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BASS, BERRY & SIMS PLC
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ATTORNEYS AT LAW

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February 7, 2003

VIA HAND-DELIVERY TO:

Chairman Sara Kyle
Chairman
TENNESSEE REGULATORY AUTHORITY
460 James Robertson Parkway
Nashville, Tennessee 37243-0505

**Re: PETITION OF TENNESSEE AMERICAN WATER COMPANY TO
CHANGE AND INCREASE CERTAIN RATES AND CHARGES SO
AS TO PERMIT IT TO EARN A FAIR AND ADEQUATE RATE OF
RETURN ON ITS PROPERTY USED AND USEFUL IN
FURNISHING WATER SERVICE TO ITS CUSTOMERS
DOCKET NO. 03- 00118**

Dear Chairman Kyle:

Enclosed please find the original and six (6) copies of a Petition to be filed in behalf of our client, Tennessee-American Water Company, pursuant to T.C.A. § 65-5-203. We are simultaneously, with the filing of this Petition, filing with Mr. Dan McCormac six (6) copies of certain tariffs for Tennessee-American Water Company, which are explained and discussed in the Petition and which tariffs have an issue date of February 7, 2003, and an effective date of March 9, 2003.

I am also enclosing the original and six (6) copies of the sworn testimony and exhibits of the following witnesses who will testify in behalf of the Company:

Mr. Michael A. Miller;
Mr. Roy L. Ferrell, Sr;
Mr. Paul Moul;
Ms. Sheila A. Valentine;
Mr. Monty Bishop;
Mr. Paul R. Herbert;
Mr. James E. Salser;
Dr. Edward Spitznayle; and
Mr. William L'Ecuyer.

Chairman Sara Kyle

February 7, 2003

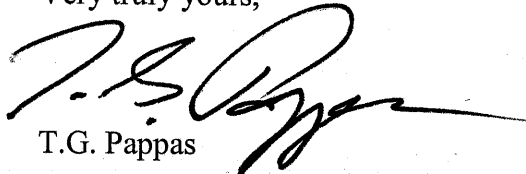
Page 2

I am sending a copy of this letter, the Petition, testimony and exhibits to Richard Collier, Esq., Mr. Dan McCormac and Mr. Aster Rutibabalira. I am also sending a copy of this letter, the Petition, testimony and the tariffs to Assistant Attorney General Russell Perkins, of the Consumer Advocate Division of the Attorney General's office. Also enclosed is our check in the amount of \$25.00, payable to the Tennessee Regulatory Authority for the filing fee.

Should you have any questions concerning any of the enclosed, please do not hesitate to contact me.

With kindest regards, I remain

Very truly yours,



T.G. Pappas

TGP:sdt

Enclosures

cc: Hon. Ron Jones (w/o enclosures)
Hon. Pat Miller (w/o enclosures)
Hon. Debi Tate (w/o enclosures)
Russell Perkins, Deputy Attorney General (w/ enclosures)
Richard Collier, Esq. (w/ enclosures)
Mr. Dan McCormac (w/ enclosures)
Mr. Aster Rutibabalira (w/ enclosures)
William L'Ecuyer (w/o enclosures)
Roy Ferrell (w/o enclosures)
Michael A. Miller (w/o enclosures)

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OTHER OFFICES:

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MEMPHIS

February 7, 2003

VIA HAND-DELIVERY TO:

Mr. Dan McCormac
Chief of Energy & Water Division
TENNESSEE REGULATORY AUTHORITY
460 James Robertson Parkway
Nashville, Tennessee 37243-0505

**Re: PETITION OF TENNESSEE AMERICAN WATER COMPANY TO
CHANGE AND INCREASE CERTAIN RATES AND CHARGES SO
AS TO PERMIT IT TO EARN A FAIR AND ADEQUATE RATE OF
RETURN ON ITS PROPERTY USED AND USEFUL IN
FURNISHING WATER SERVICE TO ITS CUSTOMERS
DOCKET NO. 03-_____**

Dear Mr. McCormac:

Enclosed please find six (6) copies of revised rates and charges tariffs being filed with a Petition proposing certain changes and increases in rates and charges by the Company. The tariffs enclosed are as follows:

TRA No. 19;
Fifth Revision of Sheet No. 3;
Fifth Revision of Sheet No. 4;
Fourth Revision of Sheet No. 5;
Fifth Revision of Sheet No. 6; and
Sixth Revision of Sheet No. 8.

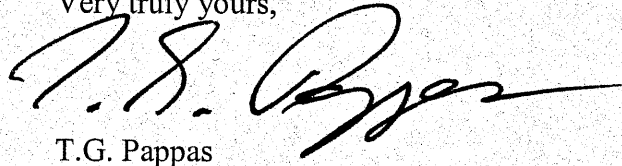
The tariffs enclosed have an issue date of February 7, 2003, and an effective date of March 9, 2003. I am also enclosing a copy of the Petition filed by the Company and a copy of my letter to Chairman Kyle, together with copies of sworn testimony and exhibits filed by the witnesses in this matter. The tariffs enclosed and their revenue impact are explained in the Petition and the testimony and exhibits of Ms. Sheila Valentine and other company witnesses.

Should you have any questions concerning any of the enclosed, please do not hesitate to contact me.

Mr. Dan McCormac
February 7, 2003
Page 2

With kindest regards, I remain

Very truly yours,

A handwritten signature in black ink, appearing to read 'T.G. Pappas', with a long horizontal flourish extending to the right.

T.G. Pappas

TGP:sdt

Enclosures

cc: Hon. Sara Kyle, Chairman (w/ enclosures)
Hon. Ron Jones (w/ enclosures)
Hon. Pat Miller (w/ enclosures)
Hon. Debi Tate (w/ enclosures)
Richard Collier, Esq. (w/ enclosures)
Russell Perkins, Esq. (w/ enclosures)
William L'Ecuyer (w/ enclosures)
Roy Ferrell (w/ enclosures)
Michael A. Miller (w/ enclosures)
R. Dale Grimes, Esq. (w/ enclosures)
George H. Masterson, Esq. (w/ enclosures)

1. Schedule of Rates and Charges Available For:

- a) The General Water Service Tariff is available for public water supply service in all territory served by the Company except that area served by the Lookout Mountain System, Elder Mountain, and territory served in Lakeview and other unincorporated areas in Georgia, east of Rossville.
- b) The Lookout Mountain Tariff is available for public water supply service in the territory served by the Company's Lookout Mountain High Service Area in the town of Lookout Mountain, Tennessee, Lookout Mountain, Georgia, and Elder Mountain, Tennessee. (E)
- c) The Lakeview Tariff is available for public water supply service in the territory served by the Company in Lakeview and other unincorporated areas of Georgia, east of Rossville as indicated on the Service Area Map: TPSC No. 19, Pages 13 and 14.

(E) Text Eliminated

ISSUED: February 7, 2003

EFFECTIVE: March 9, 2003

BY: W.F. L'ECUYER, PRESIDENT
1101 Broad Street
Chattanooga, Tennessee 37401

TENNESSEE-AMERICAN WATER COMPANY

TRA No. 19
Fifth Revision of Sheet No. 4
Canceling
Fourth Revision of Sheet No. 4

SERVICE CHARGES:

Service Charge Per Month

<u>Meter Size</u>	<u>Chattanooga General Water Service Tariff</u>	<u>Lookout Mountain Tariff</u>	<u>Lakeview Tariff</u>
5/8"	\$ 10.00 (I)	\$ 10.00 (I)	\$ 10.00 (I)
3/4"	15.00 (I)	15.00 (I)	15.00 (I)
1"	25.00 (I)	25.00 (I)	25.00 (I)
1-1/2"	50.00 (I)	50.00 (I)	50.00 (I)
2"	80.00 (I)	80.00 (I)	80.00 (I)
3"	150.00 (I)	150.00 (I)	150.00 (I)
4"	250.00 (I)	250.00 (I)	250.00 (I)
6"	500.00 (I)	500.00 (I)	500.00 (I)
8"	800.00 (I)	800.00 (I)	800.00 (I)

VOLUMETRIC RATES:

Cost per CCF

<u>Monthly Use</u>	<u>Chattanooga General Water Service Tariff</u>	<u>Lookout Mountain Tariff</u>	<u>Lakeview Tariff</u>
0-4 CCF/Mo.	\$.205 (I)	\$.655 (I)	\$.343 (I)
4-65	2.729 (I)	3.486 (I)	2.997 (D)
65-500	1.741 (I)	2.498 (D)	2.009 (D)
500-5,000	1.286 (I)	1.736 (I)	1.424 (I)
5,000-15,000	.916	1.366 (I)	1.054 (I)
Over 15,000	.555	1.005 (I)	.693 (I)

(I) Increase
(D) Decrease

ISSUED: February 7, 2003

EFFECTIVE: March 9, 2003

BY: W.F. L'ECUYER, PRESIDENT
1101 Broad Street
Chattanooga, Tennessee 37401

TENNESSEE-AMERICAN WATER COMPANY

TRA No. 19
Fourth Revision of Sheet No. 5
Canceling
Third Revision of Sheet No. 5

CLASSIFICATION OF SERVICE

DISTRIBUTION SYSTEM REPLACEMENT SURCHARGE

In addition to the charge on TRA No. 19, Fifth Revision of Sheet No.4, a charge not to exceed 2% annually will apply to all residential customers.

The above charge will be recomputed using the elements prescribed by the TRA in order dated _____ at Docket No. _____.

The Company will submit, with such recomputation, a Tariff or Supplement to reflect such recomputed, the effective date of which shall be 10 days after the filing.

ISSUED: February 7, 2003

EFFECTIVE: March 9, 2003

BY: W. F. L'ECUYER, PRESIDENT
1101 Broad Street
Chattanooga, Tennessee 37401

CLASSIFICATION OF SERVICE

PUBLIC FIRE SERVICE FOR THE CITY OF RIDGESIDE

Available For:

Public Fire Service in the City of Ridgeside.

Annual Rates, Charges and Conditions of Service

The annual charge for water service furnished to fire hydrants existing on October 20, 1956, attached to its then-existing water mains in the City shall be \$2,092.00. This charge shall (I) be due and payable in twelve (12) equal installments, each installment to be due and payable on the 10th day of the month, covering service for the preceding month, and if not paid within sixty (60) days thereafter, shall bear interest from said due and payable date at the rate of six percent (6%) per annum.

The City shall have the right to install or cause to be installed, at its own cost and expense, such additional fire hydrants as it may desire on mains within the limits of the city six (6") inches and larger in diameter, size to be determined by the Water Company, in the public highways in the City, and, on such extended mains as may be ordered by the City, and the City shall pay an annual rental on such water main extensions of six (6") inches or larger at the rate of three cents (\$.03) per inch of diameter for each lineal foot of main laid in the extension of such main, provided, however, that the Water Company shall not be required to make any extension of its mains while the City is in arrears on its fire hydrant rental payment.

(I) Increase

ISSUED: February 7, 2003

EFFECTIVE: March 9, 2003

BY: W.F. L'ECUYER, PRESIDENT
1101 Broad Street
Chattanooga, Tennessee 37401

TENNESSEE-AMERICAN WATER COMPANY

TRA No. 19
Sixth Revision of Sheet No. 8
Canceling
Fifth Revision of Sheet No. 8

CLASSIFICATION OF SERVICE

PUBLIC FIRE SERVICE

Available For:

Public Fire Service in the City of Chattanooga, City of East Ridge, City of Red Bank, the Town of Lookout Mountain, Tennessee, and Unincorporated Areas of Hamilton and Marion Counties, Tennessee; and the City of Rossville, the Town of Lookout Mountain, Georgia and the Unincorporated Areas of Walker, Catoosa and Dade Counties, Georgia.

Rates
Each Public Fire Hydrant

Rates per Annum – Billed Monthly
\$ 73.53

(I)

(I) Increase

ISSUED: February 7, 2003

EFFECTIVE: March 9, 2003

BY: W.F. L'ECUYER, PRESIDENT
1101 Broad Street
Chattanooga, Tennessee 37401

BEFORE THE TENNESSEE REGULATORY AUTHORITY

NASHVILLE, TENNESSEE

IN RE: PETITION OF TENNESSEE AMERICAN WATER)
COMPANY TO CHANGE AND INCREASE)
CERTAIN RATES AND CHARGES SO AS TO)
PERMIT IT TO EARN A FAIR AND ADEQUATE)
RATE OF RETURN ON ITS PROPERTY USED AND)
USEFUL IN FURNISHING WATER SERVICE TO ITS)
CUSTOMERS)

DOCKET NO. 03-_____

P E T I T I O N

Tennessee American Water Company (Company), a Tennessee corporation authorized to conduct and conducting a public utility business in the State of Tennessee, does hereby simultaneously file with the Tennessee Regulatory Authority (TRA), this Petition and a revised schedule of tariffs to become effective thirty (30) days after date of issue and requests that the TRA, pursuant to T.C.A. § 65-5-201, et seq., investigate the Company's present and projected earnings and hear and determine that the increased rates as reflected in its Tariffs that it has filed to become effective March 9, 2003, are just and reasonable. In support of this request, the Company avers that:

1. The Company is a public utility as defined in T.C.A. § 65-4-101 and is engaged in providing residential, commercial, industrial and municipal water service, including public and private fire protection service to the City of Chattanooga and surrounding areas including 70,372 customers as of December 31, 2002, subject to the jurisdiction and supervision of the Authority pursuant to Chapter 4 and Chapter 5 of Title 65 of Tennessee Code Annotated. The rates of the

customers located in the State of Georgia are not regulated by the Public Service Commission of the State of Georgia but are regulated by this Authority.

2. At the present time, the Company is a wholly-owned subsidiary of American Water Works Company, Inc. (AWWC).¹ AWWC is the largest water holding company in the United States and consists of twenty-three (23) companies, which provide water and waste water services to 10 million people in twenty (20) states. The Company's existing rates and charges will not provide, and cannot be made to provide, sufficient revenues to cover all the costs incurred in providing adequate quality water service including its cost of capital.

3. The Company has the responsibility to its customers to provide them with the best water service possible. This responsibility includes meeting the present and future service requirements of customers, improving existing service and introducing new technologies as they are developed. The Company has the technological capability to do this, however, it cannot accomplish such a program without adequate earnings. As this Authority knows, the Company, like all regulated utilities, must have customer rates approved that will permit it to earn a rate of return on its investment in the State of Tennessee which will be sufficient to attract new capital at reasonable terms, as it is needed.

4. As part of its program for meeting the needs of and improving the service to its customers, the Company is proposing a planned program for replacing certain part of its infrastructure through the use of a surcharge. The program has been captioned Distribution System Renewal ("DSR") and the facilities to be replaced are as follows: (a) distribution mains;

¹ By Order dated February 4, 2002 (Docket 01-01116) and April 30, 2002 (Docket 02-00273) the TRA approved the transfer of authority and held inter alia "3. Control of Tennessee-American Water Company's parent, American Water Works, will be transferred to Thames Water Aqua Holdings GMBH, a subsidiary of RWE Aktiengesellschaft, or to another entity owned or controlled, directly or indirectly, by Thames Water Aqua Holdings GMBH and managed by Thames Water Plc, resulting in a transfer of the authority to provide utility services granted to Tennessee American,"

and (b) upgrading the replacement mains to accommodate public fire protection and adding fire hydrants.

5. The Company is also continuing its program of eliminating private service lines throughout the system which began in 1986, the replacement of the Lookout Mountain distribution supply pipeline, the replacing of meters, service lines, and the installation of main extensions and the general relocation and replacement of existing facilities. All of these programs have been planned and are being instituted to bring about more and better water service. Some of them must continue to be carried out at additional costs.

6. The Company's projected capital expenditures program for 2002 was \$2,167,209 for "normal recurring" items, and \$2,989,033 for specific projects, for a grand total of \$5,156,242. In 2003, the "normal recurring" items are estimated at \$1,621,126 and the special projects at \$4,015,919 for a grand total of \$5,637,045. These capital expenditures have resulted and will result in more and better service to the Company's customers throughout the area it serves. The testimony of the Company's witnesses will detail the major construction projects, the expenditures, the anticipated results and benefits to its customers.

7. Under the present rates, the Company's revenues and revenue projections are not sufficient and cannot be made sufficient to: (a) allow the Company to earn a fair rate of return to which it is entitled under Article 1, Section 8 of the Constitution of Tennessee, and the 14th Amendment to the Constitution of the United States; (b) provide a fair rate of return on its investment for a reasonable period; (c) attract on reasonable terms the large sums of additional capital required to adequately maintain, expand and improve the Company's plant in Tennessee to meet the needs of the public for additional improved quality water service and to maintain

existing service levels; (d) maintain its credit; and (e) maintain its operations at a level that will not be materially impaired or damaged.

8. The Company avers that a fair rate of return on the Company's operations is essential to the continued provision of adequate quality service, to make the necessary improvements and to meet the expansion needs of the customers it serves. Consequently, it is essential and in the public interest that the Company's rates and charges be revised to provide an increase in revenue. Because of the continued increase in demand, expenses and costs of providing new and improved services, the earnings situation of the Company has deteriorated to a level that, without rate relief, the Company cannot meet demands for service in an orderly and economical fashion.

9. As will be testified to and as shown by the accounting exhibits filed by its accounting witness, Sheila A. Valentine, the Company selected as the historical test year the twelve months ended July 31, 2002, and has adjusted the test period for two levels of adjustments. The first adjustment normalizes the test year and the second level adjusts the normalized year to arrive at the attrition year, which is the twelve months ended March 31, 2004. The resulting rate of return for the attrition year, using current rates, was 5.95% on a rate base of \$87,270,579 and net operating income of \$5,193,431. At a proposed rate of return of 8.559%, the Company would have a revenue deficiency of \$3,866,813 for the attrition year.

10. The Company would like to be in a position to continue its upgrading program and improve the quality of service offered its customers, but the Company cannot provide the necessary new facilities, maintain existing ones adequately, and meet the needs of its customers for the future with such an unrealistic rate of return. The Company has no other alternative but to petition this Authority to permit it to place higher rates into effect in order to: (a) avoid

material impairment of damage to the Company's long range operations; and (b) to enable the Company to earn a fair rate of return on its Tennessee operations during the foreseeable future.

11. Mr. Michael A. Miller will testify as to the Company's capital structure and the cost of debt and preferred stock for the attrition period. The testimony of Mr. Miller will recommend that the capital structure that should be used for the Company for the attrition year should be comprised of \$37,237,197 equity, 42.19%; \$44,145,309² long term debt, 50.02%; \$1,450,296 preferred stock, 1.64%; \$5,429,000 short term debt, 6.15%. The Company in its overall cost of capital has used an equity cost of 11.0%.³ Using the capital structure and cost of capital as set out above and shown in the exhibits of Ms. Sheila Valentine and Mr. Miller, the calculated weighted cost of capital is 8.559%.

12. The Company proposes that it be allowed to place into effect customer rates that will produce an overall rate of return of 8.559% on a rate basis of \$87,270,579. The additional gross revenues required would be approximately \$3,866,813. The amount requested is the minimum additional annual gross revenues necessary for the Company to attract the necessary capital required to continue to provide adequate water service to the people of the City of Chattanooga and surrounding area and to meet the demand for water service in the foreseeable future.

² Included in this figure is the 7.30% New Series \$20,000,000 General Mortgage Bonds which will be used to recall the 6.77% issue which will mature June 1, 2003. By Order dated October 10, 2000 (Docket 00-00637), the TRA ordered that ... "1. Tennessee-American Water Company is authorized to assume certain debt obligations under various agreements in an aggregate principal amount not to exceed \$30,100,000;"

³ The Company is filing the testimony of Mr. Paul Moul of Paul Moul and Associates of Cherry Hill, NJ, which testimony is that his analysis shows that the cost of common equity capital for the Company is 11.0%.

13. The Company has filed simultaneously with this Petition revised Tariffs effective March 9, 2003, designed to produce the additional gross revenues needed. The testimony of various Company witnesses and the exhibits that Ms. Valentine will sponsor will show how these additional gross revenues will be derived. The tariffs filed will produce a total increase in annual revenue of approximately \$3,866,813 by increasing rates as supported by a Class Cost of Service Study sponsored by Mr. Paul Herbert.

14. The Company avers that the above-proposed changes are necessary and proper and are designed to meet the present and future needs of its customers in an economically feasible manner. The Company's Tariffs as filed and the overall rate of return it has requested are all fair and reasonable and in the best interests of the Company and the customers it serves, and, therefore, should be approved.

WHEREFORE, the Company requests the TRA to:

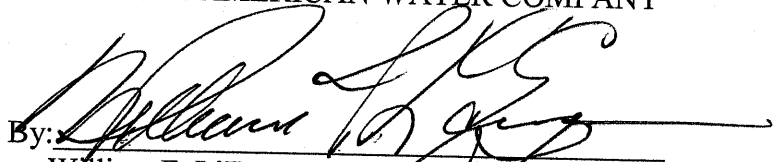
1. Schedule a hearing upon proper notice for the presentation of evidence as to the present and projected earnings and the additional revenues required to provide a fair rate of return on the Company's property used and useful in providing quality water service to its customers.

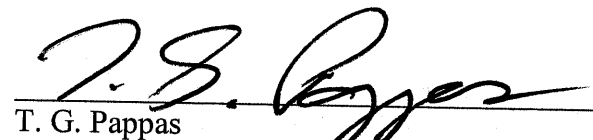
2. Enter an order approving the Company's schedule of rates filed with the Commission designed to increase the Company's annual revenues by approximately \$3,866,813 and adopt as the method to affect this increase in revenues, the Tariffs filed to become effective March 9, 2003, or as soon thereafter as lawfully permitted.

3. Grant such other relief as may be required in light of the evidence to be produced at the hearing.

This the 5th day of February, 2003.

TENNESSEE AMERICAN WATER COMPANY

By: 
William F. L'Ecuier, President


T. G. Pappas
George H. Masterson
R. Dale Grimes
BASS, BERRY & SIMS, PLC
AmSouth Center
315 Deaderick Street, Suite 2700
Nashville, TN 37238
(615) 742-6200

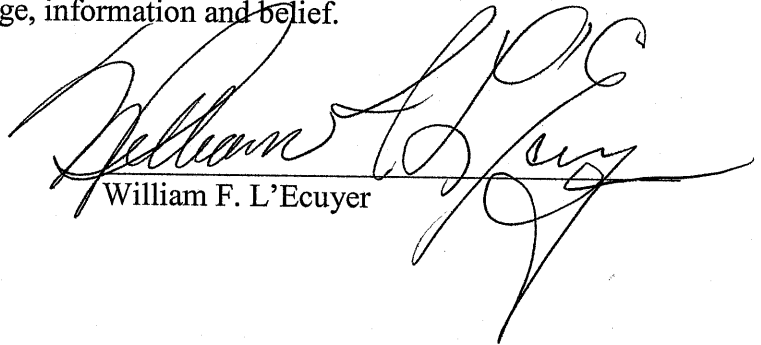
Attorneys for Petitioner

STATE OF TENNESSEE)

SS:

COUNTY OF Hamilton)

William F. L'Ecyer, upon oath, says that he is the President of Tennessee-American Water Company, a Tennessee corporation, Petitioner in the above-entitled cause; that as such officer of said Corporation, he has executed the foregoing Petition and has authority to do so; that he has read said Petition and knows the contents thereof; and that the statements therein contained are true to the best of his knowledge, information and belief.


William F. L'Ecyer

Subscribed and sworn to before me,
the undersigned authority, this
5th day of February, 2003.

Virginia B. Scealf
Notary Public

My Commission Expires: April 7, 2004

TENNESSEE-AMERICAN WATER COMPANY

CASE NO. 03-00118

Direct Testimony

Monty L. Bishop

**1. Q. WILL YOU PLEASE STATE YOUR NAME AND
BUSINESS ADDRESS FOR THE RECORD?**

**A. My name is Monty L. Bishop and my business address is
1101 Broad Street, Chattanooga, Tennessee 37402**

**2. Q. WHAT POSITION DO YOU HOLD WITH TENNESSEE-
AMERICAN WATER COMPANY?**

A. I am the Operations Manager.

3. Q. HOW LONG HAVE YOU HELD THIS POSITION?

A. Since February 1, 2002.

**4. Q. HAVE YOU PROVIDED INFORMATION ON YOUR
EDUCATIONAL BACKGROUND, QUALIFICATIONS
AND WORK EXPERIENCE?**

**A. Yes, attached to my testimony is Exhibit MLB-1, which sets
forth my educational background, qualifications and work
experience.**

**5. Q. WHAT ARE YOUR RESPONSIBILITIES AS
OPERATIONS MANAGER FOR TENNESSEE-
AMERICAN WATER COMPANY?**

1 A. I am responsible for managing the operations of the
2 Company. It is my responsibility to maintain standards of
3 service and assure delivery of adequate quantities of
4 approved quality water to all customers; to recommended
5 the required number of employees, working conditions,
6 rates of pay, and safety regulations and to develop and
7 maintain operating and investment budgets to direct
8 construction, operation, maintenance and protection of all
9 property, facilities and equipment required to maintain
10 standards of continuity of service.

11
12 6. Q. WOULD YOU DESCRIBE IN GENERAL TERMS THE
13 NATURE OF THE INFORMATION CONTAINED IN
14 THE SCHEDULE ENTITLED EXHIBIT MLB-2.

15 A. Exhibit MLB-2 is a compilation of all the water mains
16 within our system, 4 inches in diameter and smaller,
17 identified by map coordinate, street name, size, type of
18 material, footage, etc. This criteria was chosen for a
19 number of reasons but generally because this group of
20 water lines on whole, poses our greatest operational
21 challenges specifically in the areas of unaccounted for
22 water, age of the infrastructure, water quality, fire
23 protection, and public relations issues with our customers
24 and the cities and municipalities we serve by making zipper
25 cuts in existing roadways, sometimes in new or recently
26 paved roadways.

1 **7. Q. PLEASE EXPLAIN THE METHODOLOGY USED IN**
2 **PRIORITIZING THE LIST OF PROPOSED**
3 **REPLACEMENT WATER MAINS UNDER THE**
4 **DISTRIBUTION SYSTEM RENEWAL (DSR)**
5 **PROGRAM.**

6 **A. Using the Atlas GIS mapping system, we queried the system**
7 **to identify all water lines 4 inches in diameter and smaller.**
8 **The exhibit begins with the smallest lines listed first, since**
9 **the smaller lines generally speaking have the greatest**
10 **hydraulic restrictions. A secondary sort was used grouping**
11 **the lines by material types. Galvanized lines and plastic**
12 **lines have a demonstrated history of more breaks and leaks,**
13 **hydraulic restrictions caused by limited size and/or**
14 **encrustation resulting in reduced flows and water quality**
15 **issues, over other types of materials. In addition, these lines**
16 **cannot provide access to adequate fire protection, which**
17 **requires a minimum line size of six (6) inches in diameter to**
18 **support public fire hydrants. The exhibit is also identifies**
19 **those water lines which are paralleled by larger water lines**
20 **which means in some instances, services can be transferred**
21 **to larger existing water lines, abandoning the smaller,**
22 **problematic water lines.**

23
24 **8. Q. PLEASE EXPLAIN WHY ARE THERE SMALL**
25 **DIAMETER WATER LINES PARALLELED BY**
26 **LARGER LINES WITH FEW OR NO SERVICES**
27 **ATTACHED TO THEM.**

1 **A. There are probably a number of different reasons why this**
2 **has occurred over the years however, it is a generally**
3 **accepted premise that the fastest, easiest, most economical**
4 **way (at a given point in time) to improve or enhance a**
5 **water grid system is to lay parallel lines without**
6 **transferring services to the larger lines. Generally, from our**
7 **research it has been observed in those instances where this**
8 **has occurred within this system it has been driven by**
9 **basically two different scenarios; 1) there was a need for**
10 **transmission mains to supplement a part of the grid which**
11 **was stressed due to growth or increased demand and the**
12 **existing parallel lines at that point in time were in**
13 **acceptable condition and non-problematic 2) after a period**
14 **of large annexation programs by the City of Chattanooga it**
15 **was followed by a flurry of increased capital investment to**
16 **provide fire protection and improved water service to the**
17 **newly annexed areas as quickly as possible while**
18 **maximizing the capital dollars invested.**

19
20 **9. Q. EXPLAIN HOW YOU DETERMINED THE ESTIMATED**
21 **COST AS SHOWN IN THIS EXHIBIT.**

22 **A. We determined the \$55.00 average cost per foot using actual**
23 **information for calendar year 2002. The total dollars**
24 **shown in the exhibit are expressed in terms of today's cost**
25 **and do not project a forward look.**
26

1 **10. Q. EXPLAIN HOW YOU DETERMINED THE ESTIMATED**
2 **COST AS SHOWN IN THIS EXHIBIT.**

3 **A. Taking a representative cost from work performed in year**
4 **2002 and applying those unit costs to the estimated units of**
5 **work in the spreadsheet determined the cost estimates. The**
6 **total dollars shown in the exhibit are expressed in terms of**
7 **today's cost and do not project a forward look.**

8
9 **11. Q. AT THE CURRENT RATE OF REPLACEMENT, HOW**
10 **LONG WOULD IT TAKE TO ADDRESS ALL THE**
11 **SMALL DIAMETER WATER LINE ISSUES LISTED IN**
12 **THE EXHIBIT MLB-2?**

13 **A. At the current rate of investment and in terms of today's**
14 **dollars, it would take in excess of 50 years to make the**
15 **needed infrastructure improvements and replacements.**
16 **Mr. Jim Salser, through his Direct Testimony, has**
17 **addressed the rate recovery methodology under the**
18 **Distribution System Renewal (DSR) Program and how it**
19 **would apply to future funding for the required capital**
20 **investment.**

21
22 **12. Q. ARE THERE OTHER PROJECTS CONDUCTED BY**
23 **MUNICIPALITIES, HIGHWAY DEPARTMENTS,**
24 **CITIES OR OTHER ENTITIES WHICH REQUIRE**
25 **FUNDING FOR REPLACEMENT OR RELOCATION OF**
26 **EXISTING INFRASTRUCTURE?**

1 **A. Yes. There are now and have been for some time projects**
2 **involving storm water and sewer enhancement/replacement,**
3 **street rehabilitation including widening, sidewalks, curbs**
4 **and gutters, paving, etc., and several federally funded**
5 **highway projects conducted by the Tennessee Department**
6 **of Transportation which required the Company to relocate**
7 **or move existing infrastructure within the public right of**
8 **way, which were in conflict with the projects. These are**
9 **non-revenue producing projects and it is suggested this type**
10 **of project should be considered as a part of the DSR**
11 **program. It is difficult to project what would be spent on**
12 **an annual basis for these projects because the scope and**
13 **level of involvement in each project is different. However,**
14 **in the last five years, approximately \$300,000 non-**
15 **reimbursable capital dollars was spent for these projects.**

16
17 **13. Q. WHAT MAJOR INVESTMENT PROJECTS HAVE BEEN**
18 **INSTALLED SINCE THE LAST RATE CASE?**

19 **A. The Company has completed construction of (1) the .75 MG**
20 **storage tank and main in Tiftonia, (2) replacement of the**
21 **distribution telemetry system, (3) fire protection upgrades,**
22 **(4) automation of the Citico plant, (5) improvements to**
23 **Filter No. 1, (6) installed 12" main in St. Elmo, (7) its**
24 **normal reoccurring construction program for replacing**
25 **aged mains, meters, services, and equipment, (8) several**
26 **DOH requested main replacements, and (9) installation of**
27 **367,915 feet of 6"- 12" main.**

1 **14. Q. WHAT MAJOR INVESTMENTS PROJECTS ARE**
2 **PLANNED FOR 2003-2004?**

3 **A. The major projects planned for 2003-2004 include the**
4 **replacement of the Lookout Mountain supply mains,**
5 **relocate mains in Highway 153, TDOH relocation of the 3rd**
6 **Street Bridge, continuation of the fire protection program**
7 **for the municipal governments, Chattanooga fire flow**
8 **improvements, Southside Chattanooga improvements,**
9 **TDOH – I75 main relocation at Signal Mountain Road and**
10 **Hickory Valley Road, and construction of a 1.0 MG storage**
11 **tank and main in East Ridge.**

12
13 **15. Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

14 **A. Yes.**

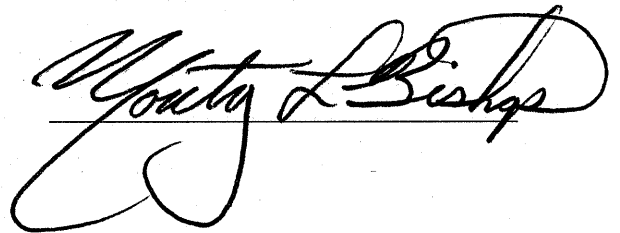
TENNESSEE REGULATORY AUTHORITY

STATE OF TENNESSEE

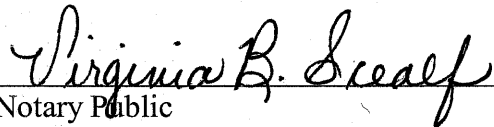
COUNTY OF HAMILTON

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Monty L. Bishop who, being by me first duly sworn deposed and said that:

He is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Regulatory Authority, and if present before the Authority and duly sworn, his testimony would set forth in the annexed transcript consisting of six pages.

A handwritten signature in black ink, reading "Monty L. Bishop", written over a horizontal line.

Sworn to and subscribed before me
this 3rd day of February 2003.


Notary Public

My commission expires April 7, 2004.

Monty L. Bishop

Education:

University of Tennessee – Chattanooga, Tennessee
 Bachelor of Science in Engineering – 1977
 Engineering Management / Industrial Engineering

Work Experience:

Tennessee-American Water Company – Chattanooga, Tennessee

Twenty-four years of experience in various departments and functional areas in the Chattanooga operation.

Feb. 2002-
Present

Operations Manager

As Operations Manager responsibilities included the day-to-day development, management, and operation of the plant and personnel of the Company engaged in the functional areas of production, treatment, service, regulatory compliance, engineering and construction of facilities. Responsible for establishment of programs to manage the efficient and reliable operations, maintenance, protection and appearance of the property and operating facilities. Planning and control of budget within established guidelines. Responsible for the safety and welfare of ninety employees under the operational function.

Jan. 1984 –
Jan. 2002

Human Resources Manager, Employee Relations Manager:

Responsibilities include overall administration for the implementation and coordination of the company's human resources policies and procedures assuring consistent interpretation and application of same. Oversight of employee benefits programs including group insurance, pension, ESOP and 401(k). Preparation of and direct responsibility for all phases of contract bargaining including language, wage information, research and development of Company position and strategies, etc. Other areas of responsibility include recruitment, interviewing, wage and salary administration, performance review process, arbitration, litigation and grievance process, training, EEO, Affirmative Action, budget within area of responsibility, etc. This position has two direct reports, Loss Control Specialist and Human Resource Specialist.

Oct. 1979 –
Dec. 1984

Loss Control Manager, Risk Manager, Risk & Materials Manager:

Primary responsibility for the elimination or minimization of human injury, property and productivity losses, through the design of effective management policies, programs or practices. This staff position included direct hands-on involvement in all phases of risk management including training, loss prevention assessment, public liability, workers comp., employee/community right to know, hazardous waste & materials, security planning, and assurance of compliance with all federal, state and local regulations including OSHA, EPA, HAZMAT, SARA, DOT, NFPA, and Underground storage tank program. Additional responsibilities included fleet administration including maintenance and procurement, and building and grounds maintenance.

Nov. 1977 – **Engineering Supervisor, Distribution Supervisor – Engineering:**
Sept. 1979 Responsible for engineering assignments and management of construction of new system facilities projects. Direct line authority over Engineering Department personnel and much of the work performed by the department. Areas of responsibility included budgetary control, construction investment forecasting, new construction field preparation & surveying. Other areas of responsibility were contract preparation including bidding, award, permitting, rights of way when required and materials ordering, and many other facets of the Engineering Department. Supervised engineering clerks, drafter, and new construction and cross-connection inspectors as needed.

Other Professional Affiliations

American Water Works Association
Society for Human Resources Management
Chattanooga Human Resources Association
Tennessee Department of Environment & Conversation – Grade II Distribution
System Operator License
Council for Accreditation in Occupational Hearing Conservation – Certified
Hearing Conservationist
American Society of Safety Engineers

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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Schedule 1
Page 1

<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys25587	LOCKSLEY CIR	0.75	GV	267	FROM MELINDA DR WEST TO A POINT	\$55	\$14,664.43
sys25248	ROBERTS RD	0.75	GV	318	FROM HARRISON PK EAST TO DEAD END	\$55	\$17,476.81
sys17277	WARLUCK ST	1	GV	165	FROM CHICKAMAUGA LOOP WEST TO R/R	\$55	\$9,058.79
sys28249	WOOLFORD ST	1	GV	176	FROM HUDSON ST NORTH TO A POINT	\$55	\$9,706.17
sys22983	PRIVATE RD.	1	GV	193	OFF OF HICKORY VALLEY RD ACROSS FROM TYNER RI	\$55	\$10,609.93
sys11997	SYLVIA TR	1	GV	212	FROM PANORAMA DR SOUTH TO A POINT	\$55	\$11,647.18
sys28542	HICKORY ST	1	GV	213	FROM EXISTING 2" WEST TO A POINT	\$55	\$11,733.79
sys11091	CONCORD CIR	1	GV	229	FROM N. CONCORD WEST TO A POINT	\$55	\$12,613.65
sys11132	FRAWLEY RD	1	GV	249	NORTH OF FAWN DR	\$55	\$13,673.63
sys6301	PARKER LN	1	GV	267	FROM BROWNS FERRY RD EAST TO DEAD END	\$55	\$14,708.72
sys6404	EASEMENT	1	GV	289	BETWEEN BROWNS FERRY RD EAST TO DREW RD	\$55	\$15,998.88
RH02092580578	RINGGOLD RD	1	GV	361	AT SCRUGGS RD TIE IN FOR CATOOSA CTY	\$55	\$19,846.15
sys23068	EASEMENT	1	GV	412	BETWEEN BONNY OAKS DR N TO CHATT/SILVERDALE	\$55	\$22,681.53
sys17529	PARK DR	1	GV	432	FROM LEE HIGHWAY WEST TO DEAD END	\$55	\$23,759.66
sys11736	HUNT AVE	1	GV	447	FROM VANCE RD EAST TO LABREA DR.	\$55	\$24,585.46
sys11216	LAVERNE DR	1	GV	451	FROM DEAD END N ACROSS NELSON RD TO A POINT	\$55	\$24,800.77
sys28244	CHESTNUT ST	1	GV	535	FROM GROVE ST SOUTH TO EXISTING 2" MAIN	\$55	\$29,409.33
sys11866	PINE GROVE TR	1	GV	642	FROM PINELAWN SOUTH TO DEAD END	\$55	\$35,314.49
sys25947	EASEMENT	1	GV	759	FROM WEBB RD EAST TO ELLER RD	\$55	\$41,756.36
RH02092412835	PRIVATE RD.	1	GV	784	FROM HICKORY VALLEY RD W TO A POINT	\$55	\$43,093.22
sys6287	MAPLEWOOD LN	1	GV	822	FROM GARDEN RD EAST TO ALFORD HILL	\$55	\$45,194.10
sys26724	HARLEY LN	1.25	GV	73	FROM EXISTING 2.25 MAIN SOUTH TO D.E.	\$55	\$4,036.63
sys30326	HIGHLAND AVE	1.25	GV	164	FROM W 42ND ST TO W 43RD ST	\$55	\$8,994.90
sys28695	FRONTIER RD	1.25	GV	309	FROM EXISTING 6" WEST TO A POINT	\$55	\$17,007.58
sys17751	DUPREE RD	1.25	GV	363	FROM EXISTING 8" IN SHEPHERD RD W TO A POINT	\$55	\$19,979.22
sys17306	ELMAR DR	1.25	GV	408	FROM BACON LN SOUTH TO DEAD END	\$55	\$22,461.69
sys11131	FAWN DR	1.25	GV	423	FROM EXISTING 8" MAIN N TO DEAD END	\$55	\$23,251.18
sys12651	MEADOW FALL LN	1.25	GV	433	FROM ISBELLE RD WEST TO DEAD END	\$55	\$23,837.06
sys11999	SOUTH CONCORD RD	1.25	GV	703	FROM LEA RD SOUTH TO DEAD END	\$55	\$38,679.44
sys11865	PORTVIEW CIR	1.25	GV	1068	FROM PINELAWN N THAN S TO MAKE CIRLCE	\$45	\$48,072.20
sys24266	SEMI CIR	1.25	GV	1165	FROM KNOLLWOOD HILL S/E TO HURSTWOOD DR	\$45	\$52,421.59
RH01083079935	EBLEN DR	1.5	GV	200	FROM OCOEE ST S TO A POINT	\$55	\$11,022.80
sys11356	EASEMENT	1.5	GV	312	FROM BEULAH DR SOUTH TO A POINT	\$55	\$17,155.24
sys12801	CARNATION ST	1.5	GV	317	FROM ADKINS RD SOUTH TO DEAD END	\$55	\$17,448.81
sys13451	ALLEY	1.5	GV	318	FROM FAIRVIEW AVE EAST TO A POINT	\$55	\$17,472.00
sys12803	DAVID ST	1.5	GV	325	FROM ADKINS RD SOUTH TO DEAD END	\$55	\$17,863.85
sys6371	BEECH ST	1.5	GV	334	FROM TULIP AVE TO DEAD END	\$55	\$18,396.85
sys6420	BEECH ST	1.5	GV	370	FROM MOSS AVE TO TULIP AVE	\$55	\$20,325.71
sys12820	PIONEER LN	1.5	GV	373	FROM PIONEER DR S TO DEAD END	\$55	\$20,523.71
sys11509	GREENWAY DR	1.5	GV	385	FROM N CONCORD RD WEST TO DEAD END	\$55	\$21,181.65
sys23081	EASEMENT	1.5	GV	427	FROM PINE DR NORTH TO A POINT	\$55	\$23,512.37
sys6380	STEPHENS RD	1.5	GV	472	FROM CENTER ST NORTH TO DEAD END	\$55	\$25,935.20
sys23082	ANDERSON TER	1.5	GV	488	FROM PINE DR TO DEAD ENDS	\$55	\$26,827.15
sys17699	CROY LN	1.5	GV	496	FROM IGOU GAP RD N TO FRANKS RD	\$55	\$27,292.13
sys6382	FRANCIS ST	1.5	GV	521	FROM KELLYS FERRY RD N TO DEAD END	\$55	\$28,644.51
sys5700	GRAYSVILLE RD	1.5	GV	574	FROM MOUNTAIN LANE RD S TO A POINT	\$55	\$31,547.28
sys1211	GORDON RD	1.5	GV	577	FROM WAHATCHIE PK EAST TO DEAD END	\$55	\$31,743.51

