

Preliminary Engineering Report Central Water & Sewer Service



Sarasota County

November 1994

Prepared by:

PBSJ POST,
& BUCKLEY,
SCHUH &
JERNIGAN, INC.

**330 S. Pineapple Avenue
Suite 113
Sarasota, Florida**

SARASOTA COUNTY, FLORIDA

**PRELIMINARY ENGINEERING REPORT
CENTRAL WATER AND SEWER SERVICE
SARASOTA COUNTY**

NOVEMBER 1994

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EXECUTIVE SUMMARY

Treatment and disposal of wastewater within unincorporated Sarasota County is largely accomplished through the use of on-site disposal (septic tank) systems. The existing soils and groundwater levels within the County generally are not suitable for proper septic tank operation and eventually system failures occur.

Studies and evaluations of Sarasota Bay completed as part of the Sarasota Bay National Estuary Program (SBNEP) identified septic tanks within 900 feet of surface waters as a major source of nutrient loadings to the bay. The action plan for wastewater developed by SBNEP includes providing central wastewater collection, treatment and disposal for these areas.

In 1993, Sarasota County adopted an implementation plan for the acquisition and consolidation of franchises and a master plan for a county-wide wastewater collection and treatment system. As a continuation of the planning for the wastewater system, PBS&J was authorized to prepare a preliminary engineering report for individual wastewater collection systems in the urban unincorporated areas of Sarasota County that use septic tank systems. The preliminary report included planning for central water service for project areas that use residential (private) wells for water supply.

The report includes an inventory of existing wastewater facilities, identification of developed urban areas, and establishment of project areas where central water and wastewater system were not available. A total of 226 projects were identified, encompassing a total of 37,341 platted residential lots with 30,188 existing homes. Individual wells were used for water supply by 13,910 existing homes within the project areas.

For each of the project areas, conceptual designs were developed for wastewater collection systems. Based upon a previous report that evaluated alternative collection systems, gravity sewer systems were recommended for most of the projects. A present worth cost comparison between low-pressure sewer systems and gravity sewer systems were completed for projects with densities of less than two units per acre. Conceptual designs

for water distribution systems were developed for projects without existing central water supply systems.

Conceptual cost estimates for construction were prepared for each project using a computer spreadsheet program prepared specifically for this study. A total project cost was developed incorporating the cost for sewers, water distribution, mobilization and contingencies, and engineering and administration.

A rating system was developed to compare environmental, financial and existing facilities criteria for each project as a means of establishing relative priorities for funding and implementation. The project evaluation included identification of projects that are considered a high priority by the SBNEP and projects that will result in the elimination of a package wastewater treatment plant.

The recommended program based upon the prioritization analysis includes 41 of the 226 projects evaluated. The estimated project cost for the recommended collection system construction is \$51,651,100. Total costs for the recommended program, including treatment and disposal, and transmission system construction, is \$71,916,000. Additional costs for water system construction will be applicable to those neighborhoods that do not have central water service.

Implementation of the franchise acquisition and consolidation plan and the wastewater collection and treatment master plan will result in changes in the criteria that determine the relative priorities of the projects. Both the conceptual cost estimates and the prioritization system should be updated on a regularly scheduled basis and as specific conditions change.

Implementation of the recommended program will require funding of major capital improvements. It is recommended that the County evaluate alternatives for financing of the program and establish a schedule for implementation.

Section 1
INTRODUCTION

1.1 AUTHORIZATION AND OBJECTIVES

Sarasota County authorized Post, Buckley, Schuh & Jernigan, Inc. on October 19, 1993 to prepare a preliminary engineering report for development of water and wastewater service to urban unincorporated areas of Sarasota County. The objectives of this report are to:

- Inventory existing project areas.
- Determine of project area boundaries.
- Prepare a conceptual design of wastewater collection and water distribution systems for areas not presently served.
- Develop an opinion of probable cost for each project.
- Prioritize projects.
- Present recommendations and implementation strategies.

1.2 BACKGROUND

Treatment and disposal of wastewater within unincorporated Sarasota County is largely accomplished through the use of on-site disposal (septic tank) systems. The soils, however, within the County are not suited to septic systems and failure of the septic tank absorption fields is common. Most of the older absorption field systems were constructed below the existing grade and are affected by high groundwater tables that occur throughout most of the County. Renovations of the septic tank systems generally require that the absorption fields be reconstructed in mounds elevated above the surrounding grade with pumps to lift wastewater from the septic tanks into the absorption fields. In future years, it is likely that

most of the older septic tank systems will fail and will have to be replaced with systems that meet current standards.

Studies completed as part of the Sarasota Bay National Estuary Program (SBNEP) determined that septic tanks located within 900 feet of surface waters are major contributors of nutrient loadings to Sarasota Bay. Approximately 32 percent of the nitrogen loading to Phillippi Creek was found to be contributed by septic tanks and package wastewater treatment plants. The SBNEP "action plan" for wastewater treatment recommendations includes providing central wastewater treatment systems for areas adjacent to surface waters and for areas of chronic septic tank failures.

In 1993, Sarasota County adopted a plan for development of county-wide wastewater facilities entitled *Franchise Acquisition, Consolidation, Implementation Plan - Wastewater Collection & Treatment Master Plan*. The plan consolidated the recommendations of previous studies, including the *Sarasota County 201 Facilities Plan, Vision 20/20*, and *APOXSEE*, the County's comprehensive plan. The master plan describes implementation for a three-phase program for acquisition, consolidation, and regionalization of private franchised systems.

1.3 STUDY SCOPE

The focus of this study is the development of a master plan for wastewater collection facilities to serve the existing developed areas of the County that use septic tanks. The plan includes identification of project areas, development of project areas, conceptual design, cost estimates, and prioritization of projects.

Many of the areas that have septic tanks for wastewater disposal also have individual wells for potable water. Water distribution systems are included in the master plan for these areas.

Barrier islands that use septic tanks systems for wastewater disposal were

not included in the scope of this study. The barrier islands pose unique problems for both collection of wastewater and transmission across the bay that should be addressed in a separate study.

1.4 PREVIOUS REPORTS

As part of the engineering evaluations for the collection system program, PBS&J previously completed the following reports:

- *Wastewater Collection System Handbook-Alternatives Evaluation*
- *Guidelines for the Conceptual Design and Cost Estimating for Gravity Systems, Low-Pressure Systems and Water Distribution Systems*

The *Alternatives Evaluation* report compared the advantages and disadvantages of gravity systems, low-pressure systems, and vacuum sewer systems for wastewater collection. The comparison included a present worth analysis of construction and operation and maintenance costs as well as factors not related to cost. Although gravity systems were found to be the most cost-effective for the majority of projects, low-pressure systems were found to be comparable for projects with densities of two units per acre or less.

The *Guidelines* report presented conceptual design procedures for gravity and low-pressure sewer collection systems and water distribution systems. Computer present worth evaluation spreadsheets were provided to compare gravity and low-pressure systems for low-density projects and for project cost estimates for sewer collection systems and water distribution systems.

Section 2

DETERMINATION OF PROJECT STUDY AREAS

2.1 PROJECT METHODOLOGY

The initial project task was to identify and inventory existing facilities in the urban, unincorporated areas of Sarasota County where central water and wastewater systems are not presently available. An inventory of existing water and wastewater systems was completed as follows:

1. Previous studies and reports were reviewed.
2. Private franchise utilities personnel were interviewed.
3. Available record drawings on file with Sarasota County were reviewed.
4. Sarasota County section maps and aerial photographs were reviewed.
5. Where documentation was unavailable existing service areas were determined in the field.

The inventory data was then compiled into maps and graphics detailing locations of areas where central water and wastewater systems are not presently available within urban, unincorporated Sarasota County, including areas serviced by private franchises.

Project boundaries were then identified based on the following guidelines:

1. Projects should be contiguous, sharing a common wastewater collection system boundary.
2. Project boundaries should follow natural and man-made features.
3. Project boundaries should approximate neighborhoods.
4. Project boundaries should conform to criteria to be established by the County to facilitate financing and/or project management.

The project boundaries established are shown in Figure 2-1. The projects encompass a total of 37,341 platted residential lots with 30,188 existing

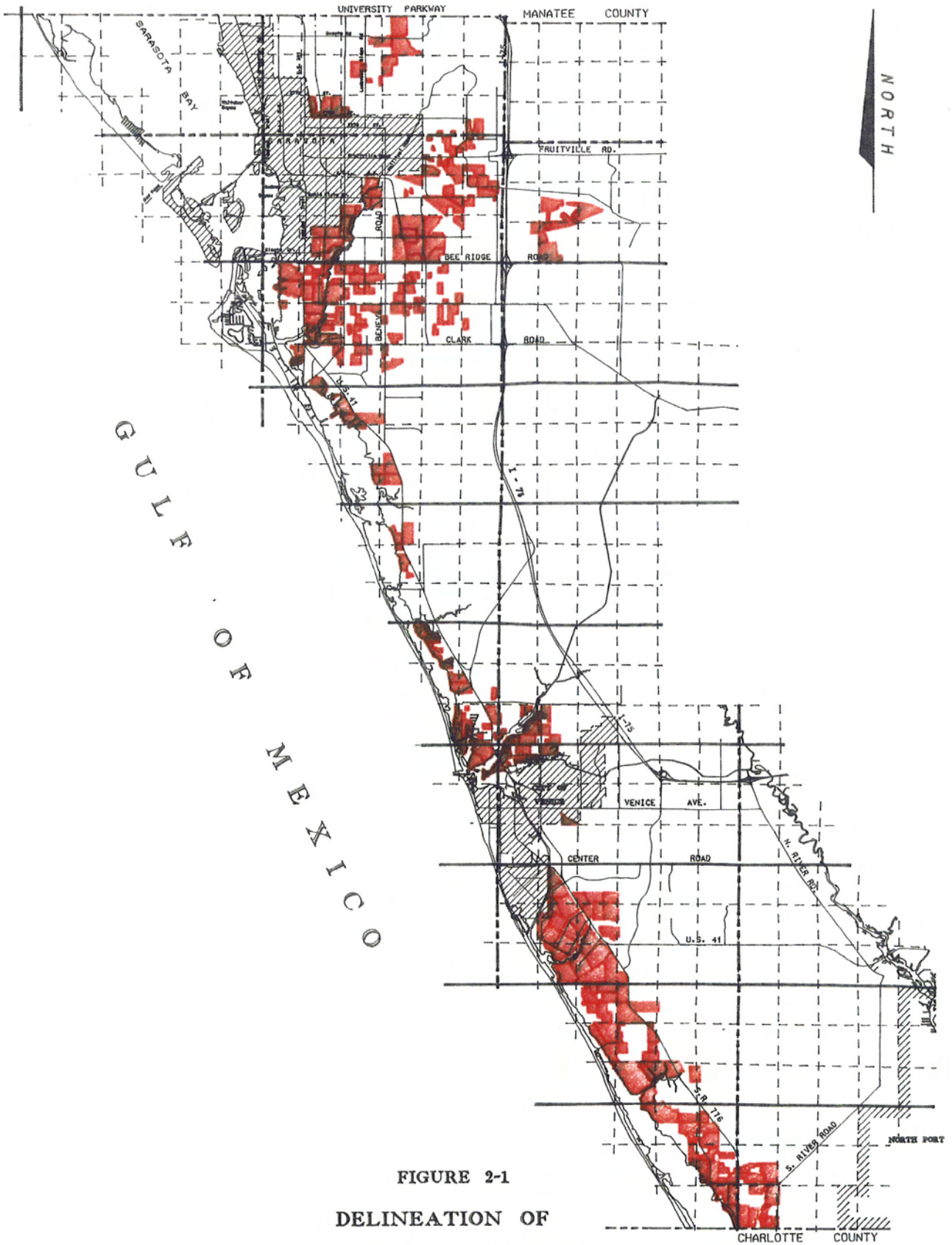


FIGURE 2-1
 DELINEATION OF
 PROJECT BOUNDARIES
 SARASOTA COUNTY
 FLORIDA

homes served by septic tanks. Individual wells are used by 13,910 existing homes for their water supply.

The project boundaries were based upon existing residential development and did not include commercial areas, with the exception of small commercial establishments within residential areas. However, the conceptual designs for the projects included providing capacity for service to adjacent commercial areas and the financial analyses included both costs and estimated revenues related to the commercial area service.

2.2 SARASOTA BAY NATIONAL ESTUARY PROGRAM

The Sarasota Bay National Estuary Program (SBNEP) was formally established in June 1989. The purpose of the SBNEP is to characterize the environmental quality of the bay and formulate a comprehensive restoration and enhancement plan based upon technical analyses.

The findings and recommendations of the SBNEP have been incorporated into the identification of project areas and the determination of relative priorities for implementation of the collection system projects.

The technical evaluations by the SBNEP have shown that significant nutrient loadings (nitrogen) to Sarasota Bay result from the use of septic tanks in residential developments adjacent to surface waters. The studies indicated that the Phillippi Creek basin experienced particular problems.

Section 3
CONCEPTUAL DESIGN

3.1 COLLECTION SYSTEM ALTERNATIVES

Since the construction of collection systems within existing communities will be costly and disruptive, the County has evaluated alternatives to standard gravity sewer systems. The alternative system recommended in the *Alternatives Evaluation* report was the low-pressure system which has proven to be cost-effective in some situations, particularly at densities less than two units per acre.

3.1.1 Gravity Systems

Gravity systems are the oldest type of sewage collection system in existence in the United States. The wastewater from each building's sewer is conveyed to a main line via a sloped feeder line. The main line may convey flow directly to a wastewater treatment plant (WWTP), or to a lift station which pumps the sewage to the facility or to a gravity interceptor. Gravity systems do not include moving parts and, therefore, are low maintenance systems. Lift stations associated with gravity systems, however, do require regularly scheduled maintenance.

3.1.2 Low-Pressure Systems

Low-pressure sewer systems typically consist of small grinder pump stations, which receive the wastewater from each home or commercial establishment. They pump wastewater into a pressurized network of small-diameter pipes which can discharge into gravity sewers, manholes, pump stations, larger force mains, or a WWTP.

The service line leading from the pumping unit to the main is usually 1.25 to 1.5-inch diameter PVC. Backflow is prevented by a check valve on the service line and a redundant check valve at the pumping unit. If a malfunction occurs, a high-liquid-level alarm is activated.

The construction of low-pressure sewers involves narrow trenches and shallow pipe depths, thereby minimizing construction costs and disturbances in developed areas. Disturbances to existing roads and trees can be avoided by routing the low-pressure pipe around obstructions and by "pushing" pipes beneath roads.

3.1.3 Low-Density Projects

Low-density projects of less than two units per acre should be evaluated by a comparison of present worth costs for gravity and low-pressure facilities. In some situations, a combination of both types of systems is the most cost-effective design. The *Guidelines for the Conceptual Design* report provides specific details for the present worth analysis.

3.2 WATER SYSTEMS

Many of the project areas identified for the wastewater project study area do not have a central water supply, and use individual wells for drinking water. For these areas, conceptual designs for water distribution systems were developed. The water distribution pipe network systems developed for each project included a looped main system based on meeting maximum daily and fire flow for the project area. The conceptual water system designs were prepared following the procedures outlined in the *Guidelines for the Conceptual Design* report.

3.3 CONCEPTUAL DESIGNS

Conceptual designs for wastewater collection and, where appropriate, water distribution systems, were prepared for each of the project areas shown on Figure 2-1. Preparation of the designs followed the procedures outlined in the *Guidelines for the Conceptual Design* report. The conceptual designs were digitized by computer using County half-section maps as a base, and were provided to the Utilities Department in CADD files for future use. Plots of each of the conceptual project designs were also provided.

3.3.1 Gravity Systems

The conceptual designs for gravity sewers included the location of pipes, manholes, and lift stations, as well as line sizes, and direction of flow. Projected flows for sizing the pipes and pumping facilities were determined based upon the number of Equivalent Residential Units (ERUs) served by each part of the system.

3.3.2 Low-Pressure Systems

The conceptual designs for low pressure systems show the line locations and sizes, valves, directions of flow, and lift stations locations. Line sizes and pumping requirements are based upon the ERUs served by each element of the system.

3.3.3 Water Systems

The conceptual water system designs provide a looped network of mains to meet peak usage demands and fire flows. The minimum line size used is 6 inches, with 8 inches for any dead-end lines. Although not shown on the project plans, the water system cost estimates included valves at all branches and intersections and fire hydrants spaced in accordance with design standards.

Section 4

CONCEPTUAL COST ESTIMATES

4.1 COST ESTIMATING METHODOLOGY

A construction cost estimate for each project was prepared using a computer spreadsheet program developed specifically for this study. The computer program calculates the estimated costs for specific line items based upon a unit price multiplied times a measured quantity for the item.

The quantities for pipe lengths, manholes, valves, etc., for the water and sewer systems for the estimates were taken from the conceptual designs completed for each project.

The unit costs for construction used for the estimates are listed in Appendix A-1 and are based upon current local prices adjusted to November 1993. The unit costs should be updated periodically to reflect current costs when the spreadsheet is used for future planning.

The line item unit prices include the work associated with construction of the specific item, such as excavation and backfill for pipe lines, but do not include general project costs, such as mobilization, traffic control, etc. Once each project cost estimate has been compiled from the unit prices to produce subtotal costs for gravity sewers, pressure sewers, and water systems, twenty percent of the subtotal is added to cover general project costs and contingencies.

Fifteen percent of the total estimated construction cost is added to reflect engineering and administration costs, yielding the total project cost.

4.2 COST ESTIMATES

The tables in Appendix A show the estimated quantities and construction costs for each collection system project. The summary of the project costs in Appendix A-2 includes separate estimates for construction costs for

gravity sewers, pressure sewers and water systems, mobilization, traffic control and contingencies, and engineering and administration.

Section 5
PRIORITIZATION SYSTEM

5.1 PRIORITIZATION METHODOLOGY

To establish relative priorities for funding and implementation of the utility projects, a system of ratings was developed to compare the attributes of the projects. The major categories evaluated for each project are:

1. Environmental criteria
2. Financial criteria
3. Existing facilities criteria

A summary of the individual criteria for each category and the relative priority ratings for the specific conditions under each criteria is presented in Table 5-1.

5.1.1 Environmental Criteria

The individual environmental criterions evaluated for each project are:

- Septic Tank Conditions - A priority rating of "Very High" was established for areas identified as having chronic septic tank problems or a high rate of failure. A "High" priority was given for areas of poor soil and groundwater conditions for septic tank function. A "Low" priority rating was established for areas platted after 1983, which meet current septic tank system standards and are less likely to fail.
- Water Supply - A "Very High" priority rating was established for areas on individual wells. A "Very Low" priority rating was established for areas with existing central water supply systems. No intermediate ratings are applicable.

**TABLE 5-1
PRIORITIZATION CRITERIA
SERVICE TO DEVELOPED UNINCORPORATED URBAN AREAS**

	<u>PRIORITY</u>	<u>CONDITION</u>	<u>LETTER DESIGNATION</u>	<u>PRIORITY NUMBER</u>
ENVIRONMENTAL CRITERIA				
Septic Tank Conditions	Very High	In area of septic tank failure or chronic failure	A	10
	High	Poor soil and groundwater conditions for septic tank function	B	8
	Med		C	6
	Low		D	4
	Very Low	Septic tanks meet current standards (platted after 1983)	E	2
Water Supply	Very High	Individual wells	A	10
	High		B	8
	Med		C	6
	Low		D	4
	Very Low	Central Water Supply	E	2
Surface Water Quality	Very High	Area Identified by NEP as high priority	A	10
	High		B	8
	Med	Within 2000 feet of surface water	C	6
	Low		D	4
	Very Low	Greater than 2000 feet to surface water	E	2
Density of Development	Very High	Four units per acre or more	A	10
	High	Three to four units per acre	B	8
	Med	Two to three units per acre	C	6
	Low	One to two units per acre	D	4
	Very Low	Less than one unit per acre	E	2
Percent Buildout	Very High	Over 80 percent	A	10
	High	75 TO 80 percent	B	8
	Med	70 to 75 percent	C	6
	Low	60 to 70 percent	D	4
	Very Low	Less than 60 percent	E	2

TABLE 5-1 (cont.)
PRIORITIZATION CRITERIA
SERVICE TO DEVELOPED UNINCORPORATED URBAN AREAS

	<u>PRIORITY</u>	<u>CONDITION</u>	<u>LETTER DESIGNATION</u>	<u>PRIORITY NUMBER</u>
<u>FINANCIAL CRITERIA</u>				
Project Cost per Unit	Very High	Less than \$6,000	A	10
	High	\$6,000 TO \$7,999	B	8
	Med	\$8,000 TO \$10,999	C	6
	Low	\$10,000 TO \$11,999	D	4
	Very Low	Greater than \$12,000	E	2
Ratio Project Cost to Annual Revenues	Very High	Less than 6.0	A	10
	High	6 to 8	B	8
	Med	8 to 10	C	6
	Low	10 to 12	D	4
	Very Low	More than 12	E	2
<u>EXISTING FACILITIES CRITERIA</u>				
Treatment/Disposal Capacity Availability	Very High	Capacity available	A	10
	High		B	8
	Med		C	6
	Low		D	4
	Very Low	Future capacity to be provided	E	2
Relative Project Location	Very High	Adjacent to existing SUD or municipal system	A	10
	High	Adjacent to franchise system	B	8
	Med	Minor transmission system needed for connection	C	6
	Low		D	4
	Very Low	Isolated from existing facilities	E	2

- Surface Water Quality - A "Very High" priority rating was established for areas identified by Sarasota Bay National Estuary Program (SBNEP) as a high priority for surface water pollution (located less than 900 feet from surface water). A "Medium" priority was established for areas between 900 to 2,000 feet from surface water, and areas greater than 2,000 feet from surface water were given a "Very Low" priority rating.
- Density of Development - A higher density of development equals greater potential for nutrient discharge to surface waters and failure of drain fields. Therefore, areas of four or more units per acre were given the highest priority rating; the lowest priority rating was established for areas of less than one unit per acre.
- Percent Build-out - The percent build-out criteria accounts for existing conditions within a project area. High-density communities that are not fully developed will be considered comparable to low-density projects in terms of the potential for pollution and septic tank failure. The priority ratings ranged from "Very High" for areas of greater than 80 percent build-out to a "Very Low" priority rating for less than 60 percent.

5.1.2 Financial Criteria

The financial criteria ratings were based on the following elements.

- Sewer Cost per Unit - Priority ratings ranged from "Very High" to "Very Low" for sewer costs per unit of less than \$6,000 to more than \$12,000 per unit, respectively.
- Ratio Project Cost to Annual Revenues - This criterion recognizes to those projects that have large users, commercial areas, or will gain many customers from the elimination of a package treatment plant. These projects have the financial advantage that the cost for increased revenues is small compared to other projects. The highest

priority rating was established for ratios of project cost to annual revenues of less than 6. The lowest ratings were established for ratios greater than 12, which indicate a high cost compared to the revenues to be received.

5.1.3 Existing Facilities Criteria

The ratings for existing facilities were based on the ability of existing facilities to transport, treat, and provide disposal of wastewater. The criteria evaluated are:

- Treatment/Disposal Capacity Availability - As with the water supply standard, this component of the evaluation is ranked as either a yes or no. The highest priority rating was established for project areas with treatment/disposal capacity available. The lowest priority is assigned if no capacity is available.
- Relative Project Location - The highest priority rating was assigned to projects adjacent to existing Sarasota Utilities Department or municipal system. A high rating is applicable if the project is adjacent to a franchise system and a low priority rating was established for projects isolated from existing transportation or treatment facilities.

5.2 PROJECT PRIORITIZATION

A computer spreadsheet was developed to calculate overall project priorities based upon the criteria discussed previously. Each project was evaluated to establish the ratings for each criteria category as presented in Table 5-2 at the end of this section. Some of the project information is defined as follows.

1. Total Units = units platted within the project area
2. Number of existing units = actual lots with homes constructed
3. Density = platted lots per acre

4. Type of Development
 - a. Single-family
 - b. Apartments
 - c. Duplex
 - d. Mobile Home Park
 - e. RV Park
5. Availability of franchise water (no revenue included in financial analysis for water service if served by franchise)
6. Estimated Annual Revenue Other = estimated annual revenue for commercial, large users, and package WWTPs that will be connected to the project

Calculations for the financial criteria evaluations are presented in Table 5-3 at the end of this section. This table estimates annual revenues for water, sewer, and large users as well as the sewer cost per unit. The cost per unit criterion is based upon the total cost per unit for sewers only. Costs for water distribution systems were not included in the financial ratings.

5.3 PRIORITIZATION SYSTEM

The relative priority for each project was determined based on the previously established prioritization methodology, with priority points presented in Table 5-4 (end of this section) for environmental, financial, and existing facilities criteria. The special conditions column denotes whether an existing package plant would be taken off line, and whether the project is rated high by the SBNEP for water quality reasons. The total of the priority points for the three categories was then developed into a priority rating of from 1 to 5, as follows:

Priority Rating	Points
1	26-30
2	24 - 25
3	22 - 23
4	20 - 21
5	less than 20

Figure 5-1 graphically represents all of the County collection system projects with the relative priorities identified by colors and Figures 5-2 through 5-5 show the project areas in more detail, along with the project numbers referenced to Table 5-4. The majority of the higher priority projects are adjacent to the City of Sarasota, particularly in the Phillippi Creek watershed. The concentration of high priority projects in the this area results from two factors:

- The City of Sarasota wastewater treatment plant has unused capacity that could be used to serve a large part of the septic tank areas adjacent to the City boundary.
- Septic tanks in the Phillippi Creek watershed have been identified by the SBNEP as a major source of pollution of the creek and Sarasota Bay.

The lack of existing treatment and disposal facilities was a primary reason for low priorities for many of the projects in other areas of the County.

5.4 PRIORITIZATION SYSTEM UPDATE

The relative project priorities shown in Table 5-4 are based upon existing conditions. As Sarasota County proceeds with the acquisition of franchise utilities and the development of regional pumping stations and treatment facilities, the conditions for establishing the relative priorities will change. Therefore, the project priorities should be updated on a regularly scheduled basis, and as specific conditions change.

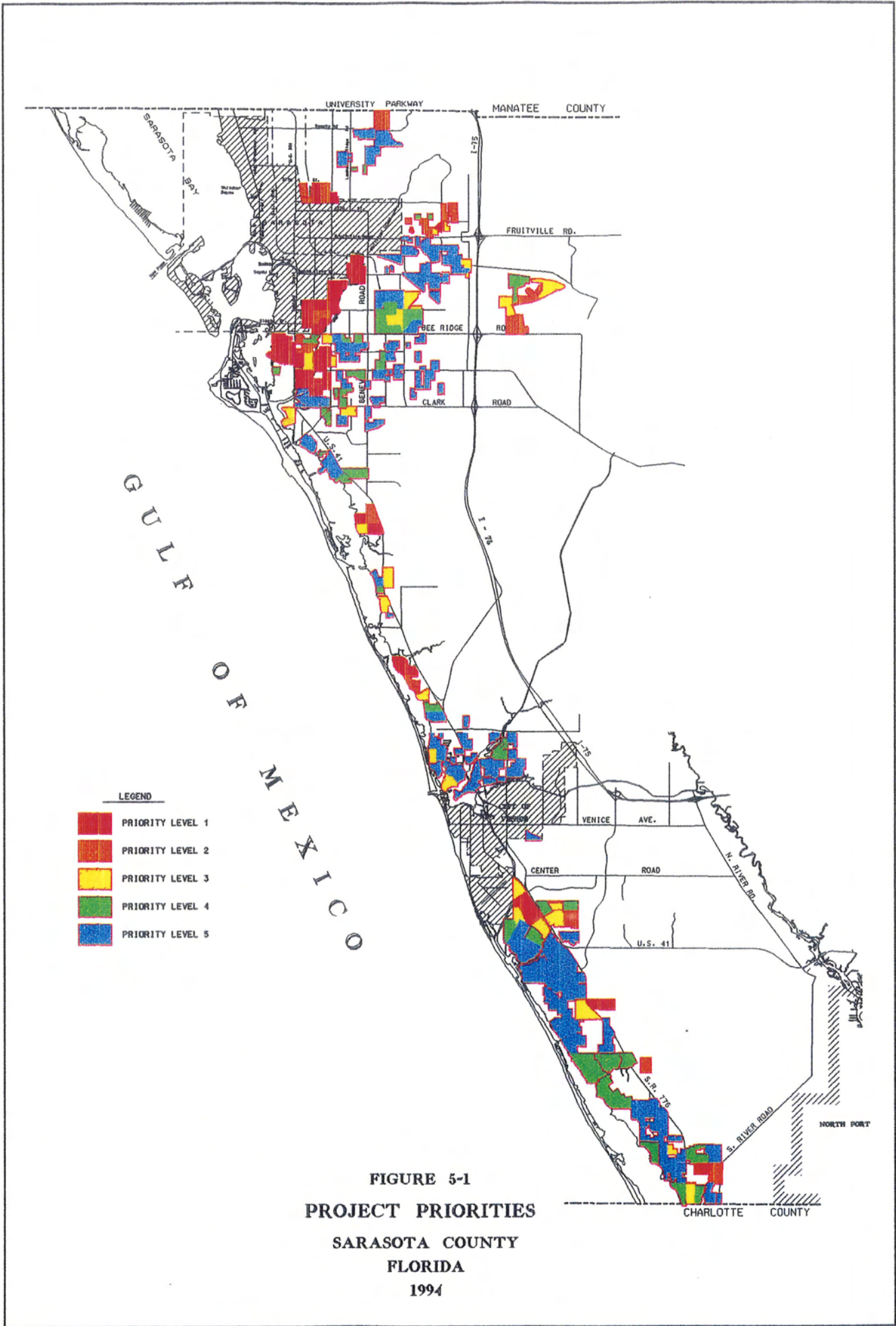


FIGURE 5-1
PROJECT PRIORITIES
SARASOTA COUNTY
FLORIDA
1994

RNG. 17E.

