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October 22, 1999

Mr. Dale Hardy Roberts
Executive Secretary
Public Service Commission
P. O. Box 360
Jefferson City, MO 65102

FILED²

OCT 22 1999

Missouri Public
Service Commission

SA 2000-295

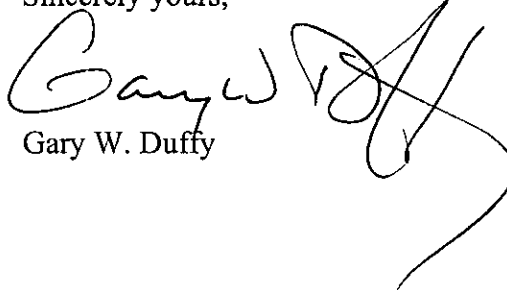
RE: Application by Lake Region Water & Sewer Company to expand its
certificated area

Dear Mr. Roberts:

Enclosed for filing in the above-referenced proceeding please find an original and fourteen copies of an Application for a certificate of public convenience and necessity for Lake Region Water & Sewer Company to expand its existing certificated area on Horseshoe Bend at the Lake of the Ozarks.

If you have any questions, please give me a call.

Sincerely yours,


Gary W. Duffy

Enclosures

cc w/encl:

Office of Public Counsel
Doug Bowden/Fritz Ritter

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

FILED²

OCT 22 1999

Missouri Public
Service Commission

Case No. SA-2000-295

In the matter of the application of Lake Region)
Water & Sewer Company for a certificate of public)
convenience and necessity authorizing it to)
construct, install, own, operate, control, manage)
and maintain a centralized sewage collection and)
treatment system in an area in an unincorporated)
area of Camden County, Missouri, as an expansion)
of its existing certificated area.)

APPLICATION

Comes now Lake Region Water & Sewer Company ("Lake Region" or "Applicant"), by and through its counsel, and for its application pursuant to Section 393.170 RSMo 1994 and 4 CSR 240-2.060(2) for a certificate of public convenience and necessity, respectfully states as follows:

1. Applicant is Lake Region Water & Sewer Company. Its principal office is located at #1 Grand Point Boulevard, Sunrise Beach, Missouri 65079. Its mailing address is P.O. Box 608, Lake Ozark, Missouri 65049.
2. Lake Region is a corporation duly incorporated under the laws of the state of Missouri. It is engaged, generally, in the business of collecting and treating domestic wastewater and in the production and distribution of potable water. Lake Region's operations related to the provision of retail sewer and water service are subject to the jurisdiction of the Commission as provided by law, and Lake Region, formerly known as Four Seasons Lakesites Water & Sewer Company, and also formerly known as Four Seasons Water & Sewer Company, operates under certificates of convenience and necessity previously granted by the Commission.

3. All correspondence, communications, notices, order and decisions of the Commission with respect to this matter should be sent to:

Eugene F. Ritter, President
Lake Region Water & Sewer Company
P.O. Box 608
Lake Ozark, Missouri 65049.
Tel: 573 374-5850
Fax: 573 374-5172

Gary W. Duffy, Attorney at Law
Brydon, Swearingen & England P.C.
312 East Capitol Avenue
P.O. Box 456
Jefferson City, Missouri 65102-0456
Tel: 573 635-7166
Fax: 573 635-3847

4. A certified copy of Applicant's Articles of Incorporation is contained in **Appendix A** hereto and incorporated herein by reference and made a part hereof. A certificate from the Missouri Secretary of State that Applicant is a corporation in good standing in Missouri is attached hereto and marked as **Appendix B**.

5. Applicant wishes to obtain an order from the Commission which will allow it to extend the boundaries of its certificated area so that it may bring central wastewater/sewage collection and treatment to an area which adjoins its existing certificated area. This area is already developed to some extent but it is also experiencing growth, particularly in condominiums and other large developments.

6. Attached hereto and marked as **Appendix C** is a metes and bounds description of the proposed boundary of the new certificated area in Camden County. A detailed map of the location of the proposed service area in Camden County is contained in the Feasibility Study at pages 15 and 16.

7. Central wastewater/sewage collection and treatment is not presently available within the area sought in this certificate. Treatment is by individual treatment facilities or larger facilities serving, e.g., a condominium development. Sewer service is provided by the City of Lake Ozark's municipal system through a line which is presently located on the south side of Highway HH near the southeast corner of the proposed service area. As discussed in the Feasibility Study, it is not believed that this is a viable alternative. Lake Ozark is a municipal system and would not have its rates or quality of service regulated by the Commission.

8. Applicant will not require any franchises or permits from municipalities, counties, or other authorities in connection with the proposed construction other than the usual and customary state highway and county road permits which will be obtained prior to construction. There are no incorporated municipalities located within the proposed area.

9. Applicant's existing rates and regulations for sewer service contained in its tariff, as the same may be allowed to change from time to time pursuant to law, will apply to service in the proposed area. Future rate cases are discussed in the Feasibility Study.

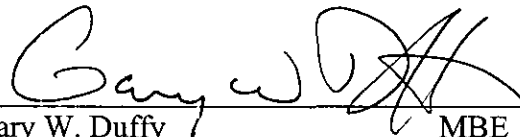
10. Attached hereto and marked as **Appendix D** is a Feasibility Study containing a summary of the plans and specifications for the project including the estimated cost of construction during the first three years. Lake Region's plans for financing the improvements are that there would be a combination of debt and equity financing. Lake Region contemplates conventional bank debt at an interest cost of approximately 8% per annum. The balance of the necessary funds will come from an equity infusion by the stockholders. Any debt financing meeting the statutory requirements for prior Commission approval will be made in a separate application to the Commission. A summary of revenues and expenses for three years is shown on **Appendix E**.