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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Schedule 1
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys24117	LUPTON DR	1.5	GV	600	FROM 1ST AVE S TO A POINT	\$55	\$33,005.23
sys6387	FRANCIS ST	1.5	GV	719	FROM KELLYS FERRY RD S TO DEAD END	\$55	\$39,548.88
sys6390	WEST END AVE	1.5	GV	757	FROM CUMMINGS HWY N TO KELLYS FERRY	\$55	\$41,638.95
RH02092580582	DREW RD	1.5	GV	1008	FROM CUMMINGS HWY N TO DEAD END	\$45	\$45,342.90
sys25288	STANDIFER DR	1.5	GV	1073	FROM ROBERTS RD TO KINGS POINT RD	\$45	\$48,291.47
RH02092580581	PIONEER DR	1.5	GV	1175	FROM ISBELLE RD WEST TO DEAD END	\$45	\$52,865.10
sys6101	CENTRO ST	1.5	GV	1244	FROM MOSS AVE TO DEAD END	\$45	\$55,987.63
sys6418	LILAC AVE	1.5	GV	1518	FROM KELLY FERRY RD S TO CUMMINGS HWY	\$45	\$68,312.24
sys19966	NYE DR	2	PVC	72	AT DEAD END	\$55	\$3,976.81
sys13754	GLENWOOD CIR	2	PVC	80	EXISTING 2" N TO A POINT	\$55	\$4,424.14
sys28568	FLEETWOOD DR	2	PVC	95	ALPINE DR W TO EXISTING 6"	\$55	\$5,230.18
sys7167	SUNSET TER	2	PVC	107	EXISTING 2" S TO EXISTING 6" S OF END AVE	\$55	\$5,900.35
sys28567	ALPINE DR	2	PVC	126	FLEETWOOD DR NW TO EXISTING 2"	\$55	\$6,936.83
sys28486	JOY ANN CIR	2	PVC	159	CORDELL DR NW TO DEAD END	\$55	\$8,732.68
sys26883	TEAKWOOD DR	2	PVC	161	EXISTING 2.25 S TO A POINT	\$55	\$8,827.66
SSYS4153	E 48TH ST	2	PVC	173	12TH AVE W TO A POINT	\$55	\$9,505.95
sys4596	DUPONT ST	2	PVC	249	RIDGE AVE W TO A POINT	\$55	\$13,673.75
RH00010677744	LOWER CRAVENS TER	2	PVC	442	EXISTING 6" NE TO A POINT	\$55	\$24,326.51
SSYS28922	ALPINE DR	2	PVC	634	EXISTING 2" W THEN N TO A POINT	\$55	\$34,875.93
sys12752	CHAR MAC LN	2	PVC	754	ISBELLE RD EAST DEAD END	\$55	\$41,477.61
RH01041679019	WILCOX RD	2	PVC	938	SE THEN NW TO CUMMINGS HWY	\$55	\$51,570.18
SSYS28920	FLEETWOOD DR	2	PVC	1325	EXISTING 2" SW THEN N ON HOLLYWOOD TO A POINT	\$45	\$59,641.10
sys23527	D ST	2	GV	71	FROM DAL BROWN N TO A POINT	\$55	\$3,901.55
sys22261	KOBLENTZ CIR	2	GV	72	FROM APPLING ST N TO DEAD END	\$55	\$3,986.65
sys14745	LANSING ST	2	GV	74	FROM EXISTING 2 N TO A POINT	\$55	\$4,057.97
sys15242	SHERIDAN ST	2	GV	76	FROM PORTLAND AVE S TO DEAD END	\$55	\$4,163.44
sys29060	ROCK CITY TR	2	GV	76	AT ELFIN RD	\$55	\$4,182.27
RH96062872680	BEECH ST	2	GV	78	AT TULIP AVE	\$55	\$4,274.34
sys7565	S HOLLY ST	2	GV	79	AT E 13TH ST	\$55	\$4,352.86
sys7670	ORCHARD KNOB AVE	2	GV	81	N/O CLIO AVE	\$55	\$4,443.70
sys7349	SHERIDAN RD	2	GV	86	FROM MAIN ST N TO DEAD END	\$55	\$4,706.64
sys16405	BELMEADE AVE	2	GV	87	S OF THROUGH ST	\$55	\$4,806.92
sys1858	CAIN AVE	2	GV	88	AT W 47TH ST	\$55	\$4,860.74
sys22616	BOONE ST	2	GV	91	FROM NOAH ST WEST TO A POINT	\$55	\$5,002.31
sys19806	MARYLAND ST	2	GV	92	FROM SNOW ST WEST TO A POINT	\$55	\$5,063.04
sys15005	EASEMENT	2	GV	94	FROM CUMBERLAIN ST W TO A POINT	\$55	\$5,150.79
sys14438	FAIRVIEW AVE	2	GV	94	S OF 11TH ST	\$55	\$5,168.83
sys28676	NASON ST	2	GV	94	FROM SCHOOL ST N TO A POINT	\$55	\$5,188.29
sys8453	UNNAMED ST	2	GV	96	BETWEEN+F501 E 17TH AND E 18TH	\$55	\$5,291.63
SSYS28830	DODDS AVE	2	GV	97	FROM E GORDON AVE S TO A POINT	\$55	\$5,345.92
sys32148	16TH ST	2	GV	103	WEST OF COWART ST	\$55	\$5,648.08
sys30639	PRIVATE EASEMENT	2	GV	104	S/O WHELAND ST	\$55	\$5,705.32
sys20491	AUBURN ST	2	GV	106	WEST OF ALBANY ST	\$55	\$5,824.27
sys12793	SHANTY LAKE DR	2	GV	107	FROM EXISTING 8" N TO WARREN DRIVE	\$55	\$5,866.66
sys22416	WESTMORE ST	2	GV	108	S/O HENDERSON ST	\$55	\$5,928.73
sys16006	HOYT ST	2	GV	108	AT ISABELLE	\$55	\$5,942.27
sys30385	GRANDVIEW AVE	2	GV	110	E/O HERMITAGE AVE	\$55	\$6,068.82

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys15305	WILLOW ST	2	GV	111	S/O MILNE ST	\$55	\$6,100.58
SSYS3001	E 35TH ST	2	GV	112	FROM 8TH AVE TO DEAD END	\$55	\$6,136.00
sys6842	RINGGOLD RD	2	GV	114	BLACKHAWK TR	\$55	\$6,260.00
sys22254	APPLING ST	2	GV	116	FROM KOBLENTZ CIR TO WHEELER AVE	\$55	\$6,355.07
sys8492	KYLE ST	2	GV	117	FROM E 12TH ST SOUTH TO A POINT	\$55	\$6,431.53
sys32220	NEWBY ST	2	GV	117	FROM EXISTING 6" SOUTH	\$55	\$6,441.28
sys30532	WESTRIDGE RD	2	GV	118	SOUTH OF SENECA AVE	\$55	\$6,476.39
sys6657	YOUNG ST	2	GV	119	FROM E 17TH ST SOUTH TO A POINT	\$55	\$6,544.77
sys13157	POLK ST	2	GV	119	FROM E 14TH ST S TO A POINT	\$55	\$6,559.03
sys2208	CHANDLER AVE	2	GV	121	N/O W 45TH ST IN EASEMENT	\$55	\$6,631.10
sys31609	PEEPLER ST	2	GV	122	AT END OF MAIN	\$55	\$6,707.53
sys29040	FLEETWOOD DR	2	GV	128	FROM RED RIDING HOOD TR SOUTH	\$55	\$7,029.66
sys14983	E 4TH ST	2	GV	128	FROM EXISTING 6" W TO CENTRAL AVE	\$55	\$7,039.27
sys1519	MOUNTAIN AVE	2	GV	129	S FROM LINCOLN ST	\$55	\$7,060.27
sys14439	E 13TH ST	2	GV	132	FROM CENTRAL WEST TO A POINT	\$55	\$7,091.22
RH97090475635	BRADT ST	2	GV	133	FROM OCOEE ST N TO A POINT	\$55	\$7,270.20
sys23942	FYFFE AVE	2	GV	133	FROM MAIN ST S TO EXISTING 2" CL MAIN	\$55	\$7,299.80
sys23201	HAWKINS ST	2	GV	133	AT HAWKINS ST	\$55	\$7,332.69
SSYS2888	10TH AVE	2	GV	133	FROM E 39TH ST SOUTH TO A POINT	\$55	\$7,338.58
sys7379	DIVINE ST	2	GV	137	N/O E 36TH ST	\$55	\$7,509.28
sys19628	LIBERTY ST	2	GV	137	S/O BOYLSTON ST	\$55	\$7,552.64
sys13222	IN EASEMENT	2	GV	139	FROM HOLLY ST EAST TO A POINT	\$55	\$7,624.79
sys21007	MINNEKAHDA DR	2	GV	141	AT PUMP STATION	\$55	\$7,756.02
sys31862	E 16TH ST	2	GV	141	E/O WASHINGTON ST	\$55	\$7,762.65
sys31959	1ST ST	2	GV	142	E BATTERY PL	\$55	\$7,813.61
sys19635	ISLAND AVE	2	GV	142	AT END OF MAIN	\$55	\$7,821.73
sys6888	MORGAN AVE	2	GV	143	N/O E 28TH ST	\$55	\$7,888.34
sys8941	1ST AVE	2	GV	144	N/O E 35TH ST	\$55	\$7,902.75
sys21142	DUANE RD	2	GV	144	N/O AVON PL	\$55	\$7,918.73
sys20428	TAYLOR ST	2	GV	145	S/O CRUTCHFIELD ST	\$55	\$7,958.73
sys14455	S HOLLY ST	2	GV	145	FROM ANDERSON AVE N TO A POINT	\$55	\$7,974.20
sys8219	ROCKMEADE DR	2	GV	146	E/O S SEMINOLE DR	\$55	\$8,011.91
sys8433	E 16TH ST	2	GV	146	E/O BEECH ST	\$55	\$8,043.44
sys15216	NEWTON ST	2	GV	147	W/O SHERIDAN	\$55	\$8,103.80
sys10294	PRIVATE EASEMENT	2	GV	149	FROM GRANADA DR WEST TO A POINT	\$55	\$8,197.72
sys15865	RODGERS RD	2	GV	150	FROM GERMANTOWN RD S TO A POINT	\$55	\$8,241.27
sys10190	PINEWOOD TERR	2	GV	150	FROM WOODLAND DR W TO A POINT	\$55	\$8,252.38
sys32359	PARK AVE	2	GV	151	OLD ROSS BLVD W TO A POINT	\$55	\$8,302.34
sys13456	17TH ST	2	GV	152	FROM ML KING SOUTH TO A POINT	\$55	\$8,345.71
sys22262	KOBLENTZ CIR	2	GV	153	FROM APPLING ST N TO DEAD END	\$55	\$8,405.87
sys13640	PARK AVE	2	GV	154	FROM E 12TH ST SOUTH TO A POINT	\$55	\$8,468.95
sys23528	D ST	2	GV	155	FROM DALE BROWN N TO A POINT	\$55	\$8,524.39
sys20239	ALLEY WAY	2	GV	155	FROM SPEARS AVE EAST TO A POINT	\$55	\$8,550.40
sys31876	ADAMS ST	2	GV	156	FROM E 17TH ST SOUTH TO A POINT	\$55	\$8,579.00
RH97122676218	ROANOKE AVE	2	GV	156	S/O STUART ST	\$55	\$8,589.32
sys8284	LYERLY ST	2	GV	157	BETWEEN E 17TH ST AND E18TH ST	\$55	\$8,607.70
sys8709	12TH AVE	2	GV	158	S/O 26TH ST	\$55	\$8,702.06

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
SSYS3188	DODDS AVE	2	GV	159	FROM E 45TH ST SOUTH TO A POINT	\$55	\$8,737.35
SSYS2904	7TH AVE	2	GV	159	FROM E 37TH N TO EXISTING 8" MAIN	\$55	\$8,754.39
sys13638	ALLEY WAY	2	GV	161	E/O SLAYTON ST	\$55	\$8,838.40
sys21399	DAISY ST	2	GV	161	FROM TAYLOR ST W TO OREAR ST	\$55	\$8,860.76
sys7474	ALLEY WAY	2	GV	161	S/O E 18TH ST	\$55	\$8,864.19
sys32146	16TH ST	2	GV	165	W/O OF COWART ST	\$55	\$9,068.63
sys20204	CURVE ST	2	GV	165	W/O CHESTNUT LN	\$55	\$9,099.19
sys15819	MIDLAND PK	2	GV	167	FROM EXISTING 8" WEST TO A POINT	\$55	\$9,180.04
sys32327	FORT ST	2	GV	170	FROM 6" MAIN S TO W 14TH ST	\$55	\$9,333.16
SSYS28444	RICHMOND AVE	2	GV	170	FROM LINER ST SOUTH TO BRYANT ST	\$55	\$9,333.97
sys19591	BUSH ST	2	GV	171	W/O SPEARS AVE	\$55	\$9,411.75
sys9541	SUNBEAM AVE	2	GV	172	E/O S ST MARKS AVE	\$55	\$9,458.08
sys20829	ISLAND AVE	2	GV	173	N/O STERLING AVE	\$55	\$9,506.00
sys7055	ROSSVILLE BLVD	2	GV	173	EAST TO POLK ST	\$55	\$9,518.91
SSYS28775	JULIAN ST	2	GV	173	FROM CHERRY ST N. TO EXISTING 8" MAIN	\$55	\$9,533.09
sys31606	GAS ST	2	GV	174	S/O E 12TH ST	\$55	\$9,545.56
RH98040676917	CHAMBLISS ST	2	GV	175	FROM SPEARS AVE EAST TO A POINT	\$55	\$9,635.26
SSYS2833	E 50TH ST	2	GV	176	FROM COVINGTON ST EAST TO 6"	\$55	\$9,673.68
sys24053	SIGNAL VIEW ST	2	GV	178	W/O NOAVA LN	\$55	\$9,773.00
RH970900475632	I-24	2	GV	178	SOUTH OF CHESTNUT ST	\$55	\$9,792.70
sys13573	PINEWOOD TERR	2	GV	178	E/O E SEMINOLE DR	\$55	\$9,816.39
sys7411	PRIVATE EASEMENT	2	GV	179	E FROM S CREST RD	\$55	\$9,831.31
sys22584	STEPHENS ST	2	GV	179	W/O ARNO ST	\$55	\$9,845.53
sys20862	LAWRENCE ST	2	GV	180	N/O LEXINGTON RD	\$55	\$9,884.19
sys7181	PRIVATE EASEMENT	2	GV	180	E FROM S CREST RD	\$55	\$9,885.77
sys15631	OLIVE ST	2	GV	180	E/O PEARL ST	\$55	\$9,885.83
sys14462	HOLTZCLAW AVE	2	GV	181	FROM ANDERSON AVE N TO A POINT	\$55	\$9,941.09
sys20190	VALENTINE CIR	2	GV	182	AT FAIRMOUNT AVE	\$55	\$9,992.85
sys19155	AUBURN ST	2	GV	183	WEST OF ALBANY ST	\$55	\$10,062.37
sys14992	EASTMENT	2	GV	183	FROM HOLTZCLAW AVE E TO A POINT	\$55	\$10,091.71
sys19783	CURVE ST	2	GV	184	E/O CHESTNUT LN	\$55	\$10,104.26
sys15006	EASEMENT	2	GV	185	FROM CUMBERLAIN ST W TO A POINT	\$55	\$10,185.33
sys22166	NOAH ST	2	GV	186	FROM WILDER ST S TO A POINT	\$55	\$10,202.71
sys22622	WILLHOLT ST	2	GV	188	S/O GLASS ST	\$55	\$10,334.59
sys20165	LAWN ST	2	GV	188	W/O SPEARS AVE	\$55	\$10,349.01
sys6651	E 17TH ST	2	GV	188	FROM YOUNG ST TO EXISTING 2"	\$55	\$10,362.50
SSYS3000	7TH AVE	2	GV	190	FROM E 35TH ST SOUTH TO A POINT	\$55	\$10,426.81
sys31243	E 37TH ST	2	GV	191	E/O POLK ST	\$55	\$10,518.89
sys7152	CRESTON CIR	2	GV	194	E/O W BROW ST	\$55	\$10,666.08
sys19521	KENT ST	2	GV	195	E/O WOODLAND DR	\$55	\$10,716.26
sys22914	YOUNGSTOWN RD	2	GV	197	S/O FAITH RD	\$55	\$10,830.49
sys10872	WINDSOR ST	2	GV	200	AT DEAD END	\$55	\$10,999.21
sys8982	7TH AVE	2	GV	200	AT DEAD END	\$55	\$11,004.89
sys9999	CONNER ST	2	GV	203	W/O BELVOIR AVE	\$55	\$11,154.77
sys31270	16TH ST	2	GV	203	E/O MARKET ST	\$55	\$11,157.09
sys15232	WILSON ST	2	GV	205	BET HOLTZCLAW AVE AND HENDRICKS ST	\$55	\$11,288.02
sys13398	ROBERTS PL	2	GV	206	FROM HICKORY ST WEST TO DEAD END	\$55	\$11,347.70

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys13637	SLAYTON ST	2	GV	209	N/O MAIN ST	\$55	\$11,512.67
sys30943	BASHAM ST	2	GV	210	W/O ALTON PARK BLVD	\$55	\$11,537.22
sys10010	SEQUOIA DR	2	GV	213	N/O BRAINERD RD	\$55	\$11,718.20
SSYS3530	E 38TH ST	2	GV	214	FROM JEROME AVE EAST TO A POINT	\$55	\$11,755.76
sys16351	BLANCHARD ST	2	GV	215	N/O MCGOWAN AVE	\$55	\$11,811.75
sys12794	WARREN DR	2	GV	218	FROM SHANTY LAKE DR E TO DEAD END	\$55	\$12,004.73
SSYS28768	CATE AVE	2	GV	220	FROM WALNUT ST TO CHERRY ST	\$55	\$12,108.23
sys22619	FROST ST	2	GV	221	N OF ANDREWS	\$55	\$12,157.39
SSYS2883	10TH AVE	2	GV	221	FROM E 38TH ST N TO EXISTING 8"	\$55	\$12,159.03
sys8060	ALTA VISTA	2	GV	221	WEST TO A POINT	\$55	\$12,172.26
sys8437	BEECH ST	2	GV	222	FROM E 20TH TO DEAD END	\$55	\$12,204.27
sys23498	D ST	2	GV	224	FROM SIGNAL HILLS DR S TO APOINT	\$55	\$12,336.11
sys19826	BRELSFORD RD	2	GV	225	AT DEAD END	\$55	\$12,401.11
sys32335	FORT ST	2	GV	226	S/O W 14TH ST	\$55	\$12,413.37
sys7296	PIRTLE ST	2	GV	227	S/O GERMANTOWN RD	\$55	\$12,479.40
sys10321	GILLISPIE TERR	2	GV	228	FROM CHERRYTON DR N TO EXISTING 8"	\$55	\$12,543.53
sys6615	EASEMENT	2	GV	228	S/O E 23RD ST	\$55	\$12,557.10
SSYS2909	DODDS AVE	2	GV	229	FROM E 41ST ST.	\$55	\$12,608.70
sys8269	ANDERSON AVE	2	GV	230	E/O CARY ST	\$55	\$12,623.21
sys20430	CHEEK ST	2	GV	230	FROM CHERRY ST TO DAVENPORT ST	\$55	\$12,627.03
sys27119	PAW TRAIL	2	GV	233	FROM DAVIS LNE TO 2.25" MAIN	\$55	\$12,836.14
sys19251	COLVILLE ST	2	GV	234	WEST OF FRANKLIN ST	\$55	\$12,848.98
sys19154	ISLAND AVE	2	GV	236	AT END OF MAIN	\$55	\$12,962.74
sys14868	SCRUGGS RD	2	GV	236	S/O CLEVELAND AVE	\$55	\$12,990.39
sys20176	WERT ST	2	GV	238	FROM N MARKET ST E TO A POINT	\$55	\$13,111.52
SSYS28846	FOSTER ST	2	GV	241	AT DEAD END	\$55	\$13,269.06
sys9237	TUXEDO AVE	2	GV	242	S/O BRAINERD RD	\$55	\$13,312.15
sys25751	MURRAY HILLS DR	2	GV	244	FROM LAKE VISTA DR E TO MURRAY HILLS	\$55	\$13,411.32
sys21090	PRIVATE EASEMENT	2	GV	244	BETWEEN TREMONT ST AND DARTMOUTH ST	\$55	\$13,445.25
sys4730	MONROE ST	2	GV	245	FROM RIGGS AVE W TO A POINT	\$55	\$13,487.87
sys16109	KATHLEEN ST	2	GV	249	FROM MOSS ST W TO EDDINDS ST	\$55	\$13,693.64
SSYS28861	HENDERSON AVE	2	GV	250	FROM CEDAR ST SOUTH TO LINER ST	\$55	\$13,771.81
SSYS3731	16TH AVE	2	GV	250	FROM E 50TH ST SOUTH TO E 51ST ST	\$55	\$13,777.08
sys15866	PERRY ST	2	GV	256	W OF GERMANTOWN RD	\$55	\$14,065.85
SSYS3614	E 46TH ST	2	GV	257	BETWEEN 12TH AVE AND 13TH AVE	\$55	\$14,132.79
sys2024	W 45TH ST	2	GV	258	N TO A POINT	\$55	\$14,178.53
SSYS2906	10TH AVE	2	GV	258	AT DEAD END	\$55	\$14,207.34
sys16110	EDDINDS ST	2	GV	258	FROM KATHLEEN ST S TO A POINT	\$55	\$14,216.67
sys1849	CAIN AVE	2	GV	260	FROM W 46TH ST S TO W 47TH ST	\$55	\$14,310.95
SSYS4171	14TH AVE	2	GV	260	FROM E 50TH ST SOUTH TO E 51ST ST	\$55	\$14,318.70
sys21065	SHADY CIR	2	GV	261	IN DEAD END	\$55	\$14,349.07
sys31061	E 35TH ST	2	GV	262	FROM BRANNON ST WEST TO DEAD END	\$55	\$14,400.84
sys6640	BUCKLEY ST	2	GV	262	FROM 21ST S TO A POINT	\$55	\$14,405.59
sys30212	UNNAMED ST	2	GV	265	ENTRANCE TO LK STATION	\$55	\$14,596.86
sys7667	ORCHARD KNOB AVE	2	GV	267	SOUTH TO CLIO AVE	\$55	\$14,686.59
sys14340	OLIVE ST	2	GV	268	BETWEEN E 13TH AND E 14TH ST	\$55	\$14,725.94
sys16172	HILLDALE RD	2	GV	268	E/O BROOKWOOD DR	\$55	\$14,738.54

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys8277	RINGGOLD RD	2	GV	268	S/O E 14TH ST	\$55	\$14,760.43
sys19803	MARYLAND ST	2	GV	269	FROM SPEARS AVE TO SNOW ST	\$55	\$14,793.00
sys16412	BELMEADE AVE	2	GV	270	FROM HOYT ST NORTH TO A POINT	\$55	\$14,829.78
sys32649	LANSING ST	2	GV	270	FROM VINE ST N TO A POINT	\$55	\$14,868.49
SSYS2885	10TH AVE	2	GV	270	FROM E 38TH ST S TO E 39TH ST	\$55	\$14,874.14
sys19505	HARTMAN ST	2	GV	272	W/O FOREST AVE	\$55	\$14,957.81
sys12807	DOUGS DR	2	GV	272	AT DEAD END	\$55	\$14,980.67
sys8413	E 18TH ST	2	GV	272	E/O HIGHLAND PK	\$55	\$14,981.47
sys21913	ROANOKE AVE	2	GV	275	S/O SOUTHERN ST	\$55	\$15,098.03
sys21074	HIXSON PK	2	GV	275	N/O SHADY CIR	\$55	\$15,129.67
sys21148	WESTWOOD AVE	2	GV	276	AT NASON ST	\$55	\$15,174.10
sys2562	W 54TH ST	2	GV	277	FROM BEULAH AVE E TO A POINT	\$55	\$15,243.54
sys31054	E 36TH PL	2	GV	277	FROM BRANNON ST WEST TO DEAD END	\$55	\$15,257.94
sys14434	E 11TH ST	2	GV	278	FROM CENTRAL AVE EAST TO A POINT	\$55	\$15,311.18
sys21875	MCRAE ST	2	GV	280	FROM N CHAMBERLAIN AVE TO DEAD END	\$55	\$15,312.50
sys7816	CLEARVIEW RD	2	GV	281	N OF ROSE TERR	\$55	\$15,406.98
sys6997	MORGAN AVE	2	GV	283	N/O E 28TH ST	\$55	\$15,434.15
sys7558	S HOLLY ST	2	GV	283	FROM E 13TH ST N TO E 12TH ST	\$55	\$15,538.22
sys15326	WHEELER AVE	2	GV	283	N/O MILNE ST	\$55	\$15,557.39
sys9406	LONSDALE DR	2	GV	283	S/O BRAINERD RD	\$55	\$15,560.35
sys19516	ABERNATHY ST	2	GV	283	W/O FOREST AVE	\$55	\$15,575.52
SSYS28825	SPRING ST	2	GV	284	FROM CHICKAMAUGA AVE S TO LAKE AVE	\$55	\$15,620.10
sys16414	HOYT ST	2	GV	284	FROM BELMEADE AVE E TO TUNNEL BLVD	\$55	\$15,633.96
sys16175	BROOKWOOD DR	2	GV	285	N/O HILLDALE DR	\$55	\$15,684.25
sys23829	SIGNAL VIEW ST	2	GV	287	FROM BRIGGS ST EAST TO A POINT	\$55	\$15,783.10
sys6733	CLIO AVE	2	GV	288	S/O E 34TH ST	\$55	\$15,851.09
SSYS28871	LEE AVE	2	GV	288	FROM CEDAR ST SOUTH TO LINER ST	\$55	\$15,860.12
sys30579	W 42ND ST	2	GV	289	FROM ALABAMA AVE TO GEORGIA AVE	\$55	\$15,880.03
sys15278	BRADT ST	2	GV	290	BETWEEN WILCOX BLVD AND NEWTON ST	\$55	\$15,926.94
RH990218769801	DAYTONA DR	2	GV	291	AT HIXSON UTILITY TIE-IN	\$55	\$15,981.94
sys1524	LINCOLN ST	2	GV	291	FROM MOUNTAIN AVE E TO BRAGG	\$55	\$16,008.89
sys30637	WILLIAMS ST	2	GV	292	S OF LONG ST	\$55	\$16,079.09
sys13221	IN EASEMENT	2	GV	292	BETWEEN HAWTHORNE ST & HOLLY ST	\$55	\$16,080.06
sys32679	LINDSAY ST	2	GV	294	FROM VINE ST S TO A POINT	\$55	\$16,143.68
sys15330	MILNE ST	2	GV	294	FROM ARLINGTON AVE TO WHEELER AVE	\$55	\$16,155.96
sys1834	GRANDVIEW AVE	2	GV	294	E/O HERMITAGE AVE	\$55	\$16,178.75
sys1531	SUNSET RD	2	GV	295	FROM DALE RD S TO WALDRON ST	\$55	\$16,199.82
sys9421	WOODVALE AVE	2	GV	295	FROM BRAINERD RD N TO A POINT	\$55	\$16,233.40
sys16350	MC GOWAN AVE	2	GV	296	FROM BLANCHARD ST TO WILSONIA AVE	\$55	\$16,253.40
sys13796	SHARP ST	2	GV	296	FROM WILLOW ST W TO EXISTING 6"	\$55	\$16,274.42
sys10835	MEADOWBROOK LN	2	GV	297	FROM TACOA CIR E TO EXISTING 2" CL	\$55	\$16,343.40
sys1859	WEST AVE	2	GV	298	W/O CAIN AVE	\$55	\$16,410.26
sys16687	REVENTON ST	2	GV	299	FROM FRANCIS ST TO MARSHALL ST	\$55	\$16,453.38
sys29041	PATTEN RD	2	GV	301	TO RED RIDING HOOD TR	\$55	\$16,540.46
sys20537	MISSISSIPPI AVE	2	GV	302	FROM BARTON AVE N TO 2" MAIN	\$55	\$16,587.68
SSYS3613	E 46TH ST	2	GV	303	FROM 13TH TO 14TH AVE	\$55	\$16,678.63
sys19800	SAWYER ST	2	GV	304	FROM SPEARS AVE EAST TO A POINT	\$55	\$16,717.97

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys7347	MAIN ST	2	GV	304	FROM SHERIDAN RD E TO SEMINOLE DR	\$55	\$16,744.43
sys31888	PRIVATE EASEMENT	2	GV	305	WEST OF LINDSAY ST	\$55	\$16,772.90
RH02093080620	WALTHALL AVE	2	GV	306	FROM E 36TH ST NORTH TO A POINT	\$55	\$16,815.81
sys14189	KELLY ST	2	GV	306	N AND S OF DUNCAN AVE	\$55	\$16,819.18
sys14351	HAWTHORNE ST	2	GV	308	BETWEEN VANCE AND ANDERSON AVE	\$55	\$16,937.54
sys13350	WATKINS ST	2	GV	309	FROM BAILEY AVE S TO UNION AVE	\$55	\$16,969.68
sys10131	HOWARD ST	2	GV	309	FROM GERMANTOWN RD W TO BOOTH RD	\$55	\$16,999.92
SSYS3654	E 36TH ST (CLOSED)	2	GV	310	FROM JEROME ST WEST TO A POINT	\$55	\$17,033.95
sys19533	ZIEGLER ST	2	GV	310	W/O MAY ST	\$55	\$17,068.57
sys15573	OCOE ST	2	GV	312	DIAMOND ST E TO PEARL ST	\$55	\$17,169.70
SSYS28445	BRYANT ST	2	GV	315	FROM RICHMOND AVE EAST TO A POINT	\$55	\$17,349.35
sys23546	ALLEY WAY	2	GV	317	FROM SIGNAL HILLS N TO A POINT	\$55	\$17,445.20
sys14967	OCOE ST	2	GV	318	BETWEEN ROANOKE E TO BRADT ST	\$55	\$17,481.88
sys22620	FROST ST	2	GV	318	FROM GLASS ST N TO ANDREWS ST	\$55	\$17,513.09
sys1815	OHLS AVE	2	GV	321	W/O OAKLAND AVE	\$55	\$17,647.55
sys31843	E 16TH ST	2	GV	322	JEFFERSON ST W TO A POINT	\$55	\$17,688.20
RH01123179333	W 25TH ST	2	GV	322	BROAD ST W TO A POINT	\$55	\$17,710.43
RH01021478686	16TH AVE	2	GV	322	EXISTING 2 N OF 32ND ST TO EXISTING 8"	\$55	\$17,724.03
sys13216	IN EASEMENT	2	GV	325	BETWEEN HAWTHORNE ST & HOLLY ST	\$55	\$17,848.33
sys31252	FAGAN ST	2	GV	325	E 40TH ST S TO A POINT	\$55	\$17,854.63
sys22614	FROST ST	2	GV	325	N/O LOCKWOOD AVE TO CAMPBELL ST	\$55	\$17,866.46
sys21002	WOODLAND RD	2	GV	326	E/O MINNEKAHDA RD	\$55	\$17,912.40
SSYS3489	13TH AVE	2	GV	331	E 44TH ST S TO E 45TH ST	\$55	\$18,180.78
SSYS3495	E 42ND ST	2	GV	332	14TH AVE SE TO 16TH ST	\$55	\$18,267.88
sys23523	L ST	2	GV	333	D ST NW TP DAL BROWN RD	\$55	\$18,324.44
sys21167	HIXSON PIKE	2	GV	334	SHADY CIR SE TO A POINT	\$55	\$18,382.73
sys8454	LYERLY ST	2	GV	336	E 18TH ST N TO EXISTING 2"	\$55	\$18,458.64
SSYS3612	13TH AVE	2	GV	337	E 45TH ST S TO E 46TH ST	\$55	\$18,535.06
sys4864	W END AVE	2	GV	339	MARION AVE S TO OAKDALE AVE	\$55	\$18,629.57
sys1520	MOUNTAIN AVE	2	GV	340	LINCOLN ST N TO A POINT	\$55	\$18,712.90
sys13794	EASEMENT	2	GV	343	PRIVATE EASEMENT CLEVELAND AVE N TO SHARP ST	\$55	\$18,869.27
sys19592	SPEARS AVE	2	GV	343	BUSH ST N ZIEGLER ST	\$55	\$18,888.49
sys9419	WOODVALE AVE	2	GV	344	BRAINERD RD S TO EXISTING 2"	\$55	\$18,921.11
sys28705	WOOD NYMPH TR	2	GV	345	PETER PAN RD E TO ALADDIN RD	\$55	\$18,959.02
sys30851	OREAR ST	2	GV	347	END OF OREAR S TO A POINT	\$55	\$19,072.33
sys13639	SLAYTON ST	2	GV	347	GREEN ST SW TO EXISTING 2"	\$55	\$19,099.29
sys27522	WICKLEY RD	2	GV	348	CURTIS CIR E TO JUST PAST VIOLA DR	\$55	\$19,123.56
sys9232	TUXEDO AVE	2	GV	348	BRAINERD RD S TO EXISTING 2"	\$55	\$19,151.15
sys4873	W END AVE	2	GV	351	CONNELL ST S TO MARION AVE	\$55	\$19,295.34
sys8446	E 18TH ST	2	GV	352	WILLOW ST SE TO KELLY ST	\$55	\$19,361.27
sys12979	CHAMBERLAIN AVE	2	GV	354	SPRUCE ST E TO A POINT	\$55	\$19,469.20
sys20431	CHERRY ST	2	GV	354	CHEEK ST S TO RR TRACKS	\$55	\$19,485.83
SSYS3502	E 39TH ST	2	GV	354	13TH AVE E TO 14TH AVE	\$55	\$19,489.45
sys22412	NOAH ST	2	GV	354	STUART S TO EXISTING 2"	\$55	\$19,495.98
SSYS28753	WEST STATE ST	2	GV	355	LAKE AVE S TO A POINT	\$55	\$19,507.22
SSYS3494	E 42ND ST	2	GV	356	13TH AVE SE TO 14TH AVE	\$55	\$19,566.03
sys22623	BIRD ST	2	GV	357	GLASS ST S TO A POINT	\$55	\$19,611.49

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys1325	BROW OVAL	2	GV	361	SUNSET RD W THEN S TO A POINT	\$55	\$19,828.17
sys14494	HIGHLAND PARK AVE	2	GV	361	PRIVATE EASEMENT W OF HIGHLAND PK	\$55	\$19,838.00
SSYS3602	E 46TH ST	2	GV	363	14TH AVE SE TO EXISTING 6"	\$55	\$19,992.32
sys2537	W 48TH ST	2	GV	364	ST ELMO AVE E THEN S ON VIRGINIA TO A POINT	\$55	\$19,998.33
sys19021	CHESTNUT LN	2	GV	364	CURVE ST N TO A POINT	\$55	\$20,035.24
sys6637	BUCKLEY ST	2	GV	365	21ST ST N TO A POINT	\$55	\$20,086.67
sys15213	CAMDEN ST	2	GV	367	N ORCHARD KNOB AVE NW TO A POINT	\$55	\$20,189.25
sys6765	32ND ST	2	GV	369	13TH AVE NW TO 12TH AVE	\$55	\$20,296.18
sys2221	GORDAN AVE	2	GV	370	POLK ST NW TO FAGAN ST	\$55	\$20,368.31
sys22259	DAISY ST	2	GV	373	OREAR ST E THEN S TO GLASS ST	\$55	\$20,507.71
sys31233	CAIN AVE	2	GV	375	W 42ND ST SW TO W 43RD ST	\$55	\$20,615.94
sys9778	AMHURST AVE	2	GV	377	MAYFAIR AVE SE TO A POINT	\$55	\$20,717.37
sys30369	OHLA AVE	2	GV	377	W 43RD ST N TO W 42ND ST	\$55	\$20,739.21
SSYS2907	E 42ND ST	2	GV	378	10TH AVE NW TO 9TH AVE	\$55	\$20,782.00
sys20540	RUSSELL ST	2	GV	380	BARTON AVE W TO EXISTING 8"	\$55	\$20,881.80
sys20661	WINTHROP ST	2	GV	380	HANOVER ST SW TO A POINT	\$55	\$20,881.88
sys22617	NOAH ST	2	GV	381	BOONE ST NE TO LOCKWOOD AVE	\$55	\$20,938.36
sys21317	ROANOKE AVE	2	GV	382	STUART ST NE TO WILDER ST	\$55	\$21,022.20
sys13448	PARK AVE	2	GV	383	E 10TH ST S TO E 11TH ST	\$55	\$21,083.55
SSYS3540	E 39TH ST	2	GV	384	PRIVATE EASEMENT CONC TO E 40TH ST	\$55	\$21,100.38
sys14436	E 12TH ST	2	GV	385	LYNNCREST DR NW TO A POINT	\$55	\$21,154.77
RH99022377273	WINDMERE DR	2	GV	385	PRIVATE EASEMENT E OF FAIRVIEW AVE	\$55	\$21,183.78
sys9762	MARLBORO AVE	2	GV	386	SUNBURY AVE N TO MAYFAIR AVE	\$55	\$21,203.49
sys16054	BELMEADE AVE	2	GV	386	OVER ST NW THEN E TO EXISTING 2"	\$55	\$21,229.56
sys7053	DORRIS ST	2	GV	386	ROSSVILLE BLVD NE TO DEAD END	\$55	\$21,247.45
sys28703	WOOD NYMPH TR	2	GV	389	ALADDIN RD W TO MOTHER GOOSE TR	\$55	\$21,370.46
sys18987	SPEARS AVE	2	GV	389	BUSH ST S TO E MANNING ST	\$55	\$21,402.41
RH01082379742	WALNUT ST	2	GV	390	MCFARLAND AVE W TO CATE AVE	\$55	\$21,431.23
sys15303	MILNE ST	2	GV	390	ORCHARD KNOB AVE E TO A POINT	\$55	\$21,465.64
SSYS3786	E 47TH ST	2	GV	396	WALTHALL ST W TO A POINT	\$55	\$21,760.26
sys8293	E 17TH ST	2	GV	396	WATKINS ST NW TO A POINT	\$55	\$21,794.17
SSYS3084	E 36TH ST	2	GV	397	CALHOUN AVE W TO WALTHALL AVE	\$55	\$21,827.11
sys20156	PEAK ST	2	GV	397	MERRIAM ST E TO SNOW ST	\$55	\$21,861.42
sys14446	E 14TH ST	2	GV	398	FAGAN ST W TO CEMETERY AVE	\$55	\$21,879.14
sys9957	SEQUIOIA DR	2	GV	398	KENWOOD ST S TO EXISTING 2"	\$55	\$21,893.42
sys9761	MAYFAIR AVE	2	GV	402	MARLBORO AVE W TO A POINT	\$55	\$22,124.02
sys16061	HIGHLAND JARVIS AVE	2	GV	403	PRIVATE EASE. CONC HIGHLAND JAR/BELMEAD	\$55	\$22,138.83
SSYS2884	10TH AVE	2	GV	403	E 38TH ST NE TO EXISTING 2"	\$55	\$22,178.40
sys30088	GLENVIEW ST	2	GV	404	PRIVATE EASEMENT CONC ST ELMO AVE	\$55	\$22,199.07
sys13234	HAWTHORNE ST	2	GV	404	PRIVATE EASEMENT W OF HAWTHORNE	\$55	\$22,218.37
sys2602	VIRGINIA AVE	2	GV	405	W 49TH ST S TO A POINT	\$55	\$22,249.33
sys2625	ALABAMA AVE	2	GV	405	EXISTING 2" N THEN W ON W 54TH ST	\$55	\$22,278.75
sys20419	CHERRY ST	2	GV	406	CRUTCHFIELD ST S TO CHEEK ST	\$55	\$22,325.75
sys20171	TREWHITT ST	2	GV	407	SPEARS AVE E TO A POINT	\$55	\$22,377.23
sys30364	OHLA AVE	2	GV	408	W 43RD ST S TO A POINT	\$55	\$22,416.30
sys16056	OVER ST	2	GV	408	ROCKWAY AVE E TO HIGHLAND JARVIS	\$55	\$22,433.48
sys13546	ARLINGTON AVE	2	GV	409	GILBERT ST S TO OLIVE ST	\$55	\$22,516.21

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys9766	BROOKFIELD AVE	2	GV	411	SUNBURY AVE N TO A POINT	\$55	\$22,587.39
sys31842	E 16TH ST	2	GV	412	JEFFERSON ST SE TO A POINT	\$55	\$22,665.16
sys12974	E 14TH ST	2	GV	414	OLIVE ST SE TO GULF ST	\$55	\$22,747.65
sys15606	DIAMOND ST	2	GV	414	OCOE ST S TO A POINT	\$55	\$22,773.67
sys24948	LUPTON DR	2	GV	419	CONC TO 1.5" IN EASEMENT	\$55	\$23,035.08
sys9995	MARLBORO AVE	2	GV	420	TUXEDO AVE SE TO A POINT	\$55	\$23,118.53
sys30469	MYRTLE ST	2	GV	424	OLD ROSSVILLE BLVD N TO A POINT	\$55	\$23,304.91
SSYS2912	9TH AVE	2	GV	424	E 41ST ST S TO E 42ND ST	\$55	\$23,323.30
sys10245	PINEWOOD AVE	2	GV	426	DELWOOD DR NW TO A POINT	\$55	\$23,423.22
sys21191	ANN ST	2	GV	429	FEDERAL ST N TO A POINT	\$55	\$23,609.05
sys12795	WARREN DR	2	GV	440	SHANTY LAKE SE TO CUL-DE-SAC	\$55	\$24,227.47
sys16116	SOUTH ST	2	GV	442	LINE ST W TO A POINT	\$55	\$24,327.73
sys20852	ISLAND AVE	2	GV	444	EXISTING 2" S THEN W TO 2"	\$55	\$24,415.81
sys7734	KYLE ST	2	GV	446	KIRBY AVE S TO ANDERSON AVE	\$55	\$24,525.78
sys1528	LINDEN ST	2	GV	454	WALDRON ST S TO A POINT	\$55	\$24,963.85
sys8493	E 12TH ST	2	GV	455	KYLE ST W TO 2"	\$55	\$25,025.76
sys30262	ORION DR	2	GV	455	W 40TH ST SW TO SHORT ST	\$55	\$25,043.35
sys13279	FLINN ST	2	GV	456	CENTRAL AVE E TO A POINT	\$55	\$25,069.63
RH02100180633	CRESTON CIR	2	GV	457	FROM MONTVIEW DR SOUTH TO A POINT	\$55	\$25,151.45
sys12659	HILL N DALE DR	2	GV	466	SHANTY LAKE NE TO CUL-DE-SAC	\$55	\$25,632.45
sys13454	E 10TH ST	2	GV	467	FAIRVIEW AVE E TO TIE IN @ 8"	\$55	\$25,711.60
sys12664	WARREN CIR	2	GV	474	WARREN PLACE W TO 2"	\$55	\$26,046.21
sys2220	HIGHLAND AVE	2	GV	474	W 45TH ST S TO EXISTING 2"	\$55	\$26,052.41
sys20486	WESTWOOD RD	2	GV	474	LEXINGTON RD NE TO EXISTING 2"	\$55	\$26,054.65
sys13642	E 12TH ST	2	GV	476	PARK AVE E TO FAIRVIEW AVE	\$55	\$26,165.77
sys31220	OHL S AVE	2	GV	477	6" @ OAK ST N TO A POINT	\$55	\$26,223.92
sys22585	ARNO ST	2	GV	481	GRACE ST SW TO A POINT	\$55	\$26,455.63
sys2550	BALCOMB ST	2	GV	486	EXISTING 8" E TO A POINT	\$55	\$26,704.43
sys1534	DALE RD	2	GV	488	SUNSET RD W TO BROW OVAL	\$55	\$26,821.94
sys30780	W 39TH ST	2	GV	493	LONGVIEW ST NW TO A POINT	\$55	\$27,096.79
sys29058	ELFIN RD	2	GV	496	WENDY TR S JUST PAST ROCK CITY TR	\$55	\$27,266.14
sys8233	ANDERSON AVE	2	GV	497	N CREST RD S TO EXISTING 2"	\$55	\$27,358.91
sys8058	IDLEWILD DR	2	GV	498	EXISTING 8" SE TO A POINT	\$55	\$27,377.84
sys2532	W 46TH ST	2	GV	500	ST ELMO AVE E TO TENNESSEE AVE	\$55	\$27,487.99
sys10322	GILLESPIE TER	2	GV	503	CHERRYTON DR S TO A POINT	\$55	\$27,651.49
sys15638	PEARL ST	2	GV	508	OLIVE ST S TO OCOEE ST	\$55	\$27,935.55
sys23572	SIGNAL HILLS DR	2	GV	508	D ST E TO NORMAN LN	\$55	\$27,960.12
sys16886	FRANCIS ST	2	GV	509	REVINGTON ST S TO 2" IN OLIVE ST	\$55	\$27,974.36
sys3781	16TH AVE	2	GV	512	EXISTING 2" @ 32ND ST NE TO 2"	\$55	\$28,174.67
sys29037	FLEETWOOD DR	2	GV	517	ROCK CITY TR N TO EXISTING 2"	\$55	\$28,441.28
SSYS2905	10TH AVE	2	GV	520	E 42ND ST SW TO E 43RD ST	\$55	\$28,597.03
sys17030	REVINGTON ST	2	GV	522	PRIVATE EASEMENT CONC MARSHALL TO N CREST	\$55	\$28,701.17
sys16117	SOUTH ST	2	GV	523	MOSS ST W TO EXISTING 8" MAIN	\$55	\$28,782.30
sys2807	TANAKA	2	GV	533	PRIVATE EASEMENT E OF TANAKA	\$55	\$29,295.92
sys12665	WARREN PLACE	2	GV	533	WARREN DR NE TO CUL-DE-SAC	\$55	\$29,307.72
sys10314	S CHOCKTAW RD	2	GV	533	S CHICKASAW DR S TO CHICKASAW DR	\$55	\$29,342.41
sys30852	22ND ST	2	GV	536	READ ST E THEN S TO PRIVATE EASEMENT	\$55	\$29,463.66