RNG. 18E.

RNG. 19E.

UNIVERSITY PARKWAY

MANATEE

COUNTY

SARASOTA BAY

- LEGEND**
- PRIORITY LEVEL 1
 - PRIORITY LEVEL 2
 - PRIORITY LEVEL 3
 - PRIORITY LEVEL 4
 - PRIORITY LEVEL 5
 - 25 WASTE WATER TREATMENT PLANT LOCATION W/ NUMBER



SCALE IN MILES

TWP. 36S.

TWP. 37S.

SARASOTA COUNTY

FLORIDA

1994

NORTH SERVICE

DISTRICT

PROJECT AREAS

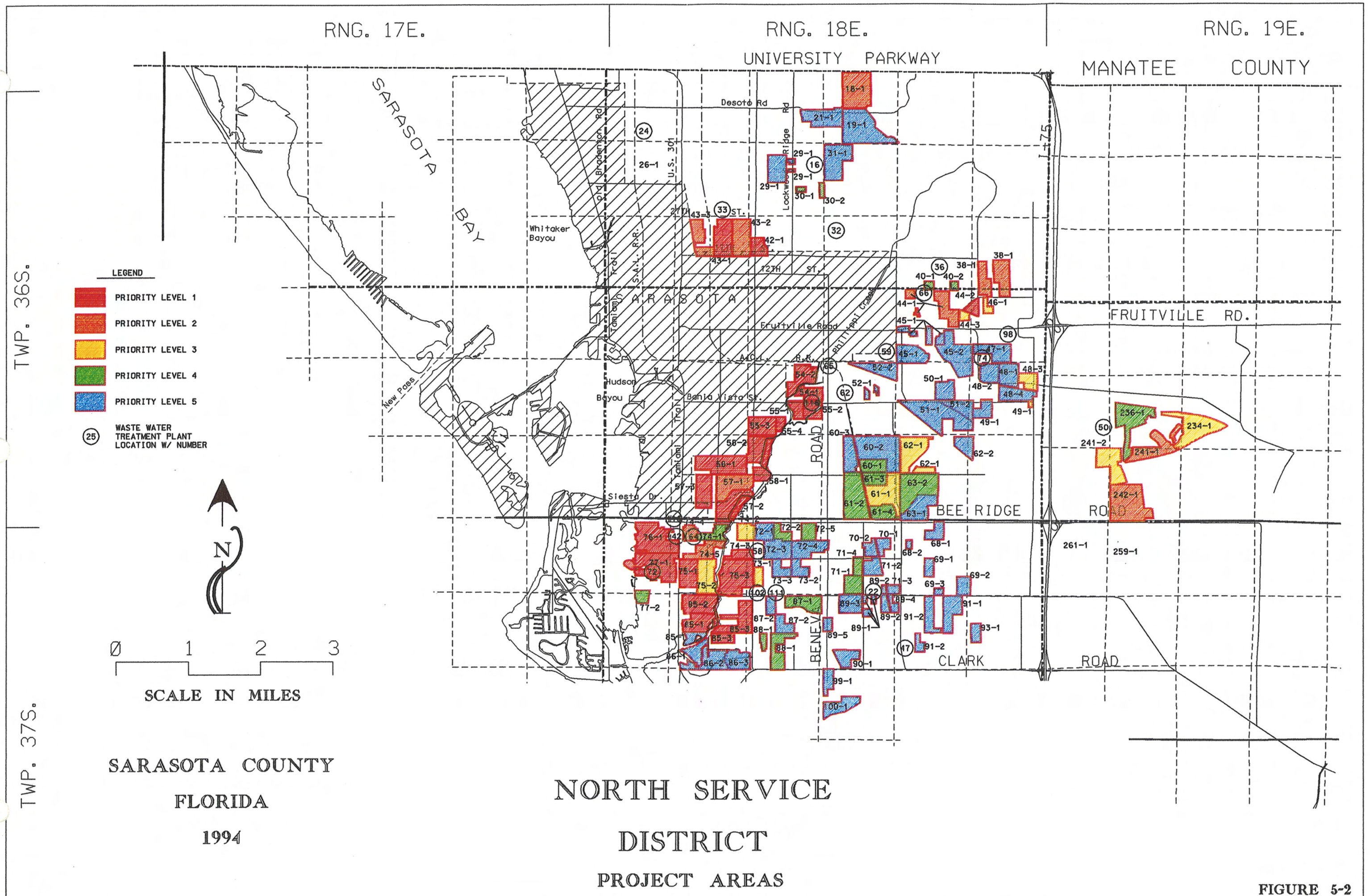


FIGURE 5-2

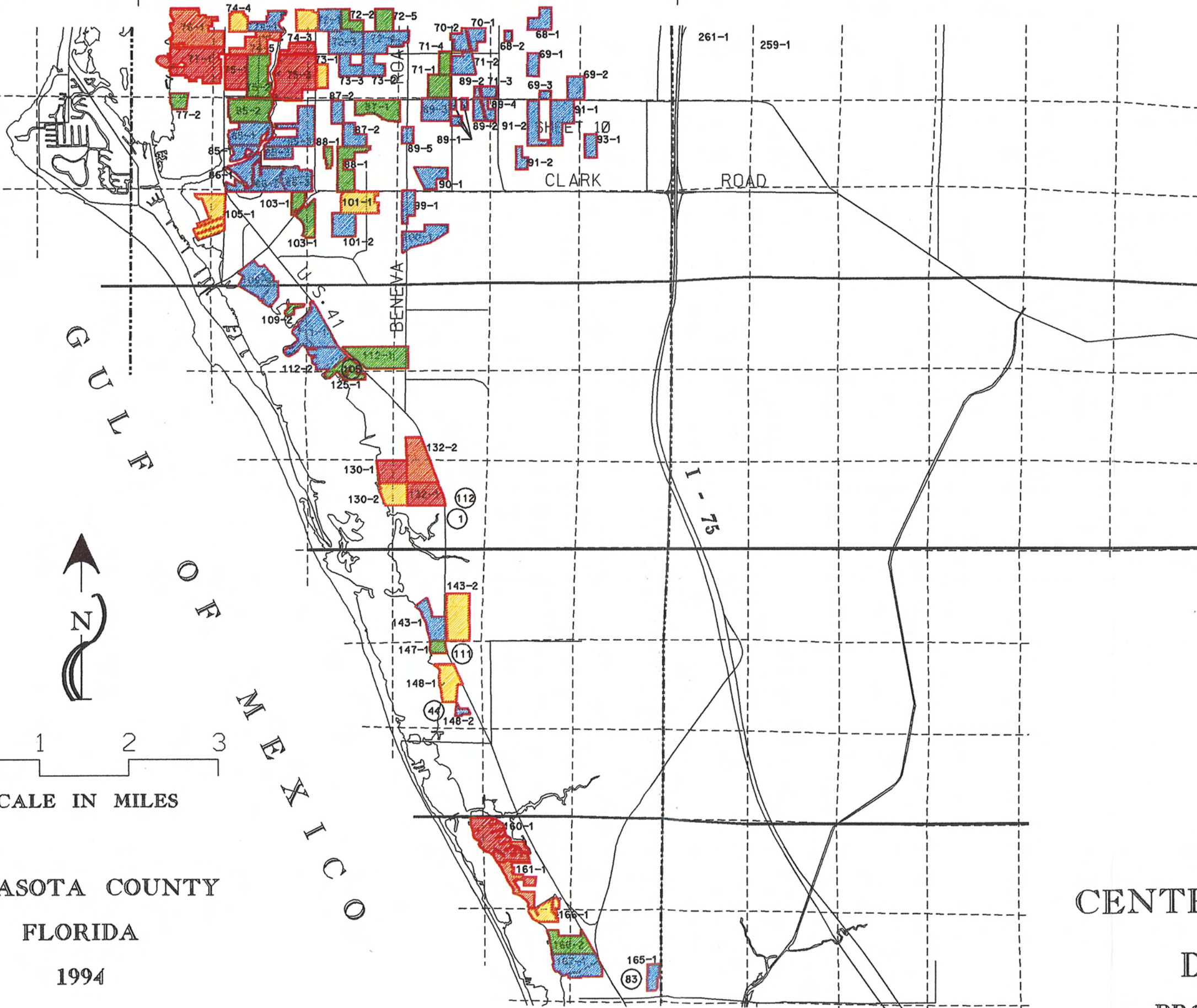
RNG. 17E.

RNG. 18E.

RNG. 19E.

TWP. 37S.

TWP. 38S.



SCALE IN MILES

SARASOTA COUNTY
FLORIDA
1994

LEGEND

- PRIORITY LEVEL 1
- PRIORITY LEVEL 2
- PRIORITY LEVEL 3
- PRIORITY LEVEL 4
- PRIORITY LEVEL 5
- 25 WASTE WATER TREATMENT PLANT LOCATION W/ NUMBER

CENTRAL SERVICE
DISTRICT
PROJECT AREAS

FIGURE 5-3

RNG. 18E.

RNG. 19E.

RNG. 20E.

TWP. 38S.

TWP. 39S.

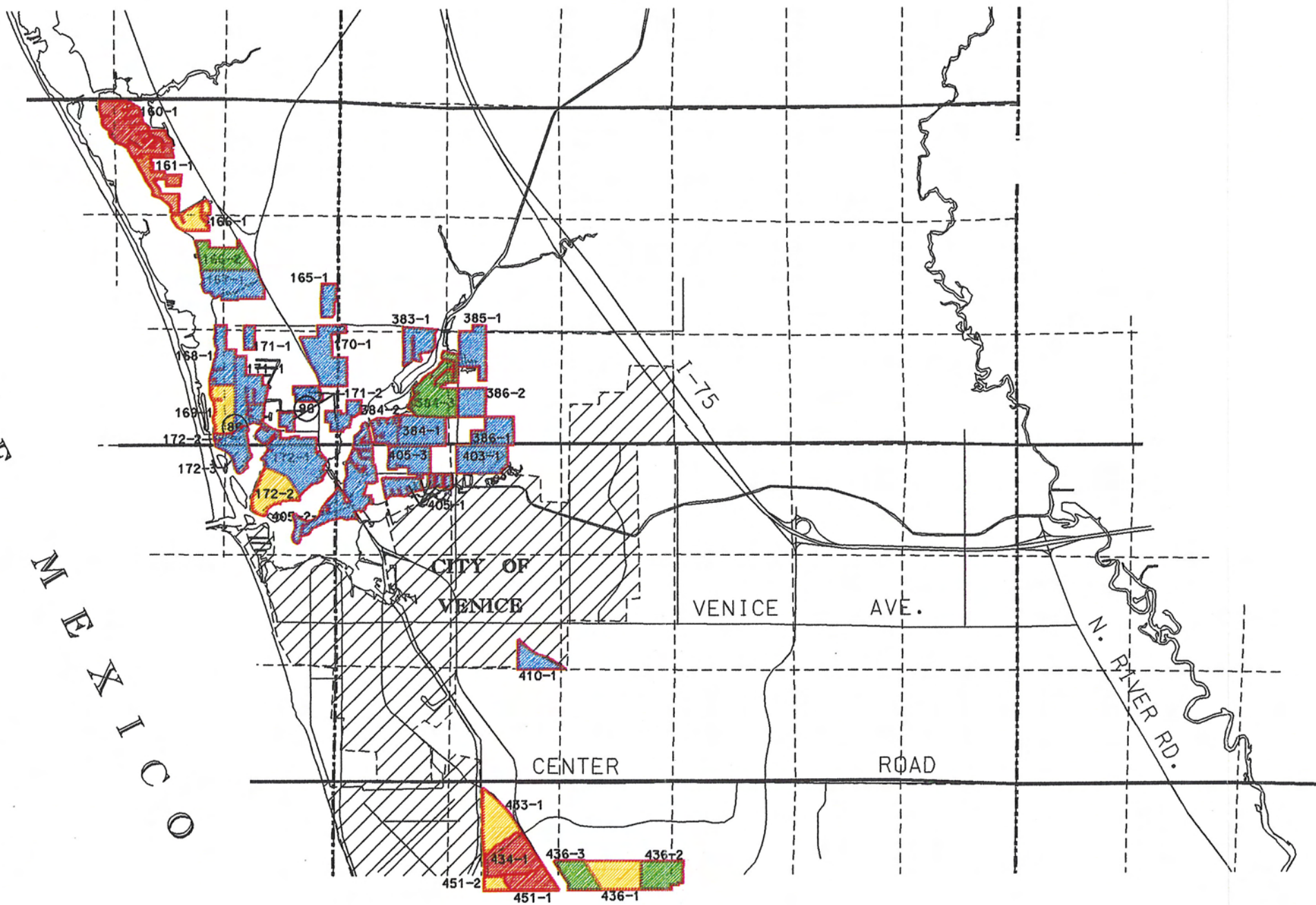
GULF OF MEXICO



SCALE IN MILES

SARASOTA COUNTY
FLORIDA
1994

- LEGEND**
- PRIORITY LEVEL 1
 - PRIORITY LEVEL 2
 - PRIORITY LEVEL 3
 - PRIORITY LEVEL 4
 - PRIORITY LEVEL 5
 - 25 WASTE WATER TREATMENT PLANT LOCATION W/ NUMBER



**SOUTH SERVICE
DISTRICT
PROJECT AREAS**

FIGURE 5-4

RNG. 18E.

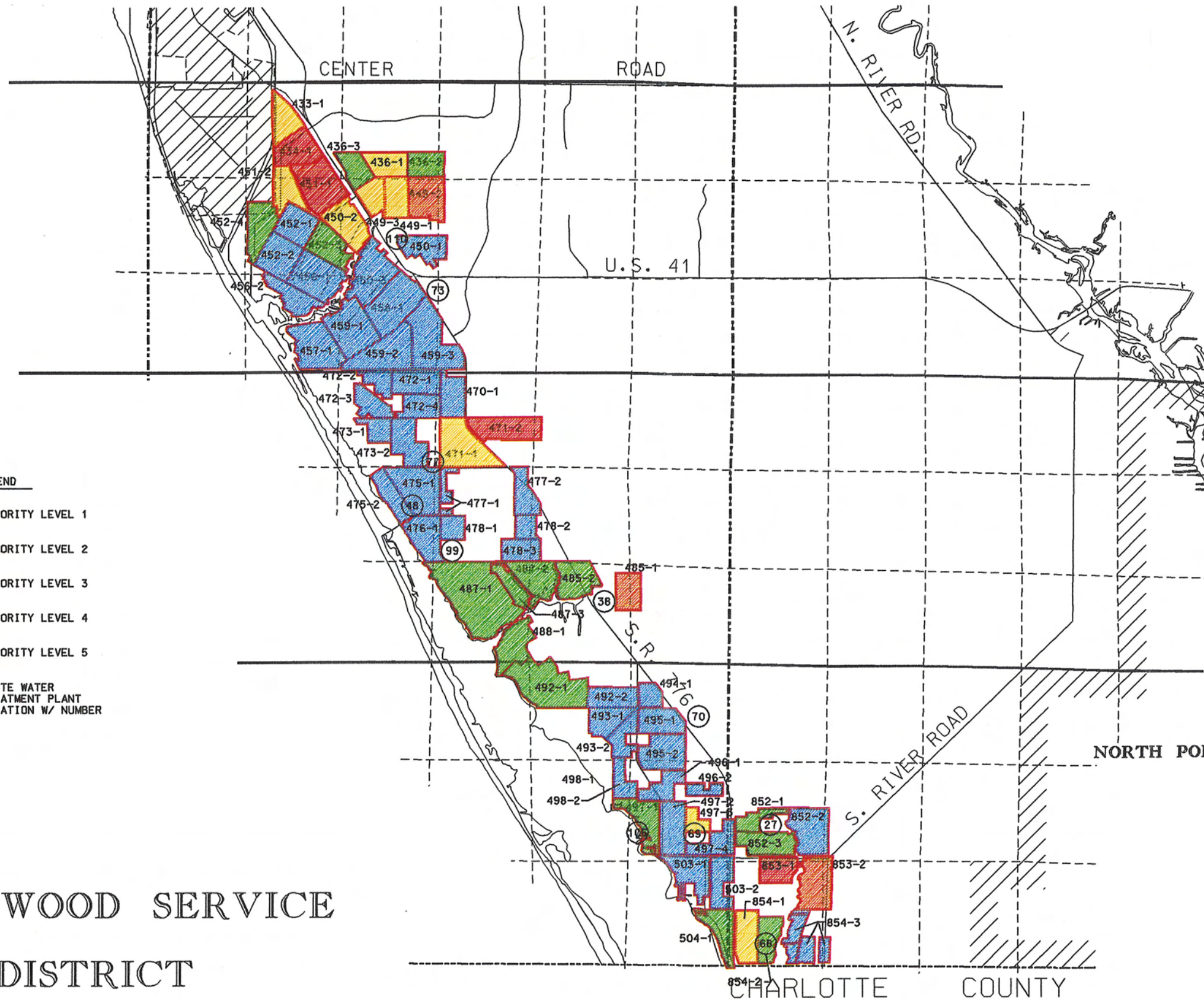
RNG. 19E.

RNG. 20E.

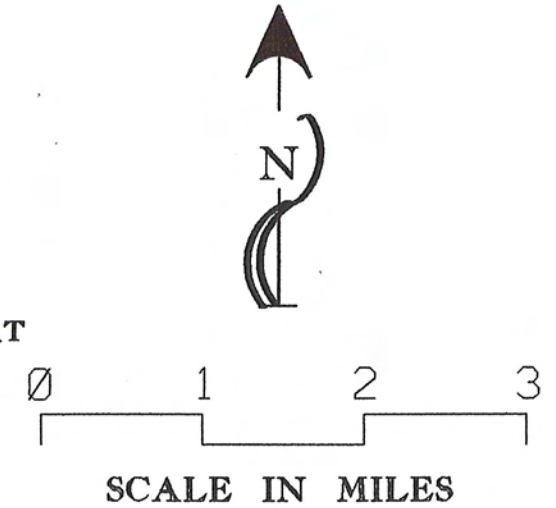
TWP. 39S.

TWP. 40S.

- LEGEND**
- PRIORITY LEVEL 1
 - PRIORITY LEVEL 2
 - PRIORITY LEVEL 3
 - PRIORITY LEVEL 4
 - PRIORITY LEVEL 5
 - 25 WASTE WATER TREATMENT PLANT LOCATION W/ NUMBER



ENGLEWOOD SERVICE
DISTRICT
PROJECT AREAS



SARASOTA COUNTY
FLORIDA
1994

FIGURE 5-5

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Priority Criteria				Relative Location
											Septic Tank	Water Supply	Surface Water	Treat./ Disposal	
018-1	RAVENWOOD	118.7	100	0.8	85	85	A		\$682,100		B	E	C	A	B
019-1	DESOTOLAKES	148.6	490	3.3	443	90	A		\$3,542,300		A	E	C	E	B
021-1	DESOTO LAKES	79.1	196	2.5	173	88	A		\$1,448,200		A	E	A	E	B
029-1	BEVERLY TERR	66.1	200	3.0	170	85	A		\$2,046,400	\$51,859	A	A	A	E	B
030-1	SWAAN ACRES	5.7	7	1.2	7	100	A		\$102,800		C	A	C	A	B
030-2	TOBERO WOODS	8.5	14	1.6	14	100	A		\$197,700		C	A	C	A	B
031-1	HIDEN FOREST	95.2	74	0.8	67	91	A		\$581,400		B	E	A	E	B
038-1	COFFMAN MANOR	103	196	1.9	162	83	A		\$1,903,000		A	A	C	A	B
040-1	SLAUBAUGH	8.9	12	1.3	11	92	A		\$138,700		B	E	A	A	B
040-2	FREEMAN RIDGE	8	14	1.8	14	100	A		\$174,200		B	E	A	A	B
042-1	LEISURE LAKES	31.9	109	3.4	108	99	A		\$868,800		B	A	B	A	A
043-1	LORRAINE/BOOKER PL	79.2	212	2.7	178	84	A		\$1,692,500		B	A	A	A	A
043-2	LENRAY HTS.	81.4	252	3.1	191	76	A		\$2,092,600		B	A	A	A	A
043-3	HOMEWOOD HTS.	38.5	78	2.0	58	74	A		\$769,500		B	A	A	A	A
044-1	HOMEDALE/TANGLED OAK	71.3	160	2.2	136	85	B		\$1,691,800	\$48,814	B	A	A	A	A
044-2	CEDAR HAMMOCK	19.6	63	3.2	63	100	A		\$392,500		B	E	C	A	B
044-3	THE WOODLANDS	10.7	21	2.0	18	86	A		\$197,500		B	A	C	A	B
045-1	SHERWOOD ESTATES	76.3	225	2.9	128	57	B		\$1,735,300	\$7,029	A	A	A	E	A
045-2	CEDAR HOLLOW	116	236	2.0	232	98	A		\$1,701,000		E	E	A	E	B
046-1	RELLIM LANE	12.0	9	0.8	7	78	A		\$91,000		A	A	C	A	B
047-1	GREEN ACRES	61.2	131	2.1	114	87	A		\$1,204,900	\$1,877	A	D	C	E	C
048-1	CRESTLINE	51.8	144	2.8	114	79	A		\$1,040,800		A	A	E	E	C
048-2	BROADWAY	41	199	4.9	126	63	A		\$1,362,200		A	A	E	E	C
048-3	HIGHLAND CREST	31.7	120	3.8	116	97	A		\$835,200		A	A	E	E	C
048-4	PALMER FARMS 2ND UNIT	52.4	110	2.1	90	82	A		\$767,300		B	E	A	E	B
049-1	WOODLAND HOMES	34.4	119	3.5	62	52	A		\$841,900		A	E	A	E	B
050-1	PLEASANT ESTATES	41.1	52	1.3	44	85	A		\$392,300		A	E	A	E	B
051-1	TURTLE CREEK/TORREYA	147.9	119	0.8	91	76	A		\$1,476,700		A	E	A	E	B
051-2	HIDDEN OAKS ESTS	44.0	33	0.8	32	97	A		\$290,700		A	E	A	E	B
052-1	TARA VISTA/ BAHIA VISTA	9.9	16	1.6	11	69	A		\$153,900	\$71,090	B	C	C	E	B
052-2	NOTTINGHAM	54.3	159	2.9	153	96	A		\$942,100		B	E	C	E	A
054-1	HEMOCROFT (NET1/4)	36.9	178	4.8	176	99	A		\$1,017,200	\$31,593	A	E	A	A	A
054-2	OAKSHORES	63.9	215	3.4	183	85	A		\$1,877,000	\$13,505	A	A	A	A	A
055-1	PINECRAFT	26.0	220	8.5	198	90	A		\$947,100	\$5,508	A	E	A	A	A
055-2	HEMOCROFT	40.3	216	5.4	214	99	A		\$817,800		A	E	A	A	A

FILENAME=PHASE1.WK4

04-Nov-94

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Priority Criteria				Relative Location	
											Septic Tank	Water Supply	Surface Water	Treat/Disposal		
055-3	RIO VISTA	62.0	206	3.3	155	75 A			\$1,511,800		B	A	A	A	A	A
055-4	ALOHA TR. CITY	14.1	253	17.9	253	100 D			\$882,100		A	E	A	A	A	A
056-1	SUNNYSIDE PARK	103.9	370	3.6	342	92 A			\$2,484,400		A	E	A	A	A	A
057-1	ORANGE PARK GARDENS	83.4	229	2.7	209	91 A			\$1,770,600		A	E	C	A	A	A
057-2	SOUTHGATE # 5, 6, 8, 8	81.1	234	2.9	227	97 A			\$1,473,400		A	E	A	A	A	A
057-3	LONGMEADOW/SGATE #2	61.9	193	3.1	189	98 A			\$1,069,100		A	E	C	A	A	A
058-1	SOUTHGATE #20, 33, 834	27.9	87	3.1	87	100 A			\$710,100		A	E	A	A	A	A
058-2	SOUTHGATE#21,22,23,26,27	70.6	201	2.8	190	95 A			\$1,166,700		A	E	A	A	A	A
060-1	PURSELL AC/SRQSPRINGS	41.3	203	4.9	185	91 A			\$975,900		A	E	C	E	B	B
060-2	SRQSPRINGS # 7&9	143.1	427	3.0	377	88 A			\$2,854,800		A	E	A	E	B	B
060-3	ORANGE GROVE PARK	51.0	190	3.7	173	91 A			\$1,151,000		A	E	C	E	B	B
061-1	SRQSPRINGS/PAYNE AC.	108.1	476	4.4	422	89 A			\$2,792,000		A	E	A	E	B	B
061-2	FOREST LAKES #1&2	121.1	105	0.9	88	84 A			\$589,100		A	E	A	E	B	B
061-3	SOUTHERN VIEW	36.6	93	2.5	84	90 A			\$475,500		A	E	C	E	B	B
061-4	SPRING LAKE	44	151	3.5	137	91 A			\$946,100		A	E	A	E	B	B
062-1	SRQSPRINGS #16-21	100.5	554	5.5	478	86 A			\$2,295,200		A	E	A	E	B	B
062-2	TURTLE CREEK	36.7	32	0.9	31	97 A			\$403,900		B	A	A	E	B	B
063-1	SRQSPRINGS #11,13	71.0	220	3.1	172	78 A			\$1,434,100		A	E	A	E	B	B
063-2	SRQSPRINGS #12, 14 &15	125.4	451	3.6	435	96 A			\$2,900,300		A	E	A	E	B	B
068-1	KNOTTY PINE ESTS	30.2	25	0.8	24	96 A			\$219,600		B	A	E	E	B	B
068-2	QUAL TRACT EST.	5.8	14	2.4	13	93 A			\$140,700		B	E	E	E	B	B
069-1	SARASOTA HIGHLANDS	19.6	95	4.8	78	82 A			\$808,500		B	E	E	E	B	B
069-2	OAK WOODS	29.4	20	0.7	15	75 A			\$186,400		B	E	E	E	B	B
069-3	GREYMOSS EST.	7.5	11	1.5	7	64 A			\$46,400		B	E	E	E	B	B
070-1	MEADOWLAND	21.7	59	2.7	57	97 A			\$428,400		A	E	E	E	C	C
070-2	PINE MEADOW	22.0	66	3.0	66	100 A			\$695,000		A	A	E	E	C	C
071-1	SUNSET / SUNILAND	39.7	220	5.5	176	80 A			\$1,184,800	\$25,627	A	E	E	E	B	B
071-2	EVERGREEN PARK	35.0	87	2.5	85	98 A			\$701,300		A	E	E	E	B	B
071-3	BEE RIDGE (N)	12.7	30	2.4	28	93 A			\$321,100		A	A	E	E	B	B
071-4	FAIRLAND	20.0	90	4.5	71	79 A			\$628,400		A	A	E	E	B	B
072-1	HYDE PRK TER	39.2	140	3.6	111	79 A			\$1,143,200		A	E	C	E	B	B
072-2	GROVE PARK	25	104	4.2	96	92 A			\$423,600		A	E	E	E	B	B
072-3	HYMOUNT	62.7	223	3.6	207	93 A			\$1,548,000		A	E	C	E	C	C
072-4	GOLF ESTATES	65.6	228	3.5	148	65 A			\$1,404,900		A	E	E	E	B	B
072-5	MORNING GLORY	30.3	124	4.1	111	90 A			\$608,600		A	E	E	E	B	B