11. Attached hereto and marked as Appendix F is a list of ten persons residing in or who are landowners within the proposed service area.

12. The area in which Applicant is seeking to be certificated hereby is expected to develop even further and require central sewer service to reduce the potential for discharge of effluent into the Lake of the Ozarks. Service from a Commission-regulated supplier is not available in this area at the present time. Since Applicant has the ability to provide service in this area by extending its existing facilities and constructing new facilities, Applicant believes that potential new customers should be afforded the opportunity to take service from Applicant if they so desire.

WHEREFORE, Applicant requests an order from the Commission granting it a certificate of convenience and necessity to construct, install, own, operate, control, manage, and maintain a system for the provision of wastewater/sewer service to the public pursuant to its approved rates, rules and regulations, as the same may change from time to time, in the requested new area of Camden County, Missouri.

Respectfully submitted,



Gary W. Duffy MBE #24905
BRYDON, SWEARENGEN & ENGLAND P.C.
312 East Capitol Avenue
P.O. Box 456
Jefferson City, Missouri 65102-0456
(573) 635-7166
(573) 635-3847 (facsimile)
Attorneys for
Lake Region Water & Sewer Company

VERIFICATION

STATE OF MISSOURI)
)ss
COUNTY OF CAMDEN)

On the 20th day of October, 1999, before me appeared Eugene F. Ritter, to me personally known, who, being by me first duly sworn, states that he is the President of Lake Region Water & Sewer Company and acknowledged that he has read the above and foregoing document and believes that the allegations therein are true and correct to the best of his information, knowledge and belief, and that the above designated attorneys are authorized to file said application on behalf of Lake Region Water & Sewer Company.

Eugene F. Ritter further states that Lake Region Water & Sewer Company has received the required consent of the proper municipal authorities involved in this application since there are no municipalities contained within the proposed service area.

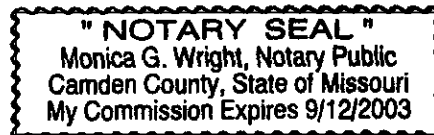
Eugene F. Ritter

Eugene F. Ritter

Subscribed and sworn to before me this 20th day of October, 1999.

Monica G. Wright
Notary Public

My commission expires: 9-12-2003



VERIFICATION

STATE OF MISSOURI)
)ss
COUNTY OF CAMDEN)

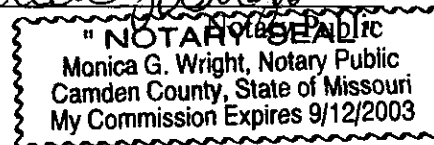
On the 20th day of October, 1999, before me appeared EUGENE F. RITTER FRITZ RITTER, to me personally known, who, being by me first duly sworn, states that he is the Secretary of Lake Region Water & Sewer Company and stated that Lake Region Water & Sewer Company has received the required consent of the proper municipal authorities involved in this application.

Eugene F. Ritter

Subscribed and sworn to before me this 20th day of October, 1999.

Monica G. Wright
Notary Public

My commission expires: 9-12-2003



Certificate of Service

The undersigned certifies that a true and correct copy of the foregoing was served by hand delivery on the Office of the Public Counsel this 22nd day of October, 1999.

Gary W. Duffy
Gary W. Duffy

STATE OF MISSOURI



Rebecca McDowell Cook
Secretary of State

CORPORATION DIVISION
CERTIFICATE OF CORPORATE RECORDS

LAKE REGION WATER & SEWER CO.

I, REBECCA McDOWELL COOK, SECRETARY OF STATE OF THE STATE OF MISSOURI AND KEEPER OF THE GREAT SEAL THEREOF, DO HEREBY CERTIFY THAT THE ANNEXED PAGES CONTAIN A FULL, TRUE AND COMPLETE COPY OF THE ORIGINAL DOCUMENTS ON FILE AND OF RECORD IN THIS OFFICE.

IN TESTIMONY WHEREOF, I HAVE SET MY HAND AND IMPRINTED THE GREAT SEAL OF THE STATE OF MISSOURI, ON THIS, THE 2ND DAY OF AUGUST, 1999.

Rebecca McDowell Cook
Secretary of State





STATE of MISSOURI
JAMES C. KIRKPATRICK, Secretary of State

Corporation Division

Certificate of Incorporation

WHEREAS, duplicate originals of Articles of Incorporation of

FOUR SEASONS LAKESITES WATER & SEWER CO.

have been received and filed in the office of the Secretary of State and which Articles, in all respects, comply with the requirements of The General and Business Corporation Law:

NOW, THEREFORE, I, JAMES C. KIRKPATRICK, Secretary of State of the State of Missouri, by virtue of the authority vested in me by law, do hereby certify and declare

FOUR SEASONS LAKESITES WATER & SEWER CO.

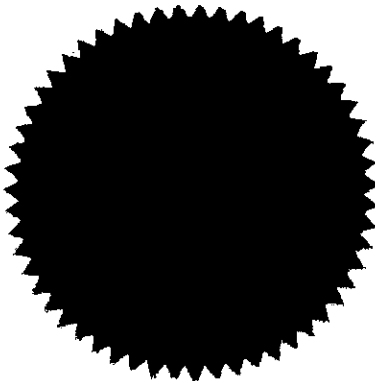
a body corporate, duly organized this day and that it is entitled to all rights and privileges granted corporations organized under The General and Business Corporation Law; that the address of its initial Registered Office in Missouri is

212 North Kingshighway, St. Louis

that its period of existence is perpetual; and that the

amount of its Authorized Shares is ONE HUNDRED THOUSAND Dollars.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the GREAT SEAL of the State of Missouri, at the City of Jefferson, this 10th day of August, 1971.