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys9606	CONNER ST	2	GV	538	GARDNER ST SE TO EXISTING 2"	\$55	\$29,579.35
sys13280	FLINN ST	2	GV	552	CENTRAL AVE SE TO ONEAL ST	\$55	\$30,373.62
SSYS28872	LOGAN AVE	2	GV	554	LINER ST N TO EXISTING 2"	\$55	\$30,480.24
SSYS3706	WINDSOR AVE	2	GV	554	E 36TH ST S TO E 37TH ST	\$55	\$30,483.01
sys2098	W 47TH ST	2	GV	561	ST ELMO AVE SE TO FLORIDA AVE	\$55	\$30,872.92
sys9576	GARDNER ST	2	GV	561	CONNER ST NE TO SUNBEAM AV	\$55	\$30,881.58
sys31232	CAIN AVE	2	GV	563	W 42ND ST NE TO A POINT	\$55	\$30,948.04
sys14969	STANFIEL	2	GV	564	OCOE ST NE TO A POINT	\$55	\$31,006.48
sys2176	FAGAN ST	2	GV	570	W 42ND ST N TO LIGHT AVE	\$55	\$31,371.03
sys27055	MALLETTE RD	2	GV	580	POTTS RD N TO 6" IN BONNY OAKS	\$55	\$31,921.24
sys19630	LIBERTY ST	2	GV	590	EXISTING 2" SE TO A POINT	\$55	\$32,445.11
RH96100472769	MISSISSIPPI AVE	2	GV	594	ORR ST SE TO A POINT	\$55	\$32,678.56
sys12810	LOOKOUT LAKE RD	2	GV	595	RACCOON TR NW TO A POINT	\$55	\$32,700.81
sys1256	OAK ST	2	GV	597	SUNSET RD WEST NW TO A POINT	\$55	\$32,835.21
sys2806	S CREST RD	2	GV	599	PRIVATE EASEMENT S OF S SEMINOLE	\$55	\$32,920.02
sys29054	ELPIN RD	2	GV	599	OBERSON TR S TO WENDY TR	\$55	\$32,938.98
sys1917	POLK AVE	2	GV	600	EXISTING 6" N OF GORDAN S TO A POINT	\$55	\$33,008.99
sys12649	DOUGS DR	2	GV	601	ISBIELE RD E TO EXISTING 2"	\$55	\$33,033.59
sys2031	ALTON ST	2	GV	601	PRIVATE EASEMENT N TO 2" MAIN	\$55	\$33,047.74
sys31244	POLK AVE	2	GV	602	E 38TH ST NE TO E 37TH ST	\$55	\$33,083.12
sys28701	WOOD NYMPH TR	2	GV	604	MOTHER GOOSE TR E TO PATTEN RD	\$55	\$33,101.51
SSYS2911	E 41ST ST	2	GV	605	DODDS AVE W TO A POINT	\$55	\$33,199.38
SSYS28965	WASHINGTON ST	2	GV	606	MC FARLAND AVE E TO PORTER	\$55	\$33,280.53
SSYS3486	10TH AVE	2	GV	606	E 44TH ST N TO E 43RD ST	\$55	\$33,323.91
sys16352	WILSONIA AVE	2	GV	606	EAST AVE SE TO MCGOWAN AVE	\$55	\$33,341.73
RH01020178587	ST ELMO AVE	2	GV	608	FROM W 57TH ST S TO DEAD END	\$55	\$33,418.27
SSYS28962	OAK ST	2	GV	613	MC FARLAND AVE E THEN N ON PORTER ST	\$55	\$33,696.43
sys9994	TUXEDO AVE	2	GV	624	FROM 2" IN TUXEDO CIR N TO 2" IN MARLBORO	\$55	\$34,319.70
SSYS2893	10TH AVE	2	GV	624	E 37TH ST S TO E 39TH ST	\$55	\$34,325.76
sys9087	FAXON ST	2	GV	628	E 28TH ST S TO E 29TH ST	\$55	\$34,547.92
sys19534	MAY ST	2	GV	630	ZIEGLER ST S TO MANNING ST	\$55	\$34,643.52
sys24651	HIGHPOINT DR	2	GV	630	EXISTING 6" @ FH NE TO A POINT	\$55	\$34,673.34
sys22550	YORK ST	2	GV	632	CAMPBELL ST NW TO DEAD END	\$55	\$34,768.05
RH02100180631	BILTMORE DR	2	GV	635	FROM ROGERS RD N TO A POINT	\$55	\$34,929.09
sys8922	S HAWTHORNE ST	2	GV	636	E 28TH ST SW TO A POINT	\$55	\$34,976.36
sys1841	OAKLAND AVE	2	GV	636	W 47TH ST SW TO DEAD END	\$55	\$34,983.99
SSYS28446	RICHMOND AVE	2	GV	651	BRYAN ST THEN E ON MCMILLIN TO A POINT	\$55	\$35,804.07
sys15214	NEWTON ST	2	GV	653	ORCHARD KNOB AVE W TO EXISTING 6"	\$55	\$35,913.23
sys6764	13TH AVE	2	GV	655	31ST ST SW 32NS ST	\$55	\$36,013.10
sys7125	WAUTAUGA ST	2	GV	662	E 28TH ST NW TO A POINT	\$55	\$36,430.52
sys8237	CONNER ST	2	GV	663	NAVAJO DR E TO A POINT	\$55	\$36,459.64
sys24299	LINDCREST CIR	2	GV	663	TIKTIN DR N TO EXISTING 6"	\$55	\$36,482.09
sys30948	DELONG AVE	2	GV	671	W 33RD ST SW TO A POINT	\$55	\$36,927.46
SSYS3675	E 36TH ST	2	GV	681	JEROME ST E THEN N ON DIVINE ST TO 2"	\$55	\$37,464.88
sys1327	SUNSET RD	2	GV	681	DALE RD N TO FORK @ EXISTING 6"	\$55	\$37,470.81
sys15811	WOODS DR	2	GV	689	MIDLAND PIKE E TO DEAD END	\$55	\$37,875.54
sys8538	7TH AVE	2	GV	691	PRIVATE EASEMENT N TO I-24	\$55	\$38,013.24

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys12713	JUDYS LN	2	GV	693	JUDY'S TR W THEN S TO EXISTING 2"	\$55	\$38,116.88
sys1840	W 47TH ST	2	GV	702	OAKLAND AVE W TO EXISTING 2"	\$55	\$38,593.43
sys28338	WHITE OAK ST	2	GV	706	LAFAYETTE HWY W TO A POINT	\$55	\$38,806.16
sys8279	E 14TH ST	2	GV	712	RINGGOLD RD E TO A POINT	\$55	\$39,178.98
sys23499	NORMAN LN	2	GV	717	SIGNAL HILLS DR SW TO A POINT	\$55	\$39,413.90
sys15007	SCRUGGS ST	2	GV	720	CLEVELAND AVE NE TO EXISTING 2"	\$55	\$39,593.55
sys30492	W 38TH ST	2	GV	721	LONGVIEW ST NW TO A POINT	\$55	\$39,647.81
RH96071772758	5TH ST	2	GV	723	FORTWOOD PL SE TO CENTRAL AVE	\$55	\$39,760.46
sys28091	MCCRAW ST	2	GV	730	US HWY 27 S THEN W TO EXISTING 6"	\$55	\$40,132.90
RH98080575625	E 10TH ST	2	GV	730	FAIRVIEW AVE W TO TIE IN @ 8"	\$55	\$40,139.67
sys31824	JEFFERSON ST	2	GV	738	MAIN ST NE TO A POINT	\$55	\$40,563.61
sys10308	HEMPHILL AVE	2	GV	740	MONTVIEW AVE S TO EXISTING 8"	\$55	\$40,674.82
sys21282	ORCHARD KNOB AVE	2	GV	744	APPLING ST N TO A POINT	\$55	\$40,902.35
sys9416	HANEY DR	2	GV	770	CONNER ST NW TO WOODVALVE AVE 2"	\$55	\$42,367.88
sys23195	SIGNAL VIEW ST	2	GV	773	DAYTON BLVD NW TO NONAVA LN	\$55	\$42,532.67
sys16000	HOYT ST	2	GV	778	ISBILLE RD NE TO A POINT	\$55	\$42,799.45
sys6668	E 12TH ST	2	GV	778	DODDS AVE E TO EXISTING 2"	\$55	\$42,801.97
sys16295	SHANNON ST	2	GV	778	GILESPIE RD E TO PHOENIX	\$55	\$42,807.51
sys21027	WESTWOOD AVE	2	GV	785	EXISTING 2" S TO A POINT	\$55	\$43,188.60
sys10761	PEACHBLOOM DR	2	GV	790	HEMPHILL AVE SE THEN N TO SUNSET	\$55	\$43,433.91
sys30942	WEST AVE	2	GV	790	ALTON PK BLVD S TO N AM ROYAL TIE-IN	\$55	\$43,474.55
sys7475	E 18TH ST	2	GV	795	DODDS AVE E TO CURVE @ EXISTING 2"	\$55	\$43,474.88
sys5983	KELLYS FERRY EXTENSION	2	GV	802	FROM FORK @ KEL FERRY PL NW TO 2"	\$55	\$43,728.89
sys1539	WEST BROW RD	2	GV	803	PROSPECT WAY N TO EXISTING 6"	\$55	\$44,099.16
sys1860	ALTON ST	2	GV	805	EXISTING 2" N TO W 47TH ST	\$55	\$44,173.65
sys1596	FAIRY TR	2	GV	805	FLEETWOOD DR E THEN N TO SYLVAN DR	\$55	\$44,285.33
sys8999	12TH AVE	2	GV	827	FROM E 26TH ST SW TO E 29TH ST	\$55	\$44,293.29
sys22552	YORK ST	2	GV	834	LIGHTFOOT MILL RD NW TO 2"	\$55	\$45,487.26
SSYS28838	BATTERY DR	2	GV	845	W CREST RD SW TO 3/4 OF CIR	\$55	\$45,849.42
sys27343	ORMAND DR	2	GV	857	THELMA ST W TO DAYTON BLVD	\$55	\$46,474.60
sys12761	RONDABOO DR	2	GV	860	BROWNS FERRY RD W TO DEAD END	\$55	\$47,151.77
sys6605	BENNETT AVE	2	GV	868	WILLOW ST NW ORCHARD KNOB AVE	\$55	\$47,273.34
SSYS33485	10TH AVE	2	GV	873	E 43RD ST NE TO E 42ND ST	\$55	\$47,765.63
sys16411	BELMEADE AVE	2	GV	874	HOYT ST S TO UNNAMED ST	\$55	\$48,022.52
sys29056	ELFIN RD	2	GV	874	HARDY RD S TO OBERON TR	\$55	\$48,050.86
sys27344	PAULMAR DR	2	GV	875	DAYTON BLVD E PAST 3RD ST	\$55	\$48,108.04
sys8238	NAVAJO DR	2	GV	876	IDLEWILD DR S TO CONNER ST	\$55	\$48,180.11
sys9422	ASBURY DR	2	GV	924	CONNER ST NE TO WOODVALVE AVE 2"	\$55	\$50,818.66
sys19144	AUBURNDALE AVE	2	GV	971	OXFORD RD N TO A POINT	\$55	\$53,423.77
sys27788	WOODDROW AVE	2	GV	1101	CRESTVIEW DR W TO EXISTING 2"	\$45	\$49,534.18
sys23354	WOOFIN AVE	2	GV	1117	MARTIN RD SW TO CHARLOTTE CIR	\$45	\$50,252.11
sys27379	W DAYTONA DR	2	GV	1129	DAYTON BLVD E PAST THELMA ST	\$45	\$50,816.53
sys6914	CLIO AVE	2	GV	1158	FROM E 35TH ST S TO E 37TH ST	\$45	\$52,118.10
sys9587	MISSION VIEW AVE	2	GV	1159	BELVOIR AVE NW TO HILL TOP ST	\$45	\$52,135.48
sys24648	AVALON AVE	2	GV	1159	CRESTWOOD DR TO EXISTING 8"	\$45	\$52,174.87
sys8529	E 25TH ST PL	2	GV	1205	S ORCHARD KNOB AVE E TO 4TH AVE	\$45	\$54,208.67
sys29031	CINDERELLA RD	2	GV	1241	HARDY RD S TO RED RIDING HOOD TR	\$45	\$55,851.93

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System Pipe ID	Street	Size	Type	Length	Location	Replacement Cost/ft	Total Cost
sys29044	FLEETWOOD DR	2	GV	1339	HARDY RD S TO RED RIDING HOOD TR	\$45	\$60,277.37
sys10426	SEQUIOIA DR	2	GV	1345	CHICASAW DR S TO OLD MISSION RD	\$45	\$60,507.60
sys10790	GRANADA DR	2	GV	1461	EXISTING 2" E THEN N TO GARDNER ST	\$45	\$65,739.23
sys12700	KATHYS TR	2	GV	1463	JUDYS TR SW AROUND CIR TO MIDDLE OF JUDYS	\$45	\$65,841.05
sys20044	DAYTON BLVD	2	GV	1471	SPRING RD S TO A POINT	\$45	\$66,176.98
sys28527	WASHINGTON DR	2	GV	1577	SOUTH CREST RD E TO ORCHARD TER	\$45	\$70,962.57
sys23280	LYNDON AVE	2	GV	1820	MIDVALE AVE NW TO A POINT	\$45	\$81,915.01
sys28684	GNOME RD	2	GV	1869	FLEETWOOD DR E THEN N TO TINKERBELL LN	\$45	\$84,093.03
sys2089	W 47TH ST	2	CL	189	W/O ALABAMA AVE	\$55	\$10,389.09
sys22506	NORTHBRIER LN	2	CL	93	AT EXISTING 6"	\$55	\$5,091.88
sys13552	ARLINGTON AVE	2	CL	72	FROM EXSINTING 2" S TO EXISTING 6"	\$55	\$3,932.76
sys3997	MISSION OAKS DR	2	CL	72	FROM LAURELWOOD DR W TO A POINT	\$55	\$3,944.57
sys4676	LAZARD ST	2	CL	72	FROM PRIGMORE RD E TO A POINT	\$55	\$3,950.58
sys2556	GLYNDEN DR	2	CL	73	NORTH TO A POINT	\$55	\$4,025.57
sys5157	SUNRAY DR	2	CL	74	NORTH TO ST JAMES AVE	\$55	\$4,055.37
sys32147	16TH ST	2	CL	74	FROM COWART ST W TO BROAD ST	\$55	\$4,066.05
sys5056	HURST ST	2	CL	74	FROM SCHOFIELD AVE S TO EXISTING 8"	\$55	\$4,084.55
sys26061	ARBOR PLACE LN	2	CL	74	FROM EXISTING 6" SOUTH TO 2"	\$55	\$4,091.48
sys27559	CRESTVIEW DR	2	CL	75	TIE IN TO HIXSON UTILITY	\$55	\$4,112.38
sys5154	MARIETTA ST	2	CL	76	FROM ADAIR AVE EAST TO A POINT	\$55	\$4,157.41
sys20164	SAWYER ST	2	CL	76	FROM 8" MAIN W TO A POINT	\$55	\$4,168.00
sys15874	BOOTH RD	2	CL	76	FROM RIDGEVALE AVE S TO A POINT	\$55	\$4,191.12
sys7931	DELL TERR	2	CL	77	FROM GLENDON DR S TO DELL TERR	\$55	\$4,233.37
sys14450	BAILEY AVE	2	CL	77	TO HOLTZCLAW AVE	\$55	\$4,235.39
SSYS3593	16TH AVE	2	CL	77	AT E 36TH ST	\$55	\$4,248.64
sys13236	CADIZ ST	2	CL	78	BETWEEN HAWTHORNE AND HICKORY ST	\$55	\$4,266.77
sys9530	IN ALLEY	2	CL	78	FROM WOODLAWN DR N TO A POINT	\$55	\$4,306.21
sys30263	ORION DR	2	CL	78	NORTH TO W 40TH ST	\$55	\$4,316.60
sys22551	YORK ST	2	CL	80	NORTH TO A POINT	\$55	\$4,423.86
sys28668	TERRACE ST	2	CL	81	NORTH TO CHICKAMAUGA AVE	\$55	\$4,434.36
SSYS4170	14TH AVE	2	CL	81	FROM 2" MAIN S TO STATE LINE	\$55	\$4,454.85
sys1521	LINCOLN ST	2	CL	81	FROM MOUNTAIN AVE E TO 2" MAIN	\$55	\$4,469.47
sys16721	RAE TR	2	CL	81	AT DEAD END	\$55	\$4,480.29
sys28586	MAGNOLIA ST	2	CL	81	SOUTH OF CATOOSA ST	\$55	\$4,480.85
sys23233	PIPPIN ST	2	CL	82	AT N GREENLEAF ST	\$55	\$4,509.23
sys9536	SUNBEAM AVE	2	CL	83	FROM LOVELL AVE S TO 8" MAIN	\$55	\$4,580.65
sys13457	PARK AVE	2	CL	84	FROM ML KING NORTH TO A POINT	\$55	\$4,604.57
sys20208	WHITE OAK RD	2	CL	84	AT PUMP STATION BERKLEY CIR	\$55	\$4,616.51
sys12975	MAIN ST	2	CL	85	WEST FROM E 14TH ST	\$55	\$4,649.33
sys26666	HIGHWAY 58	2	CL	85	AT CHAMPION RD	\$55	\$4,673.15
sys5163	S SMITH ST	2	CL	85	NORTH OF MARIETTA ST	\$55	\$4,683.28
sys4445	LESLIE ST	2	CL	85	EAST OF ALTAMAHA ST	\$55	\$4,696.77
sys5149	FINCHER AVE	2	CL	85	FROM 2" MAIN N TO DEAD END	\$55	\$4,697.85
sys27420	LAVONIA AVE	2	CL	87	FROM 8" MAIN W TO A POINT	\$55	\$4,808.66
sys31594	E 12TH ST	2	CL	88	FROM EXISTING 6" TO PEEPLES ST	\$55	\$4,827.49
sys10737	HOWARD AVE	2	CL	88	FROM HEMMILL AVE W TO A POINT	\$55	\$4,832.18
sys24434	HAYWOOD AVE	2	CL	88	AT PUMP STATION E/O OZARK CIR	\$55	\$4,837.17

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System Pipe ID	Street	Size	Type	Length	Location	Replacement Cost/ft	Total Cost
sys3846	MELODY LN	2	CL	88	FROM PHELPS ST S TO A POINT	\$55	\$4,847.99
sys7803	FAGAN ST	2	CL	89	S/O E 17TH ST	\$55	\$4,914.45
sys10265	VANNOY DR	2	CL	90	FROM BELLE VISTA AVE N TO A POINT	\$55	\$4,925.73
sys24433	HAYWOOD AVE	2	CL	90	AT PUMP STATION E/O OZARK CIR	\$55	\$4,971.22
sys19265	GUILD ST	2	CL	91	FROM SPEARS AVE WEST TO 2" MAIN	\$55	\$4,979.16
sys31248	E 36TH PL	2	CL	91	AT DEAD END	\$55	\$4,981.14
sys10129	N HOWELL AVE	2	CL	91	FROM OLD MISSION RD N TO A POINT	\$55	\$5,016.17
sys32330	W 13TH ST	2	CL	91	S THUR ALLEY	\$55	\$5,029.21
SSYS3592	16TH AVE	2	CL	92	AT E 36TH ST	\$55	\$5,079.89
sys16849	ANGES AVE	2	CL	92	AT JEANAGA TR	\$55	\$5,080.26
sys31132	MYRA AVE	2	CL	92	AT DEAD END	\$55	\$5,081.73
sys3295	WELDON DR	2	CL	92	AT WIMBERELY LN	\$55	\$5,084.82
sys7382	OLD RINGGOLD RD	2	CL	93	AT TUNNEL	\$55	\$5,108.64
sys20461	WOOD AVE	2	CL	93	NORTH OF APPLING ST	\$55	\$5,118.78
sys19804	MARYLAND ST	2	CL	93	FROM SNOW ST WEST TO A POINT	\$55	\$5,130.77
sys15897	PINEWOOD AVE	2	CL	94	AT SHARP CURVE	\$55	\$5,148.42
sys28600	OAK ST	2	CL	95	BETWEEN WARREN ST. AND LAWRENCE DR	\$55	\$5,217.40
sys30783	PARK ST	2	CL	95	E BROW RD WEST TO A POINT	\$55	\$5,250.12
sys3217	KINGWOOD CIR	2	CL	96	KINGWOOD DR S TO EXISTING 2	\$55	\$5,287.12
sys19017	WHITE OAK RD	2	CL	96	PUMP STATION AT BERLKEY CIR	\$55	\$5,288.73
sys4294	CASTLEBERRY AVE	2	CL	96	MARIETTA ST S TO EXISTING 2"	\$55	\$5,301.57
sys8943	1ST AVE	2	CL	97	FROM EXISTING 2" N TO EXISTING 6"	\$55	\$5,333.16
sys2696	BURNT MILL RD	2	CL	98	END OF SYSTEM CONNECTION OF WALKER COUNTY	\$55	\$5,372.40
sys23615	HEDGEWOOD DR	2	CL	98	AT DAYTON BLVD	\$55	\$5,405.81
sys10025	SUNBEAM AVE	2	CL	98	S MOORE E TO A POINT	\$55	\$5,406.64
sys22613	FROST ST	2	CL	98	S/O LOCKWOOD AVE	\$55	\$5,412.13
sys20855	BOYLSTON ST	2	CL	98	E/O ALBANY ST	\$55	\$5,414.32
sys7455	DUNLAP AVE	2	CL	100	WESTONIA DR N TO A POINT	\$55	\$5,511.11
sys13450	ALLEY WAY	2	CL	100	BETWEEN ML KING AND E 10TH ST	\$55	\$5,521.61
sys26665	CHAMPION RD	2	CL	101	AT CHAMPION RD METERS FOR EASTSIDE UTILITY	\$55	\$5,529.88
sys19431	E MANNING ST	2	CL	102	FOREST AVE AT PRV	\$55	\$5,596.83
sys31245	E 40TH ST	2	CL	102	WEST FROM FAGAN ST	\$55	\$5,627.50
sys15864	RODGERS RD	2	CL	102	WEST OF GERMANTOWN RD	\$55	\$5,632.76
sys10315	CHICKASAW DR	2	CL	103	AT SEQUOIA DR	\$55	\$5,670.21
sys19264	GUILD ST	2	CL	103	BETWEEN SNOW ST AND SPEARS AVE	\$55	\$5,677.18
sys2555	W 53RD ST	2	CL	103	PRV VALVE S/O SUNNYSIDE AVE	\$55	\$5,687.02
sys7485	SHERIDAN RD	2	CL	104	N/O BROOKHAVEN RD	\$55	\$5,700.94
sys4636	LUNDY LN	2	CL	104	AT DEAD END	\$55	\$5,723.18
sys22583	STEPHENS ST	2	CL	105	AT DEAD END	\$55	\$5,777.16
sys30533	SENECA AVE	2	CL	105	AT INTERSECTION OF EAST AVE	\$55	\$5,798.20
sys27852	LAWTON ST	2	CL	106	WEST OF TACOMA ST	\$55	\$5,811.20
sys22621	WILLHOLT ST	2	CL	106	S/O GLASS ST	\$55	\$5,831.86
sys28573	BENTLY DR	2	CL	106	S/O LONGVIEW DR	\$55	\$5,843.01
sys30331	CHANDLER AVE	2	CL	106	S/O W 40TH ST	\$55	\$5,848.29
sys10662	PARKDALE AVE	2	CL	107	S/O ARROWHEAD RD	\$55	\$5,877.88
sys16005	OVERLOOK AVE	2	CL	108	S/O LASALLE ST	\$55	\$5,925.65
sys5159	SPRINGVALE RD	2	CL	108	N/O CLEMONS RD	\$55	\$5,958.34

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys7540	BEECH ST	2	CL	111	S/O ANDERSON AVE	\$55	\$6,110.76
sys31553	FOSTER ST	2	CL	111	S/O M L KING BLVD	\$55	\$6,122.83
sys8593	HICKORY ST	2	CL	112	BO FOR 24" MAIN	\$55	\$6,144.52
sys15658	VICTORY CIR	2	CL	112	W/O HEMPHILL CIR	\$55	\$6,152.40
sys24197	N. GREENLEAF	2	CL	112	TO S GREEN LEAF ST	\$55	\$6,179.29
sys20440	TAYLOR ST	2	CL	113	N/O CHEEK ST	\$55	\$6,194.12
sys12446	MACKEY AVE	2	CL	113	N/O IGOU GAP RD	\$55	\$6,201.48
sys13799	WHEELER AVE	2	CL	113	N/O CITICO AVE	\$55	\$6,218.85
sys24272	VAN WINKLE CIR	2	CL	113	AT DEAD END	\$55	\$6,238.30
sys16945	WILCOX BLVD	2	CL	113	AT END OF MAIN	\$55	\$6,242.27
sys7671	E 35TH ST	2	CL	114	AT ROSSVILLE BLVD	\$55	\$6,245.84
sys7337	SEMINOLE DR	2	CL	114	CROSS TIE TO DUNLAP AVE	\$55	\$6,282.00
sys2092	FLORENCE ST	2	CL	114	FROM BRAGG AVE W TO KYLE AVE	\$55	\$6,282.45
sys2302	BEDFORD AVE	2	CL	116	SOUTH END TANK	\$55	\$6,353.22
sys15895	ROWE RD	2	CL	116	AT END OF MAIN	\$55	\$6,355.79
sys3656	RAVINE ST	2	CL	116	N/O 32ND ST	\$55	\$6,371.39
sys10645	KEMP RD	2	CL	116	E/O SHAWNEE TR AT DEAD END	\$55	\$6,379.20
sys23116	APISON PK	2	CL	117	END OF SYSTEM CONNECTION OF EASTSIDE	\$55	\$6,419.63
sys28390	WOODLAND DR	2	CL	117	EAST TO A POINT	\$55	\$6,431.95
sys7234	MYRA AVE	2	CL	118	AT DEAD END	\$55	\$6,462.75
sys7672	ROSSVILLE BLVD	2	CL	119	AT E 35TH ST	\$55	\$6,533.11
sys23943	FYFFE AVE	2	CL	119	FROM EXISTING 2 MAIN S/O MARTIN RD	\$55	\$6,541.68
sys6935	12TH AVE	2	CL	119	SOUTH OF HOYT ST	\$55	\$6,554.74
sys13777	KILMER ST	2	CL	120	NORTH TO PARKWOOD DR	\$55	\$6,581.50
sys31560	FOSTER ST	2	CL	120	E OF E 10TH ST	\$55	\$6,590.47
sys16699	DELRIDGE DR	2	CL	121	PRV STATION	\$55	\$6,639.81
sys9725	ANDERSON AVE	2	CL	122	NORTH TO S TERRACE AVE	\$55	\$6,683.13
sys1741	PRIVATE EASEMENT	2	CL	122	WEST OF WOODHILL DR	\$55	\$6,692.59
sys23118	APISON PK	2	CL	122	END OF SYSTEM CONNECTION OF EASTSIDE	\$55	\$6,698.69
sys9726	ANDERSON AVE	2	CL	122	NORTH TO S TERRACE AVE	\$55	\$6,715.46
sys9591	EASTVIEW AVE	2	CL	124	W/O MISSION VIEW	\$55	\$6,817.83
sys16942	NELLIE ST	2	CL	125	S/O HIGH ST	\$55	\$6,866.10
sys15629	PEARL ST	2	CL	125	S/O GILBERT ST	\$55	\$6,873.22
sys7691	E 17TH ST	2	CL	125	FROM EXISTING 2" EAST TO POLK ST	\$55	\$6,898.96
sys632	CLOSE RD	2	CL	126	S/O JOHN ROSS RD	\$55	\$6,907.58
sys21286	FAIRLEIGH ST	2	CL	126	FROM ROANOKE AVE W TO A POINT	\$55	\$6,951.75
sys9129	DIVINE ST	2	CL	127	FROM 2" MAIN N TO E 35TH ST	\$55	\$6,961.75
sys8216	ELMWOOD ST	2	CL	127	FROM 2" MAIN S TO A POINT	\$55	\$6,983.03
sys8414	E 18TH ST	2	CL	128	FROM 2" MAIN EAST TO A POINT	\$55	\$7,032.12
sys3191	E 46TH ST	2	CL	128	AT HWY 27	\$55	\$7,053.17
sys16111	EDDINDS ST	2	CL	128	AT END OF MAIN	\$55	\$7,063.36
sys16858	TUPELO CRT	2	CL	129	COTTONWOOD LN TO DEAD END	\$55	\$7,078.45
sys10487	WOODVALE AVE	2	CL	129	FROM ARROWHEAD RD S TO A POINT	\$55	\$7,099.84
sys23229	KINGSTON ST	2	CL	129	FROM PIPPIN ST EAST TO 2" MAIN	\$55	\$7,108.75
sys2547	W 52RD ST	2	CL	130	BETWEEN BEULAH AVE & TENN AVE	\$55	\$7,157.21
sys10740	STONE CIR	2	CL	131	FROM HEMHILL AVE W TO A POINT	\$55	\$7,189.72
sys1740	PRIVATE EASEMENT	2	CL	131	WEST OF WOODHILL DR	\$55	\$7,197.44

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sys15317	CAMDEN ST	2	CL	132	AT END OF MAIN	\$55	\$7,245.32
sys23819	BRIGGS AVE	2	CL	133	S/O SIGNAL VIEW ST	\$55	\$7,308.36
sys9473	ANDERSON AVE	2	CL	133	AT HOWELL RD	\$55	\$7,335.49
sys2632	SUNNYSIDE AVE	2	CL	134	AT DEAD END	\$55	\$7,346.32
sys20195	VALENTINE CIR	2	CL	134	W/O FAIRMOUNT AVE	\$55	\$7,354.57
sys22235	AWTREY ST	2	CL	135	S/O ANDREWS ST	\$55	\$7,442.37
sys7166	SUNSET TERR	2	CL	136	AT INTERSTATE	\$55	\$7,475.16
sys10332	PROVENCE ST	2	CL	136	S/O ROSEVIEW AVE	\$55	\$7,488.05
sys3274	CONNELLY LN	2	CL	137	S/O LAREDO AVE	\$55	\$7,514.49
sys14849	E 1ST ST	2	CL	137	N/O BATTERY PL	\$55	\$7,536.85
sys13744	IVY ST	2	CL	138	FROM MCCONNELL ST E TO WATKINS ST	\$55	\$7,605.48
sys5229	KENTON DR	2	CL	138	E/O MARLBORO AVE	\$55	\$7,609.82
sys2363	DORSEY ST	2	CL	138	N/O HALSEY ST	\$55	\$7,614.41
sys5164	TRUMAN AVE	2	CL	138	N/O MARIETTA ST	\$55	\$7,614.63
sys27447	NORWOOD AVE	2	CL	139	S/O TRENTON ST	\$55	\$7,620.87
sys9029	CRESENT CIR	2	CL	139	S/O E 32ND ST	\$55	\$7,641.65
sys30460	SHINGLE RD	2	CL	140	AT SCENIC HWY	\$55	\$7,698.11
sys27072	HANCOCK RD	2	CL	140	JERSEY PK (CROSSTIE)	\$55	\$7,707.91
sys3994	GLEN OAKS DR	2	CL	141	AT DEAD END	\$55	\$7,753.16
sys16173	HILLDALE DR	2	CL	141	AT LYNNCREST DR	\$55	\$7,779.51
sys24724	RIVER HILLS DR W	2	CL	142	AT DEAD END	\$55	\$7,811.09
sys19158	BOYLSTON ST	2	CL	142	E/O ALBANY ST	\$55	\$7,821.87
sys9202	WEST VIEW AVE	2	CL	142	S/O NAVAJO DR	\$55	\$7,830.67
sys28488	ROSWELL RD	2	CL	143	S/O CONDON DR	\$55	\$7,840.90
sys4853	MT BELVOIR DR	2	CL	144	S/O INDIAN TR AT DEAD END	\$55	\$7,904.11
sys7180	S END AVE	2	CL	144	AT CREST RD	\$55	\$7,939.93
sys1339	FOREST AVE	2	CL	146	S/O N HERMITAGE AVE	\$55	\$8,037.45
sys23258	ONTARIO ST	2	CL	146	W/O DUFFEA ST	\$55	\$8,047.11
sys14878	PRIVATE EASEMENT	2	CL	148	BETWEEN BLACKFORD ST TO PIERCE AVE	\$55	\$8,133.35
sys7894	FAGAN ST	2	CL	148	FROM E 16TH ST TO E 17TH ST	\$55	\$8,143.18
sys16121	BROWNTOWN RD	2	CL	149	MERRYDALE DR S TO DEAD END	\$55	\$8,184.27
sys23801	MILLER AVE	2	CL	150	FROM HEDGEWOOD DR W TO A POINT	\$55	\$8,243.11
sys21246	WHEELER AVE	2	CL	150	FROM GILBERT ST N TO A POINT	\$55	\$8,257.21
sys3769	CHIPPWAH DR	2	CL	150	N OF WAKULLA DR	\$55	\$8,272.93
sys1955	W 57TH ST	2	CL	151	DIXIE AVE W TO A POINT	\$55	\$8,290.87
sys6656	RYAN ST	2	CL	151	OLD RINGGOLD RD TO E 17TH ST	\$55	\$8,314.75
sys10317	OLD MISSION RD	2	CL	151	FROM WOODVALE AVE TO WOODVALE AVE	\$55	\$8,328.96
sys5048	SUNNY DELL CIR	2	CL	152	TO DEAD END	\$55	\$8,333.46
sys2020	GRANDVIEW AVE	2	CL	152	AT DEAD END	\$55	\$8,359.60
sys1953	DIXIE AVE	2	CL	152	S/O W 56TH ST	\$55	\$8,385.91
sys6936	HOYT ST	2	CL	153	FROM WILLS ST	\$55	\$8,421.62
sys5188	CLEMONS RD	2	CL	153	FROM SWOPE RD W TO A POINT	\$55	\$8,426.59
sys9729	ANDERSON AVE	2	CL	154	E/O NORMA DR	\$55	\$8,451.45
sys16046	LEADFORD AVE	2	CL	155	FROM ROCKWAY AVE TO DEAD END	\$55	\$8,537.90
sys16349	MCGOWAN AVE	2	CL	156	BETWEEN WILSONIA AVE AND WILSON AVE	\$55	\$8,564.94
sys8285	ALLEY WAY	2	CL	156	BETWEEN E 14TH S TO A POINT	\$55	\$8,594.10
sys28595	ELMWOOD ST	2	CL	157	FROM N ELMWOOD S TO EXISTING 2"	\$55	\$8,608.71

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys10128	N HOWELL AVE	2	CL	157	FROM OLD MISSION RD N TO A POINT	\$55	\$8,646.34
sys15332	WHEELER AVE	2	CL	158	N/O MILNE ST	\$55	\$8,684.50
sys28541	HICKORY ST	2	CL	158	E/O PINE ST	\$55	\$8,703.24
sys24132	4TH AVE	2	CL	159	W/O 3RD AVE	\$55	\$8,721.69
sys7976	CANNON AVE	2	CL	159	AT I-24	\$55	\$8,729.88
sys16347	LARKIN AVE	2	CL	159	N/O BELLE VISTA AVE	\$55	\$8,730.54
sys3599	16TH AVE	2	CL	159	S/O 32ND ST	\$55	\$8,732.16
sys9992	TUXEDO CIR	2	CL	159	IN CIRCLE	\$55	\$8,771.24
SSYS28870	LOGAN AVE	2	CL	160	S/O WASHINGTON ST	\$55	\$8,785.44
sys17029	BREIT ST	2	CL	160	W/O EASTWOOD AVE	\$55	\$8,808.50
sys28210	CENTER ST	2	CL	161	N/O BAKER ST	\$55	\$8,853.35
sys6475	FLORENCE ST	2	CL	161	FROM KYLE AVE E TO BRAGG AVE	\$55	\$8,854.85
sys9292	SHAWNEE TR	2	CL	161	S/O OLD MISSION RD	\$55	\$8,864.98
sys16859	BALSAM LN	2	CL	161	FROM PERSIMMON LN TO DEAD END	\$55	\$8,875.37
SSYS3523	E 43RD ST	2	CL	162	FROM 15TH AVE WEST TO A POINT	\$55	\$8,901.34
sys9628	JOHN SIMS RD	2	CL	163	AT DEAD END	\$55	\$8,938.09
sys9008	CRESCENT ST	2	CL	163	N/O E 30TH ST	\$55	\$8,967.82
sys5167	KEBBLE ST	2	CL	163	FROM MCKINLEY ST N TO 2" MAIN	\$55	\$8,988.17
sys13753	GLENWOOD CIR	2	CL	164	N/O CLIO AVE	\$55	\$9,029.03
sys2034	HOSKINS ST	2	CL	165	W/O HERMITAGE AVE	\$55	\$9,093.56
sys32354	18TH ST	2	CL	166	W/O COWART ST	\$55	\$9,145.47
sys13548	TAYLOR ST	2	CL	168	FROM GILBERT ST SOUTH	\$55	\$9,220.45
sys6728	CLIO AVE	2	CL	168	S/O E 34TH ST	\$55	\$9,224.06
sys4393	BOYD ST	2	CL	168	S/O OAKDALE AVE	\$55	\$9,229.31
sys7977	I 24	2	CL	168	E/O CANNON AVE	\$55	\$9,230.56
sys1255	LOOKOUT MOUNTAIN TU	2	CL	169	W/O BRAGG AVE	\$55	\$9,301.97
sys15290	LAURA ST	2	CL	169	FROM 6" MAIN TO 6" MAIN	\$55	\$9,304.49
sys1556	LAUREL LN	2	CL	170	FROM 6" MAIN TO 6" MAIN	\$55	\$9,327.54
sys16338	WOODMORE TERR	2	CL	170	FROM TALLEY RD E TO A POINT	\$55	\$9,329.22
sys30347	HUGHES AVE	2	CL	170	N/O E 41ST ST	\$55	\$9,353.33
RH01062679574	W 14TH ST	2	CL	171	FROM 6" MAIN E TO FORT ST	\$55	\$9,396.01
sys4394	OAKDALE AVE	2	CL	171	FROM BOYD ST E TO ARMOUR ST	\$55	\$9,396.76
sys4875	MARION AVE	2	CL	171	W/O W END AVE	\$55	\$9,408.54
sys28564	FERGISS DR	2	CL	173	N/O TERRACE ST	\$55	\$9,508.04
sys23830	SIGNAL VIEW ST	2	CL	173	E/O BRIGGS ST	\$55	\$9,537.39
sys9165	PARKWAY CIR	2	CL	174	FROM CONNER ST N TO GLENDON DR	\$55	\$9,542.93
sys9192	CHULA VISTA DR	2	CL	174	CONNECTS AN 8" & 6" MAIN WEST OF HILLTOP DR	\$55	\$9,555.76
sys21197	ALBANY ST	2	CL	174	S/O ENDICOTT ST	\$55	\$9,561.27
sys22191	CHAMBERLAIN AVE	2	CL	174	N/O WILDER ST	\$55	\$9,571.50
sys19549	STRINGER ST	2	CL	175	S/O SOMERVILLE ST	\$55	\$9,624.80
sys16811	LILLIAN LN	2	CL	175	N/O WILCOX BLVD	\$55	\$9,636.25
sys14427	PARK ST	2	CL	175	N/O E 8TH ST	\$55	\$9,645.10
sys28482	MILFORD DR	2	CL	176	AT DEAD END	\$55	\$9,661.83
sys23800	GOODSON AVE	2	CL	176	S TO DEAD END	\$55	\$9,701.23
RH96062772647	HANOVER ST	2	CL	177	S/O WAVERLY ST	\$55	\$9,713.07
sys23393	ALDEN AVE	2	CL	177	S/O DELRAY AVE	\$55	\$9,742.16
sys10894	DELL TERR	2	CL	177	FROM VISTA DR EAST TO EXISTING 2 MAIN	\$55	\$9,754.75

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System Pipe ID	Street	Size	Type	Length	Location	Replacement Cost/ft	Total Cost
sys6547	ALLEY WAY	2	CL	178	E/O GREENWOOD AVE	\$55	\$9,798.38
SSYS3527	E CREST RD	2	CL	178	N TO DEAD END	\$55	\$9,807.55
sys28535	MAGNOLIA ST	2	CL	180	N/O ALABAMA ST	\$55	\$9,896.39
sys8979	10TH AVE	2	CL	180	S/O E 29TH ST	\$55	\$9,914.78
sys20799	MILDRED RD	2	CL	181	E/O MISSISSIPPI AVE	\$55	\$9,930.43
sys4746	GREENBRIAR RD	2	CL	181	FROM MYRTLE AVE EAST	\$55	\$9,947.31
sys8491	KYLE ST	2	CL	182	BETWEEN 12TH & 13TH ST	\$55	\$10,012.77
sys22543	WAUCHULA ST	2	CL	182	AT DEAD END	\$55	\$10,025.20
sys21923	CHERRY ST	2	CL	183	S/O LATTI ST	\$55	\$10,076.99
sys8967	3RD AVE	2	CL	184	S/O E 33RD ST	\$55	\$10,105.34
sys19172	SYLVAN ST	2	CL	184	N/O FOREST AVE	\$55	\$10,142.00
sys5231	KENTON DR	2	CL	186	AT GREENUP LANE	\$55	\$10,217.55
SSYS2837	COVINGTON ST	2	CL	187	S/O E 51ST ST	\$55	\$10,296.42
sys4180	DEAD END	2	CL	187	S/O JUSTINE LN	\$55	\$10,299.50
SSYS3696	E 34TH ST	2	CL	188	FROM 14TH ST EAST TO A POINT	\$55	\$10,343.27
sys9235	BROOKFIELD AVE	2	CL	188	S/O SUNBEAM AVE	\$55	\$10,357.37
sys20093	PEAK ST	2	CL	188	E/O SPEARS AVE	\$55	\$10,363.86
sys9477	ANDERSON AVE	2	CL	189	AT 1-24	\$55	\$10,370.77
sys21920	ALLEY WAY	2	CL	190	BETWEEN CRUTCHFIELD ST AND LATTI ST	\$55	\$10,433.54
sys30078	WATSON ST	2	CL	190	W/O BROAD ST	\$55	\$10,443.48
sys16941	HIGH ST	2	CL	191	FROM NELLIE ST E TO MCCORD AVE	\$55	\$10,490.84
sys21357	APPLING ST	2	CL	191	W/O TAYLOR ST	\$55	\$10,509.53
sys13521	FAGAN ST	2	CL	191	FROM E 16TH ST SOUTH TO E 17TH ST	\$55	\$10,518.75
sys13706	WHEELER AVE	2	CL	191	N/O CITICO AVE	\$55	\$10,527.16
sys28225	GREENFIELD DR	2	CL	192	E/O LYNN GROVE DR	\$55	\$10,561.47
sys3276	LAREDO CT	2	CL	192	N/O LAREDO AVE	\$55	\$10,580.67
sys2652	DORSEY ST	2	CL	193	E/O CENTRAL AVE	\$55	\$10,590.14
sys20183	FRANKLIN ST	2	CL	193	WEST OF KEITH ST	\$55	\$10,627.01
sys10276	PARKDALE AVE	2	CL	194	S/O MIDLAND PK	\$55	\$10,652.75
sys30937	W 28TH ST	2	CL	194	N/O HOME DR	\$55	\$10,693.97
sys9956	KENWOOD CIR	2	CL	195	S/O KENWOOD ST	\$55	\$10,713.37
sys28642	HAYES ST	2	CL	196	BETWEEN OLD LAFAYETTE RD & HWY 27	\$55	\$10,773.35
sys16178	LYNNCREST DR	2	CL	197	S/O WINDMERE DR	\$55	\$10,821.73
sys7183	SUNSET TERR	2	CL	197	AND INTERSTATE	\$55	\$10,825.51
sys31228	TARLTON AVE	2	CL	197	AT DEAD END	\$55	\$10,839.61
sys9654	HOWELL AVE	2	CL	197	AT GREENVIEW DR	\$55	\$10,857.15
RH00032178234	17TH ST	2	CL	197	E/O READ AVE	\$55	\$10,857.19
SSYS3631	CALHOUN PL	2	CL	198	FROM CALHOUN ST E TO ROSS BLVD	\$55	\$10,906.88
sys28223	GREENFIELD DR	2	CL	199	N/O LYNN BROVE DR	\$55	\$10,919.76
sys28667	FERGISS DR	2	CL	199	N/O TERRACE ST TO RIDGE CREST CIR	\$55	\$10,965.05
sys7019	10TH AVE	2	CL	200	N/O 30TH ST	\$55	\$10,993.47
sys28243	CHESTNUT ST	2	CL	200	E/O ELMWOOD ST	\$55	\$11,009.38
sys5298	RIDGEFIELD CIR	2	CL	201	AT DEAD END	\$55	\$11,042.87
sys10971	MAYFAIR AVE	2	CL	201	W/O MCBRIEN RD	\$55	\$11,053.67
sys15944	SHAWHAN TERR	2	CL	201	AT DEAD END	\$55	\$11,067.70
sys6655	E 17TH ST	2	CL	201	FROM 2" E TO EXISTING 2"	\$55	\$11,077.61
sys10237	MOOREMONT TERR	2	CL	202	E/O BILTMORE DR	\$55	\$11,115.47