FILENAME=PHASE1.WK1

04-Nov-94

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Priority Criteria				Relative Location
											Septic Tank	Water Supply	Surface Water	Treat./ Disposal	
073-1	VIRGINIA HEIGHTS	19.8	100	5.1	78	78	A		\$652,500	\$46,950	A	E	A	A	B
073-2	FLORA VILLA	29.5	90	3.1	87	97	A		\$808,300		A	A	C	E	B
073-3	FLORA VILLA	29.7	90	3.0	87	97	A		\$753,900		A	E	A	E	B
074-1	WESLO WILLOW/PINERIDGE	37.2	104	2.8	83	80	D		\$699,800		A	E	A	A	A
074-2	BROOKSIDE	34.7	97	2.8	86	89	A		\$797,600		A	E	A	A	B
074-3	FOREST HILLS	25.6	81	3.2	70	86	A		\$681,100	\$10,987	A	E	A	A	B
074-4	TAMIAMI OAK	25.8	100	3.9	60	60	A		\$620,300	\$26,995	A	E	C	A	A
074-5	RIDGEWOOD (N)	53.0	136	2.6	119	88	A		\$1,064,300	\$9,961	A	E	A	A	C
075-1	RIDGEWOOD/HARBOR OAK	62.1	268	4.3	190	71	A		\$1,119,300		A	E	A	A	B
075-2	RIVERWOOD PARK	75.4	198	2.6	178	90	A		\$1,813,100		A	E	A	A	A
075-3	PHILLIPPOVE	132.6	311	2.3	303	97	A		\$1,976,000		A	E	A	A	B
076-1	SOUTH HIGHLAND	129.0	244	1.9	237	97	A		\$1,939,000	\$13,947	A	E	A	A	A
077-1	OYSTER BAY ESTSAWHIT AC	134.2	293	2.2	247	84	A		\$1,844,700	\$20,316	A	E	A	A	B
077-2	KIMLIRA	20.2	35	1.7	32	91	A		\$182,800		A	E	A	E	B
085-1	RIVER FOREST/CRECELIUS	87.7	174	2.0	163	94	A		\$1,200,800		A	E	A	A	B
085-2	LAS LOMAS/SUCCI'S SUB	76.6	200	2.6	196	98	A		\$1,139,900		A	E	A	A	B
085-3	PHILLIPPI CRST./RENNICK	107.1	341	3.2	292	83	A		\$2,590,400		A	A	A	A	B
086-1	PHILLIPPI GDNS.#4.8	34.6	93	2.7	88	95	A	1	\$711,300		A	E	A	A	C
086-2	PHILL. GARDENS 2.3.7	71.1	196	2.8	192	98	A	1	\$1,384,700		A	E	A	A	C
086-3	PHILL. GARDENS 5.6,14,15,16	50.9	153	3.0	149	97	A	1	\$1,135,600	\$10,128	A	E	A	E	C
087-1	SOUTHPOINT WOODS/T&C	58.2	177	3.0	164	93	A		\$1,259,600		A	E	A	E	B
087-2	ALL STATES & ASHTON PK	51.9	254	4.9	183	72	A		\$1,845,100		A	A	A	E	B
088-1	SUNHAVEN#2.5.6	67.4	255	3.8	215	84	A		\$1,846,900		A	A	E	E	B
089-1	PROCTOR OAK/FIREWOOD	16.7	22	1.3	15	68	A		\$113,300		E	E	E	E	B
089-2	TOWN OF BEE RIDGE(SW)	19.7	42	2.1	28	67	A		\$573,700		A	A	E	E	C
089-3	SAWYER PINE	48.9	61	1.2	61	100	A		\$625,300		A	A	E	E	B
089-4	BEE RIDGE (SE)	13.1	60	4.6	48	80	A		\$542,200		A	A	E	E	B
089-5	BENEVA PARK	13.7	35	2.6	35	100	A		\$350,700		B	A	C	E	B
090-1	SHADE AC/CLARK MEADOW	37.9	120	3.2	104	87	A		\$1,012,700		A	A	A	E	B
091-1	HOLLYWOOD GARDENS	61.8	158	2.6	147	93	A		\$1,382,300		B	A	E	E	C
091-2	BEE RIDGE & BLISS ESTS	58.3	52	0.9	51	98	A		\$791,600	\$51,385	B	A	E	E	B
093-1	CEDAR GROVE	20.9	90	4.3	72	80	A		\$583,700		B	E	E	E	C
099-1	CLARK LAKES	27.3	94	3.4	61	65	A	1	\$725,700		A	E	A	E	B
100-1	BENEVA OAKS	53.2	70	1.3	58	83	A		\$459,100		A	E	A	E	B
101-1	SUN HAVEN	61.4	282	4.6	260	92	A		\$1,797,500		B	A	A	E	B

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Septic Tank	Water Supply	Priority Criteria		
													Surface Water	Treat./ Disposal	Relative Location
101-2	PALM LAKES	41.9	145	3.5	139	96	A		\$1,288,100		B	A	A	E	B
103-1	DENHAM AC./STKNY.PT. PK.	52.9	191	3.6	179	94	A		\$1,475,800		A	A	A	E	B
105-1	AQUALANE EST/FLORENCE	69.1	276	4.0	206	75	A	1	\$1,515,500		A	E	A	A	B
109-1	BAYVIEW ACRES	47.8	187	3.9	171	91	A		\$1,626,200		A	E	A	E	B
109-2	PIRATES COVE	8.3	25	3.0	24	96	A		\$158,300		A	E	A	E	B
111-1	CORAL COVE	82.4	186	2.3	169	91	A		\$1,431,800		A	E	A	E	B
112-1	PINEHURST PARK	92.0	245	2.7	216	88	A		\$1,738,700	\$3,276	B	A	C	E	B
112-2	SOUTHPOINTE SHORES	48.2	84	1.7	84	100	A		\$683,400		A	E	A	E	B
125-1	HOLIDAY HARBOR	39.4	87	2.2	75	86	A		\$533,100		A	C	A	E	B
130-1	TROPICAL SHORES	52.4	169	3.2	160	95	A		\$1,158,000		A	E	A	A	C
130-2	VAMO 1&2/FISHERMAN'S	44.5	172	3.9	73	42	A		\$631,200		A	E	A	A	C
132-1	VAMO/MATTESONS	48.2	233	4.8	158	68	A		\$1,123,700	\$11,163	A	E	A	A	C
132-2	NORTH VAMOWRENS SUB	99.5	252	2.5	223	88	A		\$1,766,700		A	E	C	A	C
143-1	OSPREY VILLAGE	47.4	120	2.5	49	41	A		\$931,000		B	C	C	A	C
143-2	OSPREY PARK	82.8	343	4.1	181	53	A		\$2,283,900	\$22,338	B	A	C	A	C
147-1	BAY VIEW	15.1	27	1.8	27	100	A		\$311,100		B	A	A	A	C
148-1	BAY ACRES	51.4	97	1.9	69	71	A		\$878,600	\$69,146	B	A	C	A	C
148-2	HARM'S SUB	7.1	10	1.4	10	100	A		\$168,900		B	C	C	A	C
160-1	SORRENTO SHORES#4,5	110.9	171	1.5	116	68	A		\$960,400		A	E	A	A	A
161-1	CARNEY'S SUB	47.6	60	1.3	47	78	A		\$466,100		A	E	A	A	A
165-1	MARTINDALE	21.7	56	2.6	37	66	A		\$550,100	\$91,241	B	A	E	A	E
166-1	SORRENTO SOUTH #1,2,3	34.0	81	2.4	79	98	A		\$663,900		A	E	A	A	A
166-2	JESSE K. HILLS	60.4	106	1.8	95	90	A		\$740,200		B	A	C	A	E
167-1	THE LIMES/ROBERTS SUB	80.0	166	2.1	141	85	A		\$2,115,400		B	A	A	A	E
168-1	HAMPTON HEIGHTS	49.9	87	1.7	86	99	A		\$853,100		B	A	A	A	E
169-1	KILTON ESTATES	52.4	136	2.6	134	99	A		\$1,034,100		B	A	A	A	E
170-1	MT. PLEASANT/LAUREL HILL	85.3	327	3.8	160	49	A		\$2,405,500		A	A	E	A	E
171-1	WATERSIDE AC./JELK INLET	86.8	181	2.1	154	85	A		\$2,111,400		A	A	A	A	E
171-2	DONA BAY PK./CITRUS PK.	58.0	114	2.0	95	83	A		\$1,227,100	\$20,263	A	A	A	A	E
172-1	LYONS BAY / BAY POINT	127.4	345	2.7	327	95	A		\$3,646,100		B	A	A	A	E
172-2	BAY POINT / FOUR BAYS	82.0	147	1.8	135	92	A		\$1,113,700		B	A	A	A	E
172-3	OVERLOOK SUB./ROGOFF	24.1	21	0.9	21	100	A		\$340,100	\$3,549	B	A	A	A	E
234-1	SARASOTA GOLF CLUB	118.2	154	1.3	122	79	A		\$1,469,200	\$13,394	B	A	C	A	A
236-1	FIRETHORNE ESTS./S.G.C.	110.2	126	1.1	112	89	A		\$1,278,100		E	A	C	A	A
241-1	SARASOTA GOLF CLUB	88.1	149	1.7	119	80	A		\$1,479,700		B	A	A	A	A

FILENAME=PHASE1.WK4

04-Nov-94

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Project Area Acres	Location	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Priority Criteria				Relative Location
											Septic Tank	Water Supply	Surface Water	Treat./ Disposal	
241-2	102.4	ALLEN ESTATES	68	0.7	64	94	A		\$711,500		C	A	A	A	A
242-1	155	ANGUS ACRES/G.C.ESTS.	107	0.7	72	67	A		\$592,700		C	E	A	A	A
383-1	25.4	HIDDEN BAY ESTS.	43	1.7	25	58	A		\$457,000		B	A	A	A	C
384-1	69.2	VENICE BY-WAY/MARLAND	375	5.4	330	88	D		\$2,506,900		A	A	A	A	E
384-2	28.9	MOBILE CITY #2	92	3.2	85	92	D		\$934,800		B	A	A	A	E
384-3	58.0	MOBILE CITY #3/CURRY AC.	174	3.0	154	89	D		\$2,094,500		B	A	A	A	C
385-1	54.6	WATERFRONT ESTS. #2	39	0.7	27	69	A		\$592,800		B	A	A	A	C
386-1	48.3	GENEVA HEIGHTS	192	4.0	166	86	A		\$1,838,700		B	A	E	A	E
386-2	35.5	DUQUOIN HEIGHTS	110	3.1	73	66	A		\$1,152,900		B	A	C	A	C
403-1	69.5	NOKOMIS MANOR	220	3.2	189	86	A		\$2,137,100		A	A	A	A	E
405-1	41.1	MOBILE CITY #8/HERMOSA	83	2.0	59	71	D		\$1,111,200		A	A	A	A	E
405-2	64.6	NOKOMIS(AC.)/PT. OF PALMS	317	4.9	280	88	A		\$3,669,000		A	A	A	A	E
405-3	50.0	HERMOSA HEIGHTS	100	2.0	94	94	A		\$1,390,600		A	A	C	A	E
410-1	33.1	EAST VENICE	91	2.7	91	100	A		\$1,142,700		B	A	E	A	E
433-1	66.9	SOUTH VENICE #49 #50	151	2.3	99	66	A		\$1,528,700		A	A	A	A	B
434-1	88.8	SOUTH VENICE #46-48	245	2.8	194	79	A		\$2,374,900	\$37,171	A	A	A	A	B
436-1	68.6	SOUTH VENICE#57,58,60,61,63,65	193	2.8	157	81	A		\$1,790,800		A	A	E	A	B
436-2	61.1	SOUTH VENICE	162	2.7	142	88	A		\$1,775,600		A	A	E	A	B
436-3	57.2	SOUTH VENICE	136	2.4	131	96	A		\$1,718,500		A	A	E	A	B
449-1	60.5	SOUTH VENICE#32,59,62,64,66	175	2.9	143	82	A		\$1,970,200		A	A	A	A	B
449-2	99.8	SOUTH VENICE	327	3.3	225	69	A		\$2,803,000		A	A	A	A	B
449-3	54.7	SOUTH VENICE	175	3.2	126	72	A		\$1,596,800		A	A	A	A	B
450-1	74.2	VENICE GROVES	147	2.0	96	65	A		\$1,458,700	\$3,594	C	A	C	A	B
450-2	96.9	SOUTH VENICE #32,33,37	312	3.2	224	72	A		\$2,696,400	\$3,326	A	A	A	A	C
450-3	133.0	SOUTH VENICE#4,16,17	310	2.3	232	75	A		\$3,719,400	\$3,380	C	A	A	A	C
451-1	129.8	SOUTH VENICE#1,31,42,43	465	3.6	422	91	A		\$3,867,800		A	A	E	A	C
451-2	71.3	SOUTH VENICE#44,45	182	2.6	144	79	A		\$1,768,900		A	A	C	A	C
452-1	80.8	SOUTH VENICE#29,30	268	3.3	210	78	A		\$2,818,400		A	A	E	A	C
452-2	98.5	SOUTH VENICE#24,26,39	438	4.4	349	80	A		\$3,682,200		A	A	E	A	E
452-3	82.7	SOUTH VENICE#34,35	178	2.2	130	73	A		\$2,249,500		A	A	A	A	C
452-4	88.4	SOUTH VENICE#40,41	164	1.9	132	80	A		\$2,252,700		A	A	A	A	C
456-1	129.5	SOUTH VENICE#23,25,36	352	2.7	265	75	A		\$3,508,000		A	A	A	A	E
456-2	73.6	SOUTH VENICE#27,28	206	2.8	123	60	A		\$1,892,500		A	A	A	A	E
457-1	131.5	SOUTH VENICE SHORES	343	2.6	240	70	A		\$3,401,500		A	A	A	A	E
458-1	146.9	SOUTH VENICE#1,2,3,14	501	3.4	378	75	A		\$4,514,300	\$18,546	A	A	C	A	C

FILENAME=PHASE1.WK4

04-Nov-94

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Priority Criteria				Relative Location
											Septic Tank	Water Supply	Surface Water	Treat/Disposal	
459-1	SOUTH VENICE#5,6,18,19,74	134.1	450	3.4	329	73	A		\$4,176,200		A	A	A	A	E
459-2	SOUTH VENICE#7-10	135.2	412	3.0	262	64	A		\$3,607,000		A	A	E	E	C
459-3	SOUTH VENICE#11-13,51,75	169.1	455	2.7	353	78	A		\$4,174,100		A	A	E	E	A
470-1	SOUTH VENICE	72.7	225	3.1	161	72	A		\$2,069,800		A	A	E	E	B
471-1	FLORIDA TROPICAL HOMESITES	148.4	134	0.9	77	57	A		\$1,181,200		A	A	A	A	B
471-2	GULF VIEW ESTATES	102.9	290	2.8	214	74	A		\$1,142,300		A	E	A	A	B
472-1	SOUTH VENICE#52,54,55,67	82.1	227	2.8	168	74	A		\$2,108,800		A	A	E	A	C
472-2	SOUTH VENICE	44.0	112	2.5	69	62	A		\$1,329,300		A	A	E	A	C
472-3	SOUTH VENICE	55.3	173	3.1	82	47	A		\$1,741,100		A	A	C	A	C
472-4	SOUTH VENICE	64.3	167	2.6	99	59	A		\$1,780,000		A	A	E	A	C
473-1	MOUNT ACRES	43.0	124	2.9	53	43	A		\$1,182,200		A	A	C	A	C
473-2	S.VENICE#69,69/MANASOTA	90.5	321	3.5	146	45	A		\$2,895,100	\$72,695	A	A	E	A	C
475-1	MANASOTA GARDENS	136.6	189	1.4	146	77	A	1	\$1,044,700	\$6,296	B	E	C	E	B
475-2	MANASOTA GARDENS	62.6	48	0.8	27	56	A	1	\$300,000		B	E	A	E	B
476-1	MANASOTA LUMBER CO.	94.3	159	1.7	64	40	A	1	\$686,700		B	E	A	E	B
477-1	MANASOTA MANOR	28.2	53	1.9	43	81	A	1	\$272,800		B	E	C	E	B
477-2	DALELAKE/ANDERSON	59.6	64	1.1	41	64	A	1	\$454,400		B	E	A	A	C
478-1	THOMAS HEASLEY SUB	39.5	52	1.3	41	79	A	1	\$279,300	\$55,294	B	E	C	E	B
478-2	BLUE DOLPHIN ESTS	34.2	30	0.9	27	90	A	1	\$177,000		B	E	E	E	B
478-3	GULF COAST GROVES	59.9	17	0.3	17	100	A	1	\$127,100		B	E	A	E	C
485-1	ENGLEWOOD PINES	62.6	42	0.7	42	100	A	1	\$291,500	\$19,245	B	E	C	A	B
485-2	BARTLETT/OVERBROOK	90.6	184	2.0	148	80	A	1	\$1,182,900		B	E	A	A	B
487-1	TANGELO PK./ENGLEWOOD GDNS	299.0	190	0.6	148	78	A	1	\$1,131,700		B	E	A	A	B
487-2	SMITH AC./OVERBROOK	100.7	250	2.5	223	89	A	1	\$2,082,700		B	E	A	A	B
487-3	OVERBROOK GARDENS	46.5	114	2.5	103	90	A	1	\$785,300		B	E	A	A	B
488-1	ENGLEWOOD GARDENS	89.5	64	0.7	50	78	A	1	\$371,100		B	E	A	A	B
492-1	ENGLEWOOD GRDNS#3	190.7	90	0.5	88	98	A	1	\$593,100		B	E	A	A	B
492-2	DIANE SUB/SPANISH WELLS	69.1	48	0.7	44	92	A	1	\$347,700		B	E	E	A	C
493-1	BAY VISTA BLVD	68.7	133	1.9	120	90	A	1	\$999,200		B	E	C	A	B
493-2	BAY VISTA / ANDERSON	54.4	160	2.9	105	66	A	1	\$826,700		B	E	C	A	B
494-1	PINE LAKE	36.6	89	2.4	70	79	A	1	\$923,400	\$6,342	E	E	A	E	B
495-1	PINE LAKE/BAYVIEW ESTS.	76.4	184	2.4	150	82	A	1	\$1,469,800		B	E	C	E	C
495-2	SANDALWOOD/LEMON BAY	103.3	187	1.8	140	75	A	1	\$1,296,900		B	E	A	E	B
496-1	HARTER/PARK FOREST SUB	58.1	98	1.7	73	74	A	1	\$593,200		B	E	A	E	C
496-2	PINE GLEN	27.8	48	1.7	39	81	A	1	\$336,000		B	E	A	E	C

FILENAME=PHASE1.WK4

04-Nov-94

TABLE 5-2
PROJECT INFORMATION INPUT
SARASOTA COUNTY

Project Number	Location	Project Area Acres	Total Units	Density Units/Ac.	Number Existing Units	Percent Buildout	Type Develop.	Franchise Water 1 if Yes	Estimated Project Cost	Estimated Ann. Rev. Other	Septic Tank	Priority Criteria			Relative Location	
												Water Supply	Surface Water	Treat./ Disposal		
497-1	SOUTHWIND HARBOR	87.1	282	3.2	251	89 A	A	1	\$1,510,500	\$8,014	A	E	A	E	C	
497-2	LAMPPS SUB/PERRONE	96.0	187	1.9	150	80 A	A	1	\$936,000		A	E	C	E	C	
497-3	PLAT OF ENGLEWOOD	30.8	78	2.5	70	90 A	A		\$468,000	\$9,286	B	A	C	E	B	
497-4	LASBURY PINE ACRES	65.2	186	2.9	129	69 A	A	1	\$914,800	\$3,791	A	E	C	E	C	
498-2	ENGLEWOOD HOMEACRES	46.5	126	2.7	66	52 A	A	1	\$640,100		B	E	A	E	C	
503-1	ENGLEWOOD PK./PALM GR.	95.6	299	3.1	201	67 A	A	1	\$1,635,800		A	E	A	E	E	
503-2	ALLENWOOD/PINE HAVEN	71.7	234	3.3	205	88 A	A	1	\$1,516,600		A	E	C	E	E	
504-1	BRUCEWOOD BAYOU	77.2	208	2.7	151	73 A	A	1	\$1,599,200		A	E	A	A	B	
852-1	LAKEVIEW TER/CREEKLANE	43.6	113	2.6	94	83 A	A	1	\$740,900		A	E	A	A	B	
852-2	ENGLEWOOD GARDENS#1	111.8	20	0.2	15	75 A	A	1	\$190,400		A	E	A	A	B	
852-3	LAKEVIEW	84.9	210	2.5	176	84 A	A	1	\$1,643,200		A	E	A	A	B	
853-1	DEER CREEK PARK	63.7	260	4.1	197	76 A	A	1	\$1,455,600	\$18,775	A	E	A	A	B	
853-2	ENGLEWOOD GRDNS. #1,2	113.6	140	1.2	115	82 A	A	1	\$747,400		A	E	A	A	B	
854-1	HORTON ESTS/BAYVIEW	74.1	246	3.3	184	75 A	A	1	\$1,282,900		A	E	C	A	B	
854-2	HIGHPOINT/DEERCREEK	64.1	242	3.8	90	37 A	A	1	\$1,280,100	\$17,744	A	E	A	A	B	
854-3	PINELAND SUB/SMITHFIELD	90.7	224	2.5	123	55 A	A	1	\$960,300		A	E	A	E	B	
TOTAL		14757.3	37341		30188	81%			\$288,797,700							RANGE = TABLE

FILENAME=PHASE1.WK4

04-Nov-94

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
018-1	RAVENWOOD	\$50,065	\$38,420		\$88,485	\$6,821	7.7
019-1	DESOTOLAKES	\$260,927	\$200,236		\$461,163	\$7,229	7.7
021-1	DESOTO LAKES	\$101,897	\$78,196		\$180,093	\$7,389	8.0
029-1	BEVERLY TERR	\$100,130	\$76,840	\$51,859	\$228,829	\$7,835	8.9
030-1	SWAAN ACRES	\$4,123	\$3,164		\$7,287	\$8,414	14.1
030-2	TOBERO WOODS	\$8,246	\$6,328		\$14,574	\$11,057	13.6
031-1	HIDEN FOREST	\$39,463	\$30,284		\$69,747	\$7,857	8.3
038-1	COFFMAN MANOR	\$95,418	\$73,224		\$168,642	\$7,438	11.3
040-1	SLAUBAUGH	\$6,479	\$4,972		\$11,451	\$11,558	12.1
040-2	FREEMAN RIDGE	\$8,246	\$6,328		\$14,574	\$12,443	12.0
042-1	LEISURE LAKES	\$63,612	\$48,816		\$112,428	\$7,971	7.7
043-1	LORRAINE/BOOKER PL	\$104,842	\$80,456		\$185,298	\$6,250	9.1
043-2	LENRAY HTS.	\$112,499	\$86,332		\$198,831	\$6,110	10.5
043-3	HOMEWOOD HTS.	\$34,162	\$26,216		\$60,378	\$4,731	12.7
044-1	HOMEDALE/TANGLED OAK	\$72,216	\$55,080	\$48,814	\$176,110	\$7,448	9.6
044-2	CEDAR HAMMOCK	\$37,107	\$28,476		\$65,583	\$6,230	6.0
044-3	THE WOODLANDS	\$10,602	\$8,136		\$18,738	\$6,695	10.5
045-1	SHERWOOD ESTATES	\$67,968	\$51,840	\$7,029	\$126,837	\$5,654	13.7
045-2	CEDAR HOLLOW	\$136,648	\$104,864		\$241,512	\$7,208	7.0
046-1	RELLIM LANE	\$4,123	\$3,164		\$7,287	\$5,844	12.5
047-1	GREEN ACRES	\$67,146	\$51,528	\$1,877	\$120,551	\$7,574	10.0
048-1	CRESTLINE	\$67,146	\$51,528		\$118,674	\$4,883	8.8
048-2	BROADWAY	\$74,214	\$56,952		\$131,166	\$5,231	10.4
048-3	HIGHLAND CREST	\$68,324	\$52,432		\$120,756	\$5,418	6.9
048-4	PALMER FARMS 2ND UNIT	\$53,010	\$40,680		\$93,690	\$6,975	8.2
049-1	WOODLAND HOMES	\$36,518	\$28,024		\$64,542	\$5,650	13.0
050-1	PLEASANT ESTATES	\$25,916	\$19,888		\$45,804	\$7,050	8.6
051-1	TURTLE CREEK/TORREYA	\$53,599	\$41,132		\$94,731	\$6,145	15.6
051-2	HIDDEN OAKS ESTS	\$18,848	\$14,464		\$33,312	\$8,809	8.7
052-1	TARA VISTA/ BAHIA VISTA	\$6,479	\$4,972	\$71,090	\$82,541	\$9,619	1.9
052-2	NOTTINGHAM	\$90,117	\$69,156		\$159,273	\$5,925	5.9
054-1	HEMOCROFT (NE1/4)	\$103,664	\$79,552	\$31,593	\$214,809	\$5,715	4.7
054-2	OAKSHORES	\$107,787	\$82,716	\$13,505	\$204,008	\$6,713	9.2
055-1	PINECRAFT	\$116,622	\$89,496	\$5,508	\$211,626	\$4,305	4.5
055-2	HEMOCROFT	\$126,046	\$96,728		\$222,774	\$3,786	3.7
055-3	RIO VISTA	\$91,295	\$70,060		\$161,355	\$5,397	9.4
055-4	ALOHA TR. CITY	\$91,080	\$66,792		\$157,872	\$3,487	5.6
056-1	SUNNYSIDE PARK	\$201,438	\$154,584		\$356,022	\$6,715	7.0