James C. Kirkpatrick
Secretary of State

RECEIVED OF: **FOUR SEASONS LAKESITES WATER & SEWER CO.**

Eighty-eight and no /00 Dollars, \$ 88.00

For Credit of General Revenue Fund, on Account of Incorporation Tax and Fee.

No. 149504

Dorothy Miller
Deputy Collector of Revenue

ARTICLES OF INCORPORATION

OF

FOUR SEASONS LAKESITES WATER & SEWER CO.

I, the undersigned, being a natural person over the age of 21 years, for the purpose of forming a corporation under the "General Business Corporation Act of Missouri" do hereby adopt the following Articles of Incorporation:

ARTICLE ONE

The name of the corporation is Four Seasons Lakesites Water & Sewer Co.

ARTICLE TWO

The address of the initial registered office is 212 North Kingshighway, St. Louis, Missouri and the name of the initial registered agent in such office is Joseph J. McCabe.

ARTICLE THREE

The number of shares the corporation shall have authority to issue shall be One Hundred Thousand shares all of One Dollar (\$1.00) par value and having no preference.

ARTICLE FOUR

The number of shares to be issued before the corporation shall commence business is Five Hundred shares of One Dollar (\$1.00) par value and the consideration to be paid therefor and the capital with which the corporation will commence business is Five Hundred Dollars (\$500.00) and the corporation will not commence business until said sum of Five Hundred Dollars (\$500.00) has been received for the issuance of said shares.

ARTICLE FIVE

The name and place of residence of the incorporator is as follows:

James L. Zemelman 11 Benwood, St. Louis, Missouri 63141

ARTICLE SIX

The duration of the corporation is perpetual.

ARTICLE SEVEN

The corporation is formed for the following purposes:

To carry on the operations and business of a water company and a sewer company; to supervise the operations and business of water and sewer companies and other companies; to furnish to or procure for such companies services and advice in respect to the management and operations of such companies and their properties; to purchase and sell to or procure for such companies goods, wares, merchandise, machinery, equipment, materials and supplies of all kind; and to furnish, perform, negotiate and secure for such companies engineering and contracting services and to do and perform construction work therefor.

b. To manufacture, buy, sell, deal in and to engage in, conduct and carry on the business of manufacturing, buying, selling and dealing in goods, wares, merchandise of every kind and description.

c. To enter into, make and perform contracts of every kind and description.

d. To buy, acquire, sell, lease, exchange and generally handle real estate and personal property and leaseholds of any and all kind.

e. To lend and advance money or give credit to persons, firms, corporations on such terms as may seem expedient.

f. To acquire and pay for in cash, stocks or bonds of this corporation the goodwill rights, assets and properties, to undertake or assume to hold any part of the obligations or liabilities of any person, firm, association or corporation.

g. To borrow or raise money without limit as to amount and to draw, make, accept, endorse, execute and issue promissory notes, drafts, bills of exchange, warrants, bonds, debentures and other negotiable and non-negotiable instruments and evidences of indebtedness, to secure the payment of any of the foregoing, and any interest thereon by mortgage upon or pledge or assignment in trust of the whole or any part of the property of the corporation, to sell, pledge or otherwise dispose of such bonds or indebtedness for the purposes of the corporation.

h. To purchase, hold, sell, transfer, mortgage, pledge or otherwise dispose of the shares of the capital stock of the corporation or any bonds, securities or evidences of indebtedness created by any other corporation or corporations organized under the laws of the State of Missouri or any other state or foreign country, always subject, however, to the laws of the State of Missouri.

i. In general, to carry on any similar business in connection with the foregoing, to do any and all of the things hereinbefore set forth to the same extent as natural persons might or could do in any part of the world.

j. The foregoing clauses shall be construed as objects and powers, and except where otherwise expressed, such objects and powers shall be in nowise limited or restricted by reference to or inference from the terms of any other clause in this certificate of incorporation, but the objects and powers so specified shall be regarded as independent powers and objects, and it is hereby expressly provided that the foregoing enumeration of said specific powers shall not be held to limit or restrict in any manner the general powers of this corporation.

STATE OF MISSOURI



Rebecca McDowell Cook
Secretary of State

CORPORATION DIVISION
CERTIFICATE OF CORPORATE GOOD STANDING

I, REBECCA MCDOWELL COOK, SECRETARY OF STATE OF THE STATE OF MISSOURI, DO HEREBY CERTIFY THAT THE RECORDS IN MY OFFICE AND IN MY CARE AND CUSTODY REVEAL THAT LAKE REGION WATER & SEWER CO.

WAS INCORPORATED UNDER THE LAWS OF THIS STATE ON THE 10TH DAY OF AUGUST, 1971, AND IS IN GOOD STANDING, HAVING FULLY COMPLIED WITH ALL REQUIREMENTS OF THIS OFFICE.

IN TESTIMONY WHEREOF, I HAVE SET MY HAND AND IMPRINTED THE GREAT SEAL OF THE STATE OF MISSOURI, ON THIS, THE 4TH DAY OF AUGUST, 1999.