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys16161	ORANGEWOOD AVE	2	CL	205	AT DEAD END	\$55	\$11,266.07
sys27378	W DAYTONA DR	2	CL	206	E/O THELMA ST	\$55	\$11,330.66
sys161	GARNER CIR	2	CL	207	N/O GARNER ST	\$55	\$11,385.21
sys9375	BRIER ST	2	CL	207	W/O SWEET BRIAR AVE	\$55	\$11,407.25
sys15614	ARLINGTON AVE	2	CL	208	S/O OCOEE ST	\$55	\$11,416.10
sys9223	BROOKFIELD AVE	2	CL	208	NORTH OF SUNBEAM AVE	\$55	\$11,420.94
sys9902	PARKSDALE AVE	2	CL	209	S/O MAYFAIR AVE	\$55	\$11,510.82
sys9118	35TH ST PL	2	CL	210	W/O JEROME ST	\$55	\$11,562.04
sys96	ROSEMART CIR	2	CL	211	N/O E HUNTINGTON RD	\$55	\$11,606.10
sys15008	SCRUGGS RD	2	CL	211	AT DEAD END	\$55	\$11,625.38
sys1285	BRAGG AVE N	2	CL	212	N/O LOOKOUT MTN TURNPIKE	\$55	\$11,648.09
sys28603	OLD CARLINE RD	2	CL	212	N/O MCAFFEE RD	\$55	\$11,684.48
sys7336	N MISSION RIDGE	2	CL	213	N/O BLOOM RD	\$55	\$11,708.52
sys9178	BOUGHTON ST	2	CL	213	S/O NAVAJO DR	\$55	\$11,719.52
sys1335	FLORENCE ST	2	CL	213	FROM KYLE AVE E TO BRAGG AVE	\$55	\$11,728.21
sys15877	BOOTH RD	2	CL	214	SOUTH OF RIDGESIDE RD	\$55	\$11,742.60
sys3156	GLEN OAKS PL	2	CL	215	TO DEAD END	\$55	\$11,830.57
sys3805	WAHEELA AVE	2	CL	215	AT END OF MAIN	\$55	\$11,843.45
sys2543	W 51ST ST	2	CL	216	E/O FLORIDA AVE	\$55	\$11,869.39
sys8885	13TH AVE	2	CL	216	AT DEAD END	\$55	\$11,871.48
sys10883	DAUPHIN WAY	2	CL	216	FROM AUDUBON DR S TO HARCOURT DR	\$55	\$11,879.76
sys28611	MIDWAY AVE	2	CL	217	W/O CROSS ST	\$55	\$11,916.57
sys9776	PARKSDALE AVE	2	CL	217	AT I-24	\$55	\$11,950.37
sys1835	GRANDVIEW AVE	2	CL	217	E/O HERMITAGE AVE	\$55	\$11,955.14
sys8924	MORGAN AVE	2	CL	219	AT DEAD END	\$55	\$12,061.62
sys27449	NORWOOD AVE	2	CL	220	NORTH OF TRENTON ST	\$55	\$12,087.47
sys22340	GREEN FOREST LN	2	CL	220	AT DEAD END	\$55	\$12,089.69
sys10324	TALLEY TERR	2	CL	221	TO DEAD END	\$55	\$12,130.36
sys11021	HARDIN DR	2	CL	221	S/O SWEETBRIER CIR	\$55	\$12,130.94
sys16174	LYNNCREST DR	2	CL	221	AT DEAD END	\$55	\$12,156.47
sys6508	E 14TH ST	2	CL	221	WEST OF MAIN ST	\$55	\$12,171.94
sys7608	WATKINS ST	2	CL	222	N/O E 12TH ST	\$55	\$12,199.37
sys27215	CLINE ST	2	CL	222	FROM BERKLEY DR WEST TO A POINT	\$55	\$12,228.23
sys28046	CLINE CT	2	CL	223	S OF CLINE ST	\$55	\$12,280.58
sys8705	CLAREMONT CRT	2	CL	224	TO DEAD END	\$55	\$12,297.96
sys28138	TERRACE ST	2	CL	224	TO DEAD END	\$55	\$12,326.61
sys23239	PIPPIN ST	2	CL	224	FROM KINGSTON ST W TO BERKLEY DR	\$55	\$12,329.65
sys28612	CROSS ST	2	CL	224	FROM MIDWAY AVE N TO A POINT	\$55	\$12,332.46
sys28608	MCAFFEE RD	2	CL	225	BETWEEN LAFAYETTE RD AND OLD CARLINE RD	\$55	\$12,391.43
sys7513	HIGHLAND RD	2	CL	225	S/O RINGGOLD RD	\$55	\$12,396.68
sys13547	TAYLOR ST	2	CL	226	N/O OLIVE ST	\$55	\$12,451.75
sys7885	S SEMINOLE DR	2	CL	227	AT TUNNEL	\$55	\$12,470.63
sys28185	DOGWOOD LN	2	CL	227	W/O SCENIC HWY	\$55	\$12,471.22
sys23612	LYNDON AVE	2	CL	228	BY R/R TRACKS	\$55	\$12,521.51
sys20456	FAIRLEIGH ST	2	CL	228	W/O WOOD AVE	\$55	\$12,531.29
sys20819	MCFARLAND AVE	2	CL	229	S/O STERLING AVE	\$55	\$12,578.42
sys23789	PEACE ST	2	CL	229	S TO DEAD END	\$55	\$12,616.35

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys21517	EASEMENT	2	CL	230	E/O BENTON AVE	\$55	\$12,628.38
SSYS3473	EASEMENT	2	CL	230	E/O JEROME AVE	\$55	\$12,639.86
sys13460	FLYNN ST	2	CL	230	FROM FAIRVIEW AVE WEST TO A POINT	\$55	\$12,670.00
sys1954	DIXIE AVE	2	CL	230	S/O W 57TH ST	\$55	\$12,672.51
sys4004	SHERLIN DR	2	CL	231	W/O GREENSLAKE RD	\$55	\$12,715.49
sys22054	TAYLOR ST	2	CL	231	S/O ELMENDORF ST	\$55	\$12,723.84
sys3269	CONNELLY LN	2	CL	232	E/O BALES AVE	\$55	\$12,757.97
sys21396	TAYLOR ST	2	CL	232	S/O CHEEK ST	\$55	\$12,774.39
sys13750	E 5TH ST	2	CL	233	E/O GLENWOOD DR	\$55	\$12,803.43
sys16943	MCCORD AVE	2	CL	233	FROM FOX DR TO HIGH ST	\$55	\$12,805.87
sys9103	CHIPPEWAH DR	2	CL	234	FROM WAKULLA DR N TO A POINT	\$55	\$12,851.89
sys8700	POINDEXTER AVE	2	CL	234	N/O CLAREMONT AVE	\$55	\$12,876.90
sys22474	MEADOW LN	2	CL	234	N/O BOYCE ST	\$55	\$12,890.92
sys28634	FRENCH ST	2	CL	235	W/O PINEHILL RD	\$55	\$12,904.33
sys20607	OVERMAN ST	2	CL	235	S/O WORTHINGTON ST	\$55	\$12,935.05
sys14448	NATIONAL AVE	2	CL	236	AT DEAD END	\$55	\$12,957.96
sys7194	GLEASON CIR	2	CL	236	S TO GLEASON CIR	\$55	\$12,981.20
sys10510	COLONIAL DR	2	CL	237	FROM PARKDALE AVE TO PARKVIEW DR	\$55	\$13,021.67
sys9755	THORNTON AVE	2	CL	237	FROM AUSTIN ST S TO HYDE ST	\$55	\$13,028.79
SSYS3528	E CREST RD	2	CL	238	AT DEAD END	\$55	\$13,107.40
sys16855	EVERGREEN CRT	2	CL	238	TO DEAD END	\$55	\$13,127.46
sys30613	TENNESSEE AVE	2	CL	239	AT ST ELMO AVE	\$55	\$13,149.65
sys9372	SWEET ST	2	CL	240	W/O SWEET BRIAR AVE	\$55	\$13,222.56
sys28594	CHESTNUT ST	2	CL	241	S/O N ELMWOOD ST	\$55	\$13,258.62
sys6778	WEST TERR	2	CL	241	N/O 31ST ST	\$55	\$13,274.11
sys31081	HAGER ST	2	CL	242	FROM CAIN AVE W TO A POINT	\$55	\$13,317.49
sys31231	41ST ST	2	CL	243	FROM CAIN AVE W TO A POINT	\$55	\$13,349.68
sys20663	TREMONT ST	2	CL	243	FROM HIXSON PIKE NW TO A POINT	\$55	\$13,363.43
sys16048	LEDFORD ST	2	CL	244	FROM SHALLOWFORD RD N TO EXIST 2"	\$55	\$13,394.04
SSYS2894	DODDS AVE	2	CL	245	S OF E 39TH ST	\$55	\$13,487.91
sys16864	ANGES AVE	2	CL	246	FROM PARKWAY DR EAST TO A POINT	\$55	\$13,510.98
sys15316	CAMDEN ST	2	CL	246	FROM DODSON AVE E TO A POINT	\$55	\$13,532.82
sys9733	WADE DR	2	CL	246	FROM BROOKFIELD AVE E TO MELVILLE AVE	\$55	\$13,534.75
sys31080	W 43RD ST	2	CL	246	FROM CAIN AVE WEST TO A POINT	\$55	\$13,544.94
sys5137	GARNER ST	2	CL	246	NORTH OF HEATHER ST	\$55	\$13,547.89
sys10660	PAWNEE TR	2	CL	247	FROM WOODVALE AVE E TO A POINT	\$55	\$13,590.08
sys31230	41ST ST	2	CL	248	FROM CAIN AVE W TO A POINT	\$55	\$13,617.59
sys30431	COWART ST	2	CL	248	AT I-24	\$55	\$13,620.40
sys9032	CRESCENT CIR	2	CL	248	N/O E 31ST ST	\$55	\$13,638.52
sys24091	BAXTER ST	2	CL	248	W OF EASTON AVE	\$55	\$13,663.43
sys8521	DONALDSON RD	2	CL	249	FROM MAPLE CREEK LN N TO A POINT	\$55	\$13,696.35
sys4970	HIBBLER CIR	2	CL	250	FROM WOODMONT DR	\$55	\$13,750.92
sys22618	ANDREWS ST	2	CL	251	FROM FROST ST W TO A POINT	\$55	\$13,777.76
sys8477	KIRBY AVE	2	CL	251	EAST OF DODDS AVE	\$55	\$13,781.74
sys15610	MISSION AVE	2	CL	251	AT DEAD END	\$55	\$13,799.04
sys24055	CALIFORNIA AVE	2	CL	251	N OF PEACE ST	\$55	\$13,830.17
sys22372	LOFTIS ST	2	CL	252	N OF ADDISON RD	\$55	\$13,859.88

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sys30181	W BROW BLVD	2	CL	252	N OF LYERLY ST	\$55	\$13,872.30
SSYS27779	18TH AVE	2	CL	253	E OF 44TH ST	\$55	\$13,890.04
sys32760	MABLE ST	2	CL	253	AT E 1ST ST	\$55	\$13,929.69
sys16797	CREEKVIEW LN	2	CL	254	FROM CAINE LN TO DEAD END	\$55	\$13,955.32
sys16263	TERRELL ST	2	CL	254	FROM GERMANTOWN RD E TO A POINT	\$55	\$13,980.27
SSYS33504	16TH AVE	2	CL	255	FROM E 39TH ST S TO A POINT	\$55	\$14,002.18
sys22511	GREEN FOREST DR	2	CL	255	AT DEAD END	\$55	\$14,036.52
sys32242	PRIVATE EASEMENT	2	CL	256	W OF CHESTNUT ST	\$55	\$14,080.48
sys3218	KINGWOOD CIR	2	CL	257	AT KINGWOOD DR	\$55	\$14,109.51
sys24706	TANGLEWOOD RD	2	CL	258	W OF FOLTS DR	\$55	\$14,182.28
sys30936	W 28TH ST	2	CL	258	N OF HOME DR	\$55	\$14,186.62
sys5367	LENORE ST	2	CL	258	AT I-24	\$55	\$14,214.23
sys6666	WILLS ST	2	CL	259	N/O HOYT ST	\$55	\$14,266.97
sys4921	SWEETBRIER AVE	2	CL	260	FROM BELVOIR DR N TO A POINT	\$55	\$14,301.56
sys16549	BONNIEWAY DR	2	CL	260	IN CURVE	\$55	\$14,324.57
sys30259	W 40TH ST	2	CL	261	BETWEEN OLD MTN RD AND ORION DR	\$55	\$14,371.39
sys9400	ASTOR LN	2	CL	261	DELAWARE DR S TO 2" MAIN	\$55	\$14,377.42
sys16727	WOODBROOK DR	2	CL	262	FROM WOODBROOK DR N TO ROLLINGWOOD DR	\$55	\$14,396.88
sys8457	LYERLY ST	2	CL	262	FROM FAIRFIELD AVE S TO A POINT	\$55	\$14,411.55
sys4324	GARNER CIR	2	CL	262	N/O GARNER ST	\$55	\$14,430.95
sys28587	MAGNOLIA ST	2	CL	262	N/O ROSA ST	\$55	\$14,431.91
sys30252	LONGVIEW ST	2	CL	262	BETWEEN SCHOOL ST AND W 39TH ST	\$55	\$14,434.10
SSYS29009	SHORT ST	2	CL	263	FROM STATE LINE RD S TO DEAD END	\$55	\$14,445.30
sys1564	IRVING PL	2	CL	264	AT DEAD END	\$55	\$14,527.11
sys26042	ROSALIND LN	2	CL	265	AT DEAD END	\$55	\$14,566.80
sys9592	EASTVIEW AVE	2	CL	265	S/O MISSION VIEW	\$55	\$14,568.07
sys4177	MISSION OAKS DR	2	CL	265	W/O LAURELWOOD DR	\$55	\$14,584.45
sys13053	FLYNN ST	2	CL	266	W/O MAGNOLIA ST	\$55	\$14,626.23
sys5162	MARIETTA ST	2	CL	266	BETWEEN S SMITH ST AND ADAIR AVE	\$55	\$14,641.75
sys25056	MELINDA DR	2	CL	267	E/O LOCKSLEY LN	\$55	\$14,660.60
sys15930	HIGHLAND AVE	2	CL	267	S/O THROUGH ST	\$55	\$14,674.50
sys10508	COLONIAL DR	2	CL	267	W/O WOOD AVE	\$55	\$14,680.00
sys9317	KEMP CIR	2	CL	268	TO DEAD END	\$55	\$14,728.24
sys28262	VILLAGE DR	2	CL	268	TO DEAD END	\$55	\$14,765.21
SSYS3620	DODDS AVE	2	CL	269	AT ROSSVILLE BLVD	\$55	\$14,768.48
sys6824	ARDIAN TR	2	CL	269	FROM TAMARACK TR TO HILLSBORO DR	\$55	\$14,785.18
sys30368	W 42ND ST	2	CL	269	BETWEEN CAIN AVE AND GRAND AVE	\$55	\$14,800.61
sys10195	SHAWNEE CIR	2	CL	269	IN CIRCLE	\$55	\$14,810.90
sys27451	TRENTON ST	2	CL	269	FROM OAKLAND TERR TO NORWOOD AVE	\$55	\$14,812.37
sys9162	GLENDON DR	2	CL	270	AT PARKWAY CIR	\$55	\$14,841.90
sys10893	VISTA DR	2	CL	270	FROM GLENDON DR S TO DELL TERR	\$55	\$14,853.25
sys28591	ELMWOOD ST	2	CL	270	W/O N ELMWOOD ST	\$55	\$14,863.43
sys1892	HOOKER RD	2	CL	271	E/O WILSON RD	\$55	\$14,878.27
sys19244	COLVILLE ST	2	CL	271	FOREST AVE	\$55	\$14,888.60
sys10672	PAWNEE TR	2	CL	272	E/O PARKDALE AVE	\$55	\$14,977.85
sys10673	DELL TERR	2	CL	273	FROM VISTA DR WEST TO EXISTING 2 MAIN	\$55	\$15,033.78
sys3838	CHIPPEWAH DR	2	CL	274	E/O TAMARACK TR	\$55	\$15,042.98

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sys30352	SLAYTON AVE	2	CL	274	S/O W 41ST ST	\$55	\$15,056.28
sys27206	CLINE ST	2	CL	275	FROM CLINE CT EAST TO A POINT	\$55	\$15,129.96
sys7936	AUDUBON DR	2	CL	276	FROM DAUPHIN WAY W TO 6" MAIN	\$55	\$15,168.78
sys30248	W 39TH ST	2	CL	278	FROM OLD MTN RD W TO A POINT	\$55	\$15,262.60
sys10812	KENWOOD CIR	2	CL	278	N/O KENWOOD ST	\$55	\$15,266.57
sys21052	N NATCHEZ RD	2	CL	278	TO DEAD END	\$55	\$15,271.98
sys30538	JOHNSON PK	2	CL	278	E/O EVERETT ST	\$55	\$15,284.37
sys18896	HEALING BLUFF RD	2	CL	279	AT DEAD END	\$55	\$15,358.37
sys28675	PINE ST	2	CL	279	N/O SCHOOL ST	\$55	\$15,360.19
sys23339	FLORA CIR	2	CL	279	FROM SIMPSON AVE E TO A POINT	\$55	\$15,360.88
sys13208	WHEELER AVE	2	CL	280	FROM GILBERT ST N TO A POINT	\$55	\$15,378.86
SSYS2836	COVINGTON ST	2	CL	280	S/O E 50TH ST	\$55	\$15,379.17
sys3272	DANIEL DR	2	CL	280	FROM CONNELLY LN EAST TO KINGWOOD DR	\$55	\$15,396.39
sys9924	LOUISE AVE	2	CL	280	FROM LANOIR ST	\$55	\$15,399.41
sys1856	CAN AVE	2	CL	280	FROM W 46TH ST N TO A POINT	\$55	\$15,400.09
sys28685	TINKER BELL LN	2	CL	281	S FROM GNOME RD	\$55	\$15,436.30
sys27929	CLINE CT	2	CL	281	WEST OF CLINE ST	\$55	\$15,457.10
sys15721	WOODMORE CIR	2	CL	283	AT WOODMORE LN	\$55	\$15,556.77
sys28186	DOGWOOD LN	2	CL	285	W/O SCENIC HWY	\$55	\$15,676.52
sys6779	14TH AVE	2	CL	285	AT 15TH AVE	\$55	\$15,692.99
sys4820	SWOPE RD	2	CL	286	AT WOODARD CIR	\$55	\$15,739.81
sys15979	DALECREST CRT	2	CL	286	TO DEAD END	\$55	\$15,749.82
sys4635	DUVAL ST	2	CL	287	TO DEAD END	\$55	\$15,763.27
sys3767	TAMARACK CIR	2	CL	287	TO DEAD END	\$55	\$15,803.81
sys10811	PARKDALE AVE	2	CL	288	N OF PARKDALE AVE	\$55	\$15,830.68
sys7315	ALICE DR	2	CL	290	N/O FRAWLEY RD	\$55	\$15,934.26
sys7383	RINGGOLD RD	2	CL	290	AT OLD RINGGOLD RD	\$55	\$15,958.99
sys1527	CRANDALL AVE	2	CL	290	S/O SCENIC HWY	\$55	\$15,964.39
SSYS3709	13TH AVE	2	CL	290	N/O E 36TH ST	\$55	\$15,975.65
sys10318	OLD MISSION RD	2	CL	291	FROM WOODVALE AVE W TO A POINT	\$55	\$15,999.99
sys4395	OAKDALE AVE	2	CL	291	BETWEEN ARMOUR ST AND S MOORE RD	\$55	\$16,012.36
sys15974	LARRY DR	2	CL	291	BETWEEN AKINS ST AND PINOAK	\$55	\$16,026.66
sys16935	RICHARD AVE	2	CL	292	BETWEEN HOYT ST AND POPE ST	\$55	\$16,056.36
sys15982	DALEWOOD TERR	2	CL	292	TO DEAD END	\$55	\$16,075.05
sys2326	ASCENSION ST	2	CL	293	FROM SLAYTON AVE W TO A POINT	\$55	\$16,092.15
sys21704	HAWTHORNE ST	2	CL	293	S/O WISDOM ST	\$55	\$16,107.95
sys19650	NOLL ST	2	CL	293	FROM FRANKLIN ST W TO A POINT	\$55	\$16,109.31
sys8494	KYLE ST	2	CL	294	FROM BENNETT AVE S TO E 12TH ST	\$55	\$16,153.86
sys15951	WOODMORE TERR	2	CL	296	E/O TALLEY RD	\$55	\$16,264.33
sys28566	TERRACE ST	2	CL	296	TO CROWN ST	\$55	\$16,270.35
sys23230	PIPPIN ST	2	CL	296	FROM KINGSTON ST S TO A POINT	\$55	\$16,279.56
sys9672	COLONIAL DR	2	CL	297	BETWEEN N MOORE RD AND N LOVELL AVE	\$55	\$16,321.92
sys16553	COLLINS CIR	2	CL	298	IN CIRCLE	\$55	\$16,378.74
sys5187	SWOPE RD	2	CL	298	N/O CLEMONS RD	\$55	\$16,384.60
sys4411	LUNDY LN	2	CL	300	TO DEAD END	\$55	\$16,509.10
sys10664	PARKDALE AVE	2	CL	300	FROM TOMAHAWK TR S TO ARROWHEAD RD	\$55	\$16,518.93
sys17028	EASTWOOD AVE	2	CL	301	FROM HILLWOOD DR TO DEAD END	\$55	\$16,576.93

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys9222	SUNBEAM AVE	2	CL	302	FROM THORTON AVE EAST TO BROOKFIELD AVE	\$55	\$16,622.34
sys28650	PINE HILL RD	2	CL	302	FROM FRENCH ST S TO A 6" MAIN	\$55	\$16,629.22
SSYS28793	CHERRY ST	2	CL	303	FROM INDIAN AVE E TO HENDERSON AVE	\$55	\$16,690.85
sys15616	WHEELER AVE	2	CL	305	FROM MONROE ST N TO CAMDEN ST	\$55	\$16,766.58
SSYS2774	18TH AVE	2	CL	306	FROM 44TH ST TO DEAD END	\$55	\$16,817.82
sys9006	CLIFTON TERR	2	CL	306	AT CIRCLE IN DEAD END	\$55	\$16,842.98
sys24273	VAN WINKLE CIR	2	CL	307	FROM SLEEPY HOLLOW RD E TO A POINT	\$55	\$16,859.44
sys22282	WHEELER AVE	2	CL	307	FROM CUSHMAN ST N TO A POINT	\$55	\$16,872.30
sys4923	BROCKFIELD AVE	2	CL	307	FROM BELVOIR DR N TO A POINT	\$55	\$16,892.47
sys4260	DELAWARE DR	2	CL	307	E/O S LOVELL AVE	\$55	\$16,904.88
sys10107	CLUB DR	2	CL	308	FROM W MISSION BLVD N TO A POINT	\$55	\$16,912.83
sys2607	W 51ST ST	2	CL	308	W/O ST ELMO AVE	\$55	\$16,950.66
sys32001	E 5TH ST	2	CL	308	LOOKOUT ST TO HIGH ST	\$55	\$16,959.73
sys16673	CONAHANEY TR	2	CL	309	GANASITA TR	\$55	\$16,972.78
sys31555	FOSTER ST	2	CL	309	BETWEEN ML KING AND E 10TH ST	\$55	\$16,996.11
sys9593	EASTVIEW AVE	2	CL	309	DEAD END AT I-24	\$55	\$17,019.63
sys17020	KENDALE DR	2	CL	310	BETWEEN ELLYN LN AND CAMBRIDGE DR	\$55	\$17,029.14
sys5068	MCCALL RD	2	CL	310	BETWEEN LANSDELL RD AND N SMITH RD	\$55	\$17,048.32
sys16724	JUANDALE DR	2	CL	311	FROM EXISTING 2 N TO WOODBROOK DR	\$55	\$17,093.95
sys10059	NORTHVIEW AVE	2	CL	311	FROM WILEY AVE NORTH TO EXIST. 2"	\$55	\$17,102.34
sys21106	CLARENDON ST	2	CL	311	EAST OF MT VERNON AVE	\$55	\$17,114.47
sys27764	VALLEY VIEW DR	2	CL	311	E/O DAYTON BLVD	\$55	\$17,130.01
sys14200	KELLY ST	2	CL	311	BET BAILEY AVE AND CHAMBERLAIN AVE	\$55	\$17,130.67
sys12985	NATIONAL AVE	2	CL	311	FROM MCCALLIE AVE S TO DUNCAN AVE	\$55	\$17,201.67
sys9768	MARLBORO AVE	2	CL	313	AT I-24	\$55	\$17,225.18
sys15822	VICTORY CIR	2	CL	313	HEMPHILL CIR	\$55	\$17,234.69
sys19645	THOMPSON ST	2	CL	313	NORTH TO A POINT	\$55	\$17,278.38
sys23212	POOLE AVE	2	CL	314	N/O DAYTON BLVD	\$55	\$17,281.55
sys7144	BRAINERD RD	2	CL	314	W/O WOODLAWN CIR	\$55	\$17,305.86
SSYS3634	E 46TH ST	2	CL	315	FROM WALTHALL ST E TO EXISTING 6"	\$55	\$17,332.99
sys22244	ANDREWS ST	2	CL	316	W/O AWTREY ST	\$55	\$17,361.97
sys5138	GARNER ST	2	CL	316	E/O MACK SMITH RD	\$55	\$17,400.37
sys6872	MOSELEY CIR	2	CL	316	W/O S SEMINOLE DR	\$55	\$17,402.52
sys7350	DUNLAP AVE	2	CL	316	W/O LYERLY ST	\$55	\$17,419.93
sys8455	E 18TH ST	2	CL	317	E/O HOWELL AVE	\$55	\$17,450.07
sys9652	GOLFVIEW DR	2	CL	317	S/O PROVENCE ST	\$55	\$17,452.46
SSYS3038	ELMWOOD ST	2	CL	317	FROM ROSSVILLE BLVD WEST TO CLIO	\$55	\$17,460.96
sys3304	E 39TH ST	2	CL	318	WEST OF EDWIN LN	\$55	\$17,476.21
sys4490	CONNELLY LN	2	CL	318	BETWEEN SWANEE DR AND SANHSI DR	\$55	\$17,491.36
sys15224	RUBIO ST	2	CL	319	FROM SHOLAR AVE E TO A POINT	\$55	\$17,554.02
sys15272	OCOEE ST	2	CL	320	FROM BRADT ST EAST TO STANFIELD	\$55	\$17,589.48
sys16871	JEANAGA TR	2	CL	321	FROM DOGWOOD DR E TO LA HUGH DR	\$55	\$17,627.97
sys9475	S ST MARKS AVE	2	CL	321	FROM ANDERSON AVE TO 1-24	\$55	\$17,657.51
sys4491	SANHSI DR	2	CL	321	S/O GIBSON ST	\$55	\$17,680.11
sys20457	WOOD AVE	2	CL	322	BETWEEN FAIRLEIGH ST TO APPLING ST	\$55	\$17,685.24
sys28681	PIED PIPER TR	2	CL	322	FROM LULA LAKE EAST TO A POINT	\$55	\$17,719.58

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys9574	HILL TOP ST	2	CL	322	FROM MISSION VIEW AVE N TO DEAD END	\$55	\$17,722.53
sys22004	BOYCE ST	2	CL	323	FROM MEADOW LN E TO 6" MAIN	\$55	\$17,759.77
sys21583	OLIVE ST	2	CL	323	BETWEEN SHOLAR AVE AND HICKORY ST	\$55	\$17,789.88
sys10194	KEMP RD	2	CL	324	FROM HARGRAVES AVE TO SHAWNEE TR	\$55	\$17,842.84
sys3783	16TH AVE	2	CL	325	S/O 32ND ST	\$55	\$17,855.05
sys30314	W 40TH ST	2	CL	325	EAST AND WEST OF CHANDLER AVE	\$55	\$17,855.68
sys1382	MAPLE AVE	2	CL	326	E/O LAUREL LN	\$55	\$17,912.93
sys10979	HOWELL AVE	2	CL	326	S/O MAYFAIR AVE	\$55	\$17,937.62
sys17017	ELLYN LN	2	CL	327	FROM CAROUSEL RD TO SIENER LN	\$55	\$17,964.39
sys31400	E 18TH ST	2	CL	327	BETWEEN WILLIAMS ST AND LONG ST	\$55	\$17,976.68
sys4447	CONNELL ST	2	CL	328	E/O ALTAMAHA ST	\$55	\$18,046.56
sys4876	W 52RD ST	2	CL	328	FROM WEST END AVE W TO A POINT	\$55	\$18,048.02
sys2548	DORIS AVE	2	CL	328	E/O BEULAH AVE	\$55	\$18,063.00
sys16544	DODSON AVE	2	CL	329	E/O OMALEE DR	\$55	\$18,072.55
sys22748	WOOLFORD ST	2	CL	329	AT HOWARD ST	\$55	\$18,079.04
sys28513	MAIDEN DR	2	CL	329	E/O NASON ST TO A POINT	\$55	\$18,081.37
sys3115	WEST TERR	2	CL	329	W/O FREDERICK DR	\$55	\$18,083.05
sys8686	RIDGE AVE	2	CL	329	AT DEAD END	\$55	\$18,114.54
sys4643	HOWARD AVE	2	CL	329	BETWEEN DUPONT ST AND EALY RD	\$55	\$18,114.85
sys10736	I-24	2	CL	330	FROM HEMHILL AVE E TO EXISTING 6"	\$55	\$18,135.94
sys7476	WAHEELA AVE	2	CL	330	AT RIDGE	\$55	\$18,137.29
sys3806	BENNETT RD	2	CL	333	NORTH TO A POINT	\$55	\$18,141.87
sys3114	MAIDEN DR	2	CL	334	E/O FREDRICK DR	\$55	\$18,300.92
sys16667	LA HUGH DR	2	CL	334	E/O FREDRICK DR	\$55	\$18,352.27
sys9775	PARKSDALE AVE	2	CL	334	EAST FROM JEANAGA TR TO DEAD END	\$55	\$18,376.72
sys21032	FERNWAY CIR	2	CL	336	FROM AMHURST AVE S TO A POINT	\$55	\$18,382.23
sys9756	MAYFAIR AVE	2	CL	336	FROM FERNWAY RD	\$55	\$18,473.68
sys3856	COLEMAN CIR	2	CL	336	FROM BROOKFIELD AVE WEST TO EXISTING 2	\$55	\$18,479.14
sys1948	W 56TH ST	2	CL	336	NORTH OF LAREDO AVE	\$55	\$18,487.75
sys12997	DUNCAN ST	2	CL	337	BETWEEN ALABAMA AVE AND ST ELMO AVE	\$55	\$18,492.86
sys15271	OCOE ST	2	CL	337	BETWEEN NATIONAL AVE AND SPRUCE ST	\$55	\$18,509.31
sys4906	MARYLAND CIR	2	CL	337	BETWEEN STANFIEL ST AND DODSON AVE	\$55	\$18,518.08
sys24297	EASTON AVE	2	CL	338	NORTH OF MARYLAND DR	\$55	\$18,520.65
sys16346	LARKIN AVE	2	CL	339	NORTH OF NEWBERRY ST	\$55	\$18,584.27
sys11023	BELVOIR HILLS CIR	2	CL	339	N/O BELLE VISTA AVE	\$55	\$18,636.12
sys17021	KENDALE DR	2	CL	339	S/O INDIAN TRAIL	\$55	\$18,639.99
sys6808	ARDIAN TR	2	CL	339	BETWEEN MONTEREY ST AND ELLYN LN	\$55	\$18,643.90
sys3853	PHELPS ST	2	CL	339	BETWEEN WYNNWOOD DR AND TAMARACK TR	\$55	\$18,653.32
SSYS2850	43RD ST	2	CL	340	N/O FREDRICK ST	\$55	\$18,655.33
sys4547	BRACK ST	2	CL	340	W/O 6TH AVE	\$55	\$18,677.71
sys14447	CHAMBERLAIN AVE	2	CL	341	BETWEEN S SMITH ST AND MACK SMITH RD	\$55	\$18,680.33
sys28494	GREENFIELD DR	2	CL	341	NATIONAL AVE TO DEAD END	\$55	\$18,733.06
sys11027	BELVOIR HILLS CIR	2	CL	341	W/O HILLSBORO RD	\$55	\$18,768.13
sys21922	LATTA ST	2	CL	341	N/O INDIAN TR	\$55	\$18,771.67
sys9958	PARKDALE AVE	2	CL	343	CHERRY ST TO CHAMBERLAIN AVE	\$55	\$18,778.02
sys3655	32ND ST	2	CL	343	AT KENWOOD CIR	\$55	\$18,840.21
					FROM RAVINE ST TO 16TH AVE	\$55	\$18,872.08

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sys30418	W 26TH ST	2	CL	344	FROM COWART ST TO WILLIAMS ST	\$55	\$18,915.11
sys10661	WOODVALE ST	2	CL	344	FROM TOMAHAWK TR S TO ARROWHEAD RD	\$55	\$18,927.97
sys15769	RICHARD AVE	2	CL	344	TO DEAD END	\$55	\$18,947.47
sys22599	CAMPBELL ST	2	CL	345	S/O GLASS ST	\$55	\$18,949.74
sys11028	HARDIN DR	2	CL	345	N/O SWEETBRIER CIR	\$55	\$18,951.49
sys11215	LINER LN	2	CL	345	S/O NELSON RD TO DEAD END	\$55	\$18,957.31
sys7610	WATKINS ST	2	CL	345	FROM E 12TH ST TO E 13TH ST	\$55	\$18,989.60
sys5119	GARNER ST	2	CL	345	BETWEEN HEATHER AND McDONALD ST	\$55	\$19,002.49
sys32312	JOHNSON ST	2	CL	346	N/O MAIN ST	\$55	\$19,023.06
sys16932	GREENWOOD RD	2	CL	346	N/O THROUGH ST	\$55	\$19,037.71
sys8456	LYERLY ST	2	CL	347	FROM E 18TH AND FAIRFIELD AVE	\$55	\$19,065.44
sys15223	RUBIO ST	2	CL	347	FROM SHEIDAN AVE W TO EXISTING 2"	\$55	\$19,087.79
sys24722	RIVER HILLS DR W	2	CL	347	TO DEAD END	\$55	\$19,093.90
sys15973	AKINS	2	CL	347	N/O LARRY DR	\$55	\$19,093.91
sys3160	CRAIG RD	2	CL	348	FROM MELODY LN E TO A POINT	\$55	\$19,116.61
sys6624	LYERLY ST	2	CL	348	S/O E 19TH ST	\$55	\$19,157.40
sys9470	LOVELL AVE	2	CL	349	AT 1-24	\$55	\$19,175.33
sys13459	FAIRVIEW AVE	2	CL	349	BETWEEN M L KING AND FLYNN ST	\$55	\$19,178.86
sys27475	LEAWOOD AVE	2	CL	350	W/O SLIGER CIR	\$55	\$19,237.19
sys17003	BREIT ST	2	CL	350	W/O TUNNEL BLVD	\$55	\$19,252.10
sys16737	BRIARCLIFF WAY	2	CL	350	W/O MCCOOL DR	\$55	\$19,253.77
sys23828	BRIGGS AVE	2	CL	350	S/O SIGNAL VIEW ST	\$55	\$19,264.26
sys9028	E 32ND ST	2	CL	350	BETWEEN BRANNON ST TO CRECENT CIR	\$55	\$19,265.01
sys28211	BARKER ST	2	CL	351	BETWEEN CENTER ST AND CASTLEBERRY AVE	\$55	\$19,315.45
sys3171	CLOSE RD	2	CL	351	BETWEEN CLINE RD AND KOONS RD	\$55	\$19,322.42
sys3848	HELEN LN	2	CL	353	AT DEAD END	\$55	\$19,395.67
sys4634	ROSEBUD DR	2	CL	353	S/O LUNDY LN	\$55	\$19,413.55
sys16182	RIDGESIDE RD	2	CL	353	AT BROOKWOOD DR	\$55	\$19,419.85
sys6758	12TH AVE	2	CL	353	N/O E 32ND ST	\$55	\$19,421.16
sys9031	CRESENT CIR	2	CL	353	N/O E 32ND ST	\$55	\$19,436.58
RH01062679516	MAPLE LN	2	CL	353	TO STIMPSON DR	\$55	\$19,440.76
sys30168	W 27TH ST	2	CL	354	E/O LONG ST	\$55	\$19,448.94
sys7323	MAPLE CREEK LN	2	CL	354	FROM STIMPSON DR TO BONNIE LASSIE AVE	\$55	\$19,484.36
sys4756	SCHMIDT RD	2	CL	355	LAZARD ST TO GREENBRIAR RD	\$55	\$19,513.56
sys4565	HEATHER ST	2	CL	355	GARNER ST TO BURR ST	\$55	\$19,515.24
RH01021478731	ELMWOOD DR	2	CL	356	AT DEAD END	\$55	\$19,583.51
sys8440	WILLOW ST	2	CL	358	E 19TH ST TO E 20TH ST	\$55	\$19,675.60
sys28376	HEGGIE RD	2	CL	358	AT CHAMBERS ST	\$55	\$19,679.50
sys7317	BOUGHTON ST	2	CL	358	AT FRAWLEY ST	\$55	\$19,684.91
sys28673	MAGNOLIA ST	2	CL	360	S/O ALABAMA AVE	\$55	\$19,787.38
sys4922	BELVOIR DR	2	CL	360	BROCKFIELD AVE TO SWEETBRIER AVE	\$55	\$19,822.94
sys16049	LEDFORD ST	2	CL	362	N/O SHALLOWFORD RD	\$55	\$19,924.31
sys10515	N CHOCKTAW RD	2	CL	362	S/O SEQUOIR DR	\$55	\$19,935.87
sys13778	PARKWOOD DR	2	CL	363	NORTH OF KILMER ST	\$55	\$19,948.08
sys16047	HAYMORE AVE	2	CL	363	EAST IF ROCKWAY AVE	\$55	\$19,948.63
sys28381	BEVERLY DR	2	CL	363	FROM ALPINE DR TO BENTLY DR	\$55	\$19,979.49
sys17016	SIENER LN	2	CL	364	E/O MONTEREY ST	\$55	\$20,005.91

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sys9332	ALLEY WAY	2	CL	364	FROM WOODLAWN DR TO ROSEMONT DR	\$55	\$20,024.61
sys28955	JOAN LN	2	CL	365	WEST FROM KILGORE DR	\$55	\$20,065.99
sys4823	SWOPE RD	2	CL	365	RINGGOLD RD S TO A POINT	\$55	\$20,089.82
sys30508	W RIDGE RD	2	CL	366	AT SENECA AVE	\$55	\$20,119.65
sys28397	LONGVIEW DR	2	CL	366	EAST OF TOMHAWK TR	\$55	\$20,138.92
sys15858	PRIVATE EASEMENT	2	CL	367	PERRY RD TO RODGERS RD	\$55	\$20,188.71
sys23221	LINK RD	2	CL	367	AT SIGNAL MOUNTAIN RD	\$55	\$20,210.26
sys1887	ALLEY WAY	2	CL	367	AT HAMILL RD TO DEAD END	\$55	\$20,212.46
sys8256	S MISSION RIDGE OVAL	2	CL	368	AT MISSION RIDGE	\$55	\$20,260.50
sys15893	WILSONIA AVE	2	CL	369	W/O WOODMORE LN	\$55	\$20,269.93
sys18897	HEALING BLUFF RD	2	CL	369	AT DEAD END	\$55	\$20,276.15
sys1889	FAGAN ST	2	CL	369	N/O HOOKER ST	\$55	\$20,286.00
SSYS2849	43RD ST	2	CL	369	6TH AVE TO R/R	\$55	\$20,312.18
sys23798	MERRIMAN ST	2	CL	370	DAYTON BLV TO A POINT	\$55	\$20,362.31
sys7932	DELL TERR	2	CL	370	S/O AUDUBON DR	\$55	\$20,372.43
sys7197	JOHN SIMS RD	2	CL	371	GERMANTOWN RD EAST	\$55	\$20,381.08
sys8436	E 19TH ST	2	CL	372	BEECH ST TO MULBERRY ST	\$55	\$20,455.79
sys24639	RIVER HILLS DR S	2	CL	372	AT DEAD END	\$55	\$20,465.58
sys5366	WRIGHT ST	2	CL	373	I-75	\$55	\$20,503.82
sys6757	E 32ND ST	2	CL	374	DODDS AVE TO 12TH AVE	\$55	\$20,544.21
sys29107	GLOWMONT DR	2	CL	375	TO DEAD END	\$55	\$20,638.79
sys16936	POPE ST	2	CL	376	RICHARD AVE TO NELLIE ST	\$55	\$20,662.43
sys11707	PHYLLIS LN	2	CL	376	I-75	\$55	\$20,665.34
sys4967	HARDIN DR	2	CL	376	TO DEAD END	\$55	\$20,666.16
RH99011976019	BACHMAN ST	2	CL	376	AT BELLE ARBOR AVE	\$55	\$20,672.47
sys28399	MISSING LINK TR	2	CL	376	ALPINE DR TO LONGVIEW DR	\$55	\$20,673.84
sys1725	FLEETWOOD DR	2	CL	376	FAIRY TR	\$55	\$20,675.38
sys13373	LAURA ST	2	CL	376	GLENWOOD DR W TO A POINT	\$55	\$20,684.90
sys9328	ALLEY WAY	2	CL	377	ROSEMONT DR TO HONEYSUCKLE DR	\$55	\$20,707.65
sys14870	PIERCE AVE	2	CL	379	O'NEAL ST TO SCRUGGS ST	\$55	\$20,849.02
sys9256	TALLEY RD	2	CL	380	CIRCLE TO TALLEY RD	\$55	\$20,887.46
sys3778	TAMARACK CIR	2	CL	380	AT TAMARACK TR	\$55	\$20,890.21
sys23912	GLENHILL DR	2	CL	380	AT LULLWATER RD AND SIMS DR	\$55	\$20,892.42
sys3280	HELEN LN	2	CL	381	FREDRICK DR E TO 6" MAIN	\$55	\$20,934.50
sys10503	PARKDALE AVE	2	CL	382	AT ELLIS AVE	\$55	\$21,026.47
sys2362	DORSEY ST	2	CL	385	N/O HALSEY ST	\$55	\$21,155.66
SSYS28877	ALGOOD ST	2	CL	385	MCFARLAND AVE TO ELM ST	\$55	\$21,195.30
sys21459	SHERMAN ST	2	CL	385	W/O CURTIS ST	\$55	\$21,196.40
sys15620	WHEELER AVE	2	CL	386	S/O OCOEE ST	\$55	\$21,203.45
sys24720	RIVER HILLS DR E	2	CL	386	AT DEAD END	\$55	\$21,237.76
sys27752	WOODROW AVE	2	CL	388	DAYTON BLVD TACOMA ST	\$55	\$21,339.54
sys4397	ARMOUR ST	2	CL	388	OAKDALE AVE TO DEAD END	\$55	\$21,363.19
sys7722	E 17TH ST	2	CL	389	FAGAN ST EAST TO A POINT	\$55	\$21,370.92
sys25795	BADGER LN	2	CL	389	HIGHWAY 58 TO DEAD END	\$55	\$21,375.48
sys10747	N CHICKASAW DR	2	CL	390	S/O RODGERS RD	\$55	\$21,446.56
SSYS3370	DODDS AVE	2	CL	392	E 43RD SOUTH TO A POINT	\$55	\$21,541.19
sys7486	PRIVATE EASEMENT	2	CL	392	BROCKHAVEN RD SOUTH TO MOSELEY CIR	\$55	\$21,561.00