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
057-1	ORANGE PARK GARDENS	\$123,101	\$94,468		\$217,569	\$7,732	8.1
057-2	SOUTHGATE # 5, 6, &8	\$133,703	\$102,604		\$236,307	\$6,297	6.2
057-3	LONGMEADOW/SGATE #2	\$111,321	\$85,428		\$196,749	\$5,643	5.5
058-1	SOUTHGATE #20, 33, &34	\$51,243	\$39,324		\$90,567	\$8,162	7.8
058-2	SOUTHGATE#21,22,23,26,27	\$111,910	\$85,880		\$197,790	\$5,804	5.9
060-1	PURSELL AC/SRQSPRINGS	\$108,965	\$83,620		\$192,585	\$4,807	5.1
060-2	SRQSPRINGS # 7&9	\$222,053	\$170,404		\$392,457	\$6,686	7.3
060-3	ORANGE GROVE PARK	\$101,897	\$78,196		\$180,093	\$6,058	6.4
061-1	SRQSPRINGS/PAYNE AC.	\$248,558	\$190,744		\$439,302	\$5,866	6.4
061-2	FOREST LAKES #1&2	\$51,832	\$39,776		\$91,608	\$5,610	6.4
061-3	SOUTHERN VIEW	\$49,476	\$37,968		\$87,444	\$5,113	5.4
061-4	SPRING LAKE	\$80,693	\$61,924		\$142,617	\$6,266	6.6
062-1	SRQSPRINGS #16-21	\$281,542	\$216,056		\$497,598	\$4,143	4.6
062-2	TURTLE CREEK	\$18,259	\$14,012		\$32,271	\$8,744	12.5
063-1	SRQSPRINGS #11,13	\$101,308	\$77,744		\$179,052	\$6,519	8.0
063-2	SRQSPRINGS #12, 14 &15	\$256,215	\$196,620		\$452,835	\$6,431	6.4
068-1	KNOTTY PINE ESTS	\$14,136	\$10,848		\$24,984	\$8,784	8.8
068-2	QUAL TRACT EST.	\$7,657	\$5,876		\$13,533	\$10,050	10.4
069-1	SARASOTA HIGHLANDS	\$45,942	\$35,256		\$81,198	\$6,377	10.0
069-2	OAK WOODS	\$8,835	\$6,780		\$15,615	\$9,320	11.9
069-3	GREYMOSS EST.	\$4,123	\$3,164		\$7,287	\$4,218	6.4
070-1	MEADOWLAND	\$33,573	\$25,764		\$59,337	\$7,261	7.2
070-2	PINE MEADOW	\$38,874	\$29,832		\$68,706	\$8,265	10.1
071-1	SUNSET / SUNILAND	\$103,664	\$79,552	\$25,627	\$208,843	\$5,385	5.7
071-2	EVERGREEN PARK	\$50,065	\$38,420		\$88,485	\$6,945	7.9
071-3	BEE RIDGE (N)	\$16,492	\$12,656		\$29,148	\$8,110	11.0
071-4	FAIRLAND	\$41,819	\$32,092		\$73,911	\$5,958	8.5
072-1	HYDE PRK TER	\$65,379	\$50,172		\$115,551	\$7,471	9.9
072-2	GROVE PARK	\$56,544	\$43,392		\$99,936	\$3,480	4.2
072-3	HYMOUNT	\$121,923	\$93,564		\$215,487	\$6,942	7.2
072-4	GOLF ESTATES	\$87,172	\$66,896		\$154,068	\$6,162	9.1
072-5	MORNING GLORY	\$65,379	\$50,172		\$115,551	\$4,908	5.3
073-1	VIRGINIA HEIGHTS	\$45,942	\$35,256	\$46,950	\$128,148	\$6,525	5.1
073-2	FLORA VILLA	\$51,243	\$39,324		\$90,567	\$7,682	8.9
073-3	FLORA VILLA	\$51,243	\$39,324		\$90,567	\$7,608	8.3
074-1	WESLO WILLOW/PINERIDGE	\$29,880	\$21,912		\$51,792	\$6,729	13.5
074-2	BROOKSIDE	\$50,654	\$38,872		\$89,526	\$8,223	8.9
074-3	FOREST HILLS	\$41,230	\$31,640	\$10,987	\$83,857	\$7,499	8.1

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
074-4	TAMIAMI OAK	\$35,340	\$27,120	\$26,995	\$89,455	\$6,203	6.9
074-5	RIDGEWOOD (N)	\$70,091	\$53,788	\$9,961	\$133,840	\$7,826	8.0
075-1	RIDGEWOOD/HARBOR OAK	\$111,910	\$85,880		\$197,790	\$4,176	5.7
075-2	RIVERWOOD PARK	\$104,842	\$80,456		\$185,298	\$9,157	9.8
075-3	PHILLIPPI COVE	\$178,467	\$136,956		\$315,423	\$6,354	6.3
076-1	SOUTH HIGHLAND	\$139,593	\$107,124	\$13,947	\$260,664	\$7,947	7.4
077-1	OYSTER BAY ESTS/WHIT AC	\$145,483	\$111,644	\$20,316	\$277,443	\$6,296	6.6
077-2	KIMLIRA	\$18,848	\$14,464		\$33,312	\$5,223	5.5
085-1	RIVER FOREST/CRECELIUS	\$96,007	\$73,676		\$169,683	\$6,901	7.1
085-2	LAS LOMAS/SUCCI'S SUB	\$115,444	\$88,592		\$204,036	\$5,700	5.6
085-3	PHILLIPPI CRST./RENNICK	\$166,098	\$127,464		\$293,562	\$6,606	8.8
086-1	PHILLIPPI GDNS.#4,8	\$51,832			\$51,832	\$7,648	13.7
086-2	PHILL. GARDENS 2,3,7	\$113,088			\$113,088	\$7,065	12.2
086-3	PHILL. GARDENS 5,6,14,15,16	\$87,761		\$10,128	\$97,889	\$7,422	11.6
087-1	SOUTHPOINT WOODS/T&C	\$96,596	\$74,128		\$170,724	\$7,116	7.4
087-2	ALL STATES & ASHTON PK	\$107,787	\$82,716		\$190,503	\$6,430	9.7
088-1	SUNHAVEN#2,5,6	\$126,635	\$97,180		\$223,815	\$5,583	8.3
089-1	PROCTOR OAK/FIREWOOD	\$8,835	\$6,780		\$15,615	\$4,368	7.3
089-2	TOWN OF BEE RIDGE(SW)	\$16,492	\$12,656		\$29,148	\$10,395	19.7
089-3	SAWYER PINE	\$35,929	\$27,572		\$63,501	\$10,251	9.8
089-4	BEE RIDGE (SE)	\$28,272	\$21,696		\$49,968	\$7,448	10.9
089-5	BENEVA PARK	\$20,615	\$15,820		\$36,435	\$8,314	9.6
090-1	SHADE AC/CLARK MEADOW	\$61,256	\$47,008		\$108,264	\$8,104	9.4
091-1	HOLLYWOOD GARDENS	\$86,583	\$66,444		\$153,027	\$6,533	9.0
091-2	BEE RIDGE & BLISS ESTS	\$30,039	\$23,052	\$51,385	\$104,476	\$9,210	7.6
093-1	CEDAR GROVE	\$42,408	\$32,544		\$74,952	\$5,611	7.8
099-1	CLARK LAKES	\$35,929			\$35,929	\$7,720	20.2
100-1	BENEVA OAKS	\$34,162	\$26,216		\$60,378	\$6,559	7.6
101-1	SUN HAVEN	\$153,140	\$117,520		\$270,660	\$4,996	6.6
101-2	PALM LAKES	\$81,871	\$62,828		\$144,699	\$6,953	8.9
103-1	DENHAM AC./STKNY.PT. PK.	\$105,431	\$80,908		\$186,339	\$6,616	7.9
105-1	AQUALANE EST/FLORENCE	\$121,334			\$121,334	\$5,491	12.5
109-1	BAYVIEW ACRES	\$100,719	\$77,292		\$178,011	\$8,696	9.1
109-2	PIRATES COVE	\$14,136	\$10,848		\$24,984	\$6,332	6.3
111-1	CORAL COVE	\$99,541	\$76,388		\$175,929	\$7,698	8.1
112-1	PINEHURST PARK	\$127,224	\$97,632	\$3,276	\$228,132	\$7,097	7.6
112-2	SOUTHPOINTE SHORES	\$49,476	\$37,968		\$87,444	\$8,136	7.8
125-1	HOLIDAY HARBOR	\$44,175	\$33,900		\$78,075	\$6,128	6.8

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
130-1	TROPICAL SHORES	\$94,240	\$72,320		\$166,560	\$6,852	7.0
130-2	VAMO 1&2/FISHERMAN'S	\$42,997	\$32,996		\$75,993	\$3,670	8.3
132-1	VAMO/MATTESONS	\$93,062	\$71,416	\$11,163	\$175,641	\$4,823	6.4
132-2	NORTH VAMOWRENS SUB	\$131,347	\$100,796		\$232,143	\$6,066	7.6
143-1	OSPREY VILLAGE	\$28,861	\$22,148		\$51,009	\$6,444	18.3
143-2	OSPREY PARK	\$106,609	\$81,812	\$22,338	\$210,759	\$4,901	10.8
147-1	BAY VIEW	\$15,903	\$12,204		\$28,107	\$8,856	11.1
148-1	BAY ACRES	\$40,641	\$31,188	\$69,146	\$140,975	\$9,058	6.2
148-2	HARM'S SUB	\$5,890	\$4,520		\$10,410	\$13,490	16.2
160-1	SORRENTO SHORES#4,5	\$68,324	\$52,432		\$120,756	\$5,616	8.0
161-1	CARNEY'S SUB	\$27,683	\$21,244		\$48,927	\$7,768	9.5
165-1	MARTINDALE	\$21,793	\$16,724	\$91,241	\$129,758	\$6,477	4.2
166-1	SORRENTO SOUTH #1,2,3	\$46,531	\$35,708		\$82,239	\$8,196	8.1
166-2	JESSE K. HILLS	\$55,955	\$42,940		\$98,895	\$4,901	7.5
167-1	THE LIMES/ROBERTS SUB	\$83,049	\$63,732		\$146,781	\$9,439	14.4
168-1	HAMPTON HEIGHTS	\$50,654	\$38,872		\$89,526	\$7,172	9.5
169-1	KILTON ESTATES	\$78,926	\$60,568		\$139,494	\$5,771	7.4
170-1	MT. PLEASANT/LAUREL HILL	\$94,240	\$72,320		\$166,560	\$5,408	14.4
171-1	WATERSIDE AC./ELK INLET	\$90,706	\$69,608		\$160,314	\$8,130	13.2
171-2	DONA BAY PK./CITRUS PK.	\$55,955	\$42,940	\$20,263	\$119,158	\$7,843	10.3
172-1	LYONS BAY / BAY POINT	\$192,603	\$147,804		\$340,407	\$7,715	10.7
172-2	BAY POINT / FOUR BAYS	\$79,515	\$61,020		\$140,535	\$4,975	7.9
172-3	OVERLOOK SUB / ROGOFF	\$12,369	\$9,492	\$3,549	\$25,410	\$7,652	13.4
234-1	SARASOTA GOLF CLUB	\$71,858	\$55,144	\$13,394	\$140,396	\$6,172	10.5
236-1	FIRETHORNE ESTS./S.G.C.	\$65,968	\$50,624		\$116,592	\$6,866	11.0
241-1	SARASOTA GOLF CLUB	\$70,091	\$53,788		\$123,879	\$7,398	11.9
241-2	ALLEN ESTATES	\$37,696	\$28,928		\$66,624	\$6,150	10.7
242-1	ANGUS ACRES/ G.C.ESTS.	\$42,408	\$32,544		\$74,952	\$5,539	7.9
383-1	HIDDEN BAY ESTS.	\$14,725	\$11,300		\$26,025	\$6,830	17.6
384-1	VENICE BY-WAY/MARLAND	\$118,800	\$87,120		\$205,920	\$4,786	12.2
384-2	MOBILE CITY #2	\$30,600	\$22,440		\$53,040	\$7,540	17.6
384-3	MOBILE CITY #3/CURRY AC.	\$55,440	\$40,656		\$96,096	\$8,839	21.8
385-1	WATERFRONT ESTS. #2	\$15,903	\$12,204		\$28,107	\$9,156	21.1
386-1	GENEVA HEIGHTS	\$97,774	\$75,032		\$172,806	\$6,923	10.6
386-2	DUQUOIN HEIGHTS	\$42,997	\$32,996		\$75,993	\$7,865	15.2
403-1	NOKOMIS MANOR	\$111,321	\$85,428		\$196,749	\$7,129	10.9
405-1	MOBILE CITY #8/HERMOSA	\$21,240	\$15,576		\$36,816	\$9,667	30.2
405-2	NOKOMIS(AC.)/PT. OF PALMS	\$164,920	\$126,560		\$291,480	\$8,584	12.6

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
405-3	HERMOSA HEIGHTS	\$55,366	\$42,488		\$97,854	\$10,230	14.2
410-1	EAST VENICE	\$53,599	\$41,132		\$94,731	\$9,421	12.1
433-1	SOUTH VENICE #49,#50	\$58,311	\$44,748		\$103,059	\$7,215	14.8
434-1	SOUTH VENICE #46-48	\$114,266	\$87,688	\$37,171	\$239,125	\$6,673	9.9
436-1	SOUTH VENICE#57,58,60,61,63,65	\$92,473	\$70,964		\$163,437	\$6,439	11.0
436-2	SOUTH VENICE	\$83,638	\$64,184		\$147,822	\$8,034	12.0
436-3	SOUTH VENICE	\$77,159	\$59,212		\$136,371	\$8,915	12.6
449-1	SOUTH VENICE#32,59,62,64,66	\$84,227	\$64,636		\$148,863	\$8,355	13.2
449-2	SOUTH VENICE	\$132,525	\$101,700		\$234,225	\$6,219	12.0
449-3	SOUTH VENICE	\$74,214	\$56,952		\$131,166	\$6,774	12.2
450-1	VENICE GROVES	\$56,544	\$43,392	\$3,594	\$103,530	\$6,824	14.1
450-2	SOUTH VENICE #32,33,37	\$131,936	\$101,248	\$3,326	\$236,510	\$6,345	11.4
450-3	SOUTH VENICE#4,16,17	\$136,648	\$104,864	\$3,380	\$244,892	\$8,471	15.2
451-1	SOUTH VENICE#1,31,42,43	\$248,558	\$190,744		\$439,302	\$5,940	8.8
451-2	SOUTH VENICE#44,45	\$84,816	\$65,088		\$149,904	\$6,696	11.8
452-1	SOUTH VENICE#29,30	\$123,690	\$94,920		\$218,610	\$7,675	12.9
452-2	SOUTH VENICE#24,26,39	\$205,561	\$157,748		\$363,309	\$5,945	10.1
452-3	SOUTH VENICE#34,35	\$76,570	\$58,760		\$135,330	\$8,852	16.6
452-4	SOUTH VENICE#40,41	\$77,748	\$59,664		\$137,412	\$10,177	16.4
456-1	SOUTH VENICE#23,25,36	\$156,085	\$119,780		\$275,865	\$7,017	12.7
456-2	SOUTH VENICE#27,28	\$72,447	\$55,596		\$128,043	\$6,761	14.8
457-1	SOUTH VENICE SHORES	\$141,360	\$108,480		\$249,840	\$7,330	13.6
458-1	SOUTH VENICE31,2,3,14	\$222,642	\$170,856	\$18,546	\$412,044	\$6,360	11.0
459-1	SOUTH VENICE#5,6,18,19,74	\$193,781	\$148,708		\$342,489	\$6,417	12.2
459-2	SOUTH VENICE#7-10	\$154,318	\$118,424		\$272,742	\$6,450	13.2
459-3	SOUTH VENICE#11-13,51,75	\$207,917	\$159,556		\$367,473	\$6,609	11.4
470-1	SOUTH VENICE	\$94,829	\$72,772		\$167,601	\$6,771	12.3
471-1	FLORIDA TROPICAL HOMESITES	\$45,353	\$34,804		\$80,157	\$5,394	14.7
471-2	GULF VIEW ESTATES	\$126,046	\$96,728		\$222,774	\$3,939	5.1
472-1	SOUTH VENICE#52,54,55,67	\$98,952	\$75,936		\$174,888	\$6,890	12.1
472-2	SOUTH VENICE	\$40,641	\$31,188		\$71,829	\$8,773	18.5
472-3	SOUTH VENICE	\$48,298	\$37,064		\$85,362	\$7,073	20.4
472-4	SOUTH VENICE	\$58,311	\$44,748		\$103,059	\$7,531	17.3
473-1	MOUNT ACRES	\$31,217	\$23,956		\$55,173	\$6,650	21.4
473-2	S.VENICE#69,69/MANASOTA	\$85,994	\$65,992	\$72,695	\$224,681	\$6,476	12.9
475-1	MANASOTA GARDENS	\$85,994		\$6,296	\$92,290	\$5,528	11.3
475-2	MANASOTA GARDENS	\$15,903			\$15,903	\$6,250	18.9
476-1	MANASOTA LUMBER CO.	\$37,696			\$37,696	\$4,319	18.2

**TABLE 5-3
FINANCIAL CRITERIA CALCULATIONS**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Estimated Ann. Rev. Sewer	Estimated Ann. Rev. Water	Estimated Ann. Revs. Other	Total Est. Annual Proj Revenues	Collection System Cost / Unit	Ratio Proj. Cost to Ann. Rev.
477-1	MANASOTA MANOR	\$25,327			\$25,327	\$5,147	10.8
477-2	DALELAKE/ANDERSON	\$24,149			\$24,149	\$7,100	18.8
478-1	THOMAS HEASLEY SUB	\$24,149		\$55,294	\$79,443	\$5,371	3.5
478-2	BLUE DOLPHIN ESTS	\$15,903			\$15,903	\$5,900	11.1
478-3	GULF COAST GROVES	\$10,013			\$10,013	\$7,476	12.7
485-1	ENGLEWOOD PINES	\$24,738		\$19,245	\$43,983	\$6,940	6.6
485-2	BARTLETT/OVERBROOK	\$87,172			\$87,172	\$6,429	13.6
487-1	TANGELO PK./ENGLEWOOD GDNS	\$87,172			\$87,172	\$5,956	13.0
487-2	SMITH AC./OVERBROOK	\$131,347			\$131,347	\$8,331	15.9
487-3	OVERBROOK GARDENS	\$60,667			\$60,667	\$6,889	12.9
488-1	ENGLEWOOD GARDENS	\$29,450			\$29,450	\$5,798	12.6
492-1	ENGLEWOOD GRDNS#3	\$51,832			\$51,832	\$6,590	11.4
492-2	DIANE SUB/SPANISH WELLS	\$25,916			\$25,916	\$7,244	13.4
493-1	BAY VISTA BLVD	\$70,680			\$70,680	\$7,513	14.1
493-2	BAY VISTA / ANDERSON	\$61,845			\$61,845	\$5,167	13.4
494-1	PINE LAKE	\$41,230		\$6,342	\$47,572	\$10,375	19.4
495-1	PINE LAKE/BAYVIEW ESTS.	\$88,350			\$88,350	\$7,988	16.6
495-2	SANDALWOOD/LEMON BAY	\$82,460			\$82,460	\$6,935	15.7
496-1	HARTER/PARK FOREST SUB	\$42,997			\$42,997	\$6,053	13.8
496-2	PINE GLEN	\$22,971			\$22,971	\$7,000	14.6
497-1	SOUTHWIND HARBOR	\$147,839		\$8,014	\$155,853	\$5,356	9.7
497-2	LAMPPS SUB/PERRONE	\$88,350			\$88,350	\$5,005	10.6
497-3	PLAT OF ENGLEWOOD	\$41,230	\$31,640	\$9,286	\$82,156	\$6,000	5.7
497-4	LASBURY PINE ACRES	\$75,981		\$3,791	\$79,772	\$4,918	11.5
498-2	ENGLEWOOD HOMEACRES	\$38,874			\$38,874	\$5,080	16.5
503-1	ENGLEWOOD PK./PALM GR.	\$118,389			\$118,389	\$5,471	13.8
503-2	ALLENWOOD/PINE HAVEN	\$120,745			\$120,745	\$6,481	12.6
504-1	BRUCEWOOD BAYOU	\$88,939			\$88,939	\$7,688	18.0
852-1	LAKEVIEW TER/CREEKLANE	\$55,366			\$55,366	\$6,557	13.4
852-2	ENGLEWOOD GARDENS#1	\$8,835			\$8,835	\$9,520	21.6
852-3	LAKEVIEW	\$103,664			\$103,664	\$7,825	15.9
853-1	DEER CREEK PARK	\$116,033		\$18,775	\$134,808	\$5,598	10.8
853-2	ENGLEWOOD GRDNS. #1,2	\$67,735			\$67,735	\$5,339	11.0
854-1	HORTON ESTS/BAYVIEW	\$108,376			\$108,376	\$5,215	11.8
854-2	HIGHPOINT/DEERCREEK	\$53,010		\$17,744	\$70,754	\$5,290	18.1
854-3	PINELAND SUB/SMITHFIELD	\$72,447			\$72,447	\$4,287	13.3

Range = TABLE4

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
018-1	RAVENWOOD	6	8	10		24	2
019-1	DESOTOLAKES	8	8	2		18	5
021-1	DESOTO LAKES	8	6	2		16	5
029-1	BEVERLY TERR	10	2	2	WWTP	14	5
030-1	SWAAN ACRES	8	2	10		20	4
030-2	TOBERO WOODS	8	2	10		20	4
031-1	HIDEN FOREST	6	6	2		14	5
038-1	COFFMAN MANOR	10	4	10	NEP	24	2
040-1	SLAUBAUGH	8	2	10	WWTP	20	4
040-2	FREEMAN RIDGE	8	2	10		20	4
042-1	LEISURE LAKES	10	8	10		28	1
043-1	LORRAINE/BOOKER PL	10	6	10	WWTP	26	1
043-2	LENRAY HTS.	10	4	10		24	2
043-3	HOMWOOD HTS.	10	4	10		24	2
044-1	HOMEDALE/TANGLED OAK	10	6	10		26	1
044-2	CEDAR HAMMOCK	8	10	10		28	1
044-3	THE WOODLANDS	8	4	10		22	3
045-1	SHERWOOD ESTATES	8	4	2		14	5
045-2	CEDAR HOLLOW	6	8	2	WWTP	16	5
046-1	RELLIM LANE	8	4	10		22	3
047-1	GREEN ACRES	8	6	2	WWTP	16	5
048-1	CRESTLINE	8	8	2		18	5
048-2	BROADWAY	8	6	2		16	5
048-3	HIGHLAND CREST	10	10	2		22	3
048-4	PALMER FARMS 2ND UNIT	8	6	2		16	5
049-1	WOODLAND HOMES	6	4	2		12	5
050-1	PLEASANT ESTATES	8	6	2		16	5
051-1	TURTLE CREEK/TORREYA	6	2	2		10	5
051-2	HIDDEN OAKS ESTS	8	4	2		14	5
052-1	TARA VISTA/ BAHIA VISTA	6	8	2		16	5
052-2	NOTTINGHAM	6	10	2	WWTP	18	5
054-1	HEMOCROFT (NE1/4)	10	10	10	WWTP/NEP	30	1
054-2	OAKSHORES	10	6	10	WWTP/NEP	26	1
055-1	PINECRAFT	10	10	10	WWTP/NEP	30	1
055-2	HEMOCROFT	10	10	10	NEP	30	1

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
055-3	RIO VISTA	10	8	10	NEP	28	1
055-4	ALOHA TR. CITY	10	10	10	NEP	30	1
056-1	SUNNYSIDE PARK	10	8	10	NEP	28	1
057-1	ORANGE PARK GARDENS	8	6	10		24	2
057-2	SOUTHGATE # 5, 6, & 8	8	8	10	NEP	26	1
057-3	LONGMEADOW/SGATE #2	8	10	10	NEP	28	1
058-1	SOUTHGATE #20, 33, & 34	10	6	10	NEP	26	1
058-2	SOUTHGATE#21,22,23,26,27	8	10	10	NEP	28	1
060-1	PURSELL AC/SRQSPRINGS	8	10	2		20	4
060-2	SRQSPRINGS # 7&9	8	8	2		18	5
060-3	ORANGE GROVE PARK	8	8	2		18	5
061-1	SRQSPRINGS/PAYNE AC.	10	10	2		22	3
061-2	FOREST LAKES #1&2	8	10	2		20	4
061-3	SOUTHERN VIEW	8	10	2		20	4
061-4	SPRING LAKE	10	8	2		20	4
062-1	SRQSPRINGS #16-21	10	10	2		22	3
062-2	TURTLE CREEK	10	2	2		14	5
063-1	SRQSPRINGS #11,13	8	6	2		16	5
063-2	SRQSPRINGS #12, 14 & 15	10	8	2		20	4
068-1	KNOTTY PINE ESTS	6	4	2		12	5
068-2	QUAL TRACT EST.	6	2	2		10	5
069-1	SARASOTA HIGHLANDS	6	6	2		14	5
069-2	OAK WOODS	4	2	2		8	5
069-3	GREYMOSS EST.	2	10	2		14	5
070-1	MEADOWLAND	6	8	2		16	5
070-2	PINE MEADOW	10	2	2		14	5
071-1	SUNSET / SUNILAND	8	10	2		20	4
071-2	EVERGREEN PARK	6	8	2		16	5
071-3	BEE RIDGE (N)	8	2	2	WWTP	12	5
071-4	FAIRLAND	10	8	2		20	4
072-1	HYDE PRK TER	8	6	2		16	5
072-2	GROVE PARK	8	10	2		20	4
072-3	HYMOUNT	8	8	2		18	5
072-4	GOLF ESTATES	4	6	2		12	5
072-5	MORNING GLORY	8	10	2		20	4

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
073-1	VIRGINIA HEIGHTS	10	10	10	WWTP	30	1
073-2	FLORA VILLA	10	6	2		18	5
073-3	FLORA VILLA	10	6	2		18	5
074-1	WESLO WILLOW/PINERIDGE	8	2	10	NEP	20	4
074-2	BROOKSIDE	8	4	10	NEP	22	3
074-3	FOREST HILLS	10	6	10	WWTP/NEP	26	1
074-4	TAMIAMI OAK	6	8	10	WWTP/NEP	24	2
074-5	RIDGEWOOD (N)	8	8	8		24	2
075-1	RIDGEWOOD/HARBOR OAK	8	10	10	NEP	28	1
075-2	RIVERWOOD PARK	8	4	10	NEP	22	3
075-3	PHILLIPPI COVE	8	8	10	NEP	26	1
076-1	SOUTH HIGHLAND	8	8	10	NEP	26	1
077-1	OYSTER BAY ESTS/WHIT AC	8	8	10	WWTP/NEP	26	1
077-2	KIMLIRA	8	10	2	NEP	20	4
085-1	RIVER FOREST/CRECELIUS	8	8	10	NEP	26	1
085-2	LAS LOMAS/SUCCI'S SUB	8	10	10	NEP	28	1
085-3	PHILLIPPI CRST./RENNICK	10	6	10	NEP	26	1
086-1	PHILLIPPI GDNS.#4,8	8	2	8	NEP	18	5
086-2	PHILL. GARDENS 2,3,7	8	2	8	NEP	18	5
086-3	PHILL. GARDENS 5,6,14,15,16	10	4	2		16	5
087-1	SOUTHPOINT WOODS/T&C	10	8	2		20	4
087-2	ALL STATES & ASHTON PK	10	6	2		18	5
088-1	SUNHAVEN#2,5,6	10	8	2		20	4
089-1	PROCTOR OAK/FIREWOOD	2	10	2		14	5
089-2	TOWN OF BEE RIDGE(SW)	6	2	2		10	5
089-3	SAWYER PINE	8	2	2		12	5
089-4	BEE RIDGE (SE)	10	4	2		16	5
089-5	BENEVA PARK	10	4	2		16	5
090-1	SHADE AC/CLARK MEADOW	10	4	2		16	5
091-1	HOLLYWOOD GARDENS	8	6	2		16	5
091-2	BEE RIDGE & BLISS ESTS	6	6	2	WWTP	14	5
093-1	CEDAR GROVE	6	10	2		18	5
099-1	CLARK LAKES	8	2	2		12	5
100-1	BENEVA OAKS	8	8	2		18	5
101-1	SUN HAVEN	10	10	2		22	3

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
101-2	PALM LAKES	10	6	2		18	5
103-1	DENHAM AC./STKNY.PT. PK.	10	8	2		20	4
105-1	AQUALANE EST/FLORENCE	8	4	10		22	3
109-1	BAYVIEW ACRES	10	4	2	NEP	16	5
109-2	PIRATES COVE	10	8	2	NEP	20	4
111-1	CORAL COVE	8	6	2	NEP	16	5
112-1	PINEHURST PARK	10	8	2	WWTP	20	4
112-2	SOUTHPOINTE SHORES	8	6	2		16	5
125-1	HOLIDAY HARBOR	10	8	2		20	4
130-1	TROPICAL SHORES	10	8	8		26	1
130-2	VAMO 1&2/FISHERMAN'S	6	8	8		22	3
132-1	VAMO/MATTESONS	8	10	8	WWTP	26	1
132-2	NORTH VAMO/WRENS SUB	8	8	8		24	2
143-1	OSPREY VILLAGE	6	2	8		16	5
143-2	OSPREY PARK	8	6	8	WWTP	22	3
147-1	BAY VIEW	10	2	8		20	4
148-1	BAY ACRES	8	6	8	WWTP	22	3
148-2	HARM'S SUB	8	2	8		18	5
160-1	SORRENTO SHORES#4,5	6	10	10		26	1
161-1	CARNEY'S SUB	8	6	10		24	2
165-1	MARTINDALE	6	10	2	WWTP	18	5
166-1	SORRENTO SOUTH #1,2,3	8	4	10		22	3
166-2	JESSE K. HILLS	8	10	2		20	4
167-1	THE LIMES/ROBERTS SUB	10	2	2		14	5
168-1	HAMPTON HEIGHTS	10	6	2		18	5
169-1	KILTON ESTATES	10	10	2		22	3
170-1	MT. PLEASANT/LAUREL HILL	6	4	2		12	5
171-1	WATERSIDE AC./ELK INLET	10	2	2		14	5
171-2	DONA BAY PK./CITRUS PK.	10	4	2	WWTP	16	5
172-1	LYONS BAY / BAY POINT	10	4	2		16	5
172-2	BAY POINT / FOUR BAYS	10	10	2		22	3
172-3	OVERLOOK SUB / ROGOFF	10	2	2	WWTP	14	5
234-1	SARASOTA GOLF CLUB	8	4	10	WWTP	22	3
236-1	FIRETHORNE ESTS./S.G.C.	6	4	10		20	4
241-1	SARASOTA GOLF CLUB	10	4	10		24	2