Rebecca McDowell Cook
Secretary of State



**DESCRIPTION
NEW SERVICE AREA**

Phase 1 A

A tract of land situated in and being a part of Section 22, 23, 24, 25, 26, 27, 33, 34 and 35, T 40 N, R 16 W, Camden County, Missouri, and being more particularly described as follows:

Beginning at the Southeasterly Corner of Lot 1 of Equestrian Estates No. 1, a subdivision recorded at the Records of Camden County, Missouri; thence S 63° 29' 21" W, along the Southerly Line of said Lot 1, 187.11 feet to the Centerline at Dogwood Road; thence leaving said Southerly Line, S 54° 57' W, along the Southerly Line of Lot 121 of Horseshoe Bend No. 8, a subdivision recorded at the Records of Camden County, Missouri, 280.00 feet to the 662 Contour Line, along the Shoreline of the Lake of the Ozarks; thence leaving said Southerly Line of Lot 121, along said 622 Contour Line, along the Shoreline of the Lake of the Ozarks, in a Northerly and generally Easterly and Southerly direction to the intersection of said 662 Contour Line and the Westerly City Limits of the City of Lake Ozark, Missouri, at the head of Jennings Branch Cove; thence leaving said 662 Contour Line, along said Westerly City Limits, in a Southeasterly direction, to the Southerly R.O.W. Line of Missouri Route "HH"; thence leaving said Westerly City Limits, in a Westerly direction, along said Southerly R.O.W. Line, to the Northeasterly Corner of Emerald Bay Condominiums as recorded by the Plat of the Records of Camden County, Missouri; thence leaving said Southerly R.O.W. Line in a Southwesterly direction, along the Easterly line at said Emerald Bay Condominiums, to said approximate 662 Contour Line along the Shoreline at the lake of the Ozarks; thence leaving said Easterly Line of Emerald Bay Condominiums, along said 662 Contour Line, in a generally Westerly direction, to the Northerly Line at an Easement of the terminus of Hawk Hill Road as shown by the Plat of Black Hawk Estates as recorded at the Records of Camden County, Missouri; thence leaving

56-

said 662 Contour Line, in a Southeasterly direction along the Northerly line at said Easement 76.00 feet, to the Centerline of said Hawk Hill Road; thence leaving said Northerly Line; in a Northerly direction along said Centerline of Hawk Hill Road, to the Centerline of Missouri Route "HH"; thence leaving said Centerline of Hawk Hill Road, in an Easterly direction along said Centerline of Missouri Route "HH" to the Centerline of Carol road; thence leaving said Centerline of Missouri Route "HH", in a Northerly direction along said Centerline of Carol Road to the intersection of said Centerline of Carol Road and the Northerly line of the Four Seasons Racquet and Country Club Condominiums, as recorded by the Plat at the Records of Camden County, Missouri; thence leaving said Centerline of Carol Road in a Westerly direction along said Northerly Line and the Westerly Line of the Racquet and Country Club Condominiums, 4594.79 feet; leaving said Northerly and Westerly Line of the Racquet and Country Club Condominiums, in a Southerly direction 363.17 feet to the Rear Lot Corner at Lots 16 and 15 of said Equestrian Estates No. 1; thence along the Easterly Line of Equestrian Estates No. 1, to the Southeasterly Corner of said Lot 1 and the point of beginning.

Phase 1 B

Also a tract of land situated in and being a part of Section 27 and Section 28, T 40N, R 16 W, being more particularly described as follows:

Beginning at the Southeast Corner of Lot 1 of Country Club Estates No. 3; thence along the Southerly line of Lot No. 1 of Country Club Estates No. 3 Southwesterly 238.22 feet, to the Easterly R.O.W. of County Club Drive; thence Northerly along the R.O.W. of Country Club Drive on a curve to the right an arc distance of 20.00 feet; thence Westerly 50.00 feet to the Westerly R.O.W. of Country Club Drive; thence Southerly along a curve to the left, an arc distance of 105.00 feet to the Southeast Corner of Lot No. 66 of Country Club Estates No. 3; thence Southwesterly along the Southerly Line of Lot No. 66 Country Club

Estates No. 3, 148.48 feet; thence Southwesterly 405.00 feet to the Northeast Corner of the Southeast Quarter of Section 28, township 40 North, Range 16 West, thence South along the Quarter Section Line 1,675 feet to the proposed Centerline of Missouri State Route "HH" at Station 123+09, thence generally westerly along the proposed centerline of State Route "HH", thence 3009 feet to Centerline Station 93+00; thence leaving said Centerline in a Northwesterly direction to the Southeasterly Corner of Lot 850 at Kay's Point No. 2, a subdivision recorded at the Records of Camden County, Missouri, thence in a Northeasterly direction to the Southeasterly Corner of Lot 18 of Kay's Point No. 8, a subdivision recorded at the Records of Camden County, Missouri; thence along the Southeasterly Line of said Kay's Point No. 8, in an Northeasterly direction, to the approximate 662 Contour Line, thence leaving said Southeasterly Line, in an Easterly direction along said 662 Contour Line, to the point of beginning.

Also a tract of land situated in and being a part of Sections 28, 29, 32 and 33, T 40 N, R 16 W, Camden County, Missouri and being more particularly described as follows:

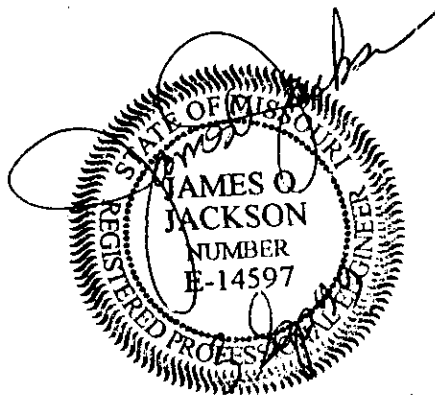
Beginning at the Northwesterly Corner of the Charleston Condominiums as recorded at the Records of Camden County, Missouri, thence in a Southeasterly direction along the Westerly Line of said Charleston Condominiums, to the 662 Contour Line; thence along the Shoreline of the Lake of the Ozarks in a general Westerly direction, to the Southwesterly Corner of the Regatta Bay Condominium Subdivision as recorded in the Records of Camden County, Missouri; thence leaving said 662 Contour Line in a northwesterly direction along the Westerly Line and Westerly Line extended of said Regatta Bay Condominium to the Northerly R.O.W. Line Horseshoe Bend Road R.O.W.;

thence leaving said Westerly Line Extended along said R.O.W. Line in an Easterly direction, to the intersection with the Easterly R.O.W. Line at Yonder Court, 34.30 feet left at Centerline Station 52+12.85 of proposed Missouri Route "HH"; thence leaving said Northerly R.O.W. Line of Horseshoe Bend Road, in an Easterly direction along the Northerly R.O.W. Line of proposed Missouri Route "HH", to a point 60 feet left of Centerline Station 71+82 of proposed Missouri Route "HH"; thence in a Southeasterly direction to the point of beginning.