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sys2724	PULASKI ST	2	CL	393	E 55TH ST SOUTH TO LEE AVE	\$55	\$21,612.27
sys24728	RIVERMONT CIR	2	CL	393	AT DEAD END	\$55	\$21,617.24
sys4915	S ST MARKS AVE	2	CL	393	AT DEAD END	\$55	\$21,619.37
sys10069	WILEY AVE	2	CL	394	BACON AVE TO BELVOIR AVE	\$55	\$21,645.55
sys6785	RAVINE ST	2	CL	394	AT 15TH AVE	\$55	\$21,692.02
sys16730	HEMINGWAY DR	2	CL	395	AT DEAD END	\$55	\$21,729.83
sys15896	ROWE RD	2	CL	395	AT DEAD END	\$55	\$21,752.15
sys11017	PYRON LN	2	CL	396	DELAWARE DR S TO 2" MAIN	\$55	\$21,796.34
sys16738	JUANDALE DR	2	CL	397	BRIARCLIFF TO SHAMROCK DR	\$55	\$21,830.72
sys28222	PARK ST	2	CL	397	W/O CROSS ST	\$55	\$21,848.73
sys20617	HANOVER ST	2	CL	398	HIXSON PK TO RIVERVIEW RD	\$55	\$21,866.99
SSYS3703	13TH AVE	2	CL	399	FROM E 34TH ST SOUTH TO E 35TH ST	\$55	\$21,930.65
sys2614	SUNNYSIDE AVE	2	CL	399	E 55TH ST NORTH TO DEAD END	\$55	\$21,932.82
sys16845	BENNINGTON DR	2	CL	399	AT DEAD END	\$55	\$21,943.88
sys13752	CLIO AVE	2	CL	399	GLENWOOD DR TO GLENWOOD CIR	\$55	\$21,954.58
sys8893	12TH AVE	2	CL	399	30TH ST TO 31ST ST	\$55	\$21,957.71
sys16357	HOWELL RD W	2	CL	400	TALLEY RD TO DEAD END	\$55	\$22,001.58
sys9221	SUNBEAM AVE	2	CL	400	BELVOIR AVE TO THORTON AVE	\$55	\$22,024.20
sys4441	CONNELL ST	2	CL	402	ALTAMAHA ST EAST TO A POINT	\$55	\$22,097.11
sys3849	PHELPS ST	2	CL	402	FREDRICK DR TO DEAD END	\$55	\$22,120.27
sys10839	PINELAWN AVE	2	CL	405	AT DEAD END	\$55	\$22,255.66
sys4182	JUSTINE LN	2	CL	406	AT DEAD END	\$55	\$22,334.51
sys7930	DELL TERR	2	CL	406	AT WYGODA CIR	\$55	\$22,335.75
sys23391	ALDEN AVE	2	CL	407	NORTH OF DELRAY AVE	\$55	\$22,393.74
sys23351	SIMPSON AVE	2	CL	407	FLORA CIR TO SIMPSON ST	\$55	\$22,405.20
sys6182	MORRISON ST	2	CL	407	WEST BROW RD TO LEE AVE	\$55	\$22,408.28
sys24822	HARBIN LN	2	CL	407	AT DEAD END	\$55	\$22,409.38
sys10211	HENDERSON DR W	2	CL	408	MIDLAND PK TO CIRCLE	\$55	\$22,450.99
sys19698	VAN DYKE ST	2	CL	408	HOUSER ST TO STRINGER ST	\$55	\$22,459.70
sys16674	CONAHANAY TR	2	CL	410	AT DEAD END	\$55	\$22,533.32
sys15773	DYER ST	2	CL	410	GREENWOOD RD EAST TO A POINT	\$55	\$22,536.80
SSYS3538	E 39TH ST	2	CL	410	WALTHALL AVE W TO A POINT	\$55	\$22,549.80
sys27455	ROBBINS DALE LN	2	CL	410	MORRISON SPRINGS RD TO DEAD END	\$55	\$22,562.85
sys10505	WOODVALE AVE	2	CL	410	OLD MISSION RD TO BILTMORE AVE	\$55	\$22,565.47
sys15898	ROWE RD	2	CL	410	NORTH TO A POINT	\$55	\$22,577.43
sys21041	FERNNWAY RD	2	CL	411	FROM HIXSON PIKE TO FERNWAY CIR	\$55	\$22,580.06
sys10840	CEDARHURST AVE	2	CL	411	SPRING GARDEN LN TO PINELAWN AVE	\$55	\$22,598.20
sys16675	GANASITA TR	2	CL	412	AT CONAHANAY TR	\$55	\$22,639.91
sys7334	ELLIS AVE	2	CL	412	BLOOM RD TO DEAD END	\$55	\$22,655.05
sys10820	N ST MARKS AVE	2	CL	413	S/O SPRING GARDEN LN	\$55	\$22,720.54
sys3840	REEVES AVE	2	CL	414	NORTH OF CRABTREE DR	\$55	\$22,759.83
sys21284	ORTON AVE	2	CL	414	BACHMAN ST TO FAIRLEIGH ST	\$55	\$22,760.22
sys22611	LOCKWOOD AVE	2	CL	414	NOAH ST TO FROST ST	\$55	\$22,763.52
sys7052	FAGAN ST	2	CL	414	NORTH OF ROSSVILLE BLVD	\$55	\$22,783.17
sys2802	WAHEELA AVE	2	CL	414	NORTH OF S CREST RD	\$55	\$22,790.54
sys16719	RAE TR	2	CL	416	MARK TWAIN CIR SOUTH TO A POINT	\$55	\$22,863.35
sys28522	ORCHARD TERR	2	CL	416	AT DEAD END	\$55	\$22,867.63

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
SSYS3185	E 46TH ST	2	CL	416	HWY 27 TO 10TH AVE	\$55	\$22,901.91
sys2822	JOHN ROSS RD	2	CL	417	S CREST RD NORTH TO A POINT	\$55	\$22,910.97
sys20612	WORTHINGTON ST	2	CL	417	OVERMAN ST TO CROZIER AVE	\$55	\$22,923.06
sys8283	E 16TH ST	2	CL	417	DODDS AVE WEST TO A POINT	\$55	\$22,935.52
sys4757	LAZARD ST	2	CL	417	SCHMIDT RD TO DEAD END	\$55	\$22,960.33
sys7357	WELDON DR	2	CL	418	AT DEAD END	\$55	\$23,000.02
SSYS28796	HENDERSON AVE	2	CL	419	SOUTH TO CHERRY ST	\$55	\$23,065.22
sys22283	CUSHMAN ST	2	CL	420	TAYLOR ST TO WHEELER AVE	\$55	\$23,081.13
sys20804	FAIRHILLS DR	2	CL	420	MILDRED RD TO EASEMENT	\$55	\$23,118.58
sys3273	KINGWOOD DR	2	CL	422	DANIEL DR EAST TO APOINT	\$55	\$23,197.34
sys23332	OAKWOOD CIR	2	CL	424	DAYTON BLVD NORTH TO A POINT	\$55	\$23,302.96
sys6774	RAVINE ST	2	CL	424	NORTH OF 32ND ST	\$55	\$23,305.74
sys9674	COLONIAL DR	2	CL	424	WOODVALE AVE TO CASTLE DR	\$55	\$23,307.47
SSYS3539	PRIVATE EASEMENT	2	CL	424	W/O WALTHALL AVE	\$55	\$23,327.45
sys22507	NORTHBRIER LN	2	CL	425	AT DEAD END	\$55	\$23,378.79
sys8988	10TH AVE	2	CL	425	AT I-24	\$55	\$23,382.42
sys16810	LILLIAN LN	2	CL	426	S/O WILCOX BLVD	\$55	\$23,419.19
sys15333	WHEELER AVE	2	CL	426	MILNE ST TO CITICO AVE	\$55	\$23,426.51
sys9238	BROOKFIELD AVE	2	CL	426	CONNER ST NORTH TO A POINT	\$55	\$23,448.47
SSYS28899	FOSTER ST	2	CL	427	ROSS ST TO CATLETT ST	\$55	\$23,481.94
sys2222	FAGAN ST	2	CL	427	GORDAN AVE SOUTH TO A POINT	\$55	\$23,482.88
sys9774	SWEETBRIAR AVE	2	CL	427	PARKSDALE AVE WEST TO A POINT	\$55	\$23,498.12
sys10060	NORTHVIEW AVE	2	CL	428	BACON AVE TO WILEY AVE	\$55	\$23,529.10
sys10313	CHICKASAW DR	2	CL	428	SHAWNEE TR TO SEQUOIA AVE	\$55	\$23,537.07
sys14274	EAST CRT	2	CL	429	N CREST RD TO DEAD END	\$55	\$23,580.71
sys25602	FAIRVIEW LN	2	CL	429	ROCKY RIVER RD TO LAKE HILLS CIR	\$55	\$23,595.72
sys28208	CENTER ST	2	CL	431	BARKER ST SOUTH TO DEAD END	\$55	\$23,696.82
sys28343	JOMAH DR	2	CL	431	FROM HOLLYWOOD AVE EAST TO A POINT	\$55	\$23,716.18
sys27496	OWEDA TERR	2	CL	431	SHUGART ST AND LEAWOOD AVE	\$55	\$23,721.42
RH96100472760	PRIVATE EASEMENT	2	CL	433	EAST OF SHOLAR AVE	\$55	\$23,791.67
sys11024	MT BELVOIR DR	2	CL	433	INDIAN TR TO DEAD END	\$55	\$23,795.75
sys8047	ALLEY WAY	2	CL	433	S SEMINOLE DR WEST TO A POINT	\$55	\$23,798.27
sys10310	SHAWNEE TR	2	CL	434	S CHICKASAW DR TO N CHICKASAW DR	\$55	\$23,859.89
sys31249	CAIN AVE	2	CL	434	SOUTH OF HAGER ST	\$55	\$23,864.47
sys30459	SCENIC HIGHWAY	2	CL	434	NORTH OF SHINGLE RD	\$55	\$23,877.10
sys20484	FERNNWAY RD	2	CL	435	WEST OF HIXSON PK	\$55	\$23,926.17
sys10752	SHAWNEE TR	2	CL	435	KEMP RD TO RODGERS RD	\$55	\$23,926.47
SSYS4144	E 51ST ST	2	CL	436	EAST OF DIVINE AVE	\$55	\$23,955.32
sys23656	MILLER AVE	2	CL	436	FROM HEDGEWOOD DR W TO A POINT	\$55	\$23,980.51
sys5308	RIDGEFIELD CIR	2	CL	436	AT DEAD END	\$55	\$23,983.01
sys4924	BELVOIR DR	2	CL	436	BELVOIR AVE TO BROCKFIELD AVE	\$55	\$23,994.37
sys30834	ROSSVILLE BLVD	2	CL	436	AT I-24	\$55	\$23,994.86
sys10513	PARKDALE AVE	2	CL	437	ELLIS AVE TO ROGERS RD	\$55	\$24,022.98
sys23831	CHARLOTTE CIR	2	CL	439	FROM BRIGGS ST TO DEAD END	\$55	\$24,145.58
sys7940	NYE ST	2	CL	440	NORTH OF NAVAJO DR	\$55	\$24,181.27
sys15821	HEMPHILL CIR	2	CL	440	FROM VICTORY ST TO DEAD END	\$55	\$24,197.99
sys16933	GREENWOOD RD	2	CL	440	SOUTH OF WILCOX BLVD	\$55	\$24,201.05

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sys21243	TAYLOR ST	2	CL	441	BRAGG ST TO DEAD END	\$55	\$24,262.62
sys24305	ALLEY WAY	2	CL	442	LOCKWOOD CIR NORTH TO DEAD END	\$55	\$24,320.29
sys21903	OCOE ST	2	CL	443	HICKORY ST TO HAWTHORNE ST	\$55	\$24,386.41
sys4586	MCBRIEN RD	2	CL	445	RINGGOLD RD TO OAKDALE AVE	\$55	\$24,474.75
sys16181	LYNNCREST DR	2	CL	446	AT DEAD END	\$55	\$24,507.24
sys24928	BAXTER ST	2	CL	446	WEST OF EASTON AVE	\$55	\$24,540.52
sys27489	TRENTON ST	2	CL	447	WEST OF OAKLAND TERR	\$55	\$24,566.99
sys3976	ELEDGE RD	2	CL	447	BENNETT RD TO DEAD END	\$55	\$24,568.67
sys15918	AULT DR	2	CL	447	MERRYDALE DR SOUTH TO DEAD END	\$55	\$24,607.57
sys16551	MICHAEL LN	2	CL	449	TALLEY RD EAST TO A POINT	\$55	\$24,673.29
sys21577	BRAGG ST	2	CL	450	CURTIS ST TO GLASS ST	\$55	\$24,755.91
sys2559	W 50TH ST	2	CL	450	FROM TENNESSEE AVE TO SUNNYSIDE AVE	\$55	\$24,761.54
sys6855	AMBER AVE	2	CL	450	HILLSBORO DR TO DEAD END	\$55	\$24,762.72
sys7902	CLAREMONT CIR	2	CL	450	CLAREMONT AVE TO DEAD END	\$55	\$24,776.56
sys27294	SLIGER CIR	2	CL	451	LEAWOOD AVE NORTH TO DEAD END	\$55	\$24,800.57
sys28396	LONGVIEW DR	2	CL	451	BEVERLY DR TO MISSING LINK TR	\$55	\$24,826.91
sys16541	RICKY DR	2	CL	452	DON-ROB LN TO MIKE-EDD LN	\$55	\$24,864.24
sys7937	AUDUBON DR	2	CL	452	FROM 8" MAIN WEST TO A POINT	\$55	\$24,868.59
sys30437	PRIVATE EASEMENT	2	CL	453	ROSSVILLE BLVD TO TAFT AVE	\$55	\$24,918.62
sys31415	WEST 19TH ST	2	CL	453	MARKET ST TO LONG ST	\$55	\$24,920.27
sys4925	BELVOIR TERR	2	CL	454	TO BELVOIR CIRCLE	\$55	\$24,946.30
sys27450	NORWOOD AVE	2	CL	454	NORTH OF TRENTON ST	\$55	\$24,969.82
sys27490	OAKLAND TERR	2	CL	454	NORTH OF TRENTON ST	\$55	\$24,970.72
sys7202	BONNIE LASSIE AVE	2	CL	454	MAPLE LANE TO STIMPSON DR	\$55	\$24,975.46
sys11019	FOUNTAIN AVE EXT	2	CL	454	MARYLAND CIR TO SHADY CIR	\$55	\$24,981.82
sys10965	BELAIRE DR	2	CL	457	AT DEAD END	\$55	\$25,112.28
sys10533	WOODVALE AVE	2	CL	457	ELLIS AVE TO COLONIAL DR	\$55	\$25,136.50
sys25811	MELINDA DR	2	CL	458	SOUTH OF LOCKSLEY LN	\$55	\$25,178.44
sys4388	BOYD ST	2	CL	459	FROM OAKDALE AVE TO DEAD END	\$55	\$25,246.35
sys24699	AVALON HILL	2	CL	459	TO DEAD END	\$55	\$25,266.15
sys14398	FLYNN ST	2	CL	460	MAGNOLIA ST TO PARK ST	\$55	\$25,324.24
SSYS3603	14TH AVE	2	CL	462	E 46TH ST TO E 48TH ST	\$55	\$25,415.36
sys23618	GOODSON AVE	2	CL	462	AT DEAD END	\$55	\$25,430.60
sys2429	FLORIDA AVE	2	CL	463	W 49TH TO W 50TH ST	\$55	\$25,478.51
sys13486	E 16TH ST	2	CL	463	FAGAN ST TO POLK ST	\$55	\$25,483.57
sys22236	ANDREWS ST	2	CL	464	CHAMBERLAIN AVE EAST TO 2" MAIN	\$55	\$25,508.24
sys17024	TERRY CRT	2	CL	464	AT DEAD END	\$55	\$25,526.01
sys27864	OWEDA TERR	2	CL	464	AT DEAD END	\$55	\$25,544.88
sys9294	DOGWOOD LN	2	CL	465	WEST OF MANOR DR	\$55	\$25,567.73
sys7331	DUNLAP AVE	2	CL	465	CASTLE AVE TO BLOOM RD	\$55	\$25,574.34
sys9589	WESTVIEW AVE	2	CL	466	SOUTH OF NAVAJO DR	\$55	\$25,612.88
sys10762	ROSEVIEW AVE	2	CL	466	AT DEAD END	\$55	\$25,656.13
sys14739	WHEELER AVE	2	CL	467	COOLEY ST TO WINDSOR ST	\$55	\$25,676.05
sys27208	CLINE AVE	2	CL	467	BERKLEY DR TO OAKLAND TERR	\$55	\$25,677.56
sys22063	PARKWAY DR	2	CL	467	FRIGECREST DR SOUTH TO A POINT	\$55	\$25,695.74
SSYS2847	6TH AVE	2	CL	468	HWY 27 TO 43RD ST	\$55	\$25,731.52
sys20490	BOYLSTON ST	2	CL	471	NORTH OF TREMONT ST	\$55	\$25,877.79

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys4908	SHADY DR	2	CL	471	MARYLAND DR TO FOUNTAIN AVE	\$55	\$25,927.57
sys15703	WOODMORE PL	2	CL	472	WOODMORE LANE TO DEAD END	\$55	\$25,933.86
sys9414	PARKDALE AVE	2	CL	472	BRAINERD RD NORTH TO KENWOOD CIR	\$55	\$25,951.64
sys20791	CARROLL LN	2	CL	472	STERLING AVE TO MILDRED RD	\$55	\$25,968.79
sys7938	ALTA VISTA	2	CL	472	NORTH OF DELL TRAIL	\$55	\$25,980.63
sys21073	SHADY CIR	2	CL	473	HIXSON PK TO WOODHILL DR	\$55	\$26,017.48
sys28401	ALPINE DR	2	CL	474	FLEETWOOD DR TO WOODLAND DR	\$55	\$26,065.16
sys1301	PARK RD	2	CL	474	EAST OF LAUREL LN	\$55	\$26,070.97
sys9991	TUXEDO CIR	2	CL	474	IN DEAD END	\$55	\$26,073.61
sys10998	LANIOR CIR	2	CL	475	EAST FROM LANOIR ST	\$55	\$26,107.26
sys24819	S STUART TERR	2	CL	476	AT DEAD END	\$55	\$26,154.58
BH96051099886	PRIVATE EASEMENT	2	CL	476	SOUTH OF WOTRING ST	\$55	\$26,166.13
sys24189	KINGSTON ST	2	CL	476	EAST OF PIPPEN ST	\$55	\$26,194.40
SSYS3543	PRIVATE EASEMENT	2	CL	476	S/O E 39TH ST	\$55	\$26,204.10
RH97040974470	BLACKOAK CIR	2	CL	478	N/O HIXSON PK	\$55	\$26,278.66
sys28514	CALDONIA RD	2	CL	478	N/O LAKEVIEW DR	\$55	\$26,296.01
sys14863	GARFIELD ST	2	CL	478	ONEAL ST TO SCRUGGS ST	\$55	\$26,296.11
sys9686	BELAIRE DR	2	CL	480	ORLIN DR NORTH TO A POINT	\$55	\$26,389.95
sys21701	WOOD AVE	2	CL	480	SOUTH OF WISDOM ST	\$55	\$26,404.38
sys4484	SAN HSI DR	2	CL	481	S/O EASEMENT TO A POINT	\$55	\$26,467.80
SSYS3544	PRIVATE EASEMENT	2	CL	482	S/O E 40TH ST	\$55	\$26,497.48
sys14122	COLYAR DR	2	CL	482	EAST OF N CREST RD	\$55	\$26,537.37
sys22151	NOAH ST	2	CL	483	N/O CAMPBELL ST	\$55	\$26,539.09
sys13551	TAYLOR ST	2	CL	483	OCOE ST TO OLIVE ST	\$55	\$26,549.98
sys30092	PRIVATE EASEMENT	2	CL	483	ST ELMO AVE TO BROAD ST	\$55	\$26,558.70
sys30288	PIROLA ST	2	CL	485	37TH TO 38TH ST	\$55	\$26,667.11
sys15695	AGAWELA DR	2	CL	486	EAST OF GANASITA TR	\$55	\$26,729.59
sys7213	LARRY LN	2	CL	486	EAST OF GERMANTOWN RD	\$55	\$26,739.83
sys13050	FLYNN ST	2	CL	486	PALMETTO ST TO DEAD END	\$55	\$26,755.81
sys9909	SWEETBRIAR AVE	2	CL	487	AT I-24	\$55	\$26,760.50
sys16550	BONNIEWAY DR	2	CL	487	EAST OF N MOORE RD	\$55	\$26,794.59
sys9719	SPRING GARDEN LN	2	CL	488	EAST OF CEDARHURST AVE	\$55	\$26,856.46
sys15273	BRADT ST	2	CL	489	OCOE ST TO CAMDEN ST	\$55	\$26,922.02
sys7914	PROVENCE ST	2	CL	490	EAST OF ELMWOOD ST	\$55	\$26,945.98
SSYS3560	HWY 27	2	CL	490	S/O E 44TH ST	\$55	\$26,956.74
sys9441	SUNBEAM AVE	2	CL	490	HOWELL AVE TO MCBRIEN RD	\$55	\$26,970.99
sys7314	FRAWLEY ST	2	CL	491	I-24	\$55	\$27,008.91
RH02100180634	HEMHILL AVE	2	CL	492	FROM EXISTING 8" N TO HOWARD AVE	\$55	\$27,075.51
sys7327	IDA BELLE LN	2	CL	496	E/O MC HANN CIR	\$55	\$27,272.64
sys30564	JOHNSON PK	2	CL	496	SHORT ST TO ST ELMO AVE	\$55	\$27,282.76
sys15717	COLLINS CIR	2	CL	497	WEST OF SHANFORD AVE	\$55	\$27,324.91
sys4637	DUVAL ST	2	CL	497	TOMBRAS AVE TO ROSEBUD DR	\$55	\$27,330.62
sys15824	MOOREMONT TERR	2	CL	498	BILTMORE DR TO DEAD END	\$55	\$27,398.99
sys5152	S SMITH ST	2	CL	499	RINGGOLD RD TO GARNER ST	\$55	\$27,434.86
sys27903	VALLEY VIEW DR	2	CL	499	EAST OF DAYTON BLVD	\$55	\$27,462.04
sys3157	HONEYCUTT LN	2	CL	500	CLINE RD TO ALTAMIRA DR	\$55	\$27,475.68
sys11029	SWEETBRIER CIR	2	CL	500	HARDIN DR TO FOUNTAIN AVE	\$55	\$27,486.89

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sys16008	GILLESPIE RD	2	CL	500	HOYT ST TO THROUGH ST	\$55	\$27,490.46
sys13751	GLENWOOD CIR	2	CL	500	TO IVY ST	\$55	\$27,515.68
sys22281	WHEELER AVE	2	CL	501	BACHMAN ST TO CUSHMAN ST	\$55	\$27,540.30
sys6265	CUMMINGS HWY	2	CL	502	NORTH TO A POINT	\$55	\$27,604.73
sys9133	E 32ND ST	2	CL	502	AT CLIFTON TERR	\$55	\$27,633.21
sys3989	MISSION OAKS DR	2	CL	503	WEST OF PATTON DR	\$55	\$27,639.25
sys3286	HIBBLER CIR	2	CL	504	SELLS DR TO DEAD END	\$55	\$27,698.29
sys10316	CHICKASAW DR	2	CL	504	SEQUOIA CIR TO PARKDALE	\$55	\$27,708.43
sys24123	2ND AVE	2	CL	505	S/O WHITNEY ST	\$55	\$27,756.12
sys22586	GRACE	2	CL	506	ARNO ST TO N CREST RD	\$55	\$27,825.35
sys9928	S LOVELL AVE	2	CL	506	MAYFAIR AVE TO I-24	\$55	\$27,843.58
sys22462	NOAH ST	2	CL	507	EMMA ST TO BRAGG AVE	\$55	\$27,882.36
sys3141	LAND ST	2	CL	507	SOUTH TO MISSIONAIRE AVE	\$55	\$27,884.98
sys1587	EASTVIEW DR	2	CL	509	WILLINGHAM LN TO FLEETWOOD DR	\$55	\$27,981.19
sys16342	WILSONIA AVE	2	CL	509	TALLEY RD TO HARGRAVES AVE	\$55	\$27,995.92
sys24124	WHITNEY ST	2	CL	509	2ND AVE NORTH TO 8" MAIN	\$55	\$28,007.84
sys30501	CUMMINGS HWY	2	CL	509	EAST OF 35TH ST	\$55	\$28,015.89
sys28339	ROYSTON ST	2	CL	510	WOODLAWN DR TO ALPINE DR	\$55	\$28,057.02
sys10523	WOODVALE AVE	2	CL	511	ROGERS RD TO ELLIS AVE	\$55	\$28,081.47
sys7418	SUMMIT AVE	2	CL	511	HUTCHESON ST TO POINDXTER AVE	\$55	\$28,101.92
sys8273	KYLE ST	2	CL	511	13TH ST TO 14TH ST	\$55	\$28,104.30
sys4002	SHERLIN DR	2	CL	511	TO DEAD END	\$55	\$28,121.23
sys15935	ORANGEWOOD AVE	2	CL	511	FROM HOYT ST SOUTH TO A POINT	\$55	\$28,122.00
sys23390	DELRAY AVE	2	CL	511	ALDEN AVE TO DEAD END	\$55	\$28,125.79
sys15820	GAYLE DR	2	CL	514	TALLEY RD TO DEAD END	\$55	\$28,247.05
sys9741	MAYFAIR AVE	2	CL	514	BELVOIR AVE TO BROCKFIELD AVE	\$55	\$28,281.47
sys4291	ADAIR AVE	2	CL	514	RINGGOLD RD TO MARIETTA ST	\$55	\$28,293.43
sys10818	N LOVELL AVE	2	CL	517	SPRING GARDEN LN TO OLD MISSION RD	\$55	\$28,410.81
sys10526	CASTLE DR	2	CL	517	ROGERS RD TO ELLIS AVE	\$55	\$28,442.21
sys27448	TRENTON ST	2	CL	517	NORWOOD AVE TO DAYTON BLVD	\$55	\$28,453.14
sys2533	W 47TH ST	2	CL	518	FLORIDA AVE TO TENNESSEE AVE	\$55	\$28,474.65
SSYS2818	WAHEELA RD	2	CL	518	S CREST RD SOUTH TO A POINT	\$55	\$28,489.21
sys12429	MACKEY AVE	2	CL	519	NORTH OF IGOU GAP RD	\$55	\$28,559.43
sys21397	CHEEK ST	2	CL	519	DODSON AVE TO TAYLOR ST	\$55	\$28,565.77
sys13265	OAK ST	2	CL	519	CENTRAL AVE TO O'NEAL ST	\$55	\$28,567.33
sys21932	LOFTIS ST	2	CL	520	BETWEEN ADDISON RD AND GRANDA ST	\$55	\$28,585.36
sys5054	BERMUDA TERR	2	CL	520	HURST ST TO DEAD END	\$55	\$28,591.61
sys21273	QUEENS DR	2	CL	521	DELANO DR TO ELENA DR	\$55	\$28,664.59
sys1722	GLENVIEW ST	2	CL	521	FLEETWOOD DR TO WILLINGHAM LN	\$55	\$28,680.44
sys8408	POLK ST	2	CL	523	ROSSVILLE BLVD NORTH TO A POINT	\$55	\$28,742.54
sys28548	WEST PINE ST	2	CL	523	SOUTH OF LAKEVIEW DR	\$55	\$28,742.85
SSYS28879	ALGOOD ST	2	CL	523	WEST OF FOSTER ST	\$55	\$28,752.75
sys28629	ELMWOOD ST	2	CL	523	S/O IVE ST	\$55	\$28,769.68
sys22732	TAYLOR AVE	2	CL	525	NORTH OF SIMS ST	\$55	\$28,856.72
sys7348	SHERIDAN RD	2	CL	525	AT I-24	\$55	\$28,879.88
sys9897	10TH AVE	2	CL	525	BETWEEN E 24TH ST AND E 25TH ST	\$55	\$28,898.64
RH97040474422	KEY WEST AVE	2	CL	527	STATE LINE RD NORTH TO A POINT	\$55	\$28,986.13

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System/Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys14910	OLIVE ST	2	CL	527	CHAMBERLAIN AVE EAST TO 6" MAIN	\$55	\$28,991.98
sys23935	CARLTON AVE	2	CL	527	NORTH OF LANCASTER AVE TO DEAD END	\$55	\$29,011.05
sys4197	TANAKA	2	CL	528	EAST OF WAHEELA RD	\$55	\$29,047.30
sys2012	PINE ST	2	CL	530	EAST OF SENECA AVE	\$55	\$29,135.59
sys9525	VISTON AVE	2	CL	530	HAZELWOOD AVE TO HUNT AVE	\$55	\$29,151.64
sys15854	TERRELL ST	2	CL	531	GILLESPIE RD TO GERMANTOWN RD	\$55	\$29,179.08
sys28575	BENTLY DR	2	CL	531	WEST OF HWY 27	\$55	\$29,204.55
SSYS28797	HENDERSON AVE	2	CL	532	SOUTH OF MAPLE ST	\$55	\$29,239.29
sys28176	PALM BEACH AVE	2	CL	532	S/O STATE LINE RD AT DEAD END	\$55	\$29,264.95
sys9566	CONNER ST	2	CL	534	HILL TOP DR TO GARDNER ST	\$55	\$29,354.75
sys5223	CRESTHAVEN DR	2	CL	534	BELVOIR AVE TO DEAD END	\$55	\$29,361.68
sys24207	WHITAKER ST	2	CL	535	EUCALID AVE SOUTH TO A POINT	\$55	\$29,404.38
sys9030	E 32ND ST	2	CL	535	CRESCENT CIR TO CALHOUN AVE	\$55	\$29,423.53
sys16720	RAE TR	2	CL	535	AT DEAD END	\$55	\$29,440.93
sys9023	E 31ST ST	2	CL	536	CLIFTON TERR TO CRESCENT CIR	\$55	\$29,486.75
sys13730	IVY ST	2	CL	537	EAST OF GLENWOOD DR	\$55	\$29,556.96
sys3859	EDWARDS TER	2	CL	538	JOHN ROSS RD TO BLOCKER LANE	\$55	\$29,581.05
sys1930	PRIVATE EASEMENT	2	CL	538	E/O JEROME AVE	\$55	\$29,600.68
sys7740	CARY ST	2	CL	540	ANDERSON AVE TO KIRBY AVE	\$55	\$29,722.42
sys28062	READS LAKE RD	2	CL	541	WEST OF MCCAHILL RD	\$55	\$29,747.71
sys22260	OREAR ST	2	CL	542	DAISY ST TO APPLING ST	\$55	\$29,810.92
sys12992	DUNCAN AVE	2	CL	542	SPRUCE ST TO HOLTZCLAW AVE	\$55	\$29,832.84
sys28674	WEST PINE ST	2	CL	543	BETWEEN OAKWOOD RD TO MAGNOLIA ST	\$55	\$29,845.12
sys1283	S FOREST AVE	2	CL	544	SCENIC HWY SOUTH TO FLEETWOOD DR	\$55	\$29,903.65
sys26770	ADELIA DR	2	CL	544	UPSHAW DR TO KENYON RD	\$55	\$29,924.24
sys20800	MILDRED RD	2	CL	545	CARROLL LN TO MISSISSIPPI AVE	\$55	\$29,953.43
sys24228	PIEDMONT CIR	2	CL	545	EAST OF REDDING RD	\$55	\$29,981.81
sys20631	FAIR HILL DR	2	CL	545	SOUTH TO MILDRED RD	\$55	\$29,988.53
sys23329	P POOLE AVE	2	CL	546	AT OAKWOOD AVE	\$55	\$30,014.84
sys9411	LONSDALE DR	2	CL	546	SWEETBRIER AVE TO AMHURST AVE	\$55	\$30,050.89
sys29097	HOLLYWOOD DR	2	CL	547	N/O STANCIL RD	\$55	\$30,065.20
sys10071	BROOKFIELD CIR	2	CL	548	W/O BROOKFIELD AVE TO DEAD END	\$55	\$30,142.69
SSYS3694	ALLEY WAY	2	CL	548	32ND ST SOUTH TO 34TH ST	\$55	\$30,165.12
sys28560	HARRISON DR	2	CL	548	NORTH OF CLAIR ST	\$55	\$30,166.14
SSYS2759	E 46TH ST	2	CL	549	GENERAL THOMAS BLVD TO 17TH AVE	\$55	\$30,195.05
sys7312	STIMPSON DR	2	CL	550	BONNIE LASSIE AVE TO MAPLE LN	\$55	\$30,270.36
sys4514	CLOVER ST	2	CL	551	HARVARD ST TO YALE ST	\$55	\$30,311.43
sys6827	TAMARACK TR	2	CL	551	FROM HILLSBORO DR NORTH TO ARDIAN TR	\$55	\$30,328.52
sys8690	DIANE LN	2	CL	551	WESTSIDE DR TO DEAD END	\$55	\$30,329.83
sys6652	E 17TH ST	2	CL	552	DODDS AVE TO YOUNG ST	\$55	\$30,345.98
sys20994	OAKWOOD LN	2	CL	552	SOUTH OF MINNEKAHDA RD	\$55	\$30,346.72
sys7335	BLOOM RD	2	CL	553	DUNLAP AVE TO DEAD END	\$55	\$30,396.18
sys4006	EDWARDS TER	2	CL	554	GREENS LAKE RD WEST TO 8" MAIN	\$55	\$30,496.74
sys16700	RIDGEMONT DR	2	CL	555	CABIN RD TO RICHARD AVE	\$55	\$30,521.51
sys16934	HOYT ST	2	CL	555	RICHARD AVE TO NELLIE ST	\$55	\$30,560.38
sys20159	LAWN ST	2	CL	557	HAMILTON AVE TO SPEARS AVE	\$55	\$30,642.95
sys11000	LANIOR CIR	2	CL	560	EAST OF LANIOR ST	\$55	\$30,814.86

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys5186	MARION AVE	2	CL	560	ALTAMAHA ST TO W END AVE	\$55	\$30,820.44
sys16250	MENLO ST	2	CL	560	GERMANTOWN RD EAST TO CHICKAMAUGA AVE	\$55	\$30,820.92
sys13463	FLYNN ST	2	CL	563	FAIRVIEW AVE TO CENTRAL AVE	\$55	\$30,941.19
sys3857	COLEMAN AVE	2	CL	565	LARADO AVE NORTH TO A POINT	\$55	\$31,077.90
sys7480	SHERIDAN RD	2	CL	565	BROCKHAVEN RD NORTH TO EXISTING 2"	\$55	\$31,081.99
sys28621	GREENFIELD DR	2	CL	569	BETWEEN LYNN GROVE DR TO HILLSBORO RD	\$55	\$31,291.23
sys4734	CLEMONS RD	2	CL	570	PRIGMORE RD TO FRUITLAND DR	\$55	\$31,351.80
sys31229	ALLEY WAY	2	CL	570	NORTH OF W 40TH ST	\$55	\$31,372.80
sys10124	MEADOWBROOK LN	2	CL	571	TACOA AVE TO TACOA CIR	\$55	\$31,406.00
sys28545	WOODLAND RD	2	CL	572	ENSIGN RD TO LAKEVIEW DR	\$55	\$31,454.30
sys23791	CHARLOTTE AVE	2	CL	572	PEACE ST TO DEAD END	\$55	\$31,482.68
sys9136	E 35TH ST	2	CL	572	BRANNON ST TO JEROME ST	\$55	\$31,483.08
sys2711	TEXAS AVE	2	CL	573	NORTH OF HILL ST	\$55	\$31,506.40
sys11828	FRANKLIN RD	2	CL	573	NORTH OF GREEN RD	\$55	\$31,521.76
sys13523	PRIVATE EASEMENT	2	CL	574	MAIN ST TO E 17TH ST	\$55	\$31,550.35
sys31059	E 32ND ST	2	CL	575	CLIFTON TERR TO CRESCENT CIR	\$55	\$31,602.51
sys9005	E 34TH ST	2	CL	575	BRANNON ST TO JEROME ST	\$55	\$31,635.35
sys8603	WESTONIA DR	2	CL	577	FROM 2" MAIN TO DEAD END	\$55	\$31,732.54
sys8445	WILLOW ST	2	CL	577	E 20TH ST TO 23RD ST	\$55	\$31,732.87
sys16863	PARKWAY DR	2	CL	577	WILCOX BLVD TO ANGES AVE	\$55	\$31,737.17
SSYS4154	ALLEY WAY	2	CL	578	ROSSVILLE BLVD TO 13TH AVE	\$55	\$31,797.52
sys28209	BARKER ST	2	CL	578	LAKE TERR TO CENTER ST	\$55	\$31,810.23
sys9731	BROOKFIELD AVE	2	CL	580	BROOKFIELD CIR TO WADE DR	\$55	\$31,905.24
sys31823	ADAMS ST	2	CL	581	MAIN ST TO DEAD END	\$55	\$31,966.30
SSYS3181	E 45TH ST	2	CL	581	7TH AVE TO 10TH AVE	\$55	\$31,971.07
sys10525	PARKVIEW DR	2	CL	582	ROGERS RD TO ELLIS AVE	\$55	\$32,001.66
sys16655	GANASITA TR	2	CL	582	FROM CONAHANEY TR NORTH TO A POINT	\$55	\$32,005.70
sys3297	MYRA AVE	2	CL	584	HILLSBORO DR TO DEAD END	\$55	\$32,104.77
sys13079	SHALLOWFORD RD	2	CL	584	OAK ST TO MCCALLIE AVE	\$55	\$32,127.16
sys3262	SHELBY CIR	2	CL	586	EDWIN LN TO CIRCLE	\$55	\$32,203.55
sys10966	VISTON AVE	2	CL	586	SPRING CREEK RD TO HAZELWOOD AVE	\$55	\$32,236.74
sys15615	ARLINGTON AVE	2	CL	586	OCOE ST TO MONROE ST	\$55	\$32,248.82
sys7220	DONALDSON RD	2	CL	588	GLEASON DR TO CATHEY LN	\$55	\$32,321.57
sys30330	W 41ST ST	2	CL	588	HIGHLAND AVE WEST TO W 40TH ST	\$55	\$32,327.33
sys9142	CLIFTON TERR	2	CL	588	E 30TH TO CIRCLE	\$55	\$32,336.02
sys9488	S ST MARKS AVE	2	CL	589	ANDERSON AVE SOUTH TO A POINT	\$55	\$32,380.23
sys16548	BONNIEWAY DR	2	CL	590	TO OMA LEE DR AND DORISA AVE	\$55	\$32,474.57
sys28995	STRAUB ST	2	CL	591	SOUTH CREST RD TO VILLAND ST	\$55	\$32,490.88
sys10841	SPRING GARDEN LN	2	CL	591	CEDARHURST AVE WEST TO A POINT	\$55	\$32,523.21
sys15926	NANDENA DR	2	CL	593	PINOAK TERR EAST TO A POINT	\$55	\$32,600.94
sys28565	TERRACE ST	2	CL	593	FERGISS DR EAST TO A POINT	\$55	\$32,631.03
sys16291	SYLVAN ST	2	CL	594	PHOENIX DR WEST TO A POINT	\$55	\$32,667.82
sys9561	S ST MARKS AVE	2	CL	594	CLUB DR TO BRAINERD RD	\$55	\$32,673.35
sys4917	NEWPORT DR	2	CL	595	MARLBORO AVE TO GREENUP LN	\$55	\$32,730.80
sys27696	VALLEY HIGH LN	2	CL	595	VALLEY TR TO DEAD END	\$55	\$32,737.58
sys4563	S SMITH ST	2	CL	597	MARIETTA ST TO BRACK ST	\$55	\$32,847.13
sys16624	BRIARCLIFF WAY	2	CL	600	SHAMROCK DR SOUTH	\$55	\$32,986.26

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys2149	HALSEY ST	2	CL	601	CENTRAL AVE WEST TO A POINT	\$55	\$33,043.13
SSYS3720	STATE LINE RD	2	CL	601	AMMONS ST TO HOOKER RD	\$55	\$33,077.95
sys16185	RIDGESIDE RD	2	CL	603	ROWE RD EAST TO A POINT	\$55	\$33,145.35
sys28175	KEY WEST AVE	2	CL	603	SOUTH TO STANCEL RD	\$55	\$33,150.47
sys3161	CHEROKEE AVE	2	CL	605	CLAYTON AVE TO MELODY LN	\$55	\$33,248.09
SSYS3595	16TH AVE	2	CL	607	E 36TH ST NORTH TO A POINT	\$55	\$33,392.44
sys4910	PYRON LN	2	CL	608	MARYLAND DR NORTH TO A POINT	\$55	\$33,453.47
sys3328	DARLENE CIR	2	CL	608	EDWARDS TERR NORTH TO DEAD END	\$55	\$33,459.20
sys5182	CLEMONS RD	2	CL	609	SWOPE RD EAST TO SPRINGVALE RD	\$55	\$33,483.69
sys28342	ALPINE DR	2	CL	610	NORTH OF MISSING LINK TR	\$55	\$33,558.86
sys15942	TALLEY RD	2	CL	613	SOUTH OF WILCOX BLVD	\$55	\$33,691.21
RH96090972660	PRIVATE EASEMENT	2	CL	613	SCENIC HWY TO LULA LAKE RD	\$55	\$33,699.94
sys24296	EASTON AVE	2	CL	614	NEWBERRY ST NORTH TO A POINT	\$55	\$33,774.71
sys17004	MILTON	2	CL	614	TUNNEL BLVD WEST TO DEAD END	\$55	\$33,781.55
sys24658	GLENROY AVE	2	CL	615	ALTAMONT RD SOUTH TO 6" MAIN	\$55	\$33,802.71
sys22343	NORTHBRIER CIR	2	CL	615	TUNNEL BLVD WEST TO NORTHBRIER LN	\$55	\$33,827.94
sys28020	VALLEY BRIDGE RD	2	CL	616	SPRING VALLEY LN SOUTH TO EXISTING 8"	\$55	\$33,853.28
sys17485	TUSKEGEE BLVD	2	CL	616	FISK AVE TO ATLANTA AVE	\$55	\$33,873.97
sys3320	BENNETT RD	2	CL	617	JOHN ROSS RD TO ORLANDO AVE	\$55	\$33,960.18
sys9639	CAROLYN LN	2	CL	618	HICKS RD EAST TO DEAD END	\$55	\$33,997.58
sys9673	CASTLE DR	2	CL	620	ELLIS AVE TO COLONIAL DR	\$55	\$34,085.40
sys10509	PARKVIEW DR	2	CL	620	ELLIS AVE TO COLONIAL DR	\$55	\$34,101.09
sys5212	WOODMONT DR	2	CL	620	HIBBLER CIR EAST TO DELLWAY CIR	\$55	\$34,115.97
sys4735	REBECCA DR	2	CL	621	RINGGOLD RD S TO A POINT	\$55	\$34,129.24
sys24697	AVOLON PL	2	CL	621	AT DEAD END	\$55	\$34,175.61
sys11227	FRIAR RD	2	CL	621	WALKER ST W TO ALLEY WAY	\$55	\$34,177.25
sys9900	ASBURY DR	2	CL	624	MAYFAIR AVE TO DEAD END	\$55	\$34,319.53
sys1937	W 56TH ST	2	CL	624	ALABAMA AVE WEST TO A POINT	\$55	\$34,325.35
sys17018	MONTEREY ST	2	CL	627	CAROUSEL RD TO SIENER LN	\$55	\$34,483.94
sys7419	SUMMIT AVE	2	CL	628	HUTCHESON ST TO FRANKLIN PL	\$55	\$34,517.21
sys10882	AUDUBON DR	2	CL	628	DAUPHIN WAY TO VISTA DR	\$55	\$34,529.37
sys32337	FORT ST	2	CL	630	RIVERSIDE PARKWAY SOUTH TO DEAD END	\$55	\$34,646.73
sys16848	JEANAGA TR	2	CL	630	DOGWOOD DR WEST TO ANGES AVE	\$55	\$34,655.05
sys7355	MCHANN DR	2	CL	631	INDIAN TR SOUTH TO EXISTING 2"	\$55	\$34,708.28
sys7319	IDA BELL LN	2	CL	632	EAST OF GERMANTOWN RD	\$55	\$34,732.70
sys19700	WINCHESTER ST	2	CL	633	HOUSER ST TO MANNING ST	\$55	\$34,808.08
sys3760	WESTSIDE DR	2	CL	633	30TH ST SOUTH TO END OF MAIN	\$55	\$34,812.73
sys28129	CARLINE RD	2	CL	634	CATOOSA ST NORTH TO A POINT	\$55	\$34,879.05
sys4342	BENNETT RD	2	CL	635	PRIGMORE RD TO EXISTING 8"	\$55	\$34,907.90
sys28599	OAK ST	2	CL	635	ELMWOOD ST TO WARREN ST	\$55	\$34,947.74
sys19807	SNOW ST	2	CL	636	MARYLAND ST SOUTH TO PEAK ST	\$55	\$35,003.97
sys28534	ASTERWOOD ST	2	CL	638	OAKWOOD RD TO MAGNOLIA ST	\$55	\$35,094.16
sys28597	WARREN ST	2	CL	638	HUDSON ST TO CROSS ST	\$55	\$35,105.55
sys3268	WHITEHEAD AVE	2	CL	639	BALES AVE TO DEAD END	\$55	\$35,163.72
sys4972	SUNNY DEL LN	2	CL	639	ALTAMAHA ST TO SUNNY DELL CIR	\$55	\$35,164.35
sys9730	ANDERSON AVE	2	CL	641	NORMA DR TO NORTHVIEW AVE	\$55	\$35,259.03
sys22335	NIMITZ ST	2	CL	644	MCARTHUR AVE TO SUMTER AVE	\$55	\$35,395.11