TABLE 5-4
OVERALL PROJECT PRIORITIES

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
241-2	ALLEN ESTATES	8	4	10		22	3
242-1	ANGUS ACRES/ G.C.ESTS.	4	10	10		24	2
383-1	HIDDEN BAY ESTS.	8	2	8		18	5
384-1	VENICE BY-WAY/MARLAND	10	4	2		16	5
384-2	MOBILE CITY #2	10	2	2		14	5
384-3	MOBILE CITY #3/CURRY AC.	10	2	8		20	4
385-1	WATERFRONT ESTS. #2	8	2	8		18	5
386-1	GENEVA HEIGHTS	8	4	2		14	5
386-2	DUQUOIN HEIGHTS	8	2	8		18	5
403-1	NOKOMIS MANOR	10	4	2		16	5
405-1	MOBILE CITY #8/HERMOSA	10	2	2		14	5
405-2	NOKOMIS(AC.)/PT. OF PALMS	10	2	2		14	5
405-3	HERMOSA HEIGHTS	10	2	2		14	5
410-1	EAST VENICE	8	2	2		12	5
433-1	SOUTH VENICE #49,#50	10	2	10		22	3
434-1	SOUTH VENICE #46-48	10	6	10		26	1
436-1	SOUTH VENICE#57,58,60,61,63,65	8	4	10		22	3
436-2	SOUTH VENICE	8	2	10		20	4
436-3	SOUTH VENICE	8	2	10		20	4
449-1	SOUTH VENICE#32,59,62,64,66	10	2	10		22	3
449-2	SOUTH VENICE	10	4	10		24	2
449-3	SOUTH VENICE	10	2	10		22	3
450-1	VENICE GROVES	6	2	10	WWTP	18	5
450-2	SOUTH VENICE #32,33,37	10	4	8		22	3
450-3	SOUTH VENICE#4,16,17	8	2	8		18	5
451-1	SOUTH VENICE#1,31,42,43	10	8	8		26	1
451-2	SOUTH VENICE#44,45	10	4	8		22	3
452-1	SOUTH VENICE#29,30	8	2	8		18	5
452-2	SOUTH VENICE#24,26,39	10	6	2		18	5
452-3	SOUTH VENICE#34,35	10	2	8		20	4
452-4	SOUTH VENICE#40,41	10	2	8		20	4
456-1	SOUTH VENICE#23,25,36	10	2	2		14	5
456-2	SOUTH VENICE#27,28	8	2	2		12	5
457-1	SOUTH VENICE SHORES	10	2	2		14	5
458-1	SOUTH VENICE31,2,3,14	10	4	2	WWTP	16	5

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
459-1	SOUTH VENICE#5,6,18,19,74	10	2	2		14	5
459-2	SOUTH VENICE#7-10	8	2	2		12	5
459-3	SOUTH VENICE#11-13,51,75	8	4	2		14	5
470-1	SOUTH VENICE	8	2	2		12	5
471-1	FLORIDA TROPICAL HOMESITES	8	4	10		22	3
471-2	GULF VIEW ESTATES	8	10	10		28	1
472-1	SOUTH VENICE#52,54,55,67	8	2	8		18	5
472-2	SOUTH VENICE	6	2	8		16	5
472-3	SOUTH VENICE	8	2	8		18	5
472-4	SOUTH VENICE	6	2	8		16	5
473-1	MOUNT ACRES	8	2	8		18	5
473-2	S.VENICE#69,69/MANASOTA	6	2	8		16	5
475-1	MANASOTA GARDENS	6	6	2	WWTP	14	5
475-2	MANASOTA GARDENS	4	2	2		8	5
476-1	MANASOTA LUMBER CO.	4	4	2		10	5
477-1	MANASOTA MANOR	6	6	2		14	5
477-2	DALELAKE/ANDERSON	6	2	8		16	5
478-1	THOMAS HEASLEY SUB	6	10	2	WWTP	18	5
478-2	BLUE DOLPHIN ESTS	4	6	2		12	5
478-3	GULF COAST GROVES	6	2	2		10	5
485-1	ENGLEWOOD PINES	6	8	10	WWTP	24	2
485-2	BARTLETT/OVERBROOK	8	2	10		20	4
487-1	TANGELO PK./ENGLEWOOD GDN	6	4	10		20	4
487-2	SMITH AC./OVERBROOK	8	2	10		20	4
487-3	OVERBROOK GARDENS	8	2	10		20	4
488-1	ENGLEWOOD GARDENS	6	4	10		20	4
492-1	ENGLEWOOD GRDNS#3	6	4	10		20	4
492-2	DIANE SUB/SPANISH WELLS	4	2	8		14	5
493-1	BAY VISTA BLVD	6	2	10		18	5
493-2	BAY VISTA / ANDERSON	4	4	10		18	5
494-1	PINE LAKE	6	2	2	WWTP	10	5
495-1	PINE LAKE/BAYVIEW ESTS.	6	2	2		10	5
495-2	SANDALWOOD/LEMON BAY	6	2	2		10	5
496-1	HARTER/PARK FOREST SUB	6	2	2		10	5
496-2	PINE GLEN	8	2	2		12	5

**TABLE 5-4
OVERALL PROJECT PRIORITIES**

FILENAME=PHASE1.WK4

04-Nov-94

Project Number	Location	Envir.	Financial	Existing Facilities	Special Conditions	Total	Priority Rating
497-1	SOUTHWIND HARBOR	10	8	2	WWTP	20	4
497-2	LAMPPS SUB/PERRONE	6	6	2		14	5
497-3	PLAT OF ENGLEWOOD	10	10	2		22	3
497-4	LASBURY PINE ACRES	6	6	2	WWTP	14	5
498-2	ENGLEWOOD HOMEACRES	6	4	2		12	5
503-1	ENGLEWOOD PK./PALM GR.	8	4	2		14	5
503-2	ALLENWOOD/PINE HAVEN	8	2	2		12	5
504-1	BRUCEWOOD BAYOU	8	2	10		20	4
852-1	LAKEVIEW TER/CREEKLANE	8	2	10		20	4
852-2	ENGLEWOOD GARDENS#1	6	2	10		18	5
852-3	LAKEVIEW	8	2	10	WWTP	20	4
853-1	DEER CREEK PARK	10	6	10	WWTP	26	1
853-2	ENGLEWOOD GRDNS. #1,2	8	6	10		24	2
854-1	HORTON ESTS/BAYVIEW	6	6	10		22	3
854-2	HIGHPOINT/DEERCREEK	6	4	10	WWTP	20	4
854-3	PINELAND SUB/SMITHFIELD	6	4	2		12	5

Section 6

CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The conclusions resulting from the research and analyses conducted for this report are:

- Wastewater treatment and disposal is provided by on-site septic tank systems for a large number of the developed residential areas of Sarasota County.
- Large areas of the County have been identified as having chronic or frequent septic tank failures and the soils in the remainder of the County are not well suited for the use of septic tank systems.
- Studies by the Sarasota Bay National Estuary Program (SBNEP) have identified septic tanks located within 900 feet of surface waters as a major source of nutrient loadings to Sarasota Bay.
- Sarasota County has initiated a program for the acquisition and consolidation of franchise utilities and the implementation of a master plan for regional wastewater transmission and treatment.
- This study provides a master plan for individual wastewater collection system projects to serve the developed residential areas of the County that do not have central sewer service.
- The study includes identification of the project areas, conceptual designs, opinions of probable cost, and development of relative priorities for implementation of the projects.
- The conceptual designs include central water service for areas presently using individual wells for potable water supplies.

- The recommended sewer collection system program includes a total of 41 projects, serving a total of 8,485 platted lots.
- Once the projects to be included in the recommended program were selected, conceptual designs were completed for transmission facilities to connect the projects to regional treatment systems. Cost estimates were prepared for the transmission systems.
- The total probable cost for the recommended sewer program is:

Collection System Projects	\$51,651,000
Wastewater Transmission System	\$ 3,011,000
Wastewater Treatment and Disposal	\$17,254,000
TOTAL	\$71,916,000

6.2 RECOMMENDATIONS

6.2.1 Project Priorities

Figure 6-1 shows the recommended program for collection system projects and Table 6-1 shows specific information for each project. The initial selection of the projects for the recommended program considered the relative priorities determined through the prioritization process. The final recommendations also considered the priorities established by the Sarasota Bay National Estuary Program and the benefits of those projects that will eliminate existing package wastewater treatment plants. Also, some projects with relative priorities less than one were included to provide for an orderly development of the transmission systems and service area.

As previously discussed, a significant number of the recommended projects are concentrated in the Phillippi Creek watershed. This results from the pollution of the creek and the bay by septic tanks and the availability of capacity in the City of Sarasota wastewater treatment plant.

The conditions that serve as the basis for the prioritization of the projects

will change significantly as the County implements the master plan for acquisition and consolidation of franchises and the master plan for transmission and disposal. Therefore, the project priorities should be updated on a regularly scheduled basis, and as specific conditions change.

6.2.2 Funding

Implementation of the County's program for providing central water and wastewater service is directly affected by the ability of Sarasota County to provide funding. A financial study should be initiated to investigate alternative avenues of financing capital costs, and to develop a schedule for implementation of the overall program. The financial strategy should take advantage of any federal or state grant programs available and should consider a wide range of financing methods.

Primary financing alternatives available to governmental agencies for water and wastewater systems that should be considered include:

1. Special assessment bonds, revenue bonds or general obligation bonds;
2. Federal Grants;
3. FDER Revolving Loan Program;
4. FmHA Loan Program; and
5. Community Development Block Grants

The mechanics selected for customer charges selected should be equitable for the users of the system, both existing and future. Potential revenue sources are:

1. Impact Fees/Developer Contributions;
2. User Charges and Connection Fees;
3. Sales Taxes;
4. Ad Valorem Taxes Generated by Municipal Services Taxing Units;
and
5. Special Assessments Generated by Municipal Services Benefit
Units

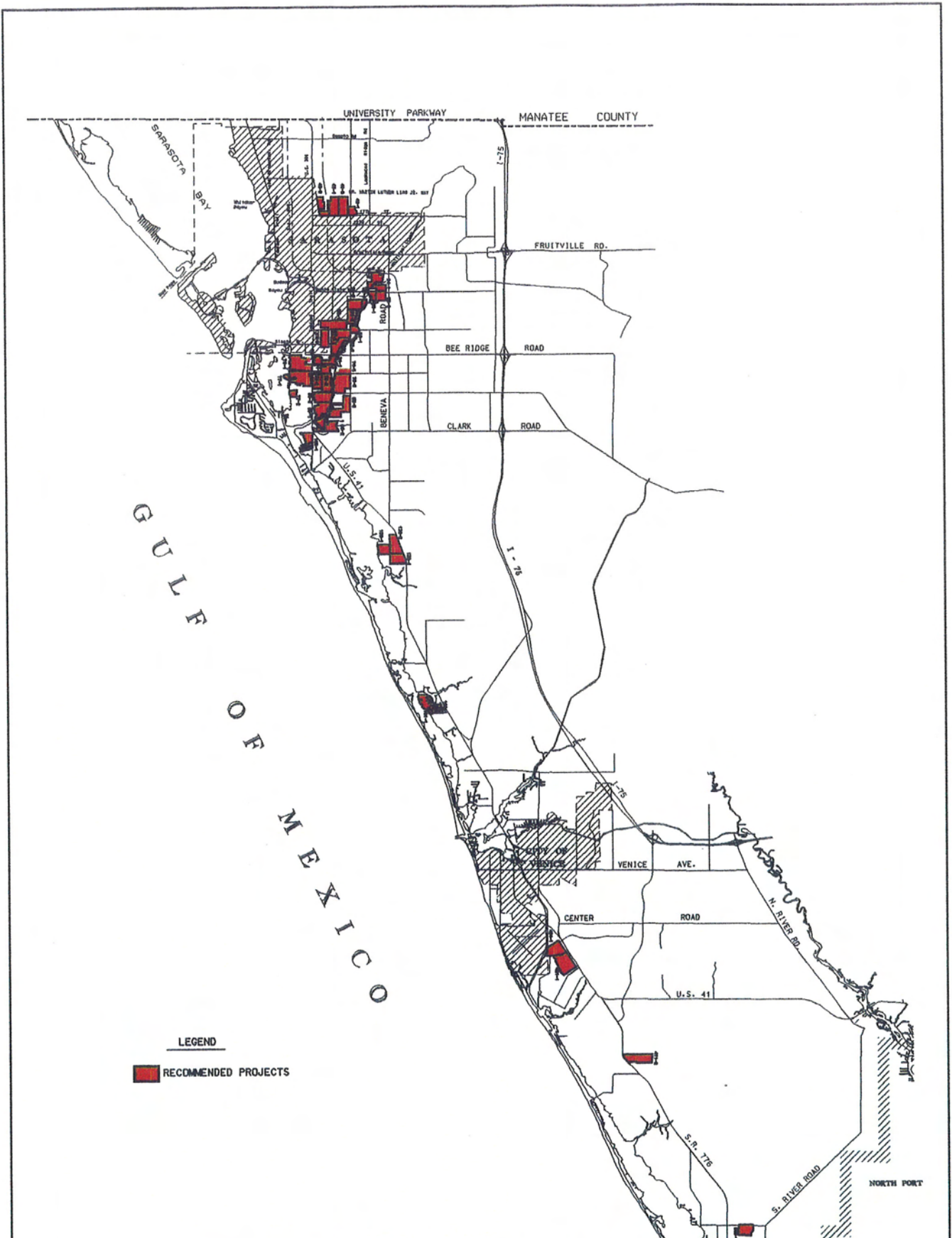


FIGURE 6-1
RECOMMENDED SEWER PROGRAM
SARASOTA COUNTY SEWER PROGRAM
SARASOTA COUNTY, FLORIDA
 1994

**TABLE 6-1
SARASOTA COUNTY SEWER PROGRAM
RECOMMENDED PROJECTS**

FILENAME=PRJFES2.WK4

16-Nov-94

Project Number	Location	Project Area Acres	Total Units	Sewer Collection System	Transmission System Cost	Treatment / Disposal Cost	Total Project Cost	Total Cost Per Unit
042-1	LEISURE LAKES	31.9	109	\$868,800	\$26,643	\$196,200	\$1,091,643	\$10,015
043-1	LORRAINE/BOOKER PL	79.2	212	\$1,325,100	\$30,747	\$381,600	\$1,737,447	\$8,196
043-2	LENRAY HTS.	81.4	252	\$1,539,800	\$37,702	\$453,600	\$2,031,102	\$8,060
043-3	HOMEWOOD HTS.	38.5	78	\$369,000	\$11,313	\$140,400	\$520,713	\$6,676
054-1	HOMECROFT (NE1/4)	36.9	178	\$1,017,200	\$70,298	\$320,400	\$1,407,898	\$7,910
054-2	OAKSHORES	63.9	215	\$1,443,200	\$54,046	\$387,000	\$1,884,246	\$8,764
055-1	PINECRAFT	26	220	\$947,100	\$58,631	\$396,000	\$1,401,731	\$6,372
055-2	HOMECROFT	40.3	216	\$817,800	\$85,305	\$388,800	\$1,291,905	\$5,981
055-3	RIO VISTA	62	206	\$1,111,800	\$76,967	\$370,800	\$1,559,567	\$7,571
055-4	ALOHA TR. CITY	14.1	253	\$882,100	\$94,528	\$455,400	\$1,432,028	\$5,660
056-1	SUNNYSIDE PARK	103.9	370	\$2,484,400	\$98,242	\$666,000	\$3,248,642	\$8,780
057-1	ORANGE PARK GARDENS	83.4	229	\$1,770,600	\$64,563	\$412,200	\$2,247,363	\$9,814
057-2	SOUTHGATE # 5, 6, & 8	81.1	234	\$1,473,400	\$65,972	\$421,200	\$1,960,572	\$8,379
057-3	LONGMEADOW/SGATE #2	61.9	193	\$1,089,100	\$54,413	\$347,400	\$1,490,913	\$7,725
058-1	SOUTHGATE #20, 33, & 34	27.9	87	\$710,100	\$45,539	\$156,600	\$912,239	\$10,486
058-2	SOUTHGATE#21,22,23,26,27	70.6	201	\$1,166,700	\$95,169	\$361,800	\$1,623,669	\$8,078
074-1	WESLO WILLOW/PINERIDGE	37.2	104	\$699,800	\$22,946	\$187,200	\$909,946	\$8,749
074-2	BROOKSIDE	34.7	97	\$797,600	\$65,330	\$174,600	\$1,037,530	\$10,696
074-3	FOREST HILLS	25.6	81	\$607,400	\$54,554	\$145,800	\$807,754	\$9,972
074-4	TAMIAMI OAK	25.8	100	\$620,300	\$22,063	\$180,000	\$822,363	\$8,224
074-5	RIDGEWOOD (N)	53	136	\$1,064,300	\$31,899	\$244,800	\$1,340,999	\$9,860
075-1	RIDGEWOOD/HARBOR OAK	62.1	268	\$1,119,300	\$77,565	\$482,400	\$1,679,265	\$6,266
075-2	RIVERWOOD PARK	75.4	198	\$1,813,100	\$59,060	\$356,400	\$2,228,560	\$11,255
075-3	PHILLIPPI COVE	132.6	311	\$1,976,000	\$160,627	\$559,800	\$2,696,427	\$8,670
076-1	SOUTH HIGHLAND	129	244	\$1,939,000	\$127,128	\$439,200	\$2,505,328	\$10,268
077-1	OYSTER BAY ESTS/WHIT AC	134.2	293	\$1,844,700	\$174,211	\$527,400	\$2,546,311	\$8,690
077-2	KIMLIRA	20.2	35	\$182,800	\$20,810	\$63,000	\$266,610	\$7,617
085-1	RIVER FOREST/CRECELIUS	87.7	174	\$1,200,800	\$155,004	\$313,200	\$1,669,004	\$9,592
085-2	LAS LOMAS/SUCCI'S SUB	76.6	200	\$1,139,900	\$69,430	\$360,000	\$1,569,330	\$7,847
085-3	PHILLIPPI CRST./RENNICK	107.1	341	\$2,252,500	\$175,575	\$613,800	\$3,041,875	\$8,920
086-1	PHILLIPPI GDNS.#4,8	34.6	93	\$711,300	\$112,926	\$167,400	\$991,626	\$10,663
086-2	PHILL. GARDENS 2,3,7	71.1	196	\$1,384,700	\$147,090	\$352,800	\$1,884,590	\$9,615
105-1	AQUALANE EST/FLORENCE	69.1	276	\$1,515,500	\$310,526	\$496,800	\$2,322,826	\$8,416
130-1	TROPICAL SHORES	52.4	169	\$1,158,000	\$27,309	\$464,750	\$1,650,059	\$9,764
132-1	VAMO/MATTESONS	48.2	233	\$1,123,700	\$53,337	\$640,750	\$1,817,787	\$7,802
132-2	NORTH VAMO/WRENS SUB	99.5	252	\$1,528,700	\$39,954	\$693,000	\$2,261,654	\$8,975
160-1	SORRENTO SHORES#4,5	110.9	171	\$960,400	\$33,000	\$470,250	\$1,463,650	\$8,559
434-1	SOUTH VENICE #46-48	88.8	245	\$1,634,900	\$39,624	\$673,750	\$2,348,274	\$9,585
451-1	SOUTH VENICE#1,31,42,43	129.8	465	\$2,762,300	\$61,376	\$1,278,750	\$4,102,426	\$8,822
471-2	GULF VIEW ESTATES	102.9	290	\$1,142,300	\$0	\$797,500	\$1,939,800	\$6,689
853-1	DEER CREEK PARK	63.7	260	\$1,455,600	\$0	\$715,000	\$2,170,600	\$8,348
			8485	\$51,651,100	\$3,011,421	\$17,253,750	\$71,916,271	\$8,476

APPENDIX A

OPINIONS OF PROBABLE COSTS UTILITY PROJECTS

- A-1 Unit Prices for Cost Estimating**
- A-2 Project Cost Estimate - Summary**
- A-3 Estimated Quantities for Gravity Sewer
Collection Systems**
- A-4 Cost Estimate - Gravity Sewers**
- A-5 Estimated Quantities for Low-Pressure
Sewer Collection Systems**
- A-6 Cost Estimate - Low-Pressure Sewers**
- A-7 Cost Estimate - Water Distribution**

APPENDIX A-1
UNIT PRICES FOR COST ESTIMATING

SARASOTA COUNTY ALTERNATE SEWERS			
GRAVITY SEWERS		UNIT PRICE	Comments
Manholes		\$1,750.00 EA	400 foot spacing 25% for junctions \$2.00 for each increment of depth
	OR	\$3.50 LF	
Sewers	8 " DIA	\$30.00 LF	
	10 " DIA	\$34.50 LF	
	12 " DIA	\$41.00 LF	
Services		\$900.00 EA	Includes pavement restoration
Restoration			
Pavement		\$25.00 LF	
Sodding		\$4.00 LF	
LOW PRESSURE			
Grinder Pumps		\$3,000.00 EA	Assumes one unit per dwelling unit
Force Mains			
	2 " DIA	\$4.50 LF	
	3 " DIA	\$6.75 LF	
	4 " DIA	\$9.00 LF	
	6 " DIA	\$13.50 LF	
	8 " DIA	\$18.00 LF	
Isolation Valves			Every 1,000 feet
	2 " DIA	\$250.00 EA	
	3 " DIA	\$300.00 EA	
	4 " DIA	\$400.00 EA	
	6 " DIA	\$500.00 EA	
	8 " DIA	\$600.00 EA	
Air release		\$1,750.00 EA	
Services		\$600.00 EA	Tee + 30' of 1.25" pipe plus pavement restoration
Pavement Restoration			
Pavement		\$12.50 LF	Remove/dispose/replace
Sodding		\$1.50 LF	
OTHER ITEMS			
Abandon septic tanks		\$400.00 EA	
Pump Stations			
	1	0.00 mgd	\$50,000 EA
	50	0.07 mgd	\$65,000 EA
	150	0.22 mgd	\$75,000 EA
	300	0.43 mgd	\$100,000 EA
Jack and Bore			\$150.00 LF
Force Mains			Depends on carrier pipe size
	4" DIA	\$9.00 LF	
	6" DIA	\$13.50 LF	
	8" DIA	\$18.00 LF	
Water Mains-	includes fire hydrants and valves		
		<u>USE</u>	
	6 inches in dia	\$19 LF	
	8 inches in dia	\$24 LF	
	10 inches in dia	\$29 LF	
	12 inches in dia	\$34 LF	
Services-		\$423 EA	Includes backflow preventer, pipe, valves, and fittings.