**PROPOSAL FOR
PUBLIC SERVICE COMMISSION CERTIFICATED AREA
AT
HORSESHOE BEND (IN THREE PHASES)
FOR
LAKE REGION WATER AND SEWER COMPANY**

CAMDEN COUNTY, MISSOURI

SEPTEMBER, 1999

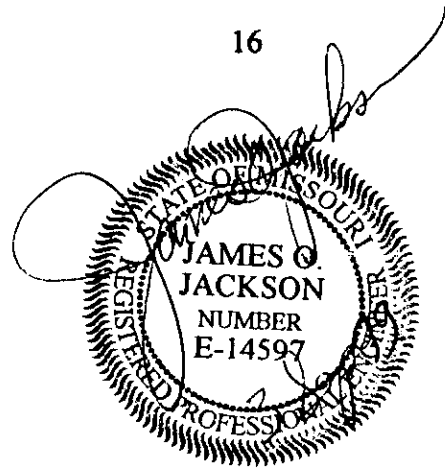


**PREPARED BY
LAKE PROFESSIONAL ENGINEERING SERVICES, INC.
CONSULTING ENGINEERS
CAMDENTON, MISSOURI**

APPENDIX D

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INTRODUCTION

Purpose:

The purpose of this project is to provide sewage collection and treatment for the east part of Horseshoe Bend and an area to the west of the Lodge of the Four Seasons. The developers of this project are requesting that the area to be serviced by this project be a certificated area approved by the Public Service Commission. The developers of this proposed project are Lake Region Water & Sewer Company. To provide this treatment it is proposed to divide the area into three phases so that one phase can be completed each year. The first phase will include the area known as Duckhead Point and the area to the west of the Lodge of the Four Seasons. This proposal is structured so that every facility in the proposed area will have access to this state approved system.

This proposal will eliminate numerous onsite systems. The condominiums and subdivisions in the area will also be able to eliminate their sewage treatment plants when they connect to the proposed collection system and treatment system. This proposed system will allow the elimination of a number of treatment plants that discharge into the Lake of the Ozarks at various points.

Discussion:

This proposal will provide 3 main collection lines for the area. These lines will carry the sewage to a proposed 1,339,380 gallons/day treatment facility located within the proposed area. This is a very large proposal that would be very difficult, if not impossible, to complete in one year. For that reason the project is being proposed for completion in a 3-year time frame.

The project will provide a number of large lift stations. The lift stations will be located so that the houses, subdivisions, condominiums and business will be able to have access. The houses will most likely find it more convenient to place an effluent pump in their existing septic tanks and pump to a pressure line located along the road. Because of the location of the houses near the lake it would be impossible to install gravity line to collect the sewage and carry it to the lift stations. Some of the existing treatment plants at the subdivisions and condominiums may be converted to the large lift stations. In some cases the subdivisions may have to convert the treatment plants to lift stations to transfer their sewage to one of the larger lift stations.

The developers of this proposed system will design and build a new sewage treatment plant capable of treating 1,339,380 g/d of sewage. This plant will be located in the area covered by Phase 3 of this proposed project.

This project will require the establishment of a sewer district covering the proposed area. The developers are requesting approval from the Public Service Commission to establish the proposed project within a new service area. The proposed service area will include the area covered by the three phases proposed for this project.

Recommendation:

Since this proposal will allow for the elimination of a number of onsite treatment facilities and a number of state approved treatment plants that discharge in to the Lake of the Ozarks it is recommended the requested service area being proposed be approved by the Public Service Commission. The proposed project will establish a large central treatment plant that will have one discharge into the Lake of the Ozarks. This system will eliminate a number of existing treatment facilities that are now discharging into the Lake of the Ozarks at various locations. There will be a large number of onsite systems eliminated and the past history of these sites indicate that a large number of failed or failing systems will be eliminated.

LIFT STATIONS BY PHASE

<u>Lift Station Number</u>	<u>Estimated Daily Flows</u>
Phase 1A:	
1	30,340
2	26,640
3	18,130
4	8,880
5	5,180
6	7,400
7	14,060
8	6,290
9	14,060
10	18,870
11	35,150
12	17,390
13	16,650
14	24,050
15	19,980
16	10,730
17	20,720
18	33,670
19	7,770
20	74,000
Phase 1B:	
30	165,020
31	99,160
31	<u>22,200</u>

Phase 1 Total: 696,340 g/d

Phase 2:	
	4,810
50	27,750
51	21,460
52	89,910
53	62,530
54	12,950
55	23,310
56	27,010
57	21,090
58	6,290
59	37,740
60	11,100
61	<u>4,810</u>
62	

Phase 2 Total: 350,760 g/d

Phase 3:

80	9,620
81	11,100
82	81,400
83	24,420
84	28,490
85	5,550
86	13,690
87	28,120
88	15,910
89	7,770
90	<u>10,360</u>