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys15702	LIVEOAK LN	2	CL	644	WOODMORE LN TO LEARNING LN	\$55	\$35,408.60
sys17022	MONTEREY ST	2	CL	645	CAROUSEL RD TO KENDALE DR	\$55	\$35,489.60
sys10663	ARROWHEAD RD	2	CL	649	PARKDALE AVE TO WOODVALE AVE	\$55	\$35,680.72
sys13361	WHEELER AVE	2	CL	651	WILSON ST TO COOLEY ST	\$55	\$35,802.93
sys13355	PRIVATE EASEMENT	2	CL	651	SUMACH AVE TO HIGHLAND ST	\$55	\$35,811.64
SSYS28757	FLEGAL AVE	2	CL	652	PEERLESS ST TO MAPLE ST	\$55	\$35,836.60
sys5155	PRATER RD	2	CL	655	RINGGOLD RD TO ST JAMES AVE	\$55	\$36,019.50
sys11234	CLAYTON RD	2	CL	655	AT DEAD END	\$55	\$36,047.20
sys5225	BELVOIR PINES DR	2	CL	656	BELVOIR AVE WEST TO DEAD END	\$55	\$36,073.52
sys5057	SCHOFIELD AVE	2	CL	657	FROM HURST ST WEST TO DEAD END	\$55	\$36,113.24
RH00020177508	FAIR ST	2	CL	657	BERKLEY DR TO EAST TO A POINT	\$55	\$36,125.56
sys16723	JUANDALE DR	2	CL	658	ROLLINGWOOD DR EAST TO A POINT	\$55	\$36,168.31
sys10751	KEMP RD	2	CL	658	SHAWNEE TR EAST TO A POINT	\$55	\$36,172.88
SSYS35333	PRIVATE EASEMENT	2	CL	658	WEST OF JEROME AVE	\$55	\$36,175.35
sys17025	CRESTFIELD DR	2	CL	658	GREENWOOD RD EAST TOWARD EASTWOOD AVE	\$55	\$36,183.21
sys2325	ARLINGTON TER	2	CL	660	CENTRAL AVE WEST TO A POINT	\$55	\$36,308.76
sys25836	MELINDA DR	2	CL	661	LAKEHAVEN LN TO LOCKSLEY LN	\$55	\$36,370.86
sys13800	VINE ST	2	CL	664	AT GLENWOOD DR	\$55	\$36,534.14
sys16292	SYLVAN DR	2	CL	666	BELLE VISTA AVE EAST TO A POINT	\$55	\$36,621.64
sys28027	STONE BROOK LN	2	CL	666	VALLEY TR TO DEAD END	\$55	\$36,630.90
sys7954	CANNON ST	2	CL	666	E 28TH ST SOUTH TO A POINT	\$55	\$36,648.91
sys27910	FORSYTH ST	2	CL	667	CRESTVIEW DR AT END OF SYSTEM	\$55	\$36,659.66
sys9658	N LOVELL AVE	2	CL	667	GREENVIEW DR TO GOLFVIEW DR	\$55	\$36,687.83
sys15740	JONES ST	2	CL	667	TUNNEL BLVD TO A POINT	\$55	\$36,707.86
sys833	CHAMBERLAIN AVE	2	CL	668	GROVE ST SOUTH TO A POINT	\$55	\$36,723.40
sys10488	ARROWHEAD RD	2	CL	669	WOODVALE AVE TO WOODMOORE RD	\$55	\$36,805.76
sys17026	HILLWOOD DR	2	CL	669	GREENWOOD RD EAST TO A POINT	\$55	\$36,814.93
sys5327	SCOTT ST	2	CL	669	KEBBLE ST TO DEAD END	\$55	\$36,816.61
sys15701	LUNA LN	2	CL	671	WOODMOORE LN TO LEARNING LN	\$55	\$36,885.04
sys28644	HAYES ST	2	CL	672	HWY 27 TO CROSS ST	\$55	\$36,981.37
sys7454	WESTONIA DR	2	CL	674	DUNLAP AVE EAST TO 2" MAIN	\$55	\$37,064.03
sys2549	W 53RD ST	2	CL	674	BEULAH AVE TO TENNESSEE AVE	\$55	\$37,085.01
sys15622	OCOE ST	2	CL	675	ARLINGTON AVE TO CHAMBERLAIN AVE	\$55	\$37,118.11
sys9462	S BROOKS AVE	2	CL	676	BRANERD RD TO HAZELWOOD AVE	\$55	\$37,191.80
sys10196	SHAWNEE CIR	2	CL	677	HARGRAVES AVE EAST TO A POINT	\$55	\$37,211.09
RH99022377266	WINDMERE DR	2	CL	677	BROOKWOOD DR TO LYNNCRST DR	\$55	\$37,248.30
sys4934	BELVOIR HILLS DR	2	CL	679	DELLWAY CIR WEST TO EXISTING 2"	\$55	\$37,355.29
sys10075	WILEY AVE	2	CL	681	BROOKFIELD CIR TO A POINT	\$55	\$37,444.98
sys14224	KILMER ST	2	CL	682	ROBBINS ST TO MILNE ST	\$55	\$37,485.96
sys30226	MTN VIEW CT	2	CL	684	EAST OF ST ELMO AVE	\$55	\$37,602.94
SSYS4164	14TH AVE	2	CL	688	E 48TH ST TO E 50TH ST	\$55	\$37,822.33
sys28341	WOODLAWN DR	2	CL	689	AT ALPINE DR	\$55	\$37,873.40
sys27395	SANTEELAH ST	2	CL	689	DAYTON BLVD SOUTH TO DEAD END	\$55	\$37,892.20
sys1929	PRIVATE EASEMENT	2	CL	689	JEROME AVE EAST TO A POINT	\$55	\$37,919.89
sys7901	MERRIMAC CIR	2	CL	690	S/O FOUNTAIN AVE	\$55	\$37,924.32
sys30247	OLD MTN RD	2	CL	690	PENNSYLVANIA AVE TO ST ELMO AVE	\$55	\$37,973.74
sys17006	MARY WALKER PL	2	CL	694	WEST OF WILCOX BLVD	\$55	\$38,153.68

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sys9651	HOWELL AVE	2	CL	695	ST MARKS AVE TO INTERSECTION	\$55	\$38,237.39
sys24693	CRESTWOOD DR	2	CL	695	EAST TO DEAD END	\$55	\$38,239.51
sys27881	READS LAKE RD	2	CL	696	NORTH OF MCCAILL RD	\$55	\$38,277.49
sys15972	PINOAK TERR	2	CL	697	EAST TO DALECREST CT	\$55	\$38,345.58
SSYS28457	WEST GORDON AVE	2	CL	698	CENTER ST TO WEST STATE ST	\$55	\$38,383.53
sys4672	ROSE ST	2	CL	700	MCBRIEN RD EAST TO 2" MAIN	\$55	\$38,481.98
sys29015	HERRON RD	2	CL	700	WEST OF US HWY 27	\$55	\$38,501.79
sys4191	ALTAMIRA DR	2	CL	701	DABNEY DR EAST TO 8"	\$55	\$38,553.38
sys10819	OLD MISSION RD	2	CL	702	WOODVALE AVE TO N MOORE RD	\$55	\$38,612.49
sys9948	WOODVALE AVE	2	CL	704	KENWOOD AVE TO OLD MISSION RD	\$55	\$38,725.70
sys3137	CLAYTON AVE	2	CL	704	CHEROKEE AVE TO SUNRISE TERR	\$55	\$38,730.55
sys11272	AIKEN RD	2	CL	705	LEE HWY TO CHICKAMAUGA RD	\$55	\$38,747.73
sys16590	HENDERSON DR W	2	CL	705	TO HENDERSON DR EAST	\$55	\$38,761.23
sys4595	RIDGE AVE	2	CL	709	MONROE ST TO DUPONT ST	\$55	\$39,010.60
SSYS4139	WAHEELA RD	2	CL	710	51ST ST NORTH TO A POINT	\$55	\$39,024.98
sys16594	VANNOY DR	2	CL	713	BELLE VISTA AVE TO N MOORE RD	\$55	\$39,233.91
SSYS3179	E 47TH ST	2	CL	714	ROSSVILLE BLVD TO DODDS AVE	\$55	\$39,248.23
sys25281	ROBERTS RD	2	CL	714	KINGS RD TO DEAD END	\$55	\$39,256.66
sys27415	BRENTWOOD DR	2	CL	718	DAYTON BLVD TO HELMA ST	\$55	\$39,496.97
sys4269	NOTTINGHAM DR	2	CL	720	SPRING CREEK RD TO DEAD END	\$55	\$39,620.16
sys16648	AGAWELA DR	2	CL	721	EAST OF GANASITA TR	\$55	\$39,661.60
sys4264	ASTOR LN	2	CL	727	MARYLAND DR NORTH TO A POINT	\$55	\$39,963.49
sys5052	BERMUDA AVE	2	CL	727	HURST ST WEST TO DEAD END	\$55	\$40,005.97
sys23925	LAUREL DR	2	CL	730	BERKLEY DR TO EAST TO A POINT	\$55	\$40,123.07
sys24509	KIMKAREN WAY	2	CL	730	OAK KNOLL DR TO OAK KNOLL DR	\$55	\$40,138.72
sys1540	FAIRVIEW AVE	2	CL	732	PROSPECT WAY TO HUNT ST	\$55	\$40,273.30
sys9656	ST MARKS AVE	2	CL	733	GREENVIEW DR TO GOLFVIEW DR	\$55	\$40,314.69
sys4751	SCHMIDT RD	2	CL	734	GREENBRIAR RD TO BENNETT RD	\$55	\$40,363.16
sys11038	SHADY DR	2	CL	734	FOUNTAIN AVE EXT TO DELAWARE DR	\$55	\$40,371.44
sys4293	TRUMAN AVE	2	CL	735	RINGGOLD RD TO MARIETTA ST	\$55	\$40,412.78
sys28672	WEST PINE ST	2	CL	736	WEST OF OAKWOOD RD	\$55	\$40,488.84
sys3850	PHELPS ST	2	CL	738	NORTH OF FREDERICK DR	\$55	\$40,573.84
sys5343	GRIFFITH DR	2	CL	738	AT MCDONALD RD	\$55	\$40,614.79
sys21700	WOOD AVE	2	CL	739	ELMENDORF ST SOUTH TO A POINT	\$55	\$40,637.98
sys15731	WOODMORE CIR	2	CL	740	WOODMORE TERR TO DEAD END	\$55	\$40,701.58
sys9683	ORLIN DR	2	CL	740	FROM BELAIRE DR TO BELAIRE DR	\$55	\$40,723.83
sys3169	WILSHIRE RD	2	CL	741	FROM CLOSE RD TO HONEYCUT DR	\$55	\$40,769.10
sys4647	MYRTLE AVE	2	CL	743	GREENBRIAR RD TO BENNETT RD	\$55	\$40,886.85
sys3316	BENNETT RD	2	CL	744	ORLANDO AVE TO GREENSLAKE RD	\$55	\$40,941.80
sys16728	ROLLINGWOOD DR	2	CL	746	NORTH OF WOODBROOK DR	\$55	\$40,941.80
sys17019	CAMBRIDGE DR	2	CL	748	KENDALE DR TO CAROUSEL RD	\$55	\$41,003.35
sys10507	WOODVALE AVE	2	CL	749	COLONIAL DR TO BILTMORE AVE	\$55	\$41,150.20
sys23378	LYNDA CIR	2	CL	750	SOUTH OF LYNDA DR	\$55	\$41,211.80
sys16348	MCGOWAN AVE	2	CL	751	WILSONIA AVE TO BELLE VISTA AVE	\$55	\$41,245.82
sys27401	JOHNSON BLVD	2	CL	757	WEST OF DAYTON BLVD	\$55	\$41,297.12
sys9437	LARCHMONT AVE	2	CL	760	BRAINERD RD TO KENWOOD AVE	\$55	\$41,619.71
sys9660	CAMERON LN	2	CL	760	N MOORE RD TO HICKS RD	\$55	\$41,789.90
							\$41,812.56

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sys4980	SUNNY DELL CIR	2	CL	762	ALTAMAHA ST TO SUNNY DELL LN	\$55	\$41,932.58
sys6835	RINGGOLD RD	2	CL	766	OLD RINGGOLD RD TO BLACKHAWK TR	\$55	\$42,139.41
sys7193	GLEASON CIR	2	CL	769	GLEASON DR TO DONALSON RD	\$55	\$42,316.63
sys2090	MICHIGAN ST	2	CL	771	W 47TH ST SOUTH TO A POINT	\$55	\$42,378.52
sys9300	VICTORY ST	2	CL	772	TALLEY RD TO DEAD END	\$55	\$42,464.19
sys3267	BALES AVE	2	CL	777	CONNELLY LANE TO WHITEHEAD AVE	\$55	\$42,727.30
sys4271	SHERWOOD DR	2	CL	778	SPRING CREEK RD TO DEAD END	\$55	\$42,791.21
sys3271	CONNELLY LN	2	CL	778	EAST AND WEST OF CONNELLY LN	\$55	\$42,793.86
sys27798	CRESTVIEW DR	2	CL	778	WOODROW AVE SOUTH TO A 6" MAIN	\$55	\$42,802.33
sys4561	ADAIR AVE	2	CL	779	MARIETTA ST SOUTH TO A POINT	\$55	\$42,826.01
sys9447	BROOKS AVE	2	CL	780	BRAINERD RD TO PISGAH AVE	\$55	\$42,898.31
sys14483	DUNCAN AVE	2	CL	783	HOLTZCLAW AVE TO HIGHLAND PARK AVE	\$55	\$43,077.61
sys16717	MARK TWAIN CIR	2	CL	783	FROM CIRCLE TO RAE TR	\$55	\$43,085.10
sys11459	KING ST	2	CL	787	EAST BRAINERD RD NORTH TO DEAD END	\$55	\$43,274.85
sys7330	CASTLE AVE	2	CL	789	DUNLAP AVE TO EXISTING 6"	\$55	\$43,384.26
sys16940	HIGH ST	2	CL	793	GREENWOOD RD WEST TO A POINT	\$55	\$43,624.03
sys9273	SHAWNEE TR	2	CL	794	MONTVIEW DR TO OLD MISSION RD	\$55	\$43,662.23
sys7328	PARHAM DR	2	CL	794	IDA BELLE LN EAST TO A POINT	\$55	\$43,696.44
BH96051099876	SECOND ST/STEGAL ST	2	CL	797	FIRST ST TO ELLIS RD	\$55	\$43,856.95
sys4782	ROSE ST	2	CL	801	PRIGMORE RD WEST TO A POINT	\$55	\$44,028.17
sys3142	LAND ST	2	CL	802	CLOSE RD WEST TO A POINT	\$55	\$44,136.64
sys10759	HILLCREST AVE	2	CL	808	SOUTH TO A POINT	\$55	\$44,415.16
SSYS29004	WEST GORDON AVE	2	CL	809	AMMONS ST TO DIVINE AVE	\$55	\$44,478.34
sys4284	SUNNYFIELD LN	2	CL	810	SPRING CREEK TO RINGGOLD RD	\$55	\$44,548.60
sys22751	HARRISON PK	2	CL	811	MEADOW LANE WEST TO A POINT	\$55	\$44,610.34
sys5168	WATERHOUSE AVE	2	CL	812	RINGGOLD RD SOUTH TO A POINT	\$55	\$44,661.18
sys19878	HENDERSON AVE	2	CL	812	BEASON DR WEST TO DEAD END	\$55	\$44,683.62
sys9445	TACOA AVE	2	CL	813	BRAINERD RD TO CLUB DR	\$55	\$44,702.34
sys4472	KEEBLE AVE	2	CL	814	RINGGOLD RD TO MCKINLEY ST	\$55	\$44,783.58
sys28529	OAKWOOD RD	2	CL	814	LAKEVIEW DR TO TENNESSEE ST	\$55	\$44,787.71
sys24546	NURICK DR	2	CL	815	ALEXANDER DR SOUTH TO A 6" MAIN	\$55	\$44,822.98
sys5058	HURST ST	2	CL	816	TO MCCALL RD	\$55	\$44,895.33
sys5228	COVINGTON DR	2	CL	818	MARLBORO AVE TO DOVER LN	\$55	\$45,000.95
sys15927	AKINS	2	CL	820	PINOAK TERR WEST TO A POINT	\$55	\$45,110.81
sys28400	ALPINE DR	2	CL	824	MISSING LINK TR WOODLAND DR	\$55	\$45,305.10
sys15937	PEGGY LN	2	CL	824	POPE ST TO LINE ST	\$55	\$45,307.00
sys24387	TIKTIN DR	2	CL	824	ALEXANDER DR NORTH TO A POINT	\$55	\$45,318.27
sys4346	KEY WEST AVE	2	CL	825	STATE LINE RD NORTH TO A POINT	\$55	\$45,385.02
sys31861	WASHINGTON ST	2	CL	828	MAIN ST TO E 17TH ST	\$55	\$45,547.34
sys23236	ELMORE AVE	2	CL	829	NEWBERRY ST TO LANCASTER AVE	\$55	\$45,586.49
sys4476	SEWANEE DR	2	CL	830	PRIVATE EASMENT TO RINGGOLD RD	\$55	\$45,638.47
sys2169	CENTRAL AVE	2	CL	830	LEE AVE TO R/R TRACK	\$55	\$45,655.05
sys7369	INDIAN TR	2	CL	831	TO MIMBRO LN	\$55	\$45,680.79
sys27564	CRERAR ST	2	CL	833	E VIEW CRT TO THUELER ST	\$55	\$45,794.32
RH01062679568	LANCASTER AVE	2	CL	834	LANCASTER CIR TO BERKLEY DR	\$55	\$45,895.47
RH97040474416	PALM BEACH AVE	2	CL	836	STATE LINE RD SOUTH TO A POINT	\$55	\$45,994.44
sys4412	ESTERBROOK DR	2	CL	837	TO DEAD END	\$55	\$46,054.08

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sys4559	PRATER RD	2	CL	838	STATE LINE RD TO ST JAMES AVE	\$55	\$46,104.81
sys4558	SUNRAY DR	2	CL	838	STATE LINE RD TO ST JAMES AVE	\$55	\$46,111.27
sys11212	FRIAR RD	2	CL	838	CHICKAMAUGA RD TO CENTRAL AVE	\$55	\$46,113.78
sys16668	JEANAGA TR	2	CL	839	WILCOX BLVD TO LAHUGH DR	\$55	\$46,172.16
sys28515	LAFAYETTE DR	2	CL	840	CALDONIA ST NORTH BACK TO CALDONIA ST	\$55	\$46,216.05
RH00101678697	FERGISS DR	2	CL	842	TERRACE ST TO CHAMBERS ST	\$55	\$46,287.53
sys32278	LAREDO AVE	2	CL	844	JOHN ROSS RD TO LAREDO CT	\$55	\$46,407.69
sys59922	NOTRE DAME AVE	2	CL	848	S TERRACE RD SOUTH TO A POINT	\$55	\$46,664.27
sys15857	RIDGESIDE RD	2	CL	849	GERMANTOWN RD TO MIDLAND PK	\$55	\$46,676.36
sys28562	ENSGIN RD	2	CL	851	ASTERWOOD TO ORCHARD TERR	\$55	\$46,784.01
sys10743	HOWARD CIR	2	CL	854	SUNSET AVE TO TALLEY RD	\$55	\$46,946.49
sys28638	FRENCH ST	2	CL	856	PINE HILL RD TO GOVERNMENT RD	\$55	\$47,067.26
RH97040474414	KEY WEST AVE	2	CL	863	STATE LINE RD SOUTH TO A POINT	\$55	\$47,477.22
sys20834	WINSTON RD	2	CL	864	MCFARLAND AVE EAST TO DENNIS ST	\$55	\$47,500.32
sys32270	CONNELLY LN	2	CL	865	BENNETT RD TO BALES AVE	\$55	\$47,578.74
sys28149	THOMAS LN	2	CL	871	PAGE RD TO DEAD END	\$55	\$47,929.55
sys2558	SUNNYSIDE AVE	2	CL	874	W 50TH TO W 53RD ST	\$55	\$48,095.36
sys8520	MAPLE LN	2	CL	875	TO MAPLE CREEK LN	\$55	\$48,117.20
sys15682	GAY ST	2	CL	879	TUNNEL BLVD TO DEAD END	\$55	\$48,336.70
sys1548	LAUREL LN	2	CL	884	MARK LN TO PROSPECT WAY	\$55	\$48,620.85
RH97040474418	HOLLYWOOD DR	2	CL	887	STATE LINE RD SOUTH TO A POINT	\$55	\$48,796.93
sys9199	GLENDON DR	2	CL	889	LERCH ST TO CONNER ST	\$55	\$48,873.70
sys21911	OLIVE ST	2	CL	891	HICKORY ST TO ORCHARD KNOB AVE	\$55	\$48,980.26
sys3261	SHELBY CIR	2	CL	893	EDWIN LN EAST TO CIRCLE	\$55	\$49,123.29
sys10320	CHICKASAW DR	2	CL	898	NORTH OF CIRCLE TO SHAWNEE TR	\$55	\$49,385.50
sys28521	N OAKWOOD RD	2	CL	905	LAKEVIEW DR TO ORCHAR TERR	\$55	\$49,762.17
sys24198	N. GREENLEAF	2	CL	914	PIPPIN ST TO DAYTON BLVD	\$55	\$50,250.02
sys9724	NORMA DR	2	CL	915	CIRCLE ANDERSON AVE TO ANDERSON AVE	\$55	\$50,303.35
sys24714	RIVERHILLS CIR	2	CL	922	FROM 8" TO EXISTING 8"	\$55	\$50,728.91
sys28588	OAK ST	2	CL	929	SCHOOL ST TO GROVE ST	\$55	\$51,095.66
sys10830	N LOVELL AVE	2	CL	931	CLUB DR TO OLD MISSION RD	\$55	\$51,221.82
sys4594	DUPONT ST	2	CL	931	TOMBRAS AVE TO RIDGE AVE	\$55	\$51,309.67
sys31240	DORRIS ST	2	CL	933	PARK DR TO E 38TH ST	\$55	\$51,580.86
sys28489	EAST HUNTINGTON RD	2	CL	938	GREENFIELD DR TO ROSWELL RD	\$55	\$51,618.78
sys9306	KEMP RD	2	CL	939	TALLEY RD TO HARGRAVES AVE	\$55	\$51,779.48
sys4750	FRUITLAND DR	2	CL	941	RINGGOLD RD TO CLEMONS RD	\$55	\$51,813.31
sys21490	WOOD AVE	2	CL	942	FIRST TRINITY AVE TO FAIRLEIGH ST	\$55	\$51,819.20
sys3206	KOONS RD	2	CL	942	CLOSE RD TO HONEYCUTT LN	\$55	\$52,416.71
sys6771	12TH AVE	2	CL	953	E 32ND ST TO E 34TH ST	\$55	\$52,681.23
sys7504	MASON DR	2	CL	958	E VIEW DR TO SEMINOLE DR	\$55	\$52,710.67
sys29016	E LAKEVIEW ST	2	CL	958	STATE LINE RD TO LAKEVIEW DR	\$55	\$52,864.03
sys5189	WEAVER ST	2	CL	961	ALTAMAHA ST TO DEAD END	\$55	\$52,867.90
sys27180	OAKLAND TERR	2	CL	961	CRISMAN ST TO EUCLID AVE	\$55	\$52,931.18
sys27077	LAKE HILLS CIR	2	CL	962	IN DEAD END	\$55	\$53,192.56
sys9383	LOVELL AVE	2	CL	967	ANDERSON AVE TO DELAWARE AVE	\$55	\$53,347.89
sys9738	BELVOIR AVE	2	CL	970	FOUNTAIN AVE TO BELVOIR CIR	\$55	\$53,391.21
sys9627	LARRY LN	2	CL	971	GLEASON DR NW TO A POINT	\$55	

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sys3162	RUGBY PL	2	CL	973	MAPLEWOOD LN TO CLAYTON AVE	\$55	\$53,528.99
sys9501	BARBARA LN	2	CL	975	CONNER ST TO MAYFAIR AVE	\$55	\$53,616.32
SSYS2838	E 51ST ST	2	CL	977	COVINGTON ST TO WALTHALL ST	\$55	\$53,720.72
RH02100180628	MOORE ST	2	CL	979	FROM MIDLAND PK N TO WILSONIA AVE	\$55	\$53,851.27
sys4262	S. LOVELL AVE.	2	CL	980	MARYLAND DR TO DELAWARE DR	\$55	\$53,894.42
sys22007	ADDISON RD	2	CL	981	HARRISON PK TO DENHAM RD	\$55	\$53,954.75
sys15816	HARGRAVES AVE	2	CL	982	FROM MIDLAND PK N TO WILSONIA AVE	\$55	\$53,984.71
sys28590	N ELMWOOD ST	2	CL	985	CHESTNUT ST TO ELMWOOD ST	\$55	\$54,158.62
sys9330	MILLER DR	2	CL	985	HONEYSUCKLE DR TO DEAD END	\$55	\$54,159.36
sys23916	SIMS DR	2	CL	986	LULLWATER RD SOUTH TO A POINT	\$55	\$54,206.47
sys28492	MILLPORT RD	2	CL	986	E HUNTINGTON RD TO ROSWELL RD	\$55	\$54,225.17
sys28596	ELMWOOD ST	2	CL	987	S/O N ELMWOOD ST	\$55	\$54,302.13
sys28248	SCHOOL ST	2	CL	997	PARK ST WEST TO ALLEY WAY	\$55	\$54,829.67
sys16554	COLLINS CIR	2	CL	997	DRUMMOND DR SOUTH TO A POINT	\$55	\$54,851.32
sys28498	BLANCHE ST	2	CL	1012	CLAIR ST SOUTH TO 6" MAIN	\$45	\$45,532.55
sys4556	WATERHOUSE AVE	2	CL	1015	STATE LINE RD NORTH TO A POINT	\$45	\$45,666.55
sys7222	CATHEY LN	2	CL	1021	DONALDSON RD TO PINELLAS LN	\$45	\$45,957.63
sys28294	APOLLO LN	2	CL	1025	SCENIC HWY WEST TO A POINT	\$45	\$46,106.19
sys16558	LESLIE LN	2	CL	1025	N MOORE RD TO WOODMORE VIEW CIR	\$45	\$46,106.86
RH97041774565	SPRINGVALE RD	2	CL	1025	RINGGOLD RD SOUTH TO CREEK	\$45	\$46,134.33
sys24118	MERCER ST	2	CL	1028	LUPTON ST	\$45	\$46,262.20
sys3818	RUGBY PL	2	CL	1029	S SEMINOLE DR TO MAPLEWOOD LN	\$45	\$46,308.17
sys28639	HARGRAVE AVE	2	CL	1039	PINEHILL RD TO GOVERNMENT RD	\$45	\$46,744.73
sys3814	CLAYTON AVE	2	CL	1054	S SEMINOLE DR TO RUGBY PL	\$45	\$47,445.44
sys9430	SWEETBRIER AVE	2	CL	1055	LONSDALE DR TO MAYFAIR AVE	\$45	\$47,487.88
sys28715	WOOD NYMPH TR	2	CL	1056	FROM 8" MAIN NORTH TO FAIRY DELL TR	\$45	\$47,536.64
sys2373	LYNCHBURG ST	2	CL	1058	CENTRAL AVE WEST TO A POINT	\$45	\$47,611.12
sys2324	W 51ST ST	2	CL	1067	CENTRAL AVE WEST TO A POINT	\$45	\$48,016.22
sys27383	JOYCE AVE	2	CL	1072	DAYTON BLVD TO WOODBURY ST	\$45	\$48,233.31
sys16716	MARK TWAIN CIR	2	CL	1077	IN CIRCLE EAST OF RAE TR	\$45	\$48,464.55
sys28398	LONGVIEW DR	2	CL	1094	MISSING LINK TR WEST TO A POINT	\$45	\$49,238.66
sys15976	LARRY DR	2	CL	1107	IN CIRCLE	\$45	\$49,800.89
sys28388	SIGNAL DR	2	CL	1109	WOODLAND DR CIRCLE TO WOODLAND DR	\$45	\$49,905.35
sys9749	MT BELVOIR DR	2	CL	1112	INDIAN TR TO DEAD END	\$45	\$50,029.32
RH96100872800	HEDGEWOOD DR	2	CL	1116	LULLWATER RD TO HENDRICKS BLVD	\$45	\$50,199.69
sys23521	LYNDA DR	2	CL	1119	AT LYNDA CIR SW OF ALDEN AVE	\$45	\$50,341.15
sys10125	N HOWELL AVE	2	CL	1120	W MISSION BLVD SOUTH TO 8"	\$45	\$50,384.79
sys19071	WAYNE AVE	2	CL	1121	LADD AVE TO EXISTING 8"	\$45	\$50,444.74
sys10325	LAWS AVE	2	CL	1122	OLD MISSION DR TO COLONIAL DR	\$45	\$50,488.41
sys904	RINGGOLD RD	2	CL	1123	BALES AVE TO WIMBERLY LN	\$45	\$50,526.76
sys3282	KINGWOOD DR	2	CL	1125	DANIEL DR TO GREENSLAKE RD	\$45	\$50,644.04
sys4362	CONNELL ST	2	CL	1127	MCBRIEN RD TO ALTAMAHA ST	\$45	\$50,726.21
SSYS28784	GARDEN AVE	2	CL	1143	CAMPBELL ST TO MAPLE ST	\$45	\$51,413.84
sys28993	W CIRCLE DR	2	CL	1149	CLAIRE ST TO LAKEVIEW DR	\$45	\$51,695.35
sys23921	GLENHILL CIR	2	CL	1151	GLENHILL DR TO MARTIN RD	\$45	\$51,795.77
sys4560	CASTLEBERRY AVE	2	CL	1156	MARIETTA ST SOUTH TO STATE LINE RD	\$45	\$52,027.34
sys4353	MARION AVE	2	CL	1158	MCBRIEN RD TO ALTAMAHA ST	\$45	\$52,101.04

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys4920	BELVOIR DR	2	CL	1161	SWEETBRIER AVE TO MARLBORO AVE	\$45	\$52,229.32
RH97070975391	E 43RD ST	2	CL	1170	PRIVATE EASMENT TO 15TH AVE	\$45	\$52,628.41
sys27765	NARRAGANSETTE AVE	2	CL	1171	DAYTON BLVD TO FITEHAVEN DR	\$45	\$52,711.95
sys27895	MABRY PL	2	CL	1173	LAVONIA AVE TO DEAD END	\$45	\$52,767.21
sys9385	MADONNA AVE	2	CL	1176	S MOORE RD WEST TO 8" MAIN	\$45	\$52,908.03
sys10095	BELVOIR CREST DR	2	CL	1180	FROM 6" MAIN AT BELVOIR TERR BACK TO 2"	\$45	\$53,103.93
RH97040974475	LINDEN HALL	2	CL	1188	FROM 8" MAIN TO DEAD END	\$45	\$53,456.93
sys4821	WOODARD CIR	2	CL	1198	FROM SWOPE DR TO SWOPE DR	\$45	\$53,927.89
sys3173	SUNRISE TER	2	CL	1203	CLAYTON AVE TO JOHN ROSS RD	\$45	\$54,138.38
sys9412	AMHURST AVE	2	CL	1213	LONSDALE DR TO MAYFAIR AVE	\$45	\$54,583.14
sys28177	VERO BEACH AVE	2	CL	1220	STATE LINE RD SOUTH TO A POINT	\$45	\$54,888.36
sys27787	CRESTVIEW DR	2	CL	1221	NORTH TO A POINT	\$45	\$54,946.81
sys9915	WANDO DR	2	CL	1221	FROM N TERRACE TO N TERRACE	\$45	\$54,963.00
sys28731	MARVIN LN	2	CL	1224	LULA LAKE WEST TO DEAD END	\$45	\$55,083.71
sys4604	EAST RIDGE DR	2	CL	1230	FROM WONDER DR TO CIRCLE	\$45	\$55,338.11
sys9565	S ST MARKS AVE	2	CL	1242	SUNBEAN AVE TO MAYFAIR AVE	\$45	\$55,884.15
sys3768	CHIPPENWASH DR	2	CL	1243	TAMARACK TR TO WAKULLA DR	\$45	\$55,923.00
sys28206	CENTER ST	2	CL	1249	LAKEVIEW DR TO BARKER ST	\$45	\$56,199.28
RH00011077801	SYLVAN ST	2	CL	1252	DALLAS RD TO FOREST AVE	\$45	\$56,319.34
sys5181	MAXWELL RD	2	CL	1269	NORTH AND SOUTH OF CLEMONS RD	\$45	\$57,124.54
sys3216	KINGWOOD CIR	2	CL	1283	DANIEL DR TO GREENSLAKE RD	\$45	\$57,721.99
sys28540	PINE ST	2	CL	1288	TO HICKORY ST	\$45	\$57,942.11
sys23719	ASHMORE AVE	2	CL	1312	MEMORIAL AVE NORTH TO A POINT	\$45	\$59,020.65
sys11217	NELSON RD	2	CL	1316	CHICKAMAUGA RD TO PERRY ST	\$45	\$59,235.29
sys5066	SLANTON DR	2	CL	1320	MC CALL RD TO HOLIDAY DR	\$45	\$59,415.46
sys4266	WENTWORTH AVE	2	CL	1322	YALE ST TO SPRING CREEK RD	\$45	\$59,495.98
sys13732	PRIVATE EASEMENT	2	CL	1341	E 5TH ST TO MCCALLIE AVE	\$45	\$60,344.83
sys4671	LAZARD ST	2	CL	1349	MCBRIEN RD TO PRIGMORE RD	\$45	\$60,693.71
sys4645	EALY RD	2	CL	1354	JOHN ROSS RD TO COURT DR	\$45	\$60,930.19
sys28098	MIDWAY AVE	2	CL	1361	PAQUETTE ST TO CROSS ST	\$45	\$61,241.22
sys4845	N SMITH RD	2	CL	1376	RINGGOLD RD TO MCCALL RD	\$45	\$61,916.66
sys28714	WOOD NYMPH TR	2	CL	1382	FAIRY DELL TR TO FAIRY DELL TR	\$45	\$62,201.37
sys28160	YUCCA DR	2	CL	1404	STATE LINE RD SOUTH TO A POINT	\$45	\$63,178.43
sys28470	NITUNA AVE	2	CL	1428	BISKOKO AVE SOUTH TO LAKEVIEW DR	\$45	\$64,253.16
sys4464	DUPONT ST	2	CL	1434	TOMBRAS AVE TO MC BRIEN RD	\$45	\$64,524.15
sys6820	WYNNWOOD RD	2	CL	1440	RINGGOLD RD TO ARDIAN TR	\$45	\$64,777.57
sys28240	SCHOOL ST	2	CL	1464	MAGNOLIA ST TO HUDSON ST	\$45	\$65,899.85
sys4459	SPRIGGS ST	2	CL	1476	MCBRIEN RD TO PRIGMORE RD	\$45	\$66,406.83
sys28128	CATOOSA ST	2	CL	1490	OLD CARLINE RD TO MAGNOLIA ST	\$45	\$67,031.72
RH97031074022	SPRIGGS ST	2	CL	1492	TOMBRAS AVE TO MC BRIEN RD	\$45	\$67,124.37
sys28254	PARK ST	2	CL	1492	LAKEVIEW DR SOUTH TO A POINT	\$45	\$67,148.21
sys4345	SPRINGVALE RD	2	CL	1539	STATE LINE RD NORTH TO CREEK	\$45	\$69,251.61
sys29099	EVERGLADES BLVD	2	CL	1540	STATE LINE RD SOUTH TO A POINT	\$45	\$69,308.68
sys15919	MERRYDALE DR	2	CL	1540	FROM BROWNWOOD DR EAST TO CIRCLE	\$45	\$69,310.55
sys5067	LANSDALE RD	2	CL	1569	MCCALL RD TO HOLIDAY DR	\$45	\$70,607.46
sys29106	BISCAYNE BLVD	2	CL	1597	STATE LINE RD SOUTH TO A POINT	\$45	\$71,845.44
sys1736	ROBIN HOOD TR	2	CL	1667	LULA LAKE RD TO FLEETWOOD DR	\$45	\$75,033.44

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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sys27527	PAULMAR DR	2	CL	1709	TO ORMAND DR	\$45	\$76,921.96
sys28688	PRINCESS TR	2	CL	1742	LULA LAKE RD TO FLEETWOOD DR	\$45	\$78,386.91
sys5578	HILTON DR	2	CL	1812	TO JENNINGS LANE TO GRIFFITH DR	\$45	\$81,540.33
sys549	WELDON DR	2	CL	1823	WIMBERLY LN TO RINGGOLD RD	\$45	\$82,036.08
sys28496	CLAIR ST	2	CL	1878	ROSA ST EAST TO A POINT	\$45	\$84,491.30
sys29081	GREEN LAKE CIR	2	CL	1880	STATE LINE RD TO WELLS LN	\$45	\$84,600.43
sys28598	WARREN ST	2	CL	2006	OAK ST TO HUDSON ST	\$45	\$90,259.72
sys28273	BELL AVE	2	CL	2029	STATE LINE RD TO GREENS LAKE RD	\$45	\$91,305.15
sys28471	NAWAKAWA AVE	2	CL	2053	STATE LINE TO MONANAW AVE	\$45	\$92,397.36
sys28602	MCAFFEE RD	2	CL	2255	HWY 27 TO CROSS ST	\$45	\$101,493.03
sys28992	CLAIR ST	2	CL	3056	TO EAST CIRCLE DR TO LAKEVIEW DR	\$45	\$137,521.25
DB96062171747	SHINGLE RD	2	CL	3622	MILITARY RD TO SCENIC HWY TO WINTER VIEW	\$45	\$163,002.81
sys9945	LARCHMONT AVE	2	CI	93	FROM KENWOOD AVE N TO A POINT	\$55	\$5,087.51
sys21403	DAISY ST	2	CI	156	FROM TAYLOR ST W TO A POINT	\$55	\$8,565.32
sys11909	BENHAM DR	2	CI	159	W/O WILLIAMS DR	\$55	\$8,741.95
sys14755	ALLEY	2	CI	202	BETWEEN FORTWOOD AND VINE ST	\$55	\$11,114.13
sys21016	RIVERVIEW RD	2	CI	209	E/O LAWRENCE ST	\$55	\$11,506.63
SSYS3611	14TH AVE	2	CI	214	SOUTH OF THOMAS BLVD	\$55	\$11,748.48
sys14837	5TH ST	2	CI	288	FROM FORTWOOD PL W TO A POINT	\$55	\$15,852.29
sys9947	LARCHMONT AVE	2	CI	316	FROM KENWOOD AVE N TO A POINT	\$55	\$17,380.62
sys15331	ARLINGTON AVE	2	CI	318	N FROM MILNE ST	\$55	\$17,467.70
sys6284	PARKER LN	2	CI	427	I-24	\$55	\$23,464.26
sys30311	CHANDLER AVE	2	CI	448	BETWEEN W 38TH AND W 40TH ST	\$55	\$24,620.59
sys14756	ALLEY WAY	2	CI	450	BETWEEN FORTWOOD AND VINE ST	\$55	\$24,777.32
sys19600	ROSEWOOD AVE	2	CI	504	BETWEEN COLBY ST AND MANNING ST	\$55	\$27,692.92
sys24209	KNOLLWOOD HILL DR	2	CI	651	N FROM SEMI CIR	\$55	\$35,787.10
sys31856	E 17TH ST	2	CI	667	FROM JEFFERSON ST E TO MADISON ST	\$55	\$36,712.14
sys1597	FAIRY TR	2	CI	906	FROM FLEETWOOD DR E TO SYLVAN DR	\$55	\$49,846.56
sys6203	MASSENGALE RD	2	CI	909	W FROM ISBELL RD TO DEAD END	\$55	\$49,969.50
sys1516	MITCHELL DR	2	CI	1010	FROM EAST AND WEST BLVD	\$45	\$45,447.59
sys25264	SOUTH ACCESS RD	2	CI	1062	AT HWY 58	\$45	\$47,784.41
SSYS3785	E 47TH ST	2	CI	1309	FROM WALTHALL ST E TO EXISTING 6"	\$45	\$58,913.85
sys2737	TENNESSEE AVE	2	CI	1321	FROM W 56TH ST S TO STATE LINE	\$45	\$59,449.00
sys23783	JAMES AVE	2	CI	1576	FROM MEMORIAL DR S TO RIDGEWOOD	\$45	\$70,921.41
sys18641	TWIN BROOK DR	2	2.25 GV	196	EXISTING 6" TO 6" TO COMPLETE CIRCLE	\$55	\$10,783.94
sys26745	PINEVIEW LN	2	2.25 GV	277	IRWIN DR S TO END OF CUL-DE-SAC	\$55	\$15,239.97
sys18263	PRESTON CIR	2	2.25 GV	281	EXISTING 2.25 S TO EXISTING 6" TO COMPLETE	\$55	\$15,445.09
sys22909	CHICKAMAUGA AVE	2	2.25 GV	283	EXISTING 2.25 W TO A POINT	\$55	\$15,568.29
sys11512	DELBERT LN	2	2.25 GV	310	N CONCORD RD W TO DEAD END	\$55	\$17,068.00
sys11520	LISA GAYE LN	2	2.25 GV	333	N CONCORD RD E TO KIPPY DR	\$55	\$18,337.03
sys11353	MARTHA AVE	2	2.25 GV	338	EXISTING 8" E OF MICHELLE DR N TO A POINT	\$55	\$18,593.74
sys5663	PRIMROSE LN	2	2.25 GV	550	ENTRY RD SE TO END OF CUL-DE-SAC	\$55	\$30,274.36
sys18266	PRESTON CIR	2	2.25 GV	581	EXISTING 6" E TO EXISTING 2.50	\$55	\$31,964.63
sys6185	OLD KELLY FERRY RD	2	2.25 GV	669	EXISTING 8" NE TO EXISTING 2.50	\$55	\$36,821.61
sys27064	PECKINPAUGH DR	2	2.25 GV	679	JERSEY PIKE SE TO DEAD END	\$55	\$37,328.68
sys6388	OLD KELLY FERRY RD	2	2.25 GV	698	W KELLEYS FERRY RD W TO EXISTING 2.50	\$55	\$38,396.79
sys18591	TWIN BROOK DR	2	2.25 GV	819	EXISTING 6" E TO EXISTING 2.50	\$55	\$45,031.82

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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sys6183	ASTER AVE	2.25 GV		830	EXISTING 8" NE TO EXISTING 2.50	\$55	\$45,648.63
sys25386	JARRETT RD	2.25 GV		856	UPSHAW DR NE TO END OF CUL-DE-SAC	\$55	\$47,085.10
sys6077	CENTER ST	2.25 GV		975	I-24 W TO ISBELLE RD	\$55	\$53,605.78
sys27124	HARDLEY DR	2.25 CL		88	EXISTING 2.25 W TO CECILIA DR	\$55	\$4,866.57
sys11513	PAULINE CIR	2.25 CL		126	EXISTING 6" E TO DEAD END	\$55	\$6,907.05
sys17540	BALLARD PL	2.25 CL		127	VADEN DE N TO A POINT	\$55	\$7,010.83
sys26824	MINK PLACE DR	2.25 CL		132	EXISTING 2.25 NE TO OAKWOOD DR	\$55	\$7,268.55
sys27010	FALCON LN	2.25 CL		144	ROSEMARY DR N TO DEAD END	\$55	\$7,914.02
sys27071	HANCOCK RD	2.25 CL		153	JERSEY PI W TO A POINT	\$55	\$8,390.00
sys26176	DUMAC RD	2.25 CL		155	EXISTING 6" W TO A POINT	\$55	\$8,509.58
sys26078	HAL DR	2.25 CL		160	EXISTING 2.25 IN UNMAED ST E OF CAR TE	\$55	\$8,792.44
sys12471	SURRY CIR	2.25 CL		164	EXISTING 6" W TO A POINT	\$55	\$9,003.10
sys27012	HANSLEY DR	2.25 CL		167	EXISTING 6" W TO A POINT	\$55	\$9,163.63
sys25285	SKYLARK TR	2.25 CL		171	FLEETA LN W TO A POINT	\$55	\$9,388.60
sys26122	HEISKELL DR	2.25 CL		184	EXISTING 6" NE TO DEAD END	\$55	\$10,143.27
sys26919	MELINDA DR	2.25 CL		185	EXISTING 6" W TO A POINT	\$55	\$10,150.43
sys18633	I-75	2.25 CL		186	TO EXISTING 8" IN STANDIFER GAP RD	\$55	\$10,251.01
sys12479	KATHRYN CT	2.25 CL		192	CARAN DR S TO A POINT	\$55	\$10,549.52
sys26690	MIMOSA CIR	2.25 CL		192	EXISTING 6" SE TO DEAD END	\$55	\$10,567.07
sys22802	CHIEF VAN LN	2.25 CL		204	EXISTING 2.25 S TO DEAD END	\$55	\$11,238.69
sys18549	MERLIN DR	2.25 CL		207	EXISTING 2.25 S TO EXISTING 2.25	\$55	\$11,364.20
sys25909	BRENTWOOD DR	2.25 CL		208	ROBINWOOD DR E TO JERSEY PIKE	\$55	\$11,432.75
sys5662	WINDY LN	2.25 CL		224	SHADY FORD RD W TO A POINT	\$55	\$12,331.89
sys18782	EDGEFIELD DR	2.25 CL		233	EXISTING 6" E TO A POINT	\$55	\$12,822.54
sys26000	MARCO CT	2.25 CL		245	MARCO CIR NW TO DEAD END	\$55	\$13,467.73
sys17681	FRANKS RD	2.25 CL		246	SKYLINE DR E TO A POINT	\$55	\$13,513.20
sys26991	WEIGELIA DR	2.25 CL		266	CORDELIA LN W TO DEAD END	\$55	\$14,623.52
sys11330	SARATOGA LN	2.25 CL		275	6" @ BUNKER HILL DR W TO A POINT	\$55	\$15,140.89
sys18569	EDGEFIELD LN	2.25 CL		280	EDGEFIELD DR S TO DEAD END	\$55	\$15,410.16
sys26828	TERRA VISTA DR	2.25 CL		283	EXISTING 6" SE TO DEAD END	\$55	\$15,552.05
sys11522	LESLIE DELL LN	2.25 CL		297	ROWEWOOD DR E TO A POINT	\$55	\$16,313.61
sys26207	FRANCES DR	2.25 CL		308	EXISTING 6" N TO DEAD END	\$55	\$16,953.32
sys25113	JAMES DR	2.25 CL		311	EXISTING 2.25 ACROSS PARCEL TO JAMES LN	\$55	\$17,110.47
sys18334	GUINEVERE PARKWAY	2.25 CL		312	EXISTING 2.25 S TO PETERSON DR	\$55	\$17,137.78
sys27070	HANCOCK RD	2.25 CL		315	SHOREWOOD DR E TO A POINT	\$55	\$17,315.99
sys26634	LAKE HAVEN DR	2.25 CL		321	EXISTING 8" NW TO DEAD END	\$55	\$17,638.59
sys12392	MORRIS HILL RD	2.25 CL		337	IGOU GAP RD S TO EXISTING 2.25	\$55	\$18,529.36
sys26052	LARA LN	2.25 CL		345	KINGS RD E TO DEAD END	\$55	\$18,957.22
sys26935	HARBOR HILLS LN	2.25 CL		345	HARBOR HILLS LN NE TO DEAD END	\$55	\$18,977.97
sys26792	WINNIESPANN RD	2.25 CL		356	RANGER LN E TO END OF CUL-DE-SAC	\$55	\$19,605.56
sys26887	KINGSBRIDGE DR	2.25 CL		357	LAKE HAVEN DR W TO YORKTOWN RD	\$55	\$19,650.12
sys12486	REDWOOD DR	2.25 CL		371	ROYAL DR S TO JENKINS RD	\$55	\$20,406.02
sys12485	OAKEN TR	2.25 CL		371	JENKINS RD NE TO ROYAL DR	\$55	\$20,407.82
sys27004	ROSEMARY DR	2.25 CL		383	ROSEMARY DR N TO EXISTING 2"	\$55	\$21,042.99
sys26173	MINK PLACE DR	2.25 CL		385	DUMAC RD N TO EXISTING 2.25	\$55	\$21,196.03
sys25288	PRIVATE ALLEY	2.25 CL		386	OFF FLEETA LN N TO A POINT	\$55	\$21,232.36
sys25898	SYLVIA CIR	2.25 CL		394	JERSEY PIKE W TO CUL-DE-SAC	\$55	\$21,689.55