**APPENDIX A-2
PROJECT COST ESTIMATE - SUMMARY**

Project Number	Project Name	Subtotal Gravity Sewers	Subtotal Pressure Sewers	Subtotal Water	Mobilization, Traffic Control, Contingencies	Total Construction Cost	Engineering Administration	TOTAL
018-1	RAVENWOOD	\$0	\$494,288	\$0	\$98,858	\$593,145	\$88,972	\$682,100
019-1	DESOTOLAKES	\$2,566,850	\$0	\$0	\$513,370	\$3,080,220	\$462,033	\$3,542,300
021-1	DESOTO LAKES	\$751,625	\$297,788	\$0	\$209,883	\$1,259,295	\$188,894	\$1,448,200
029-1	BEVERLY TERR	\$1,135,500	\$0	\$347,400	\$296,580	\$1,779,480	\$266,922	\$2,046,400
030-1	SWAAN ACRES	\$0	\$42,700	\$31,760	\$14,892	\$89,352	\$13,403	\$102,800
030-2	TOBERO WOODS	\$0	\$112,150	\$31,120	\$28,654	\$171,924	\$25,789	\$197,700
031-1	HIDDEN FOREST	\$0	\$421,325	\$0	\$84,265	\$505,590	\$75,839	\$581,400
038-1	COFFMAN MANOR	\$1,056,450	\$0	\$322,510	\$275,792	\$1,654,752	\$248,213	\$1,903,000
040-1	SLAUBAUGH	\$0	\$100,475	\$0	\$20,095	\$120,570	\$18,086	\$138,700
040-2	FREEMAN RIDGE	\$0	\$126,200	\$0	\$25,240	\$151,440	\$22,716	\$174,200
042-1	LEISURE LAKES	\$629,550	\$0	\$0	\$125,910	\$755,460	\$113,319	\$868,800
043-1	LORRAINE/BOOKER PL	\$960,250	\$0	\$266,220	\$245,294	\$1,471,764	\$220,765	\$1,692,500
043-2	LENRAY HTS.	\$1,115,825	\$0	\$400,570	\$303,279	\$1,819,674	\$272,951	\$2,092,600
043-3	HOMEWOOD HTS.	\$0	\$267,413	\$290,210	\$111,525	\$669,147	\$100,372	\$769,500
044-1	HOMEDALE/TANGLED OAK	\$629,875	\$233,600	\$362,450	\$245,185	\$1,471,110	\$220,667	\$1,691,800
044-2	CEDAR HAMMOCK	\$284,400	\$0	\$0	\$56,880	\$341,280	\$51,192	\$392,500
044-3	THE WOODLANDS	\$101,850	\$0	\$41,270	\$28,624	\$171,744	\$25,762	\$197,500
045-1	SHERWOOD ESTATES	\$921,875	\$0	\$335,560	\$251,487	\$1,508,922	\$226,338	\$1,735,300
045-2	CEDAR HOLLOW	\$1,232,575	\$0	\$0	\$246,515	\$1,479,090	\$221,864	\$1,701,000
046-1	RELLIM LANE	\$0	\$38,150	\$27,800	\$13,190	\$79,140	\$11,871	\$91,000
047-1	GREEN ACRES	\$719,000	\$0	\$154,150	\$174,630	\$1,047,780	\$157,167	\$1,204,900
048-1	CRESTLINE	\$509,600	\$0	\$244,600	\$150,840	\$905,040	\$135,756	\$1,040,800
048-2	BROADWAY	\$754,250	\$0	\$232,880	\$197,426	\$1,184,556	\$177,683	\$1,362,200
048-3	HIGHLAND CREST	\$471,150	\$0	\$134,100	\$121,050	\$726,300	\$108,945	\$835,200
048-4	PALMER FARMS 2ND UNIT	\$556,000	\$0	\$0	\$111,200	\$667,200	\$100,080	\$767,300
049-1	WOODLAND HOMES	\$376,050	\$111,100	\$122,940	\$122,018	\$732,108	\$109,816	\$841,900
050-1	PLEASANT ESTATES	\$0	\$265,675	\$18,630	\$56,861	\$341,166	\$51,175	\$392,300
051-1	TURTLE CREEK/TORREYA	\$0	\$529,850	\$0	\$754,250	\$1,284,100	\$192,615	\$1,476,700
051-2	HIDDEN OAKS ESTS	\$0	\$210,625	\$0	\$42,125	\$252,750	\$37,913	\$290,700
052-1	TARA VISTA/ BAHIA VISTA	\$0	\$111,500	\$0	\$22,300	\$133,800	\$20,070	\$153,900
052-2	NOTTINGHAM	\$682,675	\$0	\$0	\$136,535	\$819,210	\$122,882	\$942,100
054-1	HEMOCROFT (NE1/4)	\$737,100	\$0	\$0	\$147,420	\$884,520	\$132,678	\$1,017,200
054-2	OAKSHORES	\$1,045,825	\$0	\$314,290	\$272,023	\$1,632,138	\$244,821	\$1,877,000
055-1	PINECRAFT	\$686,325	\$0	\$0	\$137,265	\$823,590	\$123,539	\$947,100
055-2	HEMOCROFT	\$592,625	\$0	\$0	\$118,525	\$711,150	\$106,673	\$817,800
055-3	RIO VISTA	\$805,650	\$0	\$289,840	\$219,098	\$1,314,588	\$197,188	\$1,511,800
055-4	ALOHA TR. CITY	\$639,175	\$0	\$0	\$127,835	\$767,010	\$115,052	\$882,100
056-1	SUNNYSIDE PARK	\$1,800,300	\$0	\$0	\$360,060	\$2,160,360	\$324,054	\$2,484,400
057-1	ORANGE PARK GARDENS	\$1,283,075	\$0	\$0	\$256,615	\$1,539,690	\$230,954	\$1,770,600
057-2	SOUTHGATE # 5, 6, & 8	\$1,067,650	\$0	\$0	\$213,530	\$1,281,180	\$192,177	\$1,473,400
057-3	LONGMEADOW/SGATE #2	\$789,175	\$0	\$0	\$157,835	\$947,010	\$142,052	\$1,089,100
058-1	SOUTHGATE #20, 33, & 34	\$514,600	\$0	\$0	\$102,920	\$617,520	\$92,628	\$710,100
058-2	SOUTHGATE#21,22,23,26,27	\$845,400	\$0	\$0	\$169,080	\$1,014,480	\$152,172	\$1,166,700
060-1	PURSELL AC/SRQSPRINGS	\$707,200	\$0	\$0	\$141,440	\$848,640	\$127,296	\$975,900
060-2	SRQSPRINGS # 7&9	\$2,068,725	\$0	\$0	\$413,745	\$2,482,470	\$372,371	\$2,854,800
060-3	ORANGE GROVE PARK	\$834,075	\$0	\$0	\$166,815	\$1,000,890	\$150,134	\$1,151,000
061-1	SRQSPRINGS/PAYNE AC.	\$2,023,200	\$0	\$0	\$404,640	\$2,427,840	\$364,176	\$2,792,000
061-2	FOREST LAKES #1&2	\$0	\$426,850	\$0	\$85,370	\$512,220	\$76,833	\$589,100
061-3	SOUTHERN VIEW	\$344,550	\$0	\$0	\$68,910	\$413,460	\$62,019	\$475,500
061-4	SPRING LAKE	\$685,575	\$0	\$0	\$137,115	\$822,690	\$123,404	\$946,100
062-1	SRQSPRINGS #16-21	\$1,663,175	\$0	\$0	\$332,635	\$1,995,810	\$299,372	\$2,295,200
062-2	TURTLE CREEK	\$0	\$202,738	\$89,920	\$58,532	\$351,189	\$52,678	\$403,900
063-1	SRQSPRINGS #11,13	\$1,039,175	\$0	\$0	\$207,835	\$1,247,010	\$187,052	\$1,434,100
063-2	SRQSPRINGS #12, 14 & 15	\$2,101,650	\$0	\$0	\$420,330	\$2,521,980	\$378,297	\$2,900,300
068-1	KNOTTY PINE ESTS	\$0	\$159,125	\$0	\$31,825	\$190,950	\$28,643	\$219,600
068-2	QUAL TRACT EST.	\$101,925	\$0	\$0	\$20,385	\$122,310	\$18,347	\$140,700
069-1	SARASOTA HIGHLANDS	\$438,950	\$0	\$146,940	\$117,178	\$703,068	\$105,460	\$808,500
069-2	OAK WOODS	\$0	\$135,100	\$0	\$27,020	\$162,120	\$24,318	\$186,400
069-3	GREYMOSS EST.	\$0	\$33,600	\$0	\$6,720	\$40,320	\$6,048	\$46,400
070-1	MEADOWLAND	\$310,400	\$0	\$0	\$62,080	\$372,480	\$55,872	\$428,400
070-2	PINE MEADOW	\$395,300	\$0	\$108,340	\$100,728	\$604,368	\$90,655	\$695,000
071-1	SUNSET / SUNILAND	\$858,525	\$0	\$0	\$171,705	\$1,030,230	\$154,535	\$1,184,800
071-2	EVERGREEN PARK	\$437,800	\$0	\$70,360	\$101,632	\$609,792	\$91,469	\$701,300
071-3	BEE RIDGE (N)	\$176,325	\$0	\$56,380	\$46,541	\$279,246	\$41,887	\$321,100
071-4	FAIRLAND	\$388,525	\$0	\$66,830	\$91,071	\$546,426	\$81,964	\$628,400
072-1	HYDE PRK TER	\$757,900	\$0	\$70,530	\$165,686	\$994,116	\$149,117	\$1,143,200
072-2	GROVE PARK	\$262,250	\$0	\$44,720	\$61,394	\$368,364	\$55,255	\$423,600
072-3	HYMOUNT	\$1,121,750	\$0	\$0	\$224,350	\$1,346,100	\$201,915	\$1,548,000
072-4	GOLF ESTATES	\$1,018,025	\$0	\$0	\$203,605	\$1,221,630	\$183,245	\$1,404,900
072-5	MORNING GLORY	\$441,000	\$0	\$0	\$88,200	\$529,200	\$79,380	\$608,600
073-1	VIRGINIA HEIGHTS	\$472,825	\$0	\$0	\$94,565	\$567,390	\$85,109	\$652,500

**APPENDIX A-2
PROJECT COST ESTIMATE - SUMMARY**

Project Number	Project Name	Subtotal Gravity Sewers	Subtotal Pressure Sewers	Subtotal Water	Mobilization, Traffic Control, Contingencies	Total Construction Cost	Engineering Administration	TOTAL
073-2	FLORA VILLA	\$501,050	\$0	\$84,680	\$117,146	\$702,876	\$105,431	\$808,307
073-3	FLORA VILLA	\$496,175	\$0	\$50,150	\$109,265	\$655,590	\$98,339	\$753,929
074-1	WESLO WILLOW/PINERIDGE	\$314,275	\$192,813	\$0	\$101,418	\$608,505	\$91,276	\$699,800
074-2	BROOKSIDE	\$577,950	\$0	\$0	\$115,590	\$693,540	\$104,031	\$797,600
074-3	FOREST HILLS	\$440,150	\$0	\$53,430	\$98,716	\$592,296	\$88,844	\$681,100
074-4	TAMIAMI OAK	\$449,500	\$0	\$0	\$89,900	\$539,400	\$80,910	\$620,300
074-5	RIDGEWOOD (N)	\$771,250	\$0	\$0	\$154,250	\$925,500	\$138,825	\$1,064,300
075-1	RIDGEWOOD/HARBOR OAK	\$811,075	\$0	\$0	\$162,215	\$973,290	\$145,994	\$1,119,300
075-2	RIVERWOOD PARK	\$917,625	\$396,238	\$0	\$262,773	\$1,576,635	\$236,495	\$1,813,100
075-3	PHILLIPPI COVE	\$1,070,325	\$361,550	\$0	\$286,375	\$1,718,250	\$257,738	\$1,976,000
076-1	SOUTH HIGHLAND	\$1,089,250	\$315,788	\$0	\$281,008	\$1,686,045	\$252,907	\$1,939,000
077-1	OYSTER BAY ESTS/WHIT AC	\$1,125,300	\$211,475	\$0	\$267,355	\$1,604,130	\$240,620	\$1,844,700
077-2	KIMLIRA	\$0	\$132,450	\$0	\$26,490	\$158,940	\$23,841	\$182,800
085-1	RIVER FOREST/CRECELIUS	\$723,875	\$146,238	\$0	\$174,023	\$1,044,135	\$156,620	\$1,200,800
085-2	LAS LOMAS/SUCCI'S SUB	\$826,025	\$0	\$0	\$165,205	\$991,230	\$148,685	\$1,139,900
085-3	PHILLIPPI CRST./RENNICK	\$1,478,300	\$153,950	\$244,830	\$375,416	\$2,252,496	\$337,874	\$2,590,400
086-1	PHILLIPPI GDNS.#4,8	\$515,400	\$0	\$0	\$103,080	\$618,480	\$92,772	\$711,300
086-2	PHILL. GARDENS 2,3,7	\$945,875	\$57,550	\$0	\$200,685	\$1,204,110	\$180,617	\$1,384,700
086-3	PHILL. GARDENS 5,6,14,15,16	\$822,925	\$0	\$0	\$164,585	\$987,510	\$148,127	\$1,135,600
087-1	SOUTHPOINT WOODS/T&C	\$912,775	\$0	\$0	\$182,555	\$1,095,330	\$164,300	\$1,259,600
087-2	ALL STATES & ASHTON PK	\$1,183,520	\$0	\$153,520	\$267,408	\$1,604,448	\$240,667	\$1,845,100
088-1	SUNHAVEN#2,5,6	\$988,800	\$42,850	\$306,700	\$267,670	\$1,606,020	\$240,903	\$1,846,900
089-1	PROCTOR OAK/FIREWOOD	\$0	\$69,625	\$12,490	\$16,423	\$98,538	\$14,781	\$113,300
089-2	TOWN OF BEE RIDGE(SW)	\$316,375	\$0	\$99,350	\$83,145	\$498,870	\$74,831	\$573,700
089-3	SAWYER PINE	\$0	\$453,088	\$0	\$90,618	\$543,705	\$81,556	\$625,300
089-4	BEE RIDGE (SE)	\$323,825	\$0	\$69,050	\$78,575	\$471,450	\$70,718	\$542,200
089-5	BENEVA PARK	\$210,875	\$0	\$43,290	\$50,833	\$304,998	\$45,750	\$350,700
090-1	SHADE AC/CLARK MEADOW	\$704,725	\$0	\$29,140	\$146,773	\$880,638	\$132,096	\$1,012,700
091-1	HOLLYWOOD GARDENS	\$662,050	\$85,900	\$253,720	\$200,334	\$1,202,004	\$180,301	\$1,382,300
091-2	BEE RIDGE & BLISS ESTS	\$0	\$347,050	\$226,600	\$114,730	\$688,380	\$103,257	\$791,600
093-1	CEDAR GROVE	\$365,925	\$0	\$57,020	\$84,589	\$507,534	\$76,130	\$583,700
099-1	CLARK LAKES	\$525,875	\$0	\$0	\$105,175	\$631,050	\$94,658	\$725,700
100-1	BENEVA OAKS	\$0	\$332,650	\$0	\$66,530	\$399,180	\$59,877	\$459,100
101-1	SUN HAVEN	\$1,020,925	\$0	\$281,600	\$260,505	\$1,563,030	\$234,455	\$1,797,500
101-2	PALM LAKES	\$730,600	\$0	\$202,810	\$186,682	\$1,120,092	\$168,014	\$1,288,100
103-1	DENHAM AC./STKNY.PT. PK.	\$915,625	\$0	\$153,790	\$213,883	\$1,283,298	\$192,495	\$1,475,800
105-1	AQUALANE EST/FLORENCE	\$799,900	\$298,300	\$0	\$219,640	\$1,317,840	\$197,676	\$1,515,500
109-1	BAYVIEW ACRES	\$536,400	\$642,013	\$0	\$235,683	\$1,414,095	\$212,114	\$1,626,200
109-2	PIRATES COVE	\$100,200	\$14,500	\$0	\$22,940	\$137,640	\$20,646	\$158,300
111-1	CORAL COVE	\$1,037,500	\$0	\$0	\$207,500	\$1,245,000	\$186,750	\$1,431,800
112-1	PINEHURST PARK	\$1,259,900	\$0	\$0	\$251,980	\$1,511,880	\$226,782	\$1,738,700
112-2	SOUTHPOINTE SHORES	\$495,200	\$0	\$0	\$99,040	\$594,240	\$89,136	\$683,400
125-1	HOLIDAY HARBOR	\$189,450	\$196,819	\$0	\$77,254	\$463,523	\$69,528	\$533,100
130-1	TROPICAL SHORES	\$839,100	\$0	\$0	\$167,820	\$1,006,920	\$151,038	\$1,158,000
130-2	VAMO 1&2/FISHERMAN'S	\$334,250	\$123,163	\$0	\$91,483	\$548,895	\$82,334	\$631,200
132-1	VAMO/MATTESONS	\$814,275	\$0	\$0	\$162,855	\$977,130	\$146,570	\$1,123,700
132-2	NORTH VAMO/WRENS SUB	\$1,107,750	\$0	\$172,500	\$256,050	\$1,536,300	\$230,445	\$1,766,700
143-1	OSPREY VILLAGE	\$494,500	\$65,850	\$114,300	\$134,930	\$809,580	\$121,437	\$931,000
143-2	OSPREY PARK	\$1,218,225	\$0	\$436,770	\$330,999	\$1,985,994	\$297,899	\$2,283,900
147-1	BAY VIEW	\$0	\$173,250	\$52,210	\$45,092	\$270,552	\$40,583	\$311,100
148-1	BAY ACRES	\$636,650	\$0	\$0	\$127,330	\$763,980	\$114,597	\$878,600
148-2	HARM'S SUB	\$0	\$97,750	\$24,630	\$24,476	\$146,856	\$22,028	\$168,900
160-1	SORRENTO SHORES#4,5	\$0	\$695,953	\$0	\$139,191	\$835,143	\$125,271	\$960,400
161-1	CARNEY'S SUB	\$0	\$337,758	\$0	\$67,552	\$405,309	\$60,796	\$466,100
165-1	MARTINDALE	\$0	\$262,848	\$135,770	\$79,724	\$478,341	\$71,751	\$550,100
166-1	SORRENTO SOUTH #1,2,3	\$403,950	\$77,125	\$0	\$96,215	\$577,290	\$86,594	\$663,900
166-2	JESSE K. HILLS	\$0	\$376,450	\$159,950	\$107,280	\$643,680	\$96,552	\$740,200
167-1	THE LIMES/ROBERTS SUB	\$1,135,350	\$0	\$397,560	\$306,582	\$1,839,492	\$275,924	\$2,115,400
168-1	HAMPTON HEIGHTS	\$0	\$452,173	\$165,980	\$123,631	\$741,783	\$111,267	\$853,100
169-1	KILTON ESTATES	\$568,800	\$0	\$180,560	\$149,872	\$899,232	\$134,885	\$1,034,100
170-1	MT. PLEASANT/LAUREL HILL	\$1,281,450	\$0	\$461,680	\$348,626	\$2,091,756	\$313,763	\$2,405,500
171-1	WATERSIDE AC./JELK INLET	\$928,900	\$137,475	\$463,610	\$305,997	\$1,835,982	\$275,397	\$2,111,400
171-2	DONA BAY PK./CITRUS PK.	\$580,050	\$67,880	\$241,260	\$177,838	\$1,067,028	\$160,054	\$1,227,100
172-1	LYONS BAY / BAY POINT	\$1,880,580	\$48,195	\$713,310	\$528,417	\$3,170,502	\$475,575	\$3,646,100
172-2	BAY POINT / FOUR BAYS	\$0	\$529,910	\$277,100	\$161,402	\$968,412	\$145,262	\$1,113,700
172-3	OVERLOOK SUB / ROGOFF	\$0	\$116,485	\$129,990	\$49,295	\$295,770	\$44,366	\$340,100
234-1	SARASOTA GOLF CLUB	\$469,350	\$219,413	\$375,870	\$212,927	\$1,277,559	\$191,634	\$1,469,200
236-1	FIRETHORNE ESTS./S.G.C.	\$377,675	\$249,175	\$299,340	\$185,238	\$1,111,428	\$166,714	\$1,278,100
241-1	SARASOTA GOLF CLUB	\$798,800	\$0	\$273,450	\$214,450	\$1,286,700	\$193,005	\$1,479,700
241-2	ALLEN ESTATES	\$0	\$303,025	\$212,580	\$103,121	\$618,726	\$92,809	\$711,500
242-1	ANGUS ACRES/ G.C.ESTS.	\$0	\$429,525	\$0	\$85,905	\$515,430	\$77,315	\$592,700

**APPENDIX A-2
PROJECT COST ESTIMATE - SUMMARY**

Project Number	Project Name	Subtotal Gravity Sewers	Subtotal Pressure Sewers	Subtotal Water	Mobilization, Traffic Control, Contingencies	Total Construction Cost	Engineering Administration	TOTAL
383-1	HIDDEN BAY ESTS.	\$0	\$212,823	\$118,330	\$66,231	\$397,383	\$59,607	\$457,000
384-1	VENICE BY-WAY/MARLAND	\$1,300,450	\$0	\$516,110	\$363,312	\$2,179,872	\$326,981	\$2,506,900
384-2	MOBILE CITY #2	\$502,650	\$0	\$174,710	\$135,472	\$812,832	\$121,925	\$934,800
384-3	MOBILE CITY #3/CURRY AC.	\$1,114,500	\$0	\$403,280	\$303,556	\$1,821,336	\$273,200	\$2,094,500
385-1	WATERFRONT ESTS. #2	\$0	\$258,738	\$170,800	\$85,908	\$515,445	\$77,317	\$592,800
386-1	GENEVA HEIGHTS	\$963,250	\$0	\$369,120	\$266,474	\$1,598,844	\$239,827	\$1,838,700
386-2	DUQUOIN HEIGHTS	\$599,900	\$26,950	\$208,580	\$167,086	\$1,002,516	\$150,377	\$1,152,900
403-1	NOKOMIS MANOR	\$1,136,450	\$0	\$412,190	\$309,728	\$1,858,368	\$278,755	\$2,137,100
405-1	MOBILE CITY #8/HERMOSA	\$581,450	\$0	\$223,790	\$161,048	\$966,288	\$144,943	\$1,111,200
405-2	NOKOMIS(AC./PT. OF PALMS	\$1,971,750	\$0	\$686,960	\$531,742	\$3,190,452	\$478,568	\$3,669,000
405-3	HERMOSA HEIGHTS	\$741,300	\$0	\$266,380	\$201,536	\$1,209,216	\$181,382	\$1,390,600
410-1	EAST VENICE	\$621,250	\$0	\$206,790	\$165,608	\$993,648	\$149,047	\$1,142,700
433-1	SOUTH VENICE #49,#50	\$789,500	\$0	\$318,230	\$221,546	\$1,329,276	\$199,391	\$1,528,700
434-1	SOUTH VENICE #46-48	\$1,184,725	\$0	\$536,190	\$344,183	\$2,065,098	\$309,765	\$2,374,900
436-1	SOUTH VENICE#57,58,60,61,63,65	\$900,500	\$0	\$397,170	\$259,534	\$1,557,204	\$233,581	\$1,790,800
436-2	SOUTH VENICE	\$943,100	\$0	\$343,580	\$257,336	\$1,544,016	\$231,602	\$1,775,600
436-3	SOUTH VENICE	\$878,550	\$0	\$366,760	\$249,062	\$1,494,372	\$224,156	\$1,718,500
449-1	SOUTH VENICE#32,59,62,64,66	\$1,059,575	\$0	\$368,120	\$285,539	\$1,713,234	\$256,985	\$1,970,200
449-2	SOUTH VENICE	\$1,473,675	\$0	\$557,490	\$406,233	\$2,437,398	\$365,610	\$2,803,000
449-3	SOUTH VENICE	\$859,025	\$0	\$298,090	\$231,423	\$1,388,538	\$208,281	\$1,596,800
450-1	VENICE GROVES	\$726,950	\$0	\$330,090	\$211,408	\$1,268,448	\$190,267	\$1,458,700
450-2	SOUTH VENICE #32,33,37	\$1,434,525	\$0	\$519,400	\$390,785	\$2,344,710	\$351,707	\$2,696,400
450-3	SOUTH VENICE#4,16,17	\$1,902,925	\$0	\$792,260	\$539,037	\$3,234,222	\$485,133	\$3,719,400
451-1	SOUTH VENICE#1,31,42,43	\$2,001,675	\$0	\$801,090	\$560,553	\$3,363,318	\$504,498	\$3,867,800
451-2	SOUTH VENICE#44,45	\$883,025	\$0	\$398,810	\$256,367	\$1,538,202	\$230,730	\$1,768,900
452-1	SOUTH VENICE#29,30	\$1,490,575	\$0	\$551,760	\$408,467	\$2,450,802	\$367,620	\$2,818,400
452-2	SOUTH VENICE#24,26,39	\$1,887,050	\$0	\$781,210	\$533,652	\$3,201,912	\$480,287	\$3,682,200
452-3	SOUTH VENICE#34,35	\$1,141,825	\$0	\$488,260	\$326,017	\$1,956,102	\$293,415	\$2,249,500
452-4	SOUTH VENICE#40,41	\$1,209,525	\$0	\$422,890	\$326,483	\$1,958,898	\$293,835	\$2,252,700
456-1	SOUTH VENICE#23,25,36	\$1,789,800	\$0	\$752,200	\$508,400	\$3,050,400	\$457,560	\$3,508,000
456-2	SOUTH VENICE#27,28	\$1,009,225	\$0	\$362,140	\$274,273	\$1,645,638	\$246,846	\$1,892,500
457-1	SOUTH VENICE SHORES	\$1,821,825	\$0	\$643,050	\$492,975	\$2,957,850	\$443,678	\$3,401,500
458-1	SOUTH VENICE#31,2,3,14	\$2,309,100	\$0	\$962,120	\$654,244	\$3,925,464	\$588,820	\$4,514,300
459-1	SOUTH VENICE#5,6,18,19,74	\$2,092,475	\$0	\$933,780	\$605,251	\$3,631,506	\$544,726	\$4,176,200
459-2	SOUTH VENICE#7-10	\$1,925,475	\$0	\$688,300	\$522,755	\$3,136,530	\$470,480	\$3,607,000
459-3	SOUTH VENICE#11-13,51,75	\$2,179,075	\$0	\$845,640	\$604,943	\$3,629,658	\$544,449	\$4,174,100
470-1	SOUTH VENICE	\$1,103,900	\$0	\$395,940	\$299,968	\$1,799,808	\$269,971	\$2,069,800
471-1	FLORIDA TROPICAL HOMESITES	\$0	\$523,788	\$332,120	\$171,182	\$1,027,089	\$154,063	\$1,181,200
471-2	GULF VIEW ESTATES	\$827,725	\$0	\$0	\$165,545	\$993,270	\$148,991	\$1,142,300
472-1	SOUTH VENICE#52,54,55,67	\$1,133,375	\$0	\$394,740	\$305,623	\$1,833,738	\$275,061	\$2,108,800
472-2	SOUTH VENICE	\$712,025	\$0	\$251,250	\$192,655	\$1,155,930	\$173,390	\$1,329,300
472-3	SOUTH VENICE	\$886,750	\$0	\$374,940	\$252,338	\$1,514,028	\$227,104	\$1,741,100
472-4	SOUTH VENICE	\$911,400	\$0	\$378,460	\$257,972	\$1,547,832	\$232,175	\$1,780,000
473-1	MOUNT ACRES	\$597,550	\$0	\$259,090	\$171,328	\$1,027,968	\$154,195	\$1,182,200
473-2	S.VENICE#69,69/MANASOTA	\$1,506,425	\$0	\$591,470	\$419,579	\$2,517,474	\$377,621	\$2,895,100
475-1	MANASOTA GARDENS	\$0	\$757,044	\$0	\$151,409	\$908,453	\$136,268	\$1,044,700
475-2	MANASOTA GARDENS	\$0	\$217,388	\$0	\$43,478	\$260,865	\$39,130	\$300,000
476-1	MANASOTA LUMBER CO.	\$0	\$497,644	\$0	\$99,529	\$597,173	\$89,576	\$686,700
477-1	MANASOTA MANOR	\$0	\$197,700	\$0	\$39,540	\$237,240	\$35,586	\$272,800
477-2	DALELAKE/ANDERSON	\$0	\$329,300	\$0	\$65,860	\$395,160	\$59,274	\$454,400
478-1	THOMAS HEASLEY SUB	\$0	\$202,363	\$0	\$40,473	\$242,835	\$36,425	\$279,300
478-2	BLUE DOLPHIN ESTS	\$0	\$128,250	\$0	\$25,650	\$153,900	\$23,085	\$177,000
478-3	GULF COAST GROVES	\$0	\$92,100	\$0	\$18,420	\$110,520	\$16,578	\$127,100
485-1	ENGLEWOOD PINES	\$0	\$211,200	\$0	\$42,240	\$253,440	\$38,016	\$291,500
485-2	BARTLETT/OVERBROOK	\$857,175	\$0	\$0	\$171,435	\$1,028,610	\$154,292	\$1,182,900
487-1	TANGELO PK./ENGLEWOOD GDNS	\$0	\$820,044	\$0	\$164,009	\$984,053	\$147,608	\$1,131,700
487-2	SMITH AC./OVERBROOK	\$1,509,200	\$0	\$0	\$301,840	\$1,811,040	\$271,656	\$2,082,700
487-3	OVERBROOK GARDENS	\$569,050	\$0	\$0	\$113,810	\$682,860	\$102,429	\$785,300
488-1	ENGLEWOOD GARDENS	\$0	\$268,900	\$0	\$53,780	\$322,680	\$48,402	\$371,100
492-1	ENGLEWOOD GRDNS#3	\$0	\$429,763	\$0	\$85,953	\$515,715	\$77,357	\$593,100
492-2	DIANE SUB/SPANISH WELLS	\$139,450	\$112,525	\$0	\$50,395	\$302,370	\$45,356	\$347,700
493-1	BAY VISTA BLVD	\$724,075	\$0	\$0	\$144,815	\$868,890	\$130,334	\$999,200
493-2	BAY VISTA / ANDERSON	\$543,125	\$55,913	\$0	\$119,808	\$718,845	\$107,827	\$826,700
494-1	PINE LAKE	\$669,100	\$0	\$0	\$133,820	\$802,920	\$120,438	\$923,400
495-1	PINE LAKE/BAYVIEW ESTS.	\$1,065,100	\$0	\$0	\$213,020	\$1,278,120	\$191,718	\$1,469,800
495-2	SANDALWOOD/LEMON BAY	\$687,550	\$252,213	\$0	\$187,953	\$1,127,715	\$169,157	\$1,296,900
496-1	HARTER/PARK FOREST SUB	\$79,275	\$350,569	\$0	\$85,969	\$515,813	\$77,372	\$593,200
496-2	PINE GLEN	\$0	\$243,500	\$0	\$48,700	\$292,200	\$43,830	\$336,000
497-1	SOUTHWIND HARBOR	\$295,825	\$798,775	\$0	\$218,920	\$1,313,520	\$197,028	\$1,510,500
497-2	LAMPPTS SUB/PERRONE	\$0	\$678,256	\$0	\$135,651	\$813,908	\$122,086	\$936,000
497-3	PLAT OF ENGLEWOOD	\$0	\$339,100	\$0	\$67,820	\$406,920	\$61,038	\$468,000

APPENDIX A-2
PROJECT COST ESTIMATE - SUMMARY

Project Number	Project Name	Subtotal Gravity Sewers	Subtotal Pressure Sewers	Subtotal Water	Mobilization, Traffic Control, Contingencies	Total Construction Cost	Engineering Administration	TOTAL
497-4	LASBURY PINE ACRES	\$0	\$662,869	\$0	\$132,574	\$795,443	\$119,316	\$914,800
498-2	ENGLEWOOD HOMEACRES	\$293,200	\$170,638	\$0	\$92,768	\$556,605	\$83,491	\$640,100
503-1	ENGLEWOOD PK./PALM GR.	\$1,101,175	\$84,200	\$0	\$237,075	\$1,422,450	\$213,368	\$1,635,800
503-2	ALLENWOOD/PINE HAVEN	\$1,098,975	\$0	\$0	\$219,795	\$1,318,770	\$197,816	\$1,516,600
504-1	BRUCEWOOD BAYOU	\$1,158,850	\$0	\$0	\$231,770	\$1,390,620	\$208,593	\$1,599,200
852-1	LAKEVIEW TER/CREEKLANE	\$514,075	\$22,813	\$0	\$107,378	\$644,265	\$96,640	\$740,900
852-2	ENGLEWOOD GARDENS#1	\$0	\$137,975	\$0	\$27,595	\$165,570	\$24,836	\$190,400
852-3	LAKEVIEW	\$948,900	\$241,806	\$0	\$238,141	\$1,428,848	\$214,327	\$1,643,200
853-1	DEER CREEK PARK	\$1,054,800	\$0	\$0	\$210,960	\$1,265,760	\$189,864	\$1,455,600
853-2	ENGLEWOOD GRDNS. #1,2	\$0	\$541,600	\$0	\$108,320	\$649,920	\$97,488	\$747,400
854-1	HORTON ESTS/BAYVIEW	\$929,625	\$0	\$0	\$185,925	\$1,115,550	\$167,333	\$1,282,900
854-2	HIGHPOINT/DEERCREEK	\$734,025	\$193,600	\$0	\$185,525	\$1,113,150	\$166,973	\$1,280,100
854-3	PINELAND SUB/SMITHFIELD	\$0	\$695,850	\$0	\$139,170	\$835,020	\$125,253	\$960,300

APPENDIX A-3
ESTIMATED QUANTITIES FOR GRAVITY SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Sewers			Number Services	Abandon Septic Tanks	Restoration (LF)		Lift Stations			Force Mains (LF)			Jack and Bore (LF)
	Number Manholes	10"				Pavement	Sodding	L.S. #1 (GPM)	L.S. #2 (GPM)	L.S. #3 (GPM)	4" DIA	6" DIA	8" DIA	
		8"	12"											
018-1				0	0	0	0							
019-1	103	29550		490	443	29550		197	107			350		
021-1	30	7725		141	173	7725		276				350		
029-1	41	13650		200	170	13650		136						
030-1				0	0	0								
030-2				0	0	0								
031-1				0	0	0								
038-1	34	11650		196	162	11650		106	45					
040-1				0	0	0								
040-2				0	0	0								
042-1	25	6900		109	108	6900		83						
043-1	33	9100		212	178	9100		207	147					
043-2	44	13375		252	191	13375								
043-3				0	0	0								
044-1	24	7325		96	84	7325		73						
044-2	11	2150		63	63	2150		57						
044-3	4	1250		21	18	1250								
045-1	36	8825		225	140	8825		90	36	45+58				
045-2	51	13875		236	232	13875		157						
046-1				0	0	0								
047-1	21	8250		131	114	8250		96						
048-1	22	5380		144	114	5380								
048-2	27	7500		199	126	7500		135						
048-3	15	4100		120	116	4100		90						
048-4	29	5550		110	90	5550		84						
049-1	12	3350		90	62	3350		72						
050-1				0	0	0								
051-1				0	0	0								
051-2				0	0	0								
052-1				0	0	0								
052-2	28	6625		159	153	6625		112						
054-1	26	7200		178	176	7200		123						
054-2	37	11625		215	183	11625		270						
055-1	23	5525		220	198	5525		148						
055-2	16	5175		216	214	5175								
055-3	31	7800		206	155	7800		286						
055-4	25	6075		253	84	6075								
056-1	80	19100		370	342	19100		110	171					
057-1	64	16025		229	209	16025								
057-2	38	10450		234	227	10450		42	288					
057-3	28	8925		193	189	8925								
058-1	21	5450		87	87	5450		70						
058-2	50	8200		201	190	8200		42						
060-1	26	6000		203	185	6000		212						
060-2	79	22825		427	377	22825		90	178					

APPENDIX A-3
ESTIMATED QUANTITIES FOR GRAVITY SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Sewers			Number Services	Abandon Septic Tanks	Restoration (LF)		Lift Stations			Force Mains (LF)			Jack and Bore (LF)
	Number Manholes	12"				Pavement	Sodding	L.S. #1 (GPM)	L.S. #2 (GPM)	L.S. #3 (GPM)	4" DIA	6" DIA	8" DIA	
		8"	10"											
060-3	28	8725		190	173	8725		130						
061-1	71	21850		476	422	21850		355						
061-2				0	0	0								
061-3	12	3750		93	84	3750								
061-4	24	7325		151	137	7325		48						
062-1	52	14225		554	478	14225		314						
062-2				0	0	0								
063-1	42	11525		220	172	11525		148						
063-2	85	23600		451	435	23600		282						
068-1				0	0	0								
068-2	3	525		14	13	525		28						
069-1	15	4200		95	78	4200		81						
069-2				0	0	0								
069-3				0	0	0								
070-1	12	2700		59	57	2700		54						
070-2	14	4000		66	66	4000		58						
071-1	28	8475		220	176	8475		268						
071-2	16	4500		87	85	4500		40						
071-3	9	2225		30	28	2225		29						
071-4	12	2875		90	71	2875		28						
072-1	32	8300		140	111	8300		161						
072-2	10	2050		104	96	2050								
072-3	40	12150		223	207	12150		353						
072-4	37	12525		228	148	12525								
072-5	12	4800		124	111	4800								
073-1	15	3825		100	78	3825		32						
073-2	19	6400		90	87	6400		59						
073-3	16	5225		90	87	5225		124						
074-1	10	3025		54	42	3025		80						
074-2	19	5600		97	86	5600		60						
074-3	21	5500		81	70	5500								
074-4	22	5400		100	60	5400								
074-5	33	8700		136	119	8700		89						
075-1	28	6725		268	190	6725		175						
075-2	40	12175		90	80	12175		135						
075-3	33	11725		227	221	11725		200						
076-1	52	12750		172	168	12750		161						
077-1	53	12150		233	199	12150		214						
077-2				0	0	0								
085-1	34	7425		142	133	7425		237						
085-2	24	8375		200	196	8375		136						
085-3	56	17100		296	246	17100		192						
086-1	21	4450		93	88	4450		50						
086-2	31	10575		182	178	10575		202						
086-3	32	9175		153	149	9175		109						

APPENDIX A-3
ESTIMATED QUANTITIES FOR GRAVITY SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	GRAVITY SEWERS			Number Manholes	Sewers		Number Services	Abandon		Restoration (LF)		Lift Stations			Force Mains (LF)			Jack and Bore (LF)
	8"		10"		12"	Septic Tanks		Pavement	Sodding	L.S. #1 (GPM)	L.S. #2 (GPM)	L.S. #3 (GPM)	4" DIA	6" DIA	8" DIA			
	Number	Length	Length															
087-1	44	9925			177	164	9925					123						
087-2	34	12404			254	183	12404					95	152					
088-1	38	9800			247	215	9800					168						
089-1					0	0	0											
089-2	15	3475			42	28	3475					44						
089-3					0	0	0											
089-4	11	3025			60	48	3025					72						
089-5	7	1875			35	35	1875					40						
090-1	26	7175			120	104	7175					81	29					
091-1	22	6950			139	128	6950					100						
091-2					0	0	0											
093-1	11	3125			90	72	3125					72						
099-1	18	5825			94	61	5825					75						
100-1					0	0	0											
101-1	32	9675			282	260	9675					267						
101-2	33	8850			145	139	8850											
103-1	34	8775			191	179	8775					131	78					
105-1	29	6850			208	138	6850					60	140					
109-1	24	6700			49	42	6700					74						
109-2	5	1150			22	21	1150											
111-1	49	11850			186	169	11850					128						
112-1	46	14500			245	216	14500					162						
112-2	20	5200			84	84	5200					69						
125-1	7	1400			42	31	1400					37						
130-1	36	9000			169	160	9000					131						
130-2	8	2250			123	52	2250					107						
132-1	30	7525			233	158	7525					155						
132-2	34	10950			252	223	10950					100	86					
143-1	19	5350			96	39	5350					105						
143-2	45	12425			343	181	12425					219						
147-1					0	0	0											
148-1	30	7350			97	69	7350					82						
148-2					0	0	0											
160-1					0	0	0											
161-1					0	0	0											
165-1					0	0	0											
166-1	21	4020			63	61	4020					67						
166-2					0	0	0											
167-1	50	12800			166	141	12800					153	44			1450		
168-1					0	0	0											
169-1	21	5110			136	134	5110					167						
170-1	43	12660			327	160	12660					149	81		2400			
171-1	50	9680			142	128	9680					120	64					
171-2	21	6520			97	81	6520					60						
172-1	91	20610			336	318	20610					221	120		2020			

APPENDIX A-3
 ESTIMATED QUANTITIES FOR GRAVITY SEWER COLLECTION SYSTEMS
 SARASOTA COUNTY

Project Number	GRAVITY SEWERS			Number Services	Abandon Septic Tanks	Restoration (LF)		Lift Stations			Force Mains (LF)			Jack and Bore (LF)
	Number Manholes	8"	Sewers 10"			12"	Pavement	Sodding	L.S. #1 (GPM)	L.S. #2 (GPM)	L.S. #3 (GPM)	4" DIA	6" DIA	
854-3				0	0	0	0							

APPENDIX A-4
COST ESTIMATE - GRAVITY SEWERS

Project Number	Sewers			Services	Abandon septic tanks	Restoration		Lift Stations			Force Mains			Jack and Bore	Total Estimated Const. Cost	
	Manholes	8"	10"			12"	Pavement	Sodding	L.S. #1	L.S. #2	L.S. #3	4" DIA	6" DIA			8" DIA
405-1	\$50,750	\$200,400	\$0	\$0	\$74,700	\$23,600	\$167,000	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$581,450	
405-2	\$159,250	\$565,200	\$0	\$0	\$285,300	\$112,000	\$471,000	\$0	\$325,000	(5 LIFT STATIONS)	\$54,000	\$0	\$0	\$0	\$1,971,750	
405-3	\$54,250	\$269,700	\$0	\$0	\$90,000	\$37,600	\$224,750	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$741,300	
410-1	\$50,750	\$211,200	\$0	\$0	\$81,900	\$36,400	\$176,000	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$621,250	
433-1	\$59,500	\$267,000	\$0	\$0	\$135,900	\$39,600	\$222,500	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$789,500	
434-1	\$78,750	\$399,750	\$0	\$0	\$220,500	\$77,600	\$333,125	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,184,725	
436-1	\$70,000	\$324,000	\$0	\$0	\$173,700	\$62,800	\$270,000	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$900,500	
436-2	\$63,000	\$315,000	\$0	\$0	\$145,800	\$56,800	\$262,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$943,100	
436-3	\$63,000	\$349,500	\$0	\$0	\$122,400	\$52,400	\$291,250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$878,550	
449-1	\$70,000	\$381,750	\$0	\$0	\$157,500	\$57,200	\$318,125	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,059,575	
449-2	\$96,250	\$506,250	\$0	\$0	\$294,300	\$90,000	\$421,875	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$1,473,675	
449-3	\$57,750	\$282,750	\$0	\$0	\$157,500	\$50,400	\$235,625	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$859,025	
450-1	\$40,250	\$246,000	\$0	\$0	\$132,300	\$38,400	\$205,000	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$726,950	
450-2	\$85,750	\$492,750	\$0	\$0	\$280,800	\$89,600	\$410,625	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,434,525	
450-3	\$134,750	\$720,750	\$0	\$0	\$279,000	\$92,800	\$600,625	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,902,925	
451-1	\$122,500	\$663,750	\$0	\$0	\$418,500	\$168,800	\$553,125	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$2,001,675	
451-2	\$70,000	\$287,250	\$0	\$0	\$163,800	\$57,600	\$239,375	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$883,025	
452-1	\$96,250	\$542,250	\$0	\$0	\$241,200	\$84,000	\$451,875	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,490,575	
452-2	\$112,000	\$622,500	\$0	\$0	\$394,200	\$139,600	\$518,750	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$1,887,050	
452-3	\$82,250	\$426,750	\$0	\$0	\$160,200	\$52,000	\$355,625	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$1,141,825	
452-4	\$87,500	\$467,250	\$0	\$0	\$147,600	\$52,800	\$389,375	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$1,209,525	
456-1	\$106,750	\$646,500	\$0	\$0	\$316,800	\$106,000	\$538,750	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,789,800	
456-2	\$64,750	\$351,750	\$0	\$0	\$185,400	\$49,200	\$293,125	\$0	\$65,000	\$65,000	\$0	\$0	\$0	\$0	\$1,009,225	
457-1	\$122,500	\$635,250	\$0	\$0	\$308,700	\$96,000	\$529,375	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$2,309,100	
458-1	\$152,250	\$793,500	\$0	\$0	\$450,900	\$151,200	\$661,250	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$1,821,825	
459-1	\$154,000	\$723,750	\$0	\$0	\$405,000	\$131,600	\$603,125	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$2,092,475	
459-2	\$124,250	\$641,250	\$0	\$0	\$370,800	\$104,800	\$534,375	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$0	\$1,925,475	
459-3	\$152,250	\$764,250	\$0	\$0	\$409,500	\$141,200	\$636,875	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$2,179,075	
470-1	\$71,750	\$376,500	\$0	\$0	\$202,500	\$64,400	\$313,750	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$1,103,900	
471-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
471-2	\$50,750	\$234,750	\$0	\$0	\$261,000	\$85,600	\$195,625	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$827,725	
472-1	\$80,500	\$390,750	\$0	\$0	\$204,300	\$67,200	\$325,625	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$1,133,375	
472-2	\$52,500	\$254,250	\$0	\$0	\$100,800	\$27,600	\$211,875	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$712,025	
472-3	\$61,250	\$312,000	\$0	\$0	\$155,700	\$32,800	\$260,000	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$886,750	
472-4	\$71,750	\$283,500	\$0	\$0	\$150,300	\$39,600	\$236,250	\$0	\$65,000	\$65,000	\$0	\$0	\$0	\$0	\$911,400	
473-1	\$36,750	\$198,000	\$0	\$0	\$111,600	\$21,200	\$165,000	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$597,550	
473-2	\$113,750	\$534,750	\$0	\$0	\$288,900	\$58,400	\$445,625	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$1,506,425	
475-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
475-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
476-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
477-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
477-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
478-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
478-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
478-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
485-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
485-2	\$49,000	\$282,750	\$0	\$0	\$165,600	\$59,200	\$235,625	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$857,175	
487-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
487-2	\$87,500	\$495,000	\$0	\$0	\$225,000	\$89,200	\$412,500	\$50,000	\$100,000	\$50,000	\$0	\$0	\$0	\$0	\$1,509,200	
487-3	\$36,500	\$175,500	\$0	\$0	\$102,600	\$41,200	\$146,250	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$569,050	

APPENDIX A-5
ESTIMATED QUANTITIES FOR LOW-PRESSURE SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Number Grinder Pumps		Force Mains (LF)		Isolation Valves (Number)				Number Services	Lift Station (GPM)	Restoration (LF)		Jack and Bore (LF)			Lift Station Force Mains (LF)		
	2"	3"	4"	6"	2"	3"	4"	6"			Pavement	Sodding	4" DIA	6" DIA	8" DIA			
063-2																		
068-1	24	800	900		1	1			25	35	850	850	0	0	0	0	0	0
068-2											0	0	0	0	0	0	0	0
069-1											0	0	0	0	0	0	0	0
069-2	15	2400			2				20	32	1200	1200	0	0	0	0	0	0
069-3	7	500			1				11		250	250	0	0	0	0	0	0
070-1											0	0	0	0	0	0	0	0
070-2											0	0	0	0	0	0	0	0
071-1											0	0	0	0	0	0	0	0
071-2											0	0	0	0	0	0	0	0
071-3											0	0	0	0	0	0	0	0
071-4											0	0	0	0	0	0	0	0
072-1											0	0	0	0	0	0	0	0
072-2											0	0	0	0	0	0	0	0
072-3											0	0	0	0	0	0	0	0
072-4											0	0	0	0	0	0	0	0
072-5											0	0	0	0	0	0	0	0
073-1											0	0	0	0	0	0	0	0
073-2											0	0	0	0	0	0	0	0
073-3											0	0	0	0	0	0	0	0
074-1	41	3375			4				50		1688	1688	0	0	0	0	0	0
074-2											0	0	0	0	0	0	0	0
074-3											0	0	0	0	0	0	0	0
074-4											0	0	0	0	0	0	0	0
074-5											0	0	0	0	0	0	0	0
075-1											0	0	0	0	0	0	0	0
075-2	98	3125			6				108		1563	1563	0	0	0	0	0	0
075-3	82	5150	300		6	1			84		2725	2725	0	0	0	0	0	0
076-1	69	5150	350		5	1			72		2750	2750	0	0	0	0	0	0
077-1	48	1950	600		2	1			60		1275	1275	0	0	0	0	0	0
077-2	32	1300			2				35		650	650	0	0	0	0	0	0
085-1	30	2450	550		4	1			32		1500	1500	0	0	0	0	0	0
085-2											0	0	0	0	0	0	0	0
085-3	36	1100	400		2	1			45		750	750	0	0	0	0	0	0
086-1											0	0	0	0	0	0	0	0
086-2	14	600			1				14		300	300	0	0	0	0	0	0
086-3											0	0	0	0	0	0	0	0
087-1											0	0	0	0	0	0	0	0
087-2											0	0	0	0	0	0	0	0
088-1	8	1200			1				8		600	600	0	0	0	0	0	0
089-1	15	950			2				22		475	475	0	0	0	0	0	0
089-2											0	0	0	0	0	0	0	0
089-3	61	3300	250		4	1			254	167	1775	1775	0	0	0	0	0	0
089-4											0	0	0	0	0	0	0	0
089-5											0	0	0	0	0	0	0	0
090-1											0	0	0	0	0	0	0	0
091-1	19	1500			1				19		750	750	0	0	0	0	0	0
091-2	51	5000	2800		5	2			52	90	3900	3900	0	0	0	0	0	0
093-1											0	0	0	0	0	0	0	0
099-1											0	0	0	0	0	0	0	0
100-1	58	2700	1400		3	2			70	61	2050	2050	0	0	0	0	0	0
101-1											0	0	0	0	0	0	0	0
101-2											0	0	0	0	0	0	0	0

LOW PRESSURE

APPENDIX A-5
ESTIMATED QUANTITIES FOR LOW-PRESSURE SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Number Grinder Pumps			Force Mains (LF)			Isolation Valves (Number)				Number Services	Lift Station (GPM)	Restoration (LF)		Jack and Bore (LF)	Lift Station Force Mains (LF)		
	2"	3"	4"	2"	3"	4"	2"	3"	4"	6"			6"	6"		4" DIA	6" DIA	8" DIA
103-1																		
105-1	68	1900	2200		2	3					68		0	2050				
109-1	129	7900	950		12	1					138	100	4425	4425				
109-2	3	300			1						3		150	150				
111-1													0	0				
112-1													0	0				
112-2													0	0				
125-1	44	1575	1375		2	1					45		1475	1475				
130-1													0	0				
130-2	21	1525	900		1	2					49		1213	1213				
132-1													0	0				
132-2													0	0				
143-1	10	1800			3						24		900	900				
143-2													0	0				
147-1	27	2200			3						27	36	1100	1100				
148-1													0	0				
148-2	10	1000			1						10	26	500	500				
160-1	116	8560	4230	1050	17	9					171	119	6920	6920				
161-1	47	5930	1830		6	3					60	55	3880	3880				
165-1	37	2490	1670		3	3					56	52	2080	2080				
166-1	18	1050			1						18		525	525				
166-2	82	5050	1060		8	2					92		3055	3055				
167-1													0	0				
168-1	86	1540	4150		4	4					87	70	2845	2845				
169-1													0	0				
170-1													0	0				
171-1	26	3050			4						39		1525	1525				
171-2	14	1320			2						17		660	660				
172-1	9	1330			2						9		665	665				
172-2	123	2990	3220		5	4					133		3105	3105				
172-3	21	3490			3						21		1745	1745				
234-1	43	2650	1850		6	2					54		2250	2250				
236-1	50	4350	1000		6	1					56		2675	2675				
241-1													0	0				
241-2	64	2500	2900		4	2					68		2700	2700				
242-1	72	3150	3400		3	2					107	122	3275	3275				
383-1	25	3590	1290		6	5					43	45	2440	2440				
384-1													0	0				
384-2													0	0				
384-3													0	0				
385-1	27	5150	2990		10	5					39	43	4070	4070				
386-1													0	0				
386-2	5	600			1						8		300	300				
403-1													0	0				
405-1													0	0				
405-2													0	0				
405-3													0	0				
410-1													0	0				
433-1													0	0				
434-1													0	0				
436-1													0	0				
436-2													0	0				
436-3													0	0				

LOW PRESSURE

APPENDIX A-5
ESTIMATED QUANTITIES FOR LOW-PRESSURE SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Number Grinder Pumps		Force Mains (LF)			Isolation Valves (Number)					Number Services	Lift Station (GPM)	Lift Station 4" DIA	Lift Station 6" DIA	Lift Station 8" DIA	Jack and Bore (LF)	Restoration (LF) Sodding	Pavement	
	2"	3"	4"	6"	2"	3"	4"	6"	2"	3"									4"
449-1																			
449-2																			
449-3																			
450-1																			
450-2																			
450-3																			
451-1																			
451-2																			
452-1																			
452-2																			
452-3																			
452-4																			
456-1																			
456-2																			
457-1																			
458-1																			
459-1																			
459-2																			
459-3																			
470-1																			
471-1	77	4400	4050	2400		4	3	2			134	98	5425	5425					
471-2																			
472-1																			
472-2																			
472-3																			
472-4																			
473-1																			
473-2																			
475-1	146	6450	5925	2800		6	7	4			189		7588	7588					
475-2	27	5050	2350	850		8	4	1			48		4125	4125					
476-1	64	13925	3375			10	4				159		8650	8650					
477-1	43	3100				5					53		1550	1550					
477-2	41	3675	4250			4	4				64	57	3963	3963					
478-1	41	2875	1000			3	2				52		1938	1938					
478-2	27	2500				2					30		1250	1250					
478-3	17	1900	600			2	1				17		1250	1250					
485-1	42	4750	300			5					42		2525	2525					
485-2																			
487-1	148	10200	7425	2300		13	6	2			190		9963	9963					
487-2																			
487-3																			
488-1	50	1350	700	3350		1	1	3			64		2700	2700					
492-1	88	3750	4850			3	4				90		4300	4300					
492-2	24	1750	400			2					24		1075	1075					
493-1																			
493-2	8	900	550			2	1				22		725	725					
494-1																			
495-1																			
495-2	45	3750	2850			4	3				55		3300	3300					
496-1	60	7100	2525			8	4				85		4813	4813					
496-2	39	1900	1800			2	2				48	48	1850	1850					
497-1	200	4100	1100			6	6				225		2600	2600					
497-2	150	4850	1675	2050		7	5	3			187		4288	4288					

LOW PRESSURE

APPENDIX A-5
ESTIMATED QUANTITIES FOR LOW-PRESSURE SEWER COLLECTION SYSTEMS
SARASOTA COUNTY

Project Number	Number Grinder Pumps	Force Mains (LF)			Isolation Valves (Number)				Number Services	Lift Station (GPM)	Restoration (LF)		Jack and Bore (LF)	Lift Station Force Mains (LF)		
		2"	3"	4"	2"	3"	4"	6"			Pavement	Sodding		4" DIA	6" DIA	8" DIA
497-3	70	3775	2650		5	4		6"	78		3213	3213				
497-4	129	8625	2675	1375	16	5	2		186		6338	6338				
498-2	25	3000	650		6	1			84		1825	1825				
503-1	18	1800			2				15		900	900				
503-2											0	0				
504-1											0	0				
852-1	2	1075			1				7		538	538				
852-2	15	1450	1000		1	1			20	32	1225	1225				
852-3	56	2800	375		3	1			59		1588	1588				
853-1											0	0				
853-2	115		2900				3		140	101	1450	1450				
854-1									0		0	0				
854-2	32	1800			2				44	46	900	900				
854-3	123	8800	3200	2550	11	7	4		224		7275	7275				

LOW PRESSURE

APPENDIX A-6
 COST ESTIMATE - LOW PRESSURE SEWERS

Project Number	Grinder Pumps		Force Mains		Isolation Valves				Services	Pavement	Restoration Sidding	Lift Station	Lift Station Force Mains		Jack and Bore	Total Estimated Const. Cost
	2"	3"	3"	4"	2"	3"	4"	6"					4" DIA	6" DIA		
069-2	\$45,000	\$10,800	\$0	\$0	\$0	\$500	\$0	\$0	\$12,000	\$15,000	\$1,800	\$50,000	\$0	\$0	\$0	\$135,100
069-3	\$21,000	\$2,250	\$0	\$0	\$0	\$250	\$0	\$0	\$6,600	\$3,125	\$375	\$0	\$0	\$0	\$0	\$33,600
070-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
070-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
071-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
071-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
071-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
071-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
072-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
072-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
072-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
072-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
072-5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
073-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
073-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
073-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
074-1	\$123,000	\$15,188	\$0	\$0	\$0	\$1,000	\$0	\$0	\$30,000	\$21,094	\$2,531	\$0	\$0	\$0	\$0	\$192,813
074-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
074-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
074-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
074-5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
075-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
075-2	\$294,000	\$14,063	\$0	\$0	\$0	\$1,500	\$0	\$0	\$64,800	\$19,531	\$2,344	\$0	\$0	\$0	\$0	\$396,238
075-3	\$246,000	\$23,175	\$2,025	\$0	\$0	\$1,500	\$300	\$0	\$50,400	\$34,063	\$4,088	\$0	\$0	\$0	\$0	\$361,550
076-1	\$207,000	\$23,175	\$2,363	\$0	\$0	\$1,250	\$300	\$0	\$43,200	\$34,375	\$4,125	\$0	\$0	\$0	\$0	\$315,788
077-1	\$144,000	\$8,775	\$4,050	\$0	\$0	\$500	\$300	\$0	\$36,000	\$15,938	\$1,913	\$0	\$0	\$0	\$0	\$211,475
077-2	\$96,000	\$5,850	\$0	\$0	\$0	\$500	\$0	\$0	\$21,000	\$8,125	\$975	\$0	\$0	\$0	\$0	\$132,450
085-1	\$90,000	\$11,025	\$3,713	\$0	\$0	\$1,000	\$300	\$0	\$19,200	\$18,750	\$2,250	\$0	\$0	\$0	\$0	\$146,238
085-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
085-3	\$108,000	\$4,950	\$2,700	\$0	\$0	\$500	\$300	\$0	\$27,000	\$9,375	\$1,125	\$0	\$0	\$0	\$0	\$153,950
086-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
086-2	\$42,000	\$2,700	\$0	\$0	\$0	\$250	\$0	\$0	\$8,400	\$3,750	\$450	\$0	\$0	\$0	\$0	\$51,550
086-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
087-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
087-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
088-1	\$24,000	\$5,400	\$0	\$0	\$0	\$250	\$0	\$0	\$4,800	\$7,500	\$900	\$0	\$0	\$0	\$0	\$42,850
089-1	\$45,000	\$4,275	\$0	\$0	\$0	\$500	\$0	\$0	\$13,200	\$5,938	\$713	\$0	\$0	\$0	\$0	\$69,625
089-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
089-3	\$183,000	\$14,850	\$1,688	\$0	\$0	\$1,000	\$300	\$0	\$152,400	\$22,188	\$2,663	\$75,000	\$0	\$0	\$0	\$453,088
089-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
089-5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
090-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
091-1	\$57,000	\$6,750	\$0	\$0	\$0	\$250	\$0	\$0	\$11,400	\$9,375	\$1,125	\$0	\$0	\$0	\$0	\$85,900
091-2	\$153,000	\$22,500	\$18,900	\$0	\$0	\$1,250	\$600	\$0	\$31,200	\$48,750	\$5,850	\$65,000	\$0	\$0	\$0	\$347,050
093-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
099-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
100-1	\$174,000	\$12,150	\$9,450	\$0	\$0	\$750	\$600	\$0	\$42,000	\$25,625	\$3,075	\$65,000	\$0	\$0	\$0	\$332,050
101-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
101-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
103-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
105-1	\$204,000	\$8,550	\$14,850	\$0	\$0	\$500	\$900	\$0	\$40,800	\$25,625	\$3,075	\$0	\$0	\$0	\$0	\$298,300
109-1	\$387,000	\$35,550	\$6,413	\$0	\$0	\$3,000	\$300	\$0	\$82,800	\$55,313	\$6,638	\$65,000	\$0	\$0	\$0	\$642,013
109-2	\$9,000	\$1,350	\$0	\$0	\$0	\$250	\$0	\$0	\$1,800	\$1,875	\$225	\$0	\$0	\$0	\$0	\$14,500
111-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
112-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
112-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
125-1	\$132,000	\$7,088	\$9,281	\$0	\$0	\$500	\$300	\$0	\$27,000	\$18,438	\$2,213	\$0	\$0	\$0	\$0	\$196,819

APPENDIX A-6
 COST ESTIMATE - LOW PRESSURE SEWERS

Project Number	Grinder Pumps		Force Mains		Isolation Valves			6"	Services	Restoration	Lift Station	Jack and Bore	Lift Station Force Mains			Total Estimated Const. Cost
	2"	3"	4"	6"	2"	3"	4"						4" DIA	6" DIA	8" DIA	
456-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
456-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
457-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
458-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
459-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
459-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
459-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
470-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
471-1	\$19,800	\$27,338	\$21,600	\$0	\$1,000	\$800	\$800	\$0	\$80,400	\$67,813	\$8,138	\$65,000	\$0	\$0	\$0	\$523,788
471-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
472-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
472-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
472-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
472-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
473-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
473-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
475-1	\$438,000	\$29,025	\$39,994	\$25,200	\$1,500	\$2,100	\$1,600	\$0	\$113,400	\$94,844	\$11,381	\$0	\$0	\$0	\$0	\$757,044
475-2	\$81,000	\$22,725	\$15,863	\$7,650	\$2,000	\$1,200	\$400	\$0	\$28,800	\$51,563	\$6,188	\$0	\$0	\$0	\$0	\$217,388
476-1	\$192,000	\$62,663	\$22,781	\$0	\$2,500	\$1,200	\$0	\$0	\$95,400	\$108,125	\$12,975	\$0	\$0	\$0	\$0	\$497,644
477-1	\$129,000	\$13,950	\$0	\$0	\$1,250	\$0	\$0	\$0	\$31,800	\$19,375	\$2,325	\$0	\$0	\$0	\$0	\$197,700
477-2	\$123,000	\$16,538	\$28,688	\$0	\$1,000	\$1,200	\$0	\$0	\$38,400	\$49,531	\$5,944	\$65,000	\$0	\$0	\$0	\$329,300
478-1	\$123,000	\$12,938	\$6,750	\$0	\$750	\$600	\$0	\$0	\$31,200	\$24,219	\$2,906	\$0	\$0	\$0	\$0	\$202,363
478-2	\$81,000	\$11,250	\$0	\$0	\$500	\$0	\$0	\$0	\$18,000	\$15,625	\$1,875	\$0	\$0	\$0	\$0	\$128,250
478-3	\$81,000	\$4,950	\$4,050	\$0	\$500	\$300	\$0	\$0	\$10,200	\$15,625	\$1,875	\$0	\$0	\$0	\$0	\$92,100
485-1	\$126,000	\$21,375	\$2,025	\$0	\$1,250	\$0	\$0	\$0	\$25,200	\$31,563	\$3,788	\$0	\$0	\$0	\$0	\$211,200
485-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
487-1	\$444,000	\$45,900	\$50,119	\$20,700	\$3,250	\$1,800	\$800	\$0	\$114,000	\$124,531	\$14,944	\$0	\$0	\$0	\$0	\$820,044
487-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
487-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
488-1	\$150,000	\$6,075	\$4,125	\$30,150	\$250	\$300	\$1,200	\$0	\$38,400	\$33,750	\$4,050	\$0	\$0	\$0	\$0	\$268,900
492-1	\$264,000	\$16,738	\$32,738	\$0	\$750	\$1,200	\$0	\$0	\$54,000	\$53,750	\$6,450	\$0	\$0	\$0	\$0	\$429,763
492-2	\$72,000	\$7,875	\$2,700	\$0	\$500	\$0	\$0	\$0	\$14,400	\$13,438	\$1,613	\$0	\$0	\$0	\$0	\$112,525
493-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
493-2	\$24,000	\$4,050	\$3,713	\$0	\$500	\$300	\$0	\$0	\$13,200	\$9,063	\$1,088	\$0	\$0	\$0	\$0	\$55,913
494-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
495-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
495-2	\$135,000	\$16,875	\$19,238	\$0	\$1,000	\$900	\$0	\$0	\$33,000	\$41,250	\$4,950	\$0	\$0	\$0	\$0	\$252,213
496-1	\$180,000	\$31,950	\$17,044	\$0	\$2,000	\$1,200	\$0	\$0	\$51,000	\$60,156	\$7,219	\$0	\$0	\$0	\$0	\$350,569
496-2	\$117,000	\$9,550	\$12,150	\$0	\$500	\$600	\$0	\$0	\$28,800	\$23,125	\$2,775	\$50,000	\$0	\$0	\$0	\$243,500
497-1	\$600,000	\$18,450	\$7,425	\$0	\$1,500	\$0	\$0	\$0	\$135,000	\$32,500	\$3,900	\$0	\$0	\$0	\$0	\$798,775
497-2	\$450,000	\$21,825	\$11,306	\$18,450	\$1,750	\$1,500	\$1,200	\$0	\$112,200	\$53,594	\$6,431	\$0	\$0	\$0	\$0	\$678,256
497-3	\$210,000	\$16,888	\$17,888	\$0	\$1,250	\$1,200	\$0	\$0	\$46,800	\$40,156	\$4,819	\$0	\$0	\$0	\$0	\$339,100
497-4	\$387,000	\$38,813	\$18,056	\$12,375	\$4,000	\$1,500	\$800	\$0	\$111,600	\$79,219	\$9,506	\$0	\$0	\$0	\$0	\$662,869
503-1	\$54,000	\$8,100	\$3,350	\$0	\$500	\$300	\$0	\$0	\$9,000	\$22,813	\$2,738	\$0	\$0	\$0	\$0	\$170,638
503-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250	\$1,350	\$0	\$0	\$0	\$0	\$84,200
504-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
504-2	\$6,000	\$4,838	\$0	\$0	\$250	\$0	\$0	\$0	\$4,200	\$6,719	\$806	\$0	\$0	\$0	\$0	\$22,813
852-1	\$45,000	\$6,525	\$6,750	\$0	\$250	\$300	\$0	\$0	\$12,000	\$15,313	\$1,838	\$50,000	\$0	\$0	\$0	\$137,975
852-3	\$168,000	\$12,600	\$2,531	\$0	\$750	\$300	\$0	\$0	\$35,400	\$19,844	\$2,381	\$0	\$0	\$0	\$0	\$241,806
853-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
853-2	\$345,000	\$0	\$0	\$26,100	\$0	\$0	\$1,200	\$0	\$84,000	\$18,125	\$2,175	\$65,000	\$0	\$0	\$0	\$541,600
854-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
854-2	\$96,000	\$8,100	\$0	\$0	\$500	\$0	\$0	\$0	\$26,400	\$11,250	\$1,350	\$50,000	\$0	\$0	\$0	\$193,600
854-3	\$369,000	\$39,600	\$21,600	\$22,950	\$2,750	\$2,100	\$1,600	\$0	\$134,400	\$90,938	\$10,913	\$0	\$0	\$0	\$0	\$695,850

APPENDIX A-7

COST ESTIMATE - WATER DISTRIBUTION

25-Oct-94

Project Number	Water Main Lengths (LF)				Services	Estimated Costs					Total Estimated Const. Cost
	6"	8"	10"	12"		6"	8"	10"	12"	Services	
018-1					0	\$0	\$0	\$0	\$0	\$0	\$0
019-1					0	\$0	\$0	\$0	\$0	\$0	\$0
021-1					0	\$0	\$0	\$0	\$0	\$0	\$0
029-1	8000	1600	2500		200	\$152,000	\$38,400	\$72,500	\$0	\$84,500	\$347,400
030-1		1200			7	\$0	\$28,800	\$0	\$0	\$2,960	\$31,760
030-2		1050			14	\$0	\$25,200	\$0	\$0	\$5,920	\$31,120
031-1					0	\$0	\$0	\$0	\$0	\$0	\$0
038-1	5400	5350	300		196	\$102,600	\$128,400	\$8,700	\$0	\$82,810	\$322,510
040-1					0	\$0	\$0	\$0	\$0	\$0	\$0
040-2					0	\$0	\$0	\$0	\$0	\$0	\$0
042-1					0	\$0	\$0	\$0	\$0	\$0	\$0
043-1	900	5500	950		212	\$17,100	\$132,000	\$27,550	\$0	\$89,570	\$266,220
043-2	9450		3950		252	\$179,550	\$0	\$114,550	\$0	\$106,470	\$400,570
043-3	2050	3500		3950	78	\$38,950	\$84,000	\$0	\$134,300	\$32,960	\$290,210
044-1	4450	6950	1500		160	\$84,550	\$166,800	\$43,500	\$0	\$67,600	\$362,450
044-2					0	\$0	\$0	\$0	\$0	\$0	\$0
044-3		1350			21	\$0	\$32,400	\$0	\$0	\$8,870	\$41,270
045-1	1100	9150			225	\$20,900	\$219,600	\$0	\$0	\$95,060	\$335,560
045-2					0	\$0	\$0	\$0	\$0	\$0	\$0
046-1		1000			9	\$0	\$24,000	\$0	\$0	\$3,800	\$27,800
047-1	5200				131	\$98,800	\$0	\$0	\$0	\$55,350	\$154,150
048-1	5400		1400		240	\$102,600	\$0	\$40,600	\$0	\$101,400	\$244,600
048-2	3900	1300	1500		199	\$74,100	\$31,200	\$43,500	\$0	\$84,080	\$232,880
048-3		2750	600		120	\$0	\$66,000	\$17,400	\$0	\$50,700	\$134,100
048-4					0	\$0	\$0	\$0	\$0	\$0	\$0
049-1		3450			95	\$0	\$82,800	\$0	\$0	\$40,140	\$122,940
050-1		600			10	\$0	\$14,400	\$0	\$0	\$4,230	\$18,630
051-1					0	\$0	\$0	\$0	\$0	\$0	\$0
051-2					0	\$0	\$0	\$0	\$0	\$0	\$0
052-1					0	\$0	\$0	\$0	\$0	\$0	\$0
052-2					0	\$0	\$0	\$0	\$0	\$0	\$0
054-1					0	\$0	\$0	\$0	\$0	\$0	\$0
054-2	6400	800	2850		215	\$121,600	\$19,200	\$82,650	\$0	\$90,840	\$314,290
055-1					0	\$0	\$0	\$0	\$0	\$0	\$0
055-2					0	\$0	\$0	\$0	\$0	\$0	\$0
055-3	8400	1800			206	\$159,600	\$43,200	\$0	\$0	\$87,040	\$289,840
055-4					0	\$0	\$0	\$0	\$0	\$0	\$0
056-1					0	\$0	\$0	\$0	\$0	\$0	\$0
057-1					0	\$0	\$0	\$0	\$0	\$0	\$0
057-2					0	\$0	\$0	\$0	\$0	\$0	\$0
057-3					0	\$0	\$0	\$0	\$0	\$0	\$0
058-1					0	\$0	\$0	\$0	\$0	\$0	\$0
058-2					0	\$0	\$0	\$0	\$0	\$0	\$0
060-1					0	\$0	\$0	\$0	\$0	\$0	\$0
060-2					0	\$0	\$0	\$0	\$0	\$0	\$0
060-3					0	\$0	\$0	\$0	\$0	\$0	\$0
061-1					0	\$0	\$0	\$0	\$0	\$0	\$0
061-2					0	\$0	\$0	\$0	\$0	\$0	\$0
061-3					0	\$0	\$0	\$0	\$0	\$0	\$0
061-4					0	\$0	\$0	\$0	\$0	\$0	\$0
062-1					0	\$0	\$0	\$0	\$0	\$0	\$0
062-2	800	2550			32	\$15,200	\$61,200	\$0	\$0	\$13,520	\$89,920
063-1					0	\$0	\$0	\$0	\$0	\$0	\$0
063-2					0	\$0	\$0	\$0	\$0	\$0	\$0
068-1					0	\$0	\$0	\$0	\$0	\$0	\$0
068-2					0	\$0	\$0	\$0	\$0	\$0	\$0
069-1		4450			95	\$0	\$106,800	\$0	\$0	\$40,140	\$146,940
069-2					0	\$0	\$0	\$0	\$0	\$0	\$0
069-3					0	\$0	\$0	\$0	\$0	\$0	\$0
070-1					0	\$0	\$0	\$0	\$0	\$0	\$0
070-2	2150	1650			66	\$40,850	\$39,600	\$0	\$0	\$27,890	\$108,340
071-1					0	\$0	\$0	\$0	\$0	\$0	\$0
071-2		1400			87	\$0	\$33,600	\$0	\$0	\$36,760	\$70,360
071-3	2300				30	\$43,700	\$0	\$0	\$0	\$12,680	\$56,380
071-4		1200			90	\$0	\$28,800	\$0	\$0	\$38,030	\$66,830
072-1	2600				50	\$49,400	\$0	\$0	\$0	\$21,130	\$70,530
072-2		1300			32	\$0	\$31,200	\$0	\$0	\$13,520	\$44,720

APPENDIX A-7
COST ESTIMATE - WATER DISTRIBUTION

25-Oct-94

Project Number	Water Main Lengths (LF)					Estimated Costs					Total Estimated Const. Cost
	6"	8"	10"	12"	Services	6"	8"	10"	12"	Services	
072-3					0	\$0	\$0	\$0	\$0	\$0	\$0
072-4					0	\$0	\$0	\$0	\$0	\$0	\$0
072-5					0	\$0	\$0	\$0	\$0	\$0	\$0
073-1					0	\$0	\$0	\$0	\$0	\$0	\$0
073-2	2900				70	\$55,100	\$0	\$0	\$0	\$29,580	\$84,680
073-3	1750				40	\$33,250	\$0	\$0	\$0	\$16,900	\$50,150
074-1					0	\$0	\$0	\$0	\$0	\$0	\$0
074-2					0	\$0	\$0	\$0	\$0	\$0	\$0
074-3	1700				50	\$32,300	\$0	\$0	\$0	\$21,130	\$53,430
074-4					0	\$0	\$0	\$0	\$0	\$0	\$0
074-5					0	\$0	\$0	\$0	\$0	\$0	\$0
075-1					0	\$0	\$0	\$0	\$0	\$0	\$0
075-2					0	\$0	\$0	\$0	\$0	\$0	\$0
075-3					0	\$0	\$0	\$0	\$0	\$0	\$0
076-1					0	\$0	\$0	\$0	\$0	\$0	\$0
077-1					0	\$0	\$0	\$0	\$0	\$0	\$0
077-2					0	\$0	\$0	\$0	\$0	\$0	\$0
085-1					0	\$0	\$0	\$0	\$0	\$0	\$0
085-2					0	\$0	\$0	\$0	\$0	\$0	\$0
085-3		5800			250	\$0	\$139,200	\$0	\$0	\$105,630	\$244,830
086-1					0	\$0	\$0	\$0	\$0	\$0	\$0
086-2					0	\$0	\$0	\$0	\$0	\$0	\$0
086-3					0	\$0	\$0	\$0	\$0	\$0	\$0
087-1					0	\$0	\$0	\$0	\$0	\$0	\$0
087-2	4700				152	\$89,300	\$0	\$0	\$0	\$64,220	\$153,520
088-1	2800	2000	3750		229	\$53,200	\$48,000	\$108,750	\$0	\$96,750	\$306,700
089-1		450			4	\$0	\$10,800	\$0	\$0	\$1,690	\$12,490
089-2		3400			42	\$0	\$81,600	\$0	\$0	\$17,750	\$99,350
089-3					0	\$0	\$0	\$0	\$0	\$0	\$0
089-4	2300				60	\$43,700	\$0	\$0	\$0	\$25,350	\$69,050
089-5	1500				35	\$28,500	\$0	\$0	\$0	\$14,790	\$43,290
090-1	1200				15	\$22,800	\$0	\$0	\$0	\$6,340	\$29,140
091-1	2750	3700		1400	154	\$52,250	\$88,800	\$0	\$47,600	\$65,070	\$253,720
091-2		2200	2700	2200	49	\$0	\$52,800	\$78,300	\$74,800	\$20,700	\$226,600
093-1	1600				63	\$30,400	\$0	\$0	\$0	\$26,620	\$57,020
099-1					0	\$0	\$0	\$0	\$0	\$0	\$0
100-1					0	\$0	\$0	\$0	\$0	\$0	\$0
101-1	8550				282	\$162,450	\$0	\$0	\$0	\$119,150	\$281,600
101-2	7450				145	\$141,550	\$0	\$0	\$0	\$61,260	\$202,810
103-1	3200	1850			115	\$60,800	\$44,400	\$0	\$0	\$48,590	\$153,790
105-1					0	\$0	\$0	\$0	\$0	\$0	\$0
109-1					0	\$0	\$0	\$0	\$0	\$0	\$0
109-2					0	\$0	\$0	\$0	\$0	\$0	\$0
111-1					0	\$0	\$0	\$0	\$0	\$0	\$0
112-1					0	\$0	\$0	\$0	\$0	\$0	\$0
112-2					0	\$0	\$0	\$0	\$0	\$0	\$0
125-1					0	\$0	\$0	\$0	\$0	\$0	\$0
130-1					0	\$0	\$0	\$0	\$0	\$0	\$0
130-2					0	\$0	\$0	\$0	\$0	\$0	\$0
132-1					0	\$0	\$0	\$0	\$0	\$0	\$0
132-2	3475				252	\$66,030	\$0	\$0	\$0	\$106,470	\$172,500
143-1		2650			120	\$0	\$63,600	\$0	\$0	\$50,700	\$114,300
143-2	10350			2800	343	\$196,650	\$0	\$0	\$95,200	\$144,920	\$436,770
147-1		1700			27	\$0	\$40,800	\$0	\$0	\$11,410	\$52,210
148-1					0	\$0	\$0	\$0	\$0	\$0	\$0
148-2		850			10	\$0	\$20,400	\$0	\$0	\$4,230	\$24,630
160-1					0	\$0	\$0	\$0	\$0	\$0	\$0
161-1					0	\$0	\$0	\$0	\$0	\$0	\$0
165-1	810	4030			56	\$15,390	\$96,720	\$0	\$0	\$23,660	\$135,770
166-1					0	\$0	\$0	\$0	\$0	\$0	\$0
166-2	1320	4000			92	\$25,080	\$96,000	\$0	\$0	\$38,870	\$159,950
167-1	4500	10080			166	\$85,500	\$241,920	\$0	\$0	\$70,140	\$397,560
168-1		1300	3380		87	\$0	\$31,200	\$98,020	\$0	\$36,760	\$165,980
169-1		2350	2300		136	\$0	\$56,400	\$66,700	\$0	\$57,460	\$180,560
170-1	3980	7000		2350	327	\$75,620	\$168,000	\$0	\$79,900	\$138,160	\$461,680
171-1	1360	6910	6740		181	\$25,840	\$165,840	\$195,460	\$0	\$76,470	\$463,610
171-2	730	6490		690	114	\$13,870	\$155,760	\$0	\$23,460	\$48,170	\$241,260

APPENDIX A-7

COST ESTIMATE - WATER DISTRIBUTION

25-Oct-94

Project Number	Water Main Lengths (LF)					Estimated Costs					Total Estimated Const. Cost
	6"	8"	10"	12"	Services	6"	8"	10"	12"	Services	
172-1	11030	6850	5620	900	345	\$209,570	\$164,400	\$162,980	\$30,600	\$145,760	\$713,310
172-2	5930	4510			133	\$112,670	\$108,240	\$0	\$0	\$56,190	\$277,100
172-3		4080	800		21	\$0	\$97,920	\$23,200	\$0	\$8,870	\$129,990
234-1	2400	2350	7200		154	\$45,600	\$56,400	\$208,800	\$0	\$65,070	\$375,870
236-1	3000	2200	4700		126	\$57,000	\$52,800	\$136,300	\$0	\$53,240	\$299,340
241-1	3600	1450	3700		149	\$68,400	\$34,800	\$107,300	\$0	\$62,950	\$273,450
241-2	2850	3350	1700		68	\$54,150	\$80,400	\$49,300	\$0	\$28,730	\$212,580
242-1					0	\$0	\$0	\$0	\$0	\$0	\$0
383-1	1280	3160			43	\$24,320	\$75,840	\$0	\$0	\$18,170	\$118,330
384-1	6580	7990	1410		375	\$125,020	\$191,760	\$40,890	\$0	\$158,440	\$516,110
384-2		5660			92	\$0	\$135,840	\$0	\$0	\$38,870	\$174,710
384-3	2920	5810	3360	1100	174	\$55,480	\$139,440	\$97,440	\$37,400	\$73,520	\$403,280
385-1		6430			39	\$0	\$154,320	\$0	\$0	\$16,480	\$170,800
386-1	6460	3140	3100		192	\$122,740	\$75,360	\$89,900	\$0	\$81,120	\$369,120
386-2	2290	3310	1350		110	\$43,510	\$79,440	\$39,150	\$0	\$46,480	\$208,580
403-1	5860	5850	780	1320	220	\$111,340	\$140,400	\$22,620	\$44,880	\$92,950	\$412,190
405-1		6050		1280	83	\$0	\$145,200	\$0	\$43,520	\$35,070	\$223,790
405-2		18130	1170	2470	317	\$0	\$435,120	\$33,930	\$83,980	\$133,930	\$686,960
405-3	3410	3850	1300	860	100	\$64,790	\$92,400	\$37,700	\$29,240	\$42,250	\$266,380
410-1	940	6270			91	\$17,860	\$150,480	\$0	\$0	\$38,450	\$206,790
433-1	5950		4875		151	\$113,050	\$0	\$141,380	\$0	\$63,800	\$318,230
434-1	13525		2600	2950	245	\$256,980	\$0	\$75,400	\$100,300	\$103,510	\$536,190
436-1	8725	3375		2025	193	\$165,780	\$81,000	\$0	\$68,850	\$81,540	\$397,170
436-2	5775	5050		1300	162	\$109,730	\$121,200	\$0	\$44,200	\$68,450	\$343,580
436-3	7550	4625	250	1400	136	\$143,450	\$111,000	\$7,250	\$47,600	\$57,460	\$366,760
449-1	9725	1300		2300	175	\$184,780	\$31,200	\$0	\$78,200	\$73,940	\$368,120
449-2	15175	2800	2200		327	\$288,330	\$67,200	\$63,800	\$0	\$138,160	\$557,490
449-3	8800			1675	175	\$167,200	\$0	\$0	\$56,950	\$73,940	\$298,090
450-1	2925	8850			147	\$55,580	\$212,400	\$0	\$0	\$62,110	\$330,090
450-2	7025	8250		1650	312	\$133,480	\$198,000	\$0	\$56,100	\$131,820	\$519,400
450-3	15425	8400		4900	310	\$293,080	\$201,600	\$0	\$166,600	\$130,980	\$792,260
451-1	15150	2300	6675	2000	465	\$287,850	\$55,200	\$193,580	\$68,000	\$196,460	\$801,090
451-2	5825	3575	925	2900	182	\$110,680	\$85,800	\$26,830	\$98,600	\$76,900	\$398,810
452-1	12925			5675	268	\$245,580	\$0	\$0	\$192,950	\$113,230	\$551,760
452-2	15050	4000		6300	438	\$285,950	\$96,000	\$0	\$214,200	\$185,060	\$781,210
452-3	10700	4100		3275	178	\$203,300	\$98,400	\$0	\$111,350	\$75,210	\$488,260
452-4	9200	7450			164	\$174,800	\$178,800	\$0	\$0	\$69,290	\$422,890
456-1	14875	7100		4425	352	\$282,630	\$170,400	\$0	\$150,450	\$148,720	\$752,200
456-2	9300	4100			206	\$176,700	\$98,400	\$0	\$0	\$87,040	\$362,140
457-1	11775	9025		1700	343	\$223,730	\$216,600	\$0	\$57,800	\$144,920	\$643,050
458-1	17550	8025		6600	501	\$333,450	\$192,600	\$0	\$224,400	\$211,670	\$962,120
459-1	16150	8850		6600	450	\$306,850	\$212,400	\$0	\$224,400	\$190,130	\$933,780
459-2	8775	7325		5050	412	\$166,730	\$175,800	\$0	\$171,700	\$174,070	\$688,300
459-3	18200	8850		2800	455	\$345,800	\$212,400	\$0	\$95,200	\$192,240	\$845,640
470-1	13375			1375	225	\$254,130	\$0	\$0	\$46,750	\$95,060	\$395,940
471-1	7700			3800	134	\$146,300	\$0	\$0	\$129,200	\$56,620	\$332,120
471-2					0	\$0	\$0	\$0	\$0	\$0	\$0
472-1	13075	2100			227	\$248,430	\$50,400	\$0	\$0	\$95,910	\$394,740
472-2	7575	2500			112	\$143,930	\$60,000	\$0	\$0	\$47,320	\$251,250
472-3	7550	4050		1800	173	\$143,450	\$97,200	\$0	\$61,200	\$73,090	\$374,940
472-4	6700	4125		2400	167	\$127,300	\$99,000	\$0	\$81,600	\$70,560	\$378,460
473-1	7300			2000	124	\$138,700	\$0	\$0	\$68,000	\$52,390	\$259,090
473-2	13150	4050		3200	321	\$249,850	\$97,200	\$0	\$108,800	\$135,620	\$591,470
475-1					0	\$0	\$0	\$0	\$0	\$0	\$0
475-2					0	\$0	\$0	\$0	\$0	\$0	\$0
476-1					0	\$0	\$0	\$0	\$0	\$0	\$0
477-1					0	\$0	\$0	\$0	\$0	\$0	\$0
477-2					0	\$0	\$0	\$0	\$0	\$0	\$0
478-1					0	\$0	\$0	\$0	\$0	\$0	\$0
478-2					0	\$0	\$0	\$0	\$0	\$0	\$0
478-3					0	\$0	\$0	\$0	\$0	\$0	\$0
485-1					0	\$0	\$0	\$0	\$0	\$0	\$0
485-2					0	\$0	\$0	\$0	\$0	\$0	\$0
487-1					0	\$0	\$0	\$0	\$0	\$0	\$0
487-2					0	\$0	\$0	\$0	\$0	\$0	\$0
487-3					0	\$0	\$0	\$0	\$0	\$0	\$0
488-1					0	\$0	\$0	\$0	\$0	\$0	\$0

APPENDIX A-7

COST ESTIMATE - WATER DISTRIBUTION

25-Oct-94

Project Number	Water Main Lengths (LF)					Estimated Costs					Total Estimated Const. Cost
	6"	8"	10"	12"	Services	6"	8"	10"	12"	Services	
492-1					0	\$0	\$0	\$0	\$0	\$0	\$0
492-2					0	\$0	\$0	\$0	\$0	\$0	\$0
493-1					0	\$0	\$0	\$0	\$0	\$0	\$0
493-2					0	\$0	\$0	\$0	\$0	\$0	\$0
494-1					0	\$0	\$0	\$0	\$0	\$0	\$0
495-1					0	\$0	\$0	\$0	\$0	\$0	\$0
495-2					0	\$0	\$0	\$0	\$0	\$0	\$0
496-1					0	\$0	\$0	\$0	\$0	\$0	\$0
496-2					0	\$0	\$0	\$0	\$0	\$0	\$0
497-1					0	\$0	\$0	\$0	\$0	\$0	\$0
497-2					0	\$0	\$0	\$0	\$0	\$0	\$0
497-3					0	\$0	\$0	\$0	\$0	\$0	\$0
497-4					0	\$0	\$0	\$0	\$0	\$0	\$0
498-2					0	\$0	\$0	\$0	\$0	\$0	\$0
503-1					0	\$0	\$0	\$0	\$0	\$0	\$0
503-2					0	\$0	\$0	\$0	\$0	\$0	\$0
504-1					0	\$0	\$0	\$0	\$0	\$0	\$0
852-1					0	\$0	\$0	\$0	\$0	\$0	\$0
852-2					0	\$0	\$0	\$0	\$0	\$0	\$0
852-3					0	\$0	\$0	\$0	\$0	\$0	\$0
853-1					0	\$0	\$0	\$0	\$0	\$0	\$0
853-2					0	\$0	\$0	\$0	\$0	\$0	\$0
854-1					0	\$0	\$0	\$0	\$0	\$0	\$0
854-2					0	\$0	\$0	\$0	\$0	\$0	\$0
854-3					0	\$0	\$0	\$0	\$0	\$0	\$0