Phase 3 Total: 236,430 g/d

LIFT STATION CRITERIA

<u>Lift Station Number</u>	<u>Estimated Daily Flows</u>	<u>Project Phase Number</u>	<u>Line Number</u>
1	30,340	1A	1
2	26,640	1A	1
3	18,130	1A	1
4	8,880	1A	1
5	5,180	1A	1
6	7,400	1A	1
7	14,060	1A	1
8	6,290	1A	1
9	14,060	1A	1
10	18,870	1A	1
11	35,150	1A	1
12	17,390	1A	1
13	16,650	1A	1
14	24,050	1A	1
15	19,980	1A	1
16	10,730	1A	1
17	20,720	1A	1
18	33,670	1A	1
19	7,770	1A	1
20	74,000	1A	1
30	165,020	1B	3
31	99,160	1B	3
32	22,200	2B	3
50	4,810	2	2
51	27,750	2	2
52	21,460	2	2
53	89,910	2	2
54	62,530	2	2
55	12,950	2	2
56	23,310	2	2
57	27,010	2	2
58	21,010	2	2
59	6,290	2	2
60	37,740	2	2
61	11,100	2	2
62	4,810	2	1
80	9,620	3	2
81	11,100	3	2
82	81,400	3	2
83	24,420	3	2
84	28,490	3	2
85	5,550	3	2
86	13,690	3	2

<u>Lift Station Number</u>	<u>Estimated Daily Flow</u>	<u>Project Phase Number</u>	<u>Line Number</u>
87	28,120	3	2
88	15,910	3	2
89	7,770	3	2
90	<u>10,360</u>	3	1

Total flow: 1,283,450 g/d (New flow from Phases 1A, 1B, 2, and 3 to Proposed treatment plant)

Flow at Four Seasons

Racquet and Country

Club Condominiums 55,500 g/d (Estimated flow to existing treatment plant)

Total flow to

Treatment Plant: 1,338,950 gpd (Total estimated flow to proposed treatment plant)

FLOWS FROM LIFT STATIONS

Lift Station Number Estimated Daily Flow

Main Collection Line Number 1:

1	30,340
2	26,640
3	18,130
4	8,880
5	5,180
6	7,400
7	14,060
8	6,290
9	14,060
10	18,870
11	35,150
12	17,390
13	16,650
14	24,050
15	19,980
16	10,730
17	20,720
18	33,670
19	7,770
20	74,000
62	4,810
90	10,360

NOTE: Line 3 connects to line 1 where Line 1 leaves Highway HH.

Main Collection Line Number 3:

30	165,020
31	99,160
32	<u>22,200</u>

Total Flow Line 1 and 3: 711,510 g/d

Main Collection Line Number 2:

50	4,810
51	27,750
52	21,460
53	89,910
54	62,530
55	12,950

56	23,310
57	27,010
58	21,010
59	6,290
60	37,740
61	11,100
80	9,620
81	11,100
82	81,400
83	24,420
84	28,490
85	5,550
86	13,690
87	28,120
88	15,910
89	<u>7,770</u>

Total Flow Line 2: 571,940 g/d

PHASE 1A AND 1B COSTS

1. Main Collection Lines:

Line 1.

6" lines - 14,450' at \$35.00/ft. = \$505,750
4" lines - 3,750' at \$25.00/ft. = 93,750

Line 3.

6" lines - 13,550' at \$35.00/ft. = 474,250

Total Collection Lines = **\$1,073,750**

2. Branch Lines:

Line 1.

4" lines - 22,520' at \$25.00/ft. = \$563,000

Line 3.

6" lines - 1,350' at \$35.00/ft. = 47,250
4" lines - 1,950' at \$25.00/ft. = 48,750

Total Branch Lines = **\$659,000**

3. Lift Station Costs:

<u>Lift Station No.</u>	<u>Horse Power Pumps</u>	<u>Costs</u>
Phase 1A:		
1	25	\$50,000
2	25	46,620
3	25	31,730
4	25	21,000
5	25	20,000
6	25	20,500
7	25	24,405
8	25	20,000
9	25	24,610
10	25	33,025
11	25	50,000

12	25	30,435
13	25	29,140
14	25	42,080
15	25	34,965
16	20	20,000
17	20	36,260
18	10	59,925
19	7.5	12,830
20	25	60,000

Phase 1B:

30	25	40,000
31	25	35,000
32	25	<u>30,000</u>

Total Cost for Lift Stations: **\$771,525**

Design Fees, Including Surveying: **\$265,400**

GRAND TOTAL COST FOR PHASE 1A and 1B: \$2,769,675

PHASE 2 COSTS

1. Main Collection Lines:

6" lines -- 8,060' at \$35.00/ft. =	\$282,100
4" lines - 4,400' at \$25.00/ft. =	<u>110,000</u>
Total Collection Lines =	\$392,100

2. Branch Lines:

4" lines -- 12,325' at \$25.00/ft. =	\$308,125
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3. Lift Station Costs:

<u>Lift Station No.</u>	<u>Horse Power Pumps</u>	<u>Costs</u>
50	25	\$20,000
51	25	48,565
52	25	37,555
53	25	70,000
54	25	55,000
55	25	22,665
56	25	40,795
57	25	47,270
58	25	36,910
59	25	20,000
60	25	50,000
61	25	19,425
62	3	<u>11,800</u>
Total Cost for Lift Stations:		\$479,985

Design Fees, Including Surveying:	\$118,000
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<u>GRAND TOTAL COST FOR PHASE 2:</u>	<u>\$1,298,120</u>
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PHASE 3 COSTS

1. Branch Lines:

4" lines – 8,530' at \$25.00/ft. = **\$213,250**

2. Lift Station Costs:

<u>Lift Station No.</u>	<u>Horse Power Pumps</u>	<u>Costs</u>
80	25	\$16,835
81	25	19,425
82	20	65,000
83	20	42,735
84	20	49,860
85	20	20,000
86	20	23,960
87	20	49,210
88	20	27,845
89	20	20,400
90	7.5	<u>18,130</u>
Total Cost for Lift Stations:		\$353,400