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys27031	BASSWOOD DR	2.25 CL	CL	402	NAUTICAL WAY N TO EXISTING 2.25	\$55	\$22,106.89
sys12475	CROWN COURT LN	2.25 CL	CL	410	EXISTING 6" N TO DEAD END	\$55	\$22,529.36
sys6153	NEW CUMMINGS RD	2.25 CL	CL	424	EXISTING 1" E TO A POINT	\$55	\$23,320.00
sys5797	RED ROBIN LN	2.25 CL	CL	428	CLEARWOOD RD NE TO CUL-DE-SAC	\$55	\$23,513.69
sys26766	SUNSET DR	2.25 CL	CL	433	DELAINE LN N TO CUL-DE-SAC	\$55	\$23,788.69
sys608	MERLIN DR	2.25 CL	CL	435	EXISTING 2.25 NE TO EXISTING 2.25	\$55	\$23,931.85
sys6135	ASTER AVE	2.25 CL	CL	438	CUMMINGS HWY N TO KELLY'S FERRY RD	\$55	\$24,080.64
sys17846	EDGMON DR	2.25 CL	CL	441	EDGMON FORREST LN W TO 2.25	\$55	\$24,265.10
sys26121	TOMBEN DR	2.25 CL	CL	445	HEISKELL DR NW TO CUL-DE-SAC	\$55	\$24,480.29
sys26722	ELLER RD	2.25 CL	CL	446	EXISTING 8" N TO A POINT	\$55	\$24,540.19
sys25897	BONNY LAKE LN	2.25 CL	CL	446	JERSEY PIKE W TO CUL-DE-SAC	\$55	\$24,544.93
sys22992	OCOEE ST	2.25 CL	CL	451	HICKORY VALLEY RD E TO A POINT	\$55	\$24,803.36
sys26009	MEADOWBROOK TR	2.25 CL	CL	458	EXISTING 6" N TO CUL-DE-SAC	\$55	\$25,213.36
sys26879	HARBOR HILLS RD	2.25 CL	CL	465	EXISTING 6" S TO CUL-DE-SAC	\$55	\$25,584.56
sys18775	GOFORTH LN	2.25 CL	CL	469	STANDIFER GAP RD S TO A POINT	\$55	\$25,820.50
sys25266	HAVEN ACRES LN	2.25 CL	CL	474	HARRISON PIKE W TO END OF CUL-DE-SAC	\$55	\$26,092.89
sys25112	JAMES DR	2.25 CL	CL	486	EXISTING 6" W TO END OF CUL-DE-SAC	\$55	\$26,755.66
sys26769	DELAINE LN	2.25 CL	CL	487	SUNSET DR E TO END OF CUL-DE-SAC	\$55	\$26,770.66
sys26687	MIMOSA CIR	2.25 CL	CL	492	EXISTING 6" S TO EXISTING 8"	\$55	\$27,059.55
sys11929	DOUGLAS DR	2.25 CL	CL	492	EXISTING 8" N TO CUL-DE-SAC	\$55	\$27,078.14
sys12378	STEPHEN LN	2.25 CL	CL	495	TERRI LYNN DR W TO END OF CUL-DE-SAC	\$55	\$27,249.51
sys26829	MARY HALL LN	2.25 CL	CL	500	TRICIA DR N TO END OF CUL-DE-SAC	\$55	\$27,476.99
sys12340	SPRING VIEW LN	2.25 CL	CL	502	RAY JO CIR SE TO EXISTING 2.50	\$55	\$27,589.53
sys26791	RANGER LANE	2.25 CL	CL	503	CUL-DE-SAC TO CUL-DE-SAC @ WINNIESPAN	\$55	\$27,660.47
sys26090	TERRA VISTA DR	2.25 CL	CL	511	JERSEY PIKE NW TO DEAD END	\$55	\$28,083.36
sys17857	JULIE LN	2.25 CL	CL	515	MAE DELL RD E TO CUL-DE-SAC	\$55	\$28,331.77
sys26905	BOWMAN LN	2.25 CL	CL	522	WEBB RD W TO CUL-DE-SAC	\$55	\$28,727.82
sys12467	KING COURT LN	2.25 CL	CL	529	MORRIS HILL RD E TO A POINT	\$55	\$29,075.09
sys26723	HARLEY LN	2.25 CL	CL	532	ELLER RD E THEN S TO EXISTING 1.25	\$55	\$29,239.75
sys17538	BOTSFORD DR	2.25 CL	CL	534	EXISTING 6" E TO DEAD END	\$55	\$29,392.20
sys11663	PANAVISTA LN	2.25 CL	CL	536	CONCORD RD E TO CUL-DE-SAC	\$55	\$29,500.25
sys17524	EMORY DR	2.25 CL	CL	537	MEHARRY DR E TO DEAD END	\$55	\$29,511.98
sys11092	LOLITA LN	2.25 CL	CL	549	EXISTING 6" S TO END OF CUL-DE-SAC	\$55	\$30,178.60
sys12363	LELA LN	2.25 CL	CL	552	EXISTING 6" S TO END OF CUL-DE-SAC	\$55	\$30,379.00
sys22886	CHIEF VAN LN	2.25 CL	CL	556	DEERFOOT DR W THEN S TO CUL-DE-SAC	\$55	\$30,589.16
sys18739	ROBIN LN	2.25 CL	CL	557	ROBIN DR SW TO END OF CUL-DE-SAC	\$55	\$30,660.94
sys11296	TERRA VERDE DR	2.25 CL	CL	562	GENOA DR N TO IGOU GAP RD	\$55	\$30,925.37
sys17561	BALLARD DR	2.25 CL	CL	564	MAE DELL RD W TO CUL-DE-SAC	\$55	\$31,025.70
sys26790	ENTERPRISE LN	2.25 CL	CL	569	FROM CUL-DE-SAC N TO DEAD END	\$55	\$31,304.03
sys12001	RADMOOR LN	2.25 CL	CL	572	RADMOOR DR S TO EXISTING 6"	\$55	\$31,453.19
sys18187	RANCH HILLS DR	2.25 CL	CL	581	SHALLOWFORD RD NE TO EXISTING 2.50	\$55	\$31,931.62
sys18186	RODEO DR	2.25 CL	CL	586	SHALLOWFORD RD NE TO CORRAL TR	\$55	\$32,208.80
sys23067	COUNTRY LN	2.25 CL	CL	594	BONNY OAKS DR N TO DEAD END	\$55	\$32,684.07
sys11248	KENMOOR TER	2.25 CL	CL	594	KENMOOR DR SE TO GUNBARREL RD	\$55	\$32,685.28
sys18152	RANCH HILLS DR	2.25 CL	CL	600	NORTH TO DEAD END	\$55	\$32,989.33
sys26001	MARCO CIR	2.25 CL	CL	601	MEADOWBROOK TR TO MARCO CT	\$55	\$33,077.23
sys27097	LOCKINGTON LN	2.25 CL	CL	611	BELLBROOK DR S TO MAYWOOD LN	\$55	\$33,609.00

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
 TENNESSEE-AMERICAN WATER COMPANY

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys26993	BASSWOOD DR	2.25 CL	CL	612	FROM BASSWOOD LN W TO EXISTING 2.50	\$55	\$33,647.03
sys6128	ASTER AVE	2.25 CL	CL	621	CUMMINGS HWY SW TO EXISTING 2.50	\$55	\$34,176.70
sys26062	ARBOR PLACE LN	2.25 CL	CL	623	EXISTING 6" SW TO DEAD END	\$55	\$34,286.16
sys17234	BELLA VISTA DR	2.25 CL	CL	627	JARNIGAN RD S TO PALERMO DR	\$55	\$34,470.13
sys18343	MERLIN DR	2.25 CL	CL	640	TRISTRAM RD S TO EXISTING 2.50	\$55	\$35,197.00
sys5458	WOODFINCH TR	2.25 CL	CL	641	RAVENCREST DR THEN N TO DEAD END	\$55	\$35,265.95
sys5432	SWALLOW LN	2.25 CL	CL	657	RAVENCREST DR THEN SW TO WREN CIR	\$55	\$36,156.92
sys27047	HADLEY DR	2.25 CL	CL	659	CECILIA DR E TO LAGUANA DR	\$55	\$36,267.12
sys22889	BYRD AVE	2.25 CL	CL	668	EXISTING 8" NE TO BONNY OAKS DR	\$55	\$36,745.25
sys25107	JAMES LN	2.25 CL	CL	673	EXISTING 6" W TO END OF CUL-DE-SAC	\$55	\$37,016.92
sys11514	ESTRALITA CIR	2.25 CL	CL	674	EXISTING 6" S TO CUL-DE-SAC	\$55	\$37,046.65
sys26039	MERRYWOOD LN	2.25 CL	CL	674	WEBB RD W TO CUL-DE-SAC	\$55	\$37,092.57
sys18788	GLENFIELD LN	2.25 CL	CL	677	EDGEFIELD DR E TO MIDFIELD DR	\$55	\$37,260.53
sys18155	ARROYO DR	2.25 CL	CL	698	RANCH HILL DR E TO CORRAL TR	\$55	\$38,400.93
sys27085	FAIRBLUFF LN	2.25 CL	CL	700	MAYWOOD LN NE TO RIGHTON LN	\$55	\$38,494.59
sys18153	CORRAL TR	2.25 CL	CL	706	RANCH HILL DR E TO EXISTING 2.50	\$55	\$38,829.60
sys17850	SUNCREST LN	2.25 CL	CL	708	CUL-DE-SAC IN PINE MANOR N TO A POINT	\$55	\$38,928.11
sys26086	CAR TERRACE	2.25 CL	CL	710	BEVERLY KAY DR W THEN S TO HAL DR	\$55	\$39,067.42
sys26055	TEAKWOOD DR	2.25 CL	CL	718	EXISTING 2" N TO EXISTING 6"	\$55	\$39,494.04
sys18154	CORRAL TR	2.25 CL	CL	728	EXISTING 2.50 TO CUL-DE-SAC	\$55	\$40,048.37
sys22807	CHERWOOD LN	2.25 CL	CL	741	LIGHTFOOT MILL RD NW TO CUL-TO-SAC	\$55	\$40,734.66
sys11200	ROCKY TR	2.25 CL	CL	753	ROWEWOOD DR TO EXISTING 6" @ ROCKY TR	\$55	\$41,394.52
sys23088	MAROMEDE LN	2.25 CL	CL	756	GRANDA DR SW TO END OF CUL-DE-SAC	\$55	\$41,558.68
sys26209	FAYE AVE	2.25 CL	CL	769	FRANCES DE N TO A POINT	\$55	\$42,298.03
sys25846	LAKE HAVEN LN	2.25 CL	CL	776	LAKE HAVEN DR SW TO CUL-DE-SAC	\$55	\$42,661.94
sys22382	THUNDERBIRD DR	2.25 CL	CL	776	ARROWROCK RD W TO DEERFOOT DR	\$55	\$42,686.73
sys11089	KIPPY DR	2.25 CL	CL	810	ROCKY TR N TO LESLIE DELL LN	\$55	\$44,555.14
sys26996	OPAL DR	2.25 CL	CL	819	EAST ON OPAL THEN N TO CORDELIA LN	\$55	\$45,028.48
sys5459	RAVENCREST DR	2.25 CL	CL	842	SANCTUARY RD N TO END OF CUL-DE-SAC	\$55	\$46,316.88
sys17895	DAVID LN	2.25 CL	CL	845	EXISTING 6" NE TO EXISTING 6"	\$55	\$46,450.93
sys12472	SURRY CIR	2.25 CL	CL	861	CROWN COURT LN SW TO SURRY CIR	\$55	\$47,337.19
sys5796	CLEARWOOD RD	2.25 CL	CL	937	HURRICAN CREEK W TO SHADY FORK DR	\$55	\$51,510.96
sys26715	LANTANA LN	2.25 CL	CL	955	HWY 58 NW TO CUL-DE-SAC	\$55	\$52,502.33
sys18337	GUINEVERE PARKWAY	2.25 CL	CL	961	SHALLOWFORD RD SE TO CUL-DE-SAC	\$55	\$52,864.07
sys12290	PETERSON DR	2.25 CL	CL	961	EXISTING 2.50 S TO CAMELOT LN	\$55	\$52,875.69
sys18550	MERLIN DR	2.25 CL	CL	963	CAMELOT LN N TO EXISTING 2.50	\$55	\$52,943.78
sys18786	DALEFIELD LN	2.25 CL	CL	991	EDGEFIELD DR SE TO EXISTING 6"	\$55	\$54,527.63
sys12002	RADMOOR CIR	2.25 CL	CL	1089	RADMOOR DR NW THEN BACK E TO RADMOOR DR	\$45	\$49,016.42
sys27118	PAW TRAIL	2.25 CL	CL	1098	EXISTING 2" SOUTH TO REDLANDS DR	\$45	\$49,422.31
sys18328	LANCELOT LN	2.25 CL	CL	1155	PETERSON DR SW BACK TO PETERSON DR	\$45	\$51,957.68
sys27111	BRENTWOOD DR	2.25 CL	CL	1166	RIGHTON LN SE TO LOCKINGTON LN	\$45	\$52,460.58
sys5605	KARR ST	2.25 CL	CL	1243	LINDSAY ST NW TO JULIAN RD	\$45	\$55,920.56
sys12468	COLONIAL PARKWAY DR	2.25 CL	CL	1262	MORRIS HILL RD TO END OF CUL-DE-SAC	\$45	\$56,789.99
sys18007	ARLENA CIR	2.25 CL	CL	1279	SHEPHERD RD BACK TO SHEPHERD RD	\$45	\$57,547.39
sys17847	EDGMON FOREST DR	2.25 CL	CL	1418	EXSITING 6" SW TO END OF CUL-DE-SAC	\$45	\$63,814.40
sys11245	BEACON LN	2.25 CL	CL	1429	BUNKER HILL DR E TO EXISTING 6"	\$45	\$64,299.31
sys12488	FERNWOOD CIR	2.25 CL	CL	1882	ROYAL DR TO CIRCLE BACK TO ROYAL DR	\$45	\$84,697.01

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
sys12327	RAY JO CIR	2.25 CL	CL	2048	MORRIS HILL RD TO CIR BACK TO MORRIS HILL	\$45	\$92,155.03
sys6099	CENTER ST	2.25 CI	CI	280	MOSS AVE W TO EXISTING 2.25	\$55	\$15,404.38
sys6213	MYRTLE AVE	2.25 CI	CI	731	EXISTING 6" NE TO LILAC AVE	\$55	\$40,228.08
sys17177	LARKWOOD LN	2.25 CI	CI	820	BROOKHAVEN CIR SE TO BROOKHAVEN DR	\$55	\$45,105.99
sys12612	KINSEY DR	2.25 CI	CI	871	EXISTING 8" N TO CUL-DE-SAC	\$55	\$47,899.27
sys6212	FERN AVE	2.25 CI	CI	967	KELLY'S FERRY RD W TO HEMLOCK CIR	\$55	\$53,157.64
sys6073	ROSE CIR	2.25 CI	CI	1026	EXISTING 12" IN CUMMINGS HWY N TO POINT	\$45	\$46,177.15
sys27032	HOLIDAY HILLS CIR	2.25 CI	CI	1108	EXISTING 6" W TO NAUTICAL WAY	\$45	\$49,856.02
sys6078	CENTER ST	2.25 CI	CI	1161	EXISTING 2.25 NW THEN SW TO A POINT	\$45	\$52,230.51
RH97042374577	NEW CUMMINGS RD	2.25 CI	CI	1813	EXISTING 12" W TO A POINT	\$45	\$81,605.26
sys6447	GARDEN RD	2.25 CI	CI	1943	CUMMINGS HWY S TO EXISTING 2.25	\$45	\$87,455.08
sys6008	CUMMINGS HWY	2.25 CI	CI	3068	CUMMINGS COVE DR W TO W HILLS DR	\$45	\$138,056.65
sys6445	GARDEN RD	2.25 CI	CI	3271	EXISTING 2.25 NE TO EXISTING 2.25	\$45	\$147,200.10
sys12908	ANDREA DR	2.5 PVC	PVC	893	BOYDSTON RD N TO DEADEND	\$55	\$49,139.61
sys12919	BONNEVILLE CIR	2.5 PVC	PVC	1456	EXISTING 2.50 TO COMPLETE CIR	\$45	\$65,532.11
sys1536	FAIRVIEW AVE	2.5 GV	GV	345	EXISTING 2" SE TO HUNT ST	\$55	\$18,951.51
sys25295	RHODA LN	2.5 CL	CL	186	EXISTING 6" W TO END OF CUL-DE-SAC	\$55	\$10,217.91
sys31234	CAIN AVE	2.5 CL	CL	272	W 43RD ST SW TO HAGER ST	\$55	\$14,944.61
sys25403	WILKESVIEW DR	2.5 CL	CL	767	CROSS RD S TO A POINT	\$55	\$42,199.14
sys20238	SPEARS AVE	2.5 CI	CI	280	WERT ST N TO MATLOCK ST	\$55	\$15,407.88
sys32353	EASEMENT	GV	GV	188	BROAD ST W TO A POINT	\$55	\$10,352.84
sys30148	BROAD ST	GV	GV	343	W 26TH ST N TO EXISTING 3"	\$55	\$18,877.04
sys16001	GILLESPIE RD	GV	GV	426	HOYT ST S TO EXISTING 3"	\$55	\$23,448.05
sys30140	BROAD ST	GV	GV	448	W 25TH ST N TO A POINT	\$55	\$24,657.22
RH99083076988	GILLESPIE RD	GV	GV	557	CENTRAL AVE NE TO EXISTING 3"	\$55	\$30,635.02
sys30135	BROAD ST	CL	CL	733	W 26TH ST S TO W 27TH ST	\$55	\$40,299.01
sys24215	DAYTON BLVD	CL	CL	71	3" BLOW-OFF @ N GREENLEAF	\$55	\$3,879.30
sys16990	RIDGEMONT DR	CL	CL	205	RICHARD AVE W TO A POINT	\$55	\$11,252.44
SSYS3707	E 36TH ST	CL	CL	483	15TH AVE W TO A POINT	\$55	\$26,552.22
sys7179	S END AVE	CL	CL	489	SUNSET TERR TO CREST RD	\$55	\$26,891.77
sys16044	ROCKWAY AVE	CL	CL	1053	OVER ST SW TO SHALLOWFORD RD	\$45	\$47,402.93
sys16045	ROCKWAY AVE	CL	CL	1125	HOYT ST S TO OVER ST	\$45	\$50,611.20
sys11905	CHICKAMAUGA RD	CL	CL	1284	AIKEN RD S TO 8" IN BASS RD	\$45	\$57,762.08
sys8995	30TH ST	CI	CI	188	13TH AVE E TO EXISTING 3"	\$55	\$10,345.84
sys8684	30TH ST	CI	CI	417	15TH AVE NW TO EXISTING 3"	\$55	\$22,920.96
sys16003	GILLESPIE RD	CI	CI	530	SHALLOWFORD RD N TO CENTRAL AVE	\$55	\$29,131.58
RH00012477246	EASEMENT	CI	CI	1162	EXISTING 3" E TO BERKLEY CIR	\$45	\$52,302.20
sys18885	BURGESS RD	PVC	PVC	214	EXISTING 12" N TO A POINT	\$55	\$11,797.05
RH01082879905	MEHARRY DR	PVC	PVC	781	FROM TALLADEGA AVE NE TO SHEPHERD RD	\$55	\$42,972.75
sys33063	MARKET ST	GV	GV	139	ALLEY OFF W 7TH ST TO A POINT	\$55	\$7,660.81
sys1848	W 46TH ST	GV	GV	295	CAIN AVE NW TO A POINT	\$55	\$16,241.86
sys31417	W 19TH ST	GV	GV	326	WILLIAMS ST SE TO LONG ST	\$55	\$17,929.00
sys31898	LINDSAY ST	GV	GV	333	MCCALLIE AVE S TO E 8TH ST	\$55	\$18,301.59
sys31418	W 19TH ST	GV	GV	334	COWART ST E TO WILLIAMS ST	\$55	\$18,345.98
sys30456	SCENIC HWY	GV	GV	1148	SHINGLE RD S TO EXISTING 6" MAIN	\$45	\$51,673.85
sys30192	SHINGLE RD	GV	GV	2632	MILITARY RD S TO S. SCENIC HWY	\$45	\$118,423.17
RH01040478982	N CHAMBERLAIN	DI	DI	156	EAST TO A POINT NEAR GLENWOOD DR	\$55	\$8,583.13

SMALL DIAMETER MAINS (NON-PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Replacement Cost/ft</u>	<u>Total Cost</u>
SSYS3525	S CREST RD	4	DI	185	S CREST RD WEST TO A POINT	\$55	\$10,185.17
sys5401	EAGLE MERE RD	4	DI	187	COUNCIL FIRE DR SE TO DEADEND	\$55	\$10,293.46
sys5475	OLD TASSEL TR	4	DI	219	COUNCIL FIRE DR S TO CUL-D-SAC	\$55	\$12,061.78
sys3953	WESTSIDE DR	4	CL	119	EXISTING 8" W TO A POINT	\$55	\$6,556.25
RH99020576097	E 36TH ST	4	CL	133	13TH AVE N TO EXISTING 4" MAIN	\$55	\$7,331.54
sys20292	BERKLEY CIR	4	CL	145	BERKLEY CIR PUMP STATION	\$55	\$7,984.20
sys18395	SHALLOWFORD RD	4	CL	149	EXISTING 12" NW TO A POINT	\$55	\$8,205.93
SSYS3708	E 36TH ST	4	CL	212	12TH AVE SE TO EXISTING 4" MAIN	\$55	\$11,666.61
sys26193	HWY 153	4	CL	222	EXISTING 12" N TO VAULT @ EASEMENT	\$55	\$12,232.40
sys5613	JAMES DR	4	CL	299	PLAXCO DR S TO KARR ST	\$55	\$16,453.79
sys31889	ALLEY WAY	4	CL	304	WEST OF HOUSTON ST	\$55	\$16,739.13
SSYS2869	E 36TH ST	4	CL	401	E DODDS AVE SE TO 12TH AVE	\$55	\$22,047.12
sys3311	MCHANN DR	4	CL	418	WIMBERLY LNN TO EXISTING 2" MAIN	\$55	\$22,984.70
sys31577	UNIVERSITY ST	4	CL	428	ML KING BLVD S TO E 10TH ST	\$55	\$23,526.61
sys31903	E 8TH ST	4	CL	434	LINDSAY ST SE TO HOUSTON ST	\$55	\$23,887.83
sys31902	E 8TH ST	4	CL	437	HOUSTON ST SE TO MABLE ST	\$55	\$24,017.15
sys31646	MARKET ST	4	CL	479	W 3RD ST N TO W 2ND ST	\$55	\$26,329.69
sys13588	SHALLOWFORD RD	4	CL	623	RINGSIDE RD N TO EXISTING 4" MAIN	\$55	\$34,245.12
sys33110	W 8TH ST	4	CL	649	CHESTNUT ST E TO MARKET ST	\$55	\$35,673.24
sys3301	BALES AVE	4	CL	688	RINGGOLD RD S TO SULLIVAN AVE	\$55	\$37,831.43
sys18804	MIDFIELD DR	4	CL	856	EDGEFIELD DR S TO GLENFIELD LN	\$55	\$47,066.56
sys30536	E BROW BLVD	4	CL	1019	PARK ST S TO EXISTING 6" MAIN	\$45	\$45,858.64
sys24505	HALL ST	4	CL	1492	OAK KNOLL DR NE TO LUPTON DR	\$45	\$67,147.45
sys5919	SHADY FORK RD	4	CL	2066	HURRICANE CK SW TO SWANSON RAG	\$45	\$92,948.39
sys16042	SHALLOWFORD RD	4	CI	214	LEDFORD ST E TO TUNNEL BLVD	\$55	\$11,756.53
sys32352	BROAD ST	4	CI	289	EXISTING 4" MAIN IN BROAD S TO A POINT	\$55	\$15,872.92
sys32152	BROAD ST	4	CI	567	19TH ST NE TO EXISTING 6" MAIN	\$55	\$31,194.71
sys32825	E 4TH ST	4	CI	600	MARKET ST E TO WALNUT ST	\$55	\$32,982.63
sys31997	E 4TH ST	4	CI	638	WALNUT ST E TO HIGH ST	\$55	\$35,111.46
sys32351	BROAD ST	4	CI	668	W 19TH ST SE TO W 21ST ST	\$55	\$36,750.09
sys31971	EAST 5TH ST	4	CI	931	GEORGIA AVE E TO HOUSTON ST	\$55	\$51,186.49
sys266	PARKER LN	4	CI	1141	ISBELLE RD EAST TO A POINT	\$45	\$51,340.93
sys5496	MICHELLE DR	4	CI	1142	FRAWLEY RD NW TO MARTHA AVE	\$45	\$51,407.63
sys16043	SHALLOWFORD RD	4	CI	1162	EXISTING 4" TO E TO LEDFORD ST	\$45	\$52,310.23
sys28994	VILLAND ST	4	CI	1760	S. CREST RD EAST TO ROSA ST	\$45	\$79,183.51
sys28503	ROSA ST	4	CI	2693	CLAIRE ST SE TO A POINT	\$45	\$121,201.24
TOTALS				996,250.66			\$52,666,647.74

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys11971	GUILD DR	1	GV	420	FROM NICKLIN DR EAST TO BENHAM DR.	8	\$8,407		\$8,407
sys28632	GROVE ST	1	GV	441	FROM CHESTNUT ST. WEST TO EXISTING 2" MAIN	8	\$8,828		\$8,828
sys28245	GROVE ST	1	GV	529	FROM CHESTNUT ST EAST TO HUDSON STREET	8	\$10,585		\$10,585
sys11108	NORTHSIDE DR	1	GV	592	FROM HICKORY VALLEY RD W TO A POINT	6	\$11,850		\$11,850
RH99021278866	NORTHSIDE DR	1	GV	668	FROM HICKORY VALLEY RD E TO A POINT	8&12	\$13,351		\$13,351
sys17598	FISK AVE	1	GV	1085	FROM AIRPORT CONN. RD. EAST TO SPELMAN ST	6&8	\$21,696		\$21,696
sys11878	BENHAM DR	1	GV	1239	FROM BROWN RD SOUTH TO BROWN RD	8	\$24,782		\$24,782
sys11859	CENTRAL DR	1	GV	1704	FROM LEE HIGHWAY SOUTH TO NELSON RD	8	\$25,562	\$23,430	\$48,992
sys11450	WILLIAMS DR/BENHAM	1	GV	1846	A CIRCLE FROM E BRAINERD RD TO NICKLIN BACK TO	8(3/4)	\$36,913		\$36,913
RH02092580580	MAE DELL RD	1.25	GV	1061	FROM PINE MANOR DR S TO EXIST 6"	6&8	\$21,226		\$21,226
RH02092580579	HICKORY VALLEY RD	1.25	GV	2240	FROM LEE HIGHWAY N TO SHALLOWFORD	6	\$44,804		\$44,804
sys6158	ROWDEN RD	1.5	GV	393	FROM ASTER AVE E TO WAUHATCHIE PK	12	\$7,850		\$7,850
sys27565	E VIEW CRT	1.5	GV	736	FROM DAYTON BLVD W TO CRERAR ST	8	\$14,716		\$14,716
sys28250	HUDSON ST	1.5	GV	1312	FROM NASON ST S/E TO SCHOOL ST	6	\$26,237		\$26,237
sys9458	BRAINERD RD	2	GV	70	S OF BROOKS AVE	6	\$1,403		\$1,403
sys1807	UNNAMED ST	2	GV	75	ENTRANCE TO LKMT STATION	8	\$1,490		\$1,490
sys17562	MAE DELL RD	2	GV	81	NORTH OF BALLARD RD	16	\$1,627		\$1,627
sys6793	E VIEW DR	2	GV	97	INTERSECTION OF 30TH ST AND S CREST RD	6"	\$1,948		\$1,948
sys14182	LYERLY ST	2	GV	113	SOUTH OF CHAMBERLAIN AVE	6	\$2,264		\$2,264
sys8478	EASEMENT	2	GV	115	MCCALLIE SCHOOL	30	\$2,296		\$2,296
sys13267	E 8TH ST	2	GV	119	EAST OF O NEAL ST	8	\$2,387		\$2,387
sys19545	MAY ST	2	GV	123	N/O OF ZIEGLER ST	24	\$2,455		\$2,455
SSYS3478	DIVINE AVE	2	GV	125	FROM HAMILL RD TO DEAD END	8	\$2,495		\$2,495
sys20990	HIGHLAND DR	2	GV	138	AT SUMMER ST	16	\$2,767		\$2,767
sys15081	O'NEAL ST	2	GV	140	S/O 3RD ST	20	\$2,798		\$2,798
SSYS28844	OAK ST	2	GV	147	FROM LOGAN AVE WEST TO A POINT	30	\$2,946		\$2,946
sys14487	HOLTZCLAW AVE	2	GV	161	FROM MCCALLIE AVE N TO A POINT	6	\$3,226		\$3,226
sys8278	WOODWARD AVE	2	GV	162	S/O E 14TH ST	30	\$3,234		\$3,234
sys16053	OVER ST	2	GV	180	W/O TUNNEL BLVD	16	\$3,591		\$3,591
SSYS28750	LAKE AVE	2	GV	183	W/O CENTER ST	8	\$3,663		\$3,663
SSYS2878	E 37TH ST	2	GV	188	FROM DODDS AVE EAST TO A POINT	16	\$3,755		\$3,755
sys14336	CENTRAL AVE	2	GV	190	NORTH OF VINE ST TO A POINT	8	\$3,792		\$3,792
sys20823	STERLING AVE	2	GV	196	E/O MCFARLAND AVE	24	\$3,911		\$3,911
sys31030	BROAD ST	2	GV	199	BETWEEN WATSON ST AND 33RD ST	8	\$3,989		\$3,989
sys9346	HONEYSUCKLE DR	2	GV	204	AT SPRINGCREEK RD	8	\$4,083		\$4,083
sys14484	HOLTZCLAW AVE	2	GV	206	N FROM DUNCAN AVE TO A POINT	6	\$4,118		\$4,118
sys30229	35TH ST	2	GV	208	E/O ST ELMO AVE	8	\$4,167		\$4,167
sys2483	ALABAMA AVE	2	GV	216	NORTH OF 54TH ST	6	\$4,327		\$4,327
sys16007	OVERLOOK AVE	2	GV	221	FROM LASALLE ST S TO A POINT	6	\$2,213	\$6,078	\$8,291
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SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys19643	ELINOR ST	2	GV	225	W/O TREMONT ST	20	\$4,499		\$4,499
sys7196	ANDERSON AVE	2	GV	237	E/O GERMANTOWN RD	8	\$4,750		\$4,750
sys14437	FAIRVIEW AVE	2	GV	248	IN EASEMENT S OF E 11TH ST	8	\$4,952		\$4,952
sys7746	E SEMINOLE DR	2	GV	254	FROM N SEMINOLE DR	6	\$5,089		\$5,089
sys2616	ALABAMA AVE	2	GV	255	N OF W 55TH ST	8	\$5,092		\$5,092
sys32701	HOUSTON ST	2	GV	266	S/O VINE ST	8&20	\$5,324		\$5,324
sys20178	SPEARS AVE	2	GV	272	N/O WERT ST	2.25	\$5,444		\$5,444
sys1583	STEPHENSON AVE	2	GV	278	S/O DOGWOOD LN	12&6	\$5,553		\$5,553
sys2078	W 46TH ST	2	GV	305	FROM ALABAMA AVE TO ST ELMO AVE	6	\$6,099		\$6,099
sys9707	MAPLEWOOD	2	GV	307	BETWEEN PINELAWN AVE AND SPRING GARDEN LN	8&12	\$6,134		\$6,134
sys10133	PINEWOOD AVE	2	GV	315	FROM TUNNEL BLVD W TO DELWOOD	8"	\$6,293		\$6,293
SSYS28809	LAKE AVE	2	GV	332	W STATE ST W TO CENTER ST	16	\$6,630		\$6,630
sys7637	BUCKLEY ST	2	GV	335	ANDERSON AVE NE TO VANCE AVE	30	\$6,697		\$6,697
SSYS2897	E 39TH ST	2	GV	352	12TH AVE W TO DODDS AVE	8	\$7,040		\$7,040
sys19153	TREMONT AVE	2	GV	359	ORR ST NE T A POINT	20	\$7,188		\$7,188
sys22446	NORTH HAWTHORNE S	2	GV	360	TAP ON 8" SE TO SUPPLY FIRE SERVICE	8	\$7,200		\$7,200
sys19427	DELMONT ST	2	GV	360	N CHATT PUMP STATION CON TO 2"	12	\$7,202		\$7,202
SSYS28447	LINER ST	2	GV	380	RICHMOND AVE SE TO ANDREWS AVE	8	\$7,592		\$7,592
sys13572	E SEMINOLE DR	2	GV	380	PINEWOOD AVE SW TO A POINT	6&8	\$7,610		\$7,610
SSYS3477	CALHOUN AVE	2	GV	392	E 40TH ST S TO A POINT	12	\$7,834		\$7,834
sys21298	ORCHARD KNOB	2	GV	405	BETWEEN APPLING ST AND DAISY ST	8	\$8,107		\$8,107
sys16176	WINDMERE DR	2	GV	413	LYNNCREST DR NW TO A POINT	8(3/4)	\$6,203	\$5,678	\$11,881
SSYS28858	HENDERSON AVE	2	GV	416	CEDAR ST N TO EXISTING 8"	8	\$8,324		\$8,324
RH01021478742	ELMWOOD DR	2	GV	441	BEASON DR N TO A POINT	8	\$8,823		\$8,823
SSYS28459	CENTER ST	2	GV	468	W GORDON AVE S TO LAKE AVE	8	\$9,366		\$9,366
SSYS3476	CALHOUN AVE	2	GV	475	E 40TH ST N TO EXISTING 2"	12&16	\$9,500		\$9,500
sys6675	E 14TH ST	2	GV	497	DODDS AVE E TO RINGGOLD RD	16	\$9,938		\$9,938
SSYS3474	WALTHALL AVE	2	GV	508	E 39TH ST NW TO A POINT	24	\$10,163		\$10,163
sys30779	CHURCH ST	2	GV	516	W 39TH ST SW TO DEAD END	8	\$10,321		\$10,321
sys28721	CHICKAMAUGA TR	2	GV	536	PRIVATE EASEMENT S OF WOOD NYMPH	8	\$10,716		\$10,716
SSYS28460	WEST GORDON AVE	2	GV	558	CENTER ST W TO DAVIS ST	8	\$11,151		\$11,151
sys7850	KIRBY AVE	2	GV	562	UNION AVE SW TO A POINT	30	\$11,231		\$11,231
sys16055	OVER ST	2	GV	568	HIGHLAND JARVIS AVE E TO BELMEADE	8	\$11,355		\$11,355
sys16177	LYNNCREST DR	2	GV	568	EXISTING 2" W TO EXISTING 8"	8	\$11,362		\$11,362
sys14821	SISKIN ST	2	GV	580	EXISTING 2" S TO E 3RD ST	6(3/4)	\$8,694	\$7,975	\$16,669
sys6532	HIGHLAND PARK AVE	2	GV	580	EXISTING 2" S PASS E 21ST ST	24	\$11,605	\$29,115	\$40,720
sys14818	SISKIN ST	2	GV	605	E 3RD ST SE TO A POINT	36(1/8)	\$12,492		\$12,492
RH96052088371	S HICKORY ST	2	GV	625	E 28TH ST S TO EXISTING 2"	24	\$12,660		\$12,660
sys10330	VISTA DR	2	GV	633	GLENDON DR N TO 2" IN AUDUBON DR	16	\$12,931		\$12,931
sys6123	CUMMINGS HWY	2	GV	647	BROWNS FERRY RDE TO DREW RD	8&12	\$14,378		\$14,378
sys8412	PARK AVE	2	GV	719	E 18TH ST SW TO EXISTING 2"	24	\$3,607	\$29,782	\$33,389
RH96091772686	WINDSOR CT	2	GV	722	ROSEMONT DR SE TO EXISTING 2"	8(1/4)	\$14,791		\$14,791
SSYS28747	W GORDON AVE	2	GV	740	WILLIAMS ST E TO DAVIS ST	8	\$15,212		\$15,212
sys20820	STERLING AVE	2	GV	761	CARROLL LN SW TO EXISTING 2"	8			

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys28137	CHAMBERS ST	2	GV	787	EMERSON ST W TO 2" CHICK. W TO 2"	6(1/2)	\$7,867	\$21,642	\$29,509
sys16192	HILLDALE DR	2	GV	841	SHALLOWFORD RD E TO EXISTING 2"	8	\$16,817		\$16,817
sys15888	CRESCENT PARK	2	GV	851	@ LINE OF TOWN OF RIDGESIDE TO CIR	8(1/4)	\$4,261	\$35,104	\$39,365
sys29036	PATTEN RD	2	GV	880	ROCK CITY TR NE TO EXISTING 2"	6(1/2)	\$8,802	\$24,200	\$33,002
sys10186	DELWOOD	2	GV	972	PINEWOOD AVE SW WOODLAWN DR TO POINT	8"	\$19,433		\$19,433
sys17459	CLARK AVE	2	GV	1100	SHAW S ON RANKIN ST E TO AIRPORT CON	6(1/4)	\$5,495	\$45,375	\$50,870
sys30600	LONGVIEW ST	2	GV	1236	WAUHATCHIE PIKE S TO W 39TH ST	6&16(1/2)	\$24,723		\$24,723
BH96051099871	MCFARLAND AVE	2	GV	1392	STEGAL ST S TO A POINT	8(3/4)	\$20,885		\$20,885
sys1572	STEPHENSON AVE	2	GV	1768	WALDRON ST S TO EXISTING 2"	6&8	\$35,356		\$35,356
sys10157	CRESTWAY	2	GV	2081	W ON MONTVIEW THEN N TO ROGERS RD	8	\$41,627		\$41,627
sys9448	TACOA CIR	2	GV	2186	W MISSION BLVD SW TO BRAINERD RD	8	\$43,725		\$43,725
sys10964	VISTON AVE	2	CL	72	AT SPRING CREEK RD	8	\$1,447		\$1,447
sys16062	HIGHLAND JARVIS AVE	2	CL	73	SOUTH TO A POINT	8	\$1,468		\$1,468
SSYS4157	ROSSVILLE BLVD	2	CL	78	AT STATE LINE	8&12	\$1,564		\$1,564
sys15875	RIDGEVALE AVE	2	CL	79	AT BOOTH RD	8	\$1,577		\$1,577
sys2163	HALSEY ST	2	CL	81	WEST OF CENTRAL AVE	8	\$1,627		\$1,627
sys8936	ROSSVILLE BLVD	2	CL	85	SOUTH OF E 32ND ST	8	\$1,700		\$1,700
sys9478	ANDERSON AVE	2	CL	86	FROM S ST MARKS AVE TO MCBRIEN RD	8	\$1,724		\$1,724
sys7054	ROSSVILLE BLVD	2	CL	87	FROM DORRIS ST S TO A POINT	8	\$1,747		\$1,747
sys10319	CHICKASAW DR	2	CL	89	AT SHAWNEE TR	8	\$1,780		\$1,780
SSYS3085	ROSSVILLE BLVD	2	CL	91	FROM E 37TH ST N TO A POINT	8	\$1,825		\$1,825
SSYS3559	6TH AVE	2	CL	96	AT ROSSVILLE BLVD	8	\$1,919		\$1,919
sys6870	SEMINOLE DR	2	CL	100	S/O BROCKHAVEN RD	16	\$1,995		\$1,995
sys8934	ROSSVILLE BLVD	2	CL	100	N/O E 31ST ST	8	\$2,008		\$2,008
sys30319	OAKLAND AVE	2	CL	101	S/O W 42ND ST	12	\$2,012		\$2,012
sys7666	E 35TH ST	2	CL	104	AT ROSSVILLE BLVD	8	\$2,082		\$2,082
sys14952	CENTRAL AVE	2	CL	105	FROM BLACKFORD ST N TO A POINT	30&24	\$2,108		\$2,108
sys8935	ROSSVILLE BLVD	2	CL	107	N/O E 31ST ST	8	\$2,149		\$2,149
sys23399	DAYTON BLVD	2	CL	117	HEDGEWOOD DR	8	\$2,333		\$2,333
sys3209	JOHN ROSS RD	2	CL	124	WEST OF EALY RD	8	\$2,478		\$2,478
SSYS3031	ROSSVILLE BLVD	2	CL	131	E 41ST ST	8	\$2,627		\$2,627
sys6981	ROSSVILLE BLVD	2	CL	139	E 28TH ST	8	\$2,781		\$2,781
SSYS3030	ROSSVILLE BLVD	2	CL	139	E 41ST ST	8	\$2,782		\$2,782
SSYS28837	WEST CREST RD	2	CL	142	N/O SUNSET DR	8	\$2,848		\$2,848
sys23846	MT CREEK RD	2	CL	144	GLENDAL DR	6	\$2,886		\$2,886
sys20409	CRUTCHFIELD ST	2	CL	148	W/O RIVERSIDE DR	12	\$2,950		\$2,950
sys28559	VILLAND ST	2	CL	148	FROM CLAIRE ST S TO A POINT	8	\$2,954		\$2,954
sys11020	MARLBORO AVE	2	CL	149	FOUNTAIN AVE EXT S TO A POINT	12	\$2,973		\$2,973
sys4905	MARYLAND DR	2	CL	155	W/O OF MARYLAND CIR	12"	\$3,095		\$3,095
SSYS28893	ELLIS RD	2	CL	158	W/O MCFARLAND AVE	12	\$3,169		\$3,169
sys15887	CRESCENT PARK	2	CL	160	OFF OF TUNNEL BLVD	8	\$3,192		\$3,192
sys13301	3RD ST	2	CL	161	FROM DODDS AVE EAST TO AN 8" MAIN	12	\$3,219		\$3,219
sys3322	JOHN ROSS RD	2	CL	172	INTERSECTION OF BENNETT RD	6	\$3,443		\$3,443
sys14880	CENTRAL AVE	2	CL	175	FROM BLACKFORD ST N TO A POINT	24&30	\$3,496		\$3,496
sys20805	HERITAGE LANDING DR	2	CL	176	PRIVATE EASEMENT	8	\$3,527		\$3,527
sys2729	LEE AVE	2	CL	179	W/O PULASKI ST	12	\$3,584		\$3,584

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Paralleled by</u>	<u>Cost of Service Transfers</u>	<u>Cost of Main Replacement</u>	<u>Total Cost</u>
SSYS2851	EASEMENT	2	CL	185	N/O 43RD ST	8(1/2)	\$1,857		\$6,944
SSYS4141	ROSSVILLE BLVD	2	CL	196	BETWEEN E 48TH AND 49TH ST	24	\$3,921	\$5,087	\$3,921
sys9526	HAZELWOOD AVE	2	CL	198	AT REES AVE	8	\$3,962		\$3,962
sys9459	BRainerd RD	2	CL	203	BETWEEN PISGAH AVE AND BROOKS AVE	8	\$4,061		\$4,061
sys4903	MARLBORO AVE	2	CL	205	FROM MARYLAND DR N TO FOUNTAIN AVE	12	\$4,107		\$4,107
sys21329	CURTIS ST	2	CL	210	S/O APPLING ST	24	\$4,203		\$4,203
sys10728	PROVENCE ST	2	CL	213	FROM ROSEVIEW AVE NORTH TO A POINT	8	\$4,260		\$4,260
SSYS4142	STATE ST	2	CL	214	S/O E 49TH ST	24	\$4,288		\$4,288
sys16729	JUANDALE DR	2	CL	218	FROM WOODBROOK DR N TO ROLLINGWOOD DR	8	\$4,356		\$4,356
sys3758	E VIEW DR	2	CL	221	AT END OF MAIN	8	\$4,412		\$4,412
sys4513	WELWORTH AVE	2	CL	221	FROM YALE ST W TO A POINT	8	\$4,412		\$4,412
sys7996	LINDBERG AVE	2	CL	223	AT HWY 27	8	\$4,470		\$4,470
sys10511	S CHOCKTAW RD	2	CL	224	FROM PARKDALE AVE	8	\$4,479		\$4,479
SSYS3618	E 47TH ST	2	CL	229	W/O 12TH AVE	8	\$4,573		\$4,573
sys5183	ALTAMAHA ST	2	CL	230	S/O WEAVER ST	8	\$4,598		\$4,598
sys30858	E 19TH ST	2	CL	233	FROM MADISON ST W TO A POINT	8	\$4,657		\$4,657
sys3739	MISSIONAIRE AVE	2	CL	234	E/O JOHN ROSS RD	8	\$4,675		\$4,675
sys10453	S CHOCKTAW RD	2	CL	235	FROM PARKDALE AVE	8	\$4,694		\$4,694
sys20454	APPLING ST	2	CL	238	FROM BEECH AVE EAST	6	\$4,766		\$4,766
sys27751	TACOMA ST	2	CL	240	S/O WOODROW AVE	8	\$4,804		\$4,804
sys31082	W 40TH ST	2	CL	241	AT PIROLA ST	12	\$4,821		\$4,821
sys2627	ST ELMO AVE	2	CL	241	S/O W 54TH ST	12	\$4,824		\$4,824
sys20193	VALENTINE CIR	2	CL	244	FROM FAIRMOUNT AVE	8	\$4,877		\$4,877
sys10226	MIDLAND PK	2	CL	244	FROM HARGRAVES AVE TO MOORE ST	8	\$4,886		\$4,886
sys4444	ALTAMAHA ST	2	CL	245	BETWEEN LESLIE ST AND WEAVER ST	8	\$4,896		\$4,896
sys7384	OLD RINGGOLD RD	2	CL	246	S SEMINOLE DR E TO A POINT	8	\$4,912		\$4,912
sys19430	FOREST AVE	2	CL	252	S OF MANNING ST	6	\$5,035		\$5,035
sys19734	STRINGER ST	2	CL	255	FROM HOUSER ST W TO DEAD END	6	\$5,103		\$5,103
sys3266	BALES AVE	2	CL	255	AT CONNELLY LN	6	\$5,108		\$5,108
sys16589	HENDERSON DR E	2	CL	260	N TO A POINT	8	\$5,200		\$5,200
sys9935	S ST MARKS AVE	2	CL	263	FROM MAYFAIR AVE S TO A POINT	8	\$5,257		\$5,257
sys30402	W 37TH ST	2	CL	263	FROM BROAD ST E TO A POINT	8	\$5,265		\$5,265
sys10152	MIDLAND PK	2	CL	263	BETWEEN HENDERSON DR E AND W	8	\$5,268		\$5,268
sys2615	ST ELMO AVE	2	CL	266	N/O W 55TH ST	12	\$5,322		\$5,322
sys4511	YALE ST	2	CL	273	BETWEEN WENTWORTH AND WELLWORTH AVE	8	\$5,450		\$5,450
RH97090375552	ROSSVILLE BLVD	2	CL	273	S OF E 50TH	8812	\$5,452		\$5,452
sys15634	DELRIIDGE DR	2	CL	273	FROM N CREST RD TO RIDGEMENT DR	8	\$5,460		\$5,460
SSYS3438	E 40TH ST	2	CL	278	BETWEEN WALTHAM AVE AND CALHOUN AVE	16	\$5,563		\$5,563
sys10298	AUDUBON DR	2	CL	280	FROM GERMANTOWN RD W TO A POINT	16	\$5,594		\$5,594
sys2168	HALSEY ST	2	CL	284	W/O DORSEY ST	8	\$5,670		\$5,670
sys21542	AMOS DR	2	CL	285	S/O CRUTCHFIELD ST	6	\$5,709		\$5,709
sys2147	LEE AVE	2	CL	289	N/O PULASKI ST	10	\$5,780		\$5,780
sys22860	ADDISON RD	2	CL	289	AT BONNY OAKS DR	8(1/2)	\$2,899	\$7,947	\$10,846
sys16946	FOX DR	2	CL	299	W/O MCCORD AVE	8	\$5,971		\$5,971
sys16931	GREENWOOD RD	2	CL	299	FROM HIGH ST N TO THROUGH ST	8	\$5,976		\$5,976
SSYS28857	CEDAR ST	2	CL	309	INDIAN AVE TO HENDERSON AVE	8	\$6,171		\$6,171

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Paralleled by</u>	<u>Cost of Service Transfers</u>	<u>Cost of Main Replacement</u>	<u>Total Cost</u>
sys6957	14TH AVE	2	CL	309	N/O RINGGOLD RD	8	\$6,189		\$6,189
sys10238	MIDLAND PK	2	CL	311	BETWEEN MOORE ST AND WOODMORE LN	8	\$6,221		\$6,221
sys14166	LYERLY ST	2	CL	312	FROM MCCALLIE AVE S TO DUNCAN AVE	30	\$6,237		\$6,237
sys8986	IN ALLEY	2	CL	312	BETWEEN 8TH AND 10TH AVE	12	\$6,242		\$6,242
sys4907	MARYLAND DR	2	CL	313	BETWEEN MARYLAND CIR AND SHADY DR	12	\$6,267		\$6,267
sys21540	QUEENS DR	2	CL	315	FROM AMOS DR ELENA DR	6	\$6,304		\$6,304
sys9680	GOLFVIEW DR	2	CL	316	BETWEEN N LOVELL AND ST MARKS AVE	6	\$6,315		\$6,315
sys4911	MARYLAND DR	2	CL	316	BETWEEN PYRON LN AND ASTOR LN	12	\$6,322		\$6,322
sys4909	MARYLAND DR	2	CL	320	FROM SHADY DR E TO PYRON LN	12	\$6,397		\$6,397
sys9679	GOLFVIEW DR	2	CL	325	BETWEEN N MOORE RD AND N LOVELL AVE	6	\$6,503		\$6,503
sys7478	BROCKHAVEN RD	2	CL	327	BETWEEN RIDGE AVE AND LAUREL AVE	8	\$6,542		\$6,542
SSYS3028	12TH AVE	2	CL	327	BETWEEN E37TH AND E 38TH ST	12	\$6,547		\$6,547
sys1744	WILLINGHAM LN	2	CL	331	E/O SCENIC HWY	8	\$6,628		\$6,628
sys10876	DAUPHIN WAY	2	CL	333	S/O HARCOURT DR	8	\$6,661		\$6,661
sys7185	S END AVE	2	CL	341	BETWEEN SUNSET TERR AND CREST RD	8	\$6,826		\$6,826
sys16938	RICHARD AVE	2	CL	343	N/O FOX DR	3	\$6,853		\$6,853
sys11030	FOUNTAIN AVE	2	CL	343	FROM HARDIN DR TO SWEETBRIAR AVE	8	\$6,860		\$6,860
SSYS28862	CEDAR ST	2	CL	343	FROM HENDERSON TO LEE AVE	12	\$6,867		\$6,867
SSYS4155	ROSSVILLE BLVD	2	CL	345	BETWEEN E49 AND E 50TH ST	8	\$6,894		\$6,894
sys28239	HUDSON ST	2	CL	346	FROM SCHOOL ST TO GROVE ST	8&12	\$6,912		\$6,912
sys12986	NATIONAL AVE	2	CL	347	BETWEEN DUNCAN AVE AND CHAMBERLAIN AVE	6	\$6,939		\$6,939
sys4900	MARYLAND DR	2	CL	348	BETWEEN ASTOR LN AND S MOORE RD	6&24	\$6,963		\$6,963
sys16937	RICHARD AVE	2	CL	348	FROM FOX DR TO HOYT ST	12	\$6,967		\$6,967
sys10638	TOMAHAWK TR	2	CL	351	FROM WOODVALE AVE W TO A POINT	8	\$7,011		\$7,011
sys15757	GREENWOOD RD	2	CL	351	FROM HOYT ST TO ST PAUL ST	8	\$7,020		\$7,020
sys15772	HOYT ST	2	CL	352	FROM ORANGEWOOD AVE TO GREENWOOD RD	8	\$7,050		\$7,050
sys2821	CLAYTON AVE	2	CL	357	S/O SUNRISE TERR	8	\$7,148		\$7,148
sys23607	MIDVALE AVE	2	CL	358	AT DAYTON BLVD	8	\$7,160		\$7,160
sys9278	SHAWNEE TR	2	CL	359	S/O CIRCLE AT CHICKASAW DR	6	\$7,174		\$7,174
sys28630	W/O OAK ST	2	CL	360	W/O OAK ST	8	\$7,192		\$7,192
sys21272	DELANO DR	2	CL	360	BETWEEN CRUTCHFIELD ST AND QUEENS DR	8	\$7,204		\$7,204
sys16064	HIGHLAND AVE	2	CL	360	S/O THROUGH ST	6	\$7,206		\$7,206
sys9442	BRAINERD RD	2	CL	374	PISGAH AVE TO SPRING CREEK RD	8	\$7,471		\$7,471
sys30256	PENNSYLVANIA AVE	2	CL	374	38TH ST TO ALLEY WAY	8	\$7,479		\$7,479
sys9471	ANDERSON AVE	2	CL	374	LOVELL AVE TO S ST MARKS	16	\$7,481		\$7,481
sys4367	FIKE DR	2	CL	374	S MOORE TO CHOATE ST	8	\$7,482		\$7,482
sys21702	WISDOM ST	2	CL	375	WOOD AVE TO RIVERSIDE DR	12	\$7,502		\$7,502
sys11032	FOUNTAIN AVE	2	CL	377	SWEETBRIER CIR TO MARLBORO AVE	10	\$7,548		\$7,548
sys10151	MIDLAND PK	2	CL	382	WOODMORE LN TO HENDERSON DR	12	\$7,631		\$7,631
sys10275	MIDLAND PK	2	CL	382	HENDERSON DR TO PARKDALE AVE	8	\$7,635		\$7,635
sys17595	FISK AVE	2	CL	382	SPELLMAN ST	8	\$7,639		\$7,639
sys28584	CHAMBERS ST	2	CL	383	AT RIDGECREST CIR	6	\$7,662		\$7,662
sys7757	SEMINOLD DR N	2	CL	386	N/O MONTVIEW DR	8	\$7,716		\$7,716
sys9476	TWELFTH ST	2	CL	386	S ST MARKS AVE EAST TO A POINT	6	\$7,728		\$7,728
sys7422	E VIEW DR	2	CL	391	S CREST DR TO OLD RINGGOLD RD	8	\$7,814		\$7,814
sys7995	LINDBERG AVE	2	CL	393	AT HIGHWAY 27	6&8	\$7,854		\$7,854
sys14732	O'NEAL ST	2	CL	393	SOUTH OF 5TH ST	8	\$7,861		\$7,861
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SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Paralleled by</u>	<u>Cost of Service Transfers</u>	<u>Cost of Main Replacement</u>	<u>Total Cost</u>
sys10048	FOUNTAIN AVE	2	CL	393	AT FOUNTAIN CIR	8	\$7,863		\$7,863
SSYS28748	DAVIS ST	2	CL	393	W GORDON AVE TO LAKE AVE	8	\$7,868		\$7,868
sys21230	BELLE ARBOR	2	CL	400	MCCHESEY AVE TO APPLING ST	8	\$7,995		\$7,995
sys10807	N MOORE RD	2	CL	403	BILTMORE AVE TO OLD MISSION RD	8	\$8,051		\$8,051
sys17483	WALDEN AVE	2	CL	403	ATLANTA AVE TO FISK AVE	8	\$8,068		\$8,068
RH96102473402	ELLIS RD	2	CL	406	FROM SHAMBAUGH ST E TO MCFARLAND	12	\$8,122		\$8,122
RH99021276855	SUNALAY LN	2	CL	407	AWHILA DR TO OWASA DR	6	\$8,138		\$8,138
sys2830	CLAYTON AVE	2	CL	411	S SEMINOLE DR TO JOHN ROSS RD	8	\$8,210		\$8,210
sys7390	SEMINOLD DR N	2	CL	411	TO DUNLAP AVE	8	\$8,211		\$8,211
sys16288	EAST AVE	2	CL	414	S/O WILSONIA AVE	8	\$8,282		\$8,282
SSYS28863	LEE AVE	2	CL	416	WASHINGTON ST TO CEDAR ST	12	\$8,311		\$8,311
sys6731	E 34TH ST	2	CL	416	ROSSVILLE BLVD TO CLIO AVE	24	\$8,328		\$8,328
sys3305	TAMARACK TR	2	CL	428	CONNELLY LANE	6	\$8,568		\$8,568
sys6737	CALHOUN AVE	2	CL	432	E34TH ST TO E 35TH ST	12&24	\$8,632		\$8,632
RH97040874447	LOCKWOOD CIR	2	CL	433	LOCKWOOD TERR	6	\$8,665		\$8,665
sys28583	CHAMBERS ST	2	CL	446	HEGGIE RD WEST TO FERGISS DR	6	\$8,913		\$8,913
sys4429	ALTAMAHA ST	2	CL	449	ALTHEA ST TO LESLIE ST	8	\$8,979		\$8,979
sys27464	LEAWOOD AVE	2	CL	451	SLIGER CIR TO DAYTON BLVD	6	\$9,018		\$9,018
sys4727	RIDGE RD	2	CL	452	RINGGOLD RD TO MONROE ST	6	\$9,033		\$9,033
sys10311	SOUTH CHICKASAW DR	2	CL	452	FROM SHAWNEE TR TO S CHOCKTAW RD	8	\$9,048		\$9,048
sys16287	FRAIZER CIR	2	CL	455	WEST OF TALLEY RD	8	\$9,106		\$9,106
sys6925	CALHOUN AVE	2	CL	457	E 35TH ST TO E 36TH ST	12&24	\$9,138		\$9,138
sys21516	BENTON AVE	2	CL	458	CUSHMAN ST SOUTH TO A POINT	8	\$9,154		\$9,154
sys19973	ASHMORE AVE	2	CL	463	SOUTH OF MASON DR	12	\$9,259		\$9,259
sys10047	WILSONIA AVE	2	CL	465	N/O FOUNTAIN AVE	12	\$9,305		\$9,305
sys16103	MOSS ST	2	CL	466	N/O SHALLOWFORD RD	8	\$9,322		\$9,322
sys12991	SPRUCE ST	2	CL	468	DUNCAN AVE TO BAILEY AVE	24	\$9,361		\$9,361
sys9168	VISTA DR	2	CL	474	FROM DELL TERR SOUTH TO A POINT	16	\$9,470		\$9,470
sys28242	HUDSON ST	2	CL	475	SOUTH OF GROVE ST	6	\$9,494		\$9,494
sys15817	MIDLAND PK	2	CL	479	TALLEY RD EAST TO HARGRAVES AVE	8	\$9,582		\$9,582
sys20638	FAIRHILLS DR	2	CL	484	SOUTH OF YOUNG AVE	8	\$9,673		\$9,673
sys10383	ORIOLE DR	2	CL	484	BRAINERD RD TO PROVENCE RD	8	\$9,681		\$9,681
sys5169	BURNS AVE	2	CL	489	RINGGOLD RD TO ST JAMES AVE	8	\$9,780		\$9,780
sys13501	UNION AVE	2	CL	492	WEST OF GREENWOOD AVE	8	\$9,838		\$9,838
sys3134	RINGGOLD RD	2	CL	493	NORTH OF BALES AVE	8	\$9,852		\$9,852
sys16290	FRAZIER CIR	2	CL	494	EAST AVE TO PHOENIX DR	8	\$9,875		\$9,875
sys21713	RIVERSIDE DR	2	CL	499	WISDOM ST TO ELMENDORF ST	8	\$9,973		\$9,973
SSYS3081	CALHOUN AVE	2	CL	505	E 36TH ST TO E 37TH ST	12&24	\$10,090		\$10,090
sys14876	PIERCE AVE	2	CL	507	CENTRAL AVE TO O'NEAL ST	30	\$10,146		\$10,146
sys2573	N HERMITAGE AVE	2	CL	510	SOUTH OF SUNSET RD	8	\$10,204		\$10,204
sys21489	CUSHMAN ST	2	CL	512	BENTON AVE TO WOOD AVE	8	\$10,231		\$10,231
sys24727	RIVERMONT CIR	2	CL	514	RIVERMONT RD TO DEAD END	6(1/2)	\$5,134	\$14,135	\$19,269
sys3841	CRABTREE DR	2	CL	514	S SEMINOLE DR TO REEVES AVE	8(1/4)	\$2,578	\$21,202	\$23,780
sys10017	CLUB DR	2	CL	515	BRAINERD RD TO S ST MARKS AVE	6	\$10,302		\$10,302
sys5150	FINCHER AVE	2	CL	517	HILTON DR NORTH TO A POINT	8 (1/4)	\$2,593	\$21,326	\$23,919
sys22775	ADDISON RD	2	CL	517	DENHAM RD TO BONNY OAKS RD	8	\$10,349		\$10,349

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys7388	SUMMIT RD	2	CL	521	OLD RINGGOLD RD TO A POINT	8	\$10,410		\$10,410
sys10262	HENDERSON DR E	2	CL	523	MIDLAND PL NORTH TO A POINT	8	\$10,460		\$10,460
sys16171	HILLDALE DR	2	CL	529	BROOKWOOD DR	8	\$10,572		\$10,572
sys22208	LIGHTFOOT MILL RD	2	CL	532	TUNNEL BLVD TO HIGGS ST	16	\$10,640		\$10,640
sys7235	RINGGOLD RD	2	CL	533	GERMANTOWN RD EAST	8	\$10,655		\$10,655
sys21077	DARMOUTH ST	2	CL	533	NORTH OF BLOSSOM ST	20	\$10,658		\$10,658
SSYS28869	LEE AVE	2	CL	534	SPRUCE ST TO WASHINGTON ST	12	\$10,685		\$10,685
sys7991	GIFFORD ST	2	CL	537	E 23RD ST SW TO A POINT	8(1/2)	\$5,378	\$14,767	\$20,145
sys6862	BROCKHAVEN RD	2	CL	540	S SEMINOLE DR TO LAUREL AVE	8	\$10,800		\$10,800
sys28509	LAKEVIEW DR	2	CL	550	N OAKWOOD RD TO CALDONIA ST	8	\$10,991		\$10,991
sys5342	HILTON DR	2	CL	551	MCDONALD RD TO FINCHER AVE	8(3/4)	\$8,267	\$7,576	\$15,843
sys10312	SHAWNEE TR	2	CL	555	CHICKASAW DR TO SOUTH CHICKASAW DR	8	\$11,091		\$11,091
sys3127	RINGGOLD RD	2	CL	555	AT WELDON DR	6(3/4)	\$8,330	\$7,631	\$15,961
sys15318	MONROE ST	2	CL	558	DODSON AVE TO ARLINGTON AVE	8	\$11,151		\$11,151
sys20462	APPLING ST	2	CL	574	WOOD AVE EAST TO RIVERSIDE DR	6	\$11,481		\$11,481
sys19728	OLD BELL AVE	2	CL	575	NORTH OF GURLEY ST TO 8" MAIN	8	\$11,494		\$11,494
sys10296	MONTEVISTA DR	2	CL	577	GERMANTOWN RD TO ORIOLE DR	16	\$11,550		\$11,550
sys7979	CANNON AVE	2	CL	578	I-24	8	\$11,554		\$11,554
sys15770	POPE ST	2	CL	578	NELLIE ST TO LINE ST	8	\$11,563		\$11,563
sys21254	TAYLOR ST	2	CL	580	NORTH OF GILBERT ST TO DEAD END	8	\$11,601		\$11,601
sys13270	O'NEAL ST	2	CL	581	NORTH OF OAK ST	30	\$11,614		\$11,614
sys15860	RODGERS RD	2	CL	581	GERMANTOWN RD TO MIDLAND PK	8	\$11,622		\$11,622
sys21036	DARMOUTH ST	2	CL	585	BLOSSOM ST TO HIGHLAND DR	20	\$11,690		\$11,690
sys7518	SEMINOLE DR	2	CL	591	DUNLAP AVE NORTH TO A POINT	8	\$11,811		\$11,811
sys10116	W MISSION BLVD	2	CL	594	N HOWELL AVE TO CLUB DR	6	\$11,874		\$11,874
sys2598	S HERMITAGE AVE	2	CL	613	SCENIC HWY SOUTH TO DEAD END	8	\$12,251		\$12,251
sys28511	LAKEVIEW DR	2	CL	620	CHICKAMAUGA AVE TO TENNESSEE ST	8	\$12,406		\$12,406
sys23291	HEDGEWOOD DR	2	CL	622	HENDRICKS DR TO SWEETLAND DR	8&6	\$12,435		\$12,435
sys22301	HARRISON PK	2	CL	628	DENHAM RD TO RAILROAD	8	\$12,564		\$12,564
sys16063	HIGHLAND JARVIS AVE	2	CL	642	LASALLE ST NORTH TO A POINT	8	\$12,845		\$12,845
sys17032	MARY WALKER PL	2	CL	644	WILCOX BLVD WEST TO A POINT	8	\$12,881		\$12,881
sys27750	TACOMA ST	2	CL	646	WOODROW AVE NORTH TO A POINT	8	\$12,922		\$12,922
sys3824	E VIEW DR	2	CL	655	SHADOWLAWN DR NORTH TO A POINT	8	\$13,099		\$13,099
sys6794	WESTSIDE DR	2	CL	658	30TH ST SOUTH TO A POINT	6(3/4)	\$9,869	\$9,047	\$18,916
sys10506	BILTMORE AVE	2	CL	672	WOODVALE AVE TO N MOORE RD	16	\$13,438		\$13,438
sys7402	OLD RINGGOLD RD	2	CL	673	S SEMINOLE DR TO POINDEXTER AVE	8	\$13,452		\$13,452
RH99021276856	NAKWISA DR	2	CL	673	HICKORY VALLEY RD TO OWASA DR	6	\$13,464		\$13,464
sys10231	RODGERS RD	2	CL	674	GILLESPIE RD TO BILTMORE DR	8	\$13,482		\$13,482
sys22776	DENHAM RD	2	CL	675	HARRISON PK TO ADDISON RD	8	\$13,497		\$13,497
sys15055	E 3RD ST	2	CL	676	FORTWOOD PL TO CENTRAL AVE	20&8	\$13,523		\$13,523
sys4363	CHOATE RD	2	CL	677	FIKE DR SOUTH TO A POINT	12	\$13,533		\$13,533
SSYS28891	SHEARER DR	2	CL	678	OAK ST TO CHESTNUT ST	12(1/2)	\$6,786	\$18,645	\$25,431
sys28631	GROVE ST	2	CL	679	CLUB DR TO PISGAH DR	8	\$13,575		\$13,575
sys10109	W MISSION BLVD	2	CL	691	APPLING ST NORTH TO PRIVATE EASEMENT	8	\$13,814		\$13,814
sys20465	BENTON AVE	2	CL	699	CITICO AVE SOUTH TO A POINT	8	\$13,972		\$13,972
sys14223	DERBY ST	2	CL	700	NELLE ST TO ORANGEWOOD AVE	8	\$13,991		\$13,991
sys15771	HOYT ST	2	CL	708		8(1/3)	\$4,718	\$25,960	\$30,678

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys16704	DELRIIDGE DR	2	CL	710	RICHARD AVE TO RIDGEMONT DR	6	\$14,200		\$14,200
sys30327	W 42ND ST	2	CL	711	GRAND AVE TO R/R	8(1/3)	\$4,735	\$26,070	\$30,805
sys24151	CARTER DR	2	CL	718	AT DEAD END	8(1/2)	\$7,182	\$19,745	\$26,927
sys11493	MARIMONT DR	2	CL	720	TO MARIJON DR	6	\$14,395		\$14,395
sys10493	CAROLYN LN	2	CL	730	N MOORE RD TO HICKS RD	6	\$14,592		\$14,592
sys14834	COLLINS ST	2	CL	731	E 3RD ST TO E 5TH ST	30	\$14,613		\$14,613
SSYS28836	WEST CREST RD	2	CL	738	SOUTH OF E 51ST ST	8	\$14,760		\$14,760
sys30945	25TH ST PL WASHINGTON	2	CL	740	KERR ST TO POSS ST	6	\$14,791		\$14,791
BH96051099873	STEGAL ST/FIRST ST	2	CL	742	MC FARLAND AVE EAST	6(1/2)	\$7,414	\$20,405	\$27,819
sys16939	FOX DR	2	CL	747	RICHARD AVE WEST TO A POINT	8	\$14,949		\$14,949
sys3738	MISSIONAIRE AVE	2	CL	761	JOHN ROSS RD TO BOWEN RD	8	\$15,217		\$15,217
sys13797	DERBY ST	2	CL	772	KILMER ST NORTH TO A POINT	8	\$15,437		\$15,437
sys28061	READS LAKE RD	2	CL	782	FROM 8" TO EXISTING 2"	8(1/3)	\$5,215	\$28,673	\$33,888
sys4817	JOHN ROSS RD	2	CL	796	RINGGOLD RD TO EALY RD	8	\$15,911		\$15,911
sys6857	RINGGOLD RD	2	CL	797	GERMANTOWN RD TO BLACKHAWK TR	8(1/4)	\$3,987	\$32,876	\$36,863
sys27835	TACOMA ST	2	CL	808	BANKS ST TO UNAKA ST	8(3/4)	\$12,122	\$11,110	\$23,232
sys13562	MCCORD AVE	2	CL	834	TO WILCOX BLVD	8(1/2)	\$8,348	\$22,935	\$31,283
sys13677	N SEMINOLE DR	2	CL	839	E SEMINOLE DR NORTH TO 6" MAIN	6	\$16,784		\$16,784
sys16861	TUNNEL BLVD	2	CL	850	MILNE ST TO BROWN ST	6	\$16,994		\$16,994
sys21714	RIVERSIDE DR	2	CL	855	WILCOX BLVD TO BREIT ST	8	\$17,103		\$17,103
sys24690	NURICK DR	2	CL	859	FOLTS CIR NORTH TO A POINT	8	\$17,173		\$17,173
sys15612	GLENWOOD DR	2	CL	862	ARNOLD ST SOUTH TO BROWN ST	6	\$17,237		\$17,237
sys11318	RIDGE TOP RD	2	CL	878	FROM SANCTUARY RD NORTH TO A POINT	6	\$17,557		\$17,557
SSYS3079	CALHOUN AVE	2	CL	890	E 37TH ST TO E 39TH ST	6	\$17,805		\$17,805
sys17263	VANCE RD	2	CL	908	AIRPARK DR TO LEE HIGHWAY	12&16	\$18,160		\$18,160
sys7215	GLEASON DR	2	CL	914	DONALDSON RD TO GLEASON CIR	12	\$18,271		\$18,271
sys24675	TANGLEWOOD RD	2	CL	918	HAYWOOD AVE TO FOLTS DR	12	\$18,357		\$18,357
sys21227	BELLE ARBOR AVE	2	CL	929	TRINITY AVE TO MCCHESENEY AVE	8	\$18,575		\$18,575
BH96051099868	CENTRAL ST	2	CL	933	JAMES AVE TO WOTRING ST	8	\$18,662		\$18,662
sys8698	POINDEXTER AVE	2	CL	947	SUMMIT AVE TO CLAREMONT AVE	12	\$18,949		\$18,949
sys20637	MISSISSIPPI AVE	2	CL	959	YOUNG ST TO MILDRED RD	8	\$19,186		\$19,186
sys11642	AWHILA DR	2	CL	960	GAYDA LN TO SUNALAY LN	8	\$19,204		\$19,204
sys7956	CANNON AVE	2	CL	963	E 28TH ST NORTH TO A POINT	8	\$19,255		\$19,255
sys21271	DELANO DR	2	CL	968	QUEENS DR TO ELENA DR	8	\$19,365		\$19,365
sys21539	ELENA DR	2	CL	981	QUEENS DR TO KINGWOOD DR	6(1/2)	\$9,807	\$26,977	\$36,784
sys3265	SULLIVAN AVE	2	CL	993	BALES AVE TO KINGWOOD DR	6	\$19,831		\$19,831
sys10200	VAUGHN RD	2	CL	1000	KEMP RD TO RODGERS RD	8	\$19,868		\$19,868
sys3215	JOHN ROSS RD	2	CL	1005	GREENSLAKE RD AND BENNETT RD	8	\$20,007		\$20,007
sys20403	RIVERSIDE DR	2	CL	1015	APPLING ST TO LATTA ST	6	\$20,105		\$20,105
sys28510	LAKEVIEW DR	2	CL	1041	ASTERWOOD ST TO OAKWOOD RD	6&24	\$20,294		\$20,294
sys10295	ORIOLE DR	2	CL	1041	PROVENCE ST	8	\$20,824		\$20,824
sys27228	CRISMAN ST	2	CL	1056	OAKLAND TER TO LAMAR AVE	8&16	\$21,114		\$21,114
sys28279	NITUNA AVE	2	CL	1056	STATE LINE RD TO BISHKOKO AVE	8	\$21,125		\$21,125
sys20467	APPLING ST	2	CL	1061	BELLE ARBOR AVE TO BENTON AVE	8	\$21,212		\$21,212
sys16862	TUNNEL BLVD	2	CL	1068	PERSIMMON LN TO PLUMWOOD RD	8	\$21,227		\$21,227
sys17597	ATLANTA AVE	2	CL	1077	TUCKEGEE BLVD TO SPELMAN ST	8	\$21,367		\$21,367
						6 & 8	\$21,549		\$21,549

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Paralleled by</u>	<u>Cost of Service Transfers</u>	<u>Cost of Main Replacement</u>	<u>Total Cost</u>
sys10972	MCBRIEN RD	2	CL	1092	CONNER ST TO INTERSTATE	8	\$21,837		\$21,837
sys20415	CRUTCHFIELD ST	2	CL	1097	AMOS DR TO RIVERSIDE DR	8	\$21,939		\$21,939
sys28549	CHICKAMAUGA AVE	2	CL	1098	S CREST RD WEST TO A POINT	12	\$21,960		\$21,960
BH960512356	SUGGS ST	2	CL	1107	JAMES AVE TO ELLIS DR	8&12	\$22,149		\$22,149
sys10831	CLUB DR	2	CL	1116	N LOVELL AVE TO OLD MISSION RD	6(1/2)	\$11,164		\$11,164
sys28791	WALKER ST	2	CL	1121	MAPLE ST TO CHERRY ST	8	\$22,418	\$30,690	\$41,854
sys10049	FOUNTAIN AVE	2	CL	1134	WILSONIA DR TO BELVOIR AVE	12	\$22,672		\$22,418
sys9351	SPRING CREEK RD	2	CL	1141	VISTON AVE TO HONEYSUCKLE DR	8	\$22,819		\$22,672
sys10192	TUNNEL BLVD	2	CL	1144	PINEWOOD AVE TO BRAINERD RD	8	\$22,875		\$22,819
sys27478	MEADOWBROOK DR	2	CL	1159	DAYTON BLVD TO FITEHAVEN DR	8(1/2)	\$11,590	\$31,875	\$22,875
sys27312	DAYTONA AVE	2	CL	1162	SUMMIT AVE TO DAYTON BLVD	8(1/2)	\$11,620	\$31,955	\$43,465
sys24391	MCCLURE TERR	2	CL	1282	TO NURICK DR	6(1/3)	\$8,544	\$47,006	\$43,575
sys15733	EAST AVE	2	CL	1283	FRAIZER CIR TO WILSONIA AVE	8	\$25,650		\$55,550
sys11864	PINE LAWN	2	CL	1296	AIRPORT RD TO PINE GROVE TR	8	\$25,922		\$25,650
sys11982	FRAZIER DR	2	CL	1440	ANDERSON DR TO BENHAM DR	8	\$28,798		\$25,922
sys28508	LAKEVIEW DR	2	CL	1486	CALDONIA ST TO ROSA ST	8	\$29,717		\$28,798
sys21703	WISDOM ST	2	CL	1511	RIVERSIDE DR TO N ORCHARD KNOB	10	\$30,222		\$29,717
sys24278	SLEEPY HOLLOW RD	2	CL	1719	LUPTON DR TO WERNER ST TO DEAD END	8(3/4)	\$25,791	\$23,636	\$30,222
sys28528	ADAMS RD	2	CL	1859	WASHINGTON DR TO ASTERWOOD ST TO LAKEVIEW	8	\$37,185		\$49,427
sys11740	LEE HWY	2	CL	2043	AIRPORT RD NORTH TO R/R	12	\$40,868		\$37,185
sys11717	PANORAMA DR	2	CL	2282	KING ARTHUR RD TO DEAD END	6	\$45,638		\$40,868
sys11110	HICKORY VALLEY RD	2	CL	2577	MARIJOHN DR TO HWY 153	12	\$51,545		\$45,638
sys28150	PAGE RD	2	CL	2722	FROM CHESS LN TO MONANAWA AVE E TO NITUNA	8(1/3)	\$18,148	\$81,659	\$51,545
SSYS29028	CHICKAMAUGA AVE	2	CL	2857	TO HOGAN RD THEN S TO CHAMBERS ST	12 & 8 (1/2)	\$57,148		\$99,807
RH00102078755	PAGE RD	2	CL	3603	TO STATE LINE TO TANOFAN DR	8(1/3)	\$24,024	\$108,090	\$57,148
sys22170	CAMPBELL ST	2	CL	159	FROM WILDER ST N TO A POINT	16	\$3,171		\$132,114
sys11794	AIRPORT RD	2	CL	282	LEE HIGHWAY	8	\$5,633		\$3,171
sys9391	S MOORE RD	2	CL	364	N FROM DELAWARE DR	8	\$7,283		\$5,633
sys21451	DAISY ST	2	CL	399	W/O DODSON AVE	8	\$7,977		\$7,283
RH99021276858	GAYDA LN	2	CL	400	W/O AWHILA DR	6	\$8,007		\$7,977
sys10880	HARCOURT DR	2	CL	618	BETWEEN DAUPHIN WAY AND VISTA DR	6	\$12,363		\$8,007
sys30829	IN ALLEY	2	CL	757	W/O ROSSVILLE BLVD AND S/O E 20TH	8	\$15,145		\$12,363
sys22143	CAMPBELL ST	2	CL	784	FROM GROVS ST S TO WILDER ST	8	\$15,675		\$15,145
sys30216	W 43RD ST	2	CL	1009	FROM MICHIGAN AVE E TO VIRGINIA AVE	16	\$20,176		\$15,675
sys17187	HICKORY VALLEY RD	2.25	GV	1331	DUPREE DR S TO A POINT	12&16	\$26,611		\$20,176
sys17706	IGOU GAP RD	2.25	CL	296	SKYLINE DR E TO TERRA VERDA	12	\$5,927		\$26,611
sys12295	IGOU GAP RD	2.25	CL	319	GUNBARREL RD W TO EXISTING 2.25	8	\$6,385		\$5,927
sys12394	IGOU GAP RD	2.25	CL	431	EXISTING 8" E TO A POINT	8	\$8,616		\$6,385
sys17710	CONCORD RD	2.25	CL	487	GENOA DR NE TO IGOU GAP RD	8	\$9,733		\$8,616
sys11312	PANORAMA DR	2.25	CL	533	EXISTING 2" N TO A POINT	8	\$10,666		\$9,733
sys18355	STANDIFER GAP RD	2.25	CL	1259	EXISTING 8" @ PINEWOOD DR NW TO A POINT	6	\$25,179		\$10,666
sys11276	IGOU GAP RD	2.25	CL	1721	TERRA VERDE DR E TO EXISTING 2.50	8	\$34,427		\$25,179
sys12341	MORRIS HILL RD	2.25	CL	1760	RAY JO CIR N TO EXISTING 2.50	8	\$35,207		\$34,427
sys12916	BONNEVILLE CIR	2.5	PVC	664	BROWNS FERRY RD NW TO EXISTING 2.50"	8	\$13,274		\$35,207
sys23074	BONNYVALE LN	2.5	CL	725	EXISTING 6" SW TO DEAD END	8	\$19,937		\$13,274
sys9438	LARCHMONT AVE	3	GV	349	LARCHMONT AVE SE TO N MOORE RD	6(1/2)	\$7,256		\$19,937
						8	\$6,974		\$7,256

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
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<u>System Pipe ID</u>	<u>Street</u>	<u>Size</u>	<u>Type</u>	<u>Length</u>	<u>Location</u>	<u>Paralleled by</u>	<u>Cost of Service Transfers</u>	<u>Cost of Main Replacement</u>	<u>Total Cost</u>
sys9547	BRAINERD RD	3	GV	352	S ST MARKS E TO N HOWELL AVE	8	\$7,031		\$7,031
sys9457	BRAINERD RD	3	GV	396	TACOA CIR SE TO 2" @ S BROOKS AVE	8	\$7,917		\$7,917
sys10009	BRAINERD RD	3	GV	437	SEQUOIA DR NW TO EXISTING 3"	8	\$8,748		\$8,748
sys9420	BRAINERD RD	3	GV	437	PARKDALE AVE SE TO WOODVALE AVE	8	\$8,748		\$8,748
sys9423	LARCHMONT AVE	3	GV	457	WOODVALE AVE SE TO LARCHMONT AVE	8	\$9,145		\$9,145
sys9410	BRAINERD RD	3	GV	509	LONSDALE DR NW TO EXISTING 3"	8	\$10,174		\$10,174
sys7151	ROSEMONT DR	3	GV	519	WINDSOR CT E TO EXISTING 3"	8	\$10,374		\$10,374
sys9463	BRAINERD RD	3	GV	545	S HOWELL AVE E TO TACOA CIR	8	\$10,904		\$10,904
sys7143	ROSEMONT DR	3	GV	568	S SEMINOLE DR E TO WINDSOR CT	8	\$11,368		\$11,368
sys10335	MARLBORO AVE	3	GV	617	TUXEDO AVE E TO EXISTING 3"	8	\$12,349		\$12,349
sys9534	LOVELL AVE	3	GV	829	ORIOLE DR NW TO GERMANTOWN RD	16	\$16,586		\$16,586
sys10730	BRAINERD RD	3	GV	884	SOUTH ST MARK NW TO EXISTING 3"	8	\$17,677		\$17,677
sys10869	ROSEVIEW AVE	3	GV	903	VISTA DR SE TO GERMANTOWN RD	8	\$18,068		\$18,068
sys30422	COWART ST	3	GV	990	TUNNEL BLVD E TO EXISTING 3"	8	\$19,797		\$19,797
sys9229	BRAINERD RD	3	GV	1028	28TH ST NE TO W 26TH ST	24	\$20,562		\$20,562
sys10781	PROVINCE ST	3	GV	1062	BELVOIR E TO TUXEDO AVE	8	\$21,243		\$21,243
sys14826	HAMPTON ST	3	GV	2174	CIRCLE DR SE TO EXISTING 3"	8&16	\$21,243		\$21,243
SSYS3576	E 36TH ST	3	CL	208	3RD ST N TO TIE-IN TO 24"	24	\$43,486		\$43,486
sys15931	ROCKWAY AVE	3	CL	366	15TH AVE SE TO 16TH AVE	6	\$4,158		\$4,158
sys12626	GIVENS RD	3	CL	376	EXISTING 3" NE TO A POINT	6	\$7,321		\$7,321
sys5641	GIVENS RD	3	CL	496	E BRAINERD SW TO EXISTING 3"	8	\$7,519		\$7,519
sys7817	ROSEMONT DR	3	CL	2804	E BRAINERD E S TO IRIS RD	6	\$9,922		\$9,922
EMORY DR		3	CL	1132	N CREST AVE SE TO S SEMINOLE DR	6	\$56,083		\$56,083
sys1969	SCENIC HWY	4	PVC	781	FROM 6" SW TO A POINT	12(1/3)	\$7,549	\$41,506	\$49,055
sys32780	WALNUT ST	4	GV	75	CONNECT TO 12" @ ST ELMO & LKT MTN PUMP	8&12	\$15,626		\$15,626
sys32770	E 7TH ST	4	GV	97	GEORGIA AVE W TO A POINT	10	\$1,507		\$1,507
sys18323	STANDIFER GAP RD	4	GV	847	MARKET ST E TO GEORGIA AVE	10	\$1,941		\$1,941
sys26165	KINGS RD	4	CL	116	SERVICE TO LATERAL @ HAM'L CO NURSING	8	\$16,930		\$16,930
sys18300	WALKER RD	4	CL	134	INTERSECTION OF KINGS RD & QUEENS RD	8	\$2,326		\$2,326
sys6127	CUMMINGS HWY	4	CL	167	EXISTING 4" N TO 6" HAMT CO NURSING HOME	8	\$2,671		\$2,671
sys16099	SHALLOWFORD RD	4	CL	336	EXISTING 4" E TO ASTER DR	8	\$3,336		\$3,336
sys26949	BAL HARBOR DR	4	CL	360	EXISTING 4" NE TO ROCKWAY DR	12	\$6,722		\$6,722
sys890	WIMBERLY LN	4	CL	386	EXISTING 4" S TO KINGS RD	8	\$7,199		\$7,199
sys16101	SHALLOWFORD RD	4	CL	410	OLD RINGGOLD RD N TO EXISTING 8" MAIN	8	\$7,718		\$7,718
sys18580	I-75	4	CL	499	HILLDALE E TO WINDMERE DR	8	\$8,201		\$8,201
sys18312	WALKER RD	4	CL	507	EXISTING 4" W TO A POINT	8	\$9,988		\$9,988
sys6370	CUMMINGS HWY	4	CL	532	EXISTING 4" W TO EXISTING 4" MAIN	8	\$10,148		\$10,148
sys6129	CUMMINGS HWY	4	CL	534	LILAC AVE E TO TULIP AVE	8	\$10,643		\$10,643
sys18319	I-75	4	CL	554	ASTER AVE E TO WAUHATCHIE PK	12	\$10,683		\$10,683
sys25100	RHODA LN	4	CL	575	HAMT CO NURSING HOME (2) 4" CROSS-TIES	12	\$11,088		\$11,088
sys25098	KING RD	4	CL	597	EXISTING 4" W TO A POINT	8	\$11,491		\$11,491
sys26864	WEBB RD	4	CL	601	EXISTING 4" S TO A POINT	8	\$11,939		\$11,939
sys16100	SHALLOWFORD RD	4	CL	603	OAKWOOD DR N TO EXISTING 4" MAIN	8	\$12,016		\$12,016
sys15902	SHALLOWFORD RD	4	CL	655	MOSS ST W TO EXISTING 4" MAIN	12	\$12,070		\$12,070
sys16807	WILCOX BLVD	4	CL	702	EXISTING 4" E TO HILLDALE DR	8	\$13,107		\$13,107
sys6173	CUMMINGS HWY	4	CL	734	PIN OAK DR W. TO DOGWOOD DR	8	\$14,038		\$14,038
		4	CL	803	EXISTING 4" E TO A POINT	8	\$14,672		\$14,672
						12	\$16,055		\$16,055

SMALL DIAMETER MAINS (PARALLELED BY LARGE MAINS)
TENNESSEE-AMERICAN WATER COMPANY

Exhibit MLB - 2
Schedule 2
Page 11

System Pipe ID	Street	Size	Type	Length	Location	Paralleled by	Cost of Service Transfers	Cost of Main Replacement	Total Cost
sys16808	WILCOX BLVD	4	CL	930	PARKWAY DR E TO DOWOOD DR	8	\$18,608		\$18,608
sys30365	GRAND AVE	4	CL	940	ALTON PARK BLVD SE TO W 42ND ST	6	\$18,809		\$18,809
sys5625	EAST BRAINERD RD	4	CL	1029	EXISTING 4" E TO A POINT	12	\$20,590		\$20,590
sys26034	KINGS RD	4	CL	1444	QUEENS RD E TO LAKE HAVEN DR	12	\$28,890		\$28,890
sys25118	KINGS RD	4	CL	1765	EXISTING 4" NE TO EXISTING 4" MAIN	8	\$35,291		\$35,291
sys17610	LEE HWY	4	CL	1828	BALLARD DR NE TO EXISTING 4" MAIN	12	\$36,553		\$36,553
sys26631	BAL HARBOR DR	4	CL	2085	BAL HARBOR CIR N TO A POINT	8	\$41,702		\$41,702
sys6069	CUMMINGS HWY	4	CL	2495	LILAC AVