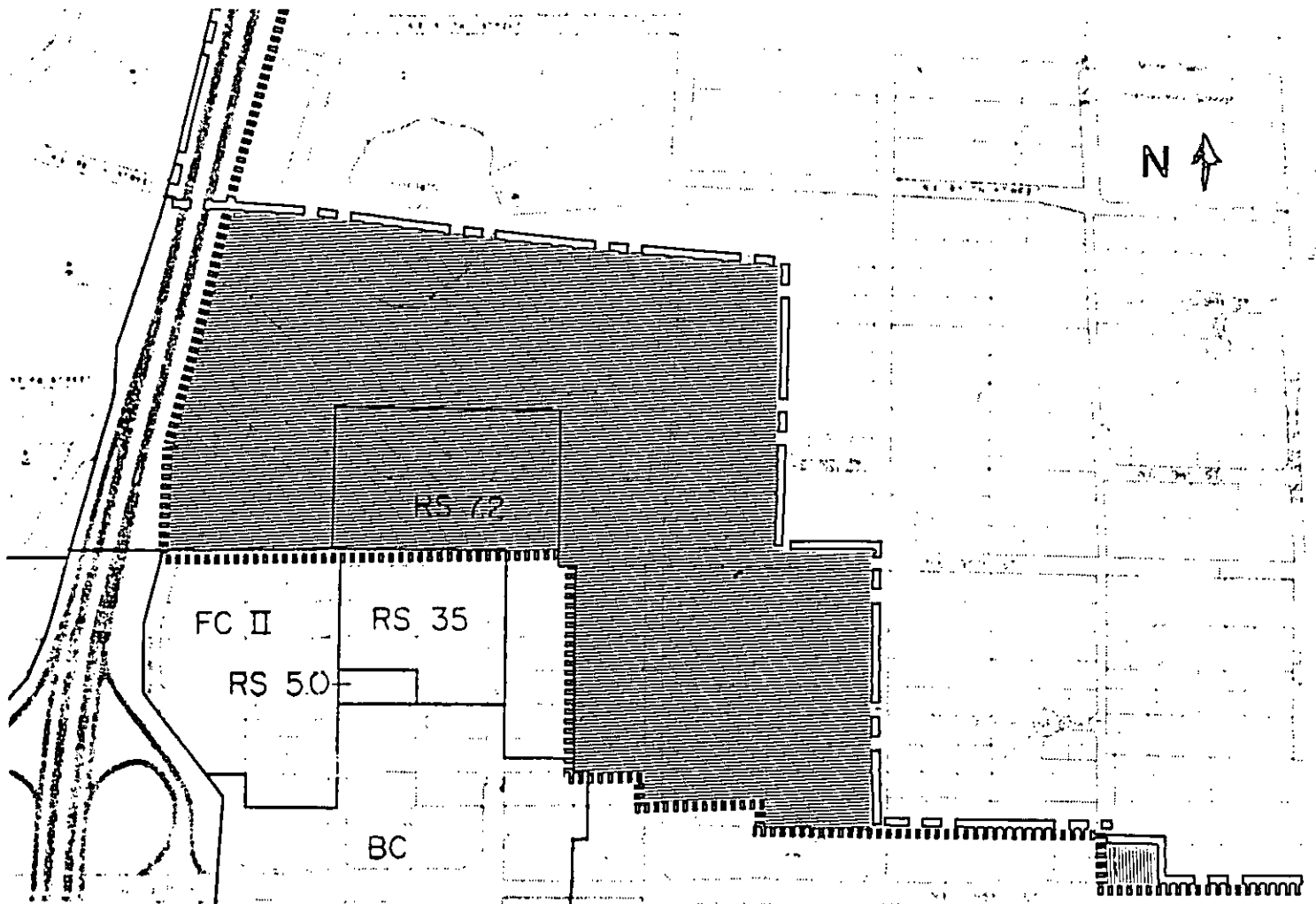
KING COUNTY WATER DISTRICT 81:

By

Allen B. Jones

By

Lee Husman



CITY OF KIRKLAND SERVICE BOUNDARY



WATER DISTRICT 81 SERVICE BOUNDARY



JOINT SERVICE AREA

SCALE 1:600