Design Fees, Including Surveying: **\$57,000**

3. Construction of Treatment Plant:

1,339,380 gpd at \$3.50/gal. = \$4,687,830
Design Fees For Treatment Plant: 263,000
Total For Treatment Plant: **\$4,950,830**

GRAND TOTAL COST FOR PHASE 3: \$5,574,480

SUMMARY OF SEWAGE TREATMENT AND LINES

1. Persons Served :

Phase 1A: 4,099.6
Phase 1B: 2,863.8
Phase 2: 3,507.6
Phase 3: 2,364.3
Total: 12,835.3 plus 555 at Racquet Club Condos = 13,390.3

2. Total Units Served:

Phase 1A: 1,108
Phase 1B: 774
Phase 2: 948
Phase 3: 639
Total: 3,469 plus 150 at Racquet Club Condos = 3,619

3. Cost per unit:

Phase 1: \$1,471.67
Phase 2: 1,369.32
Phase 3: 975.98 (Does not include any cost for the treatment plant)
Total (Including Racquet Club Condos and Treatment Plant): \$2,664.35/unit

4. Total Feet of Collection Lines:

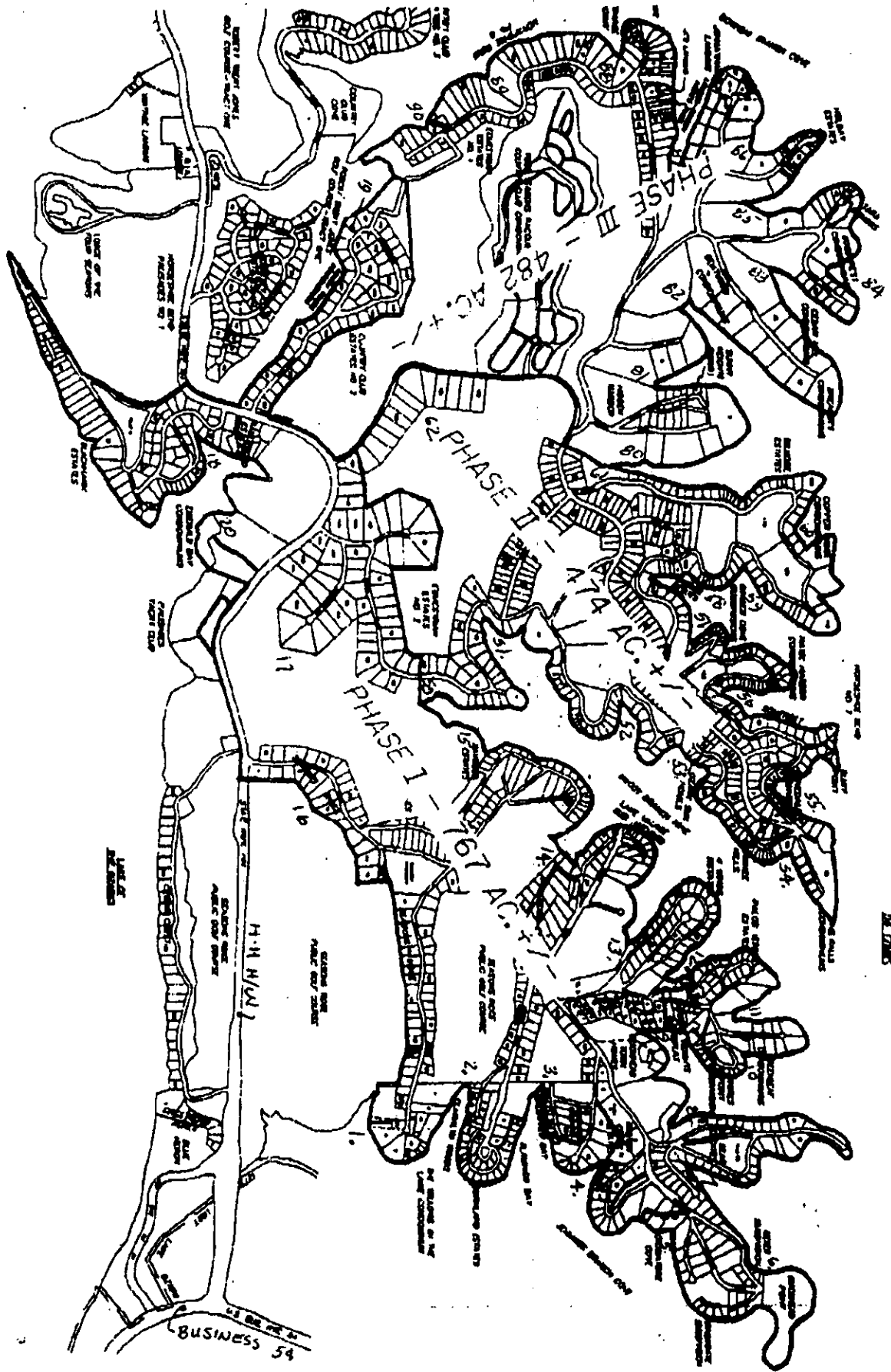
Phase 1A: 40,720'
Phase 1B: 16,850'
Phase 2: 24,785'
Phase 3: 8,530'
Total: 90,885'

5. Total Number of Lift Stations:

Phase 1A: 20
Phase 1B: 3
Phase 2: 13
Phase 3: 11
Total : 47

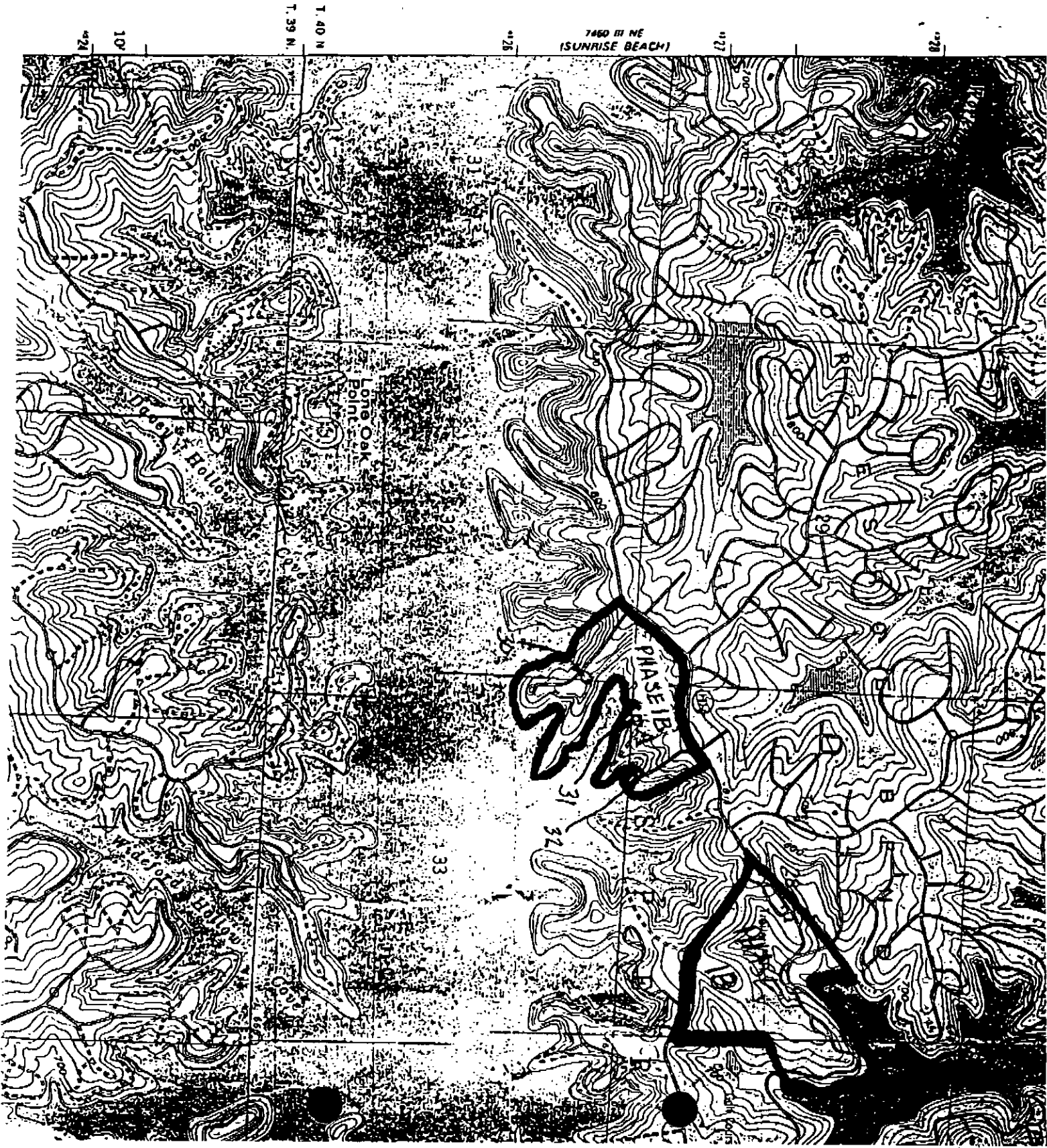
6. Cost per Phase:

Phase 1A and 1B: \$2,769,675
Phase 2: 1,298,120
Phase 3: 5,574,480 (Includes the Treatment Plant)
Total: \$9,642,275



LAB. 11
M. DAVIS

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SCHEDULE 1

Estimate of Cutomers, Revenues and Expenses for Expansion

	Number of Customers			Revenues			Expenses		
	2000	2001	2002	2000	2001	2002	2000	2001	2002
Phase 1	577	919	1262	145,015	228,051	311,087	199,595	200,526	201,456
Phase 2	0	244	350	0	62,306	88,246	0	106,019	106,019
Phase 3	0	0	186	0	0	46,789	0	0	62,834
Totals	577	1163	1797	145,015	290,357	446,122	199,595	306,544	370,309

APPENDIX E

HBCCN

List of 10 property owners

- 1) John & Ruby Mackey, P. O. Box 909, Lake Ozark, MO 65049
- 2) Sandy Ritter, 218 Center On The Lake, Lake St. Louis, MO. 63367
- 3) Bill Painter, P.O. Box 1204, #80 Blackhawk Estates, Lake Ozark, MO 65049
- 4) Joseph G. & Angela D. Vallero; P. O. Box 708; Lake Ozark, MO. 65049
- 5) David Shorr, c/o Lathrop & Gage, 326 E. Capitol Ave., Jefferson City, MO. 65101-3004
- 6) Jay Allen, Monarch Cove Condominiums, 30131 Town Center Drive, Suite 135, Laguna Niguel, CA 92677
- 7) Lodge of Four Seasons, Seasons Ridge Golf Club, P. O. Box 215, Lake Ozark, MO. 65049
- 8) Craig Chapman, 5417 Clem Rd, Portage, IN 46368
- 9) Bradford Scheiter, 524 Cedar Road, Lake Ozark, MO. 65049
- 10) Valerie DiStefano, Preschool Plus, 307 Susan Road, Lake Ozark, MO 65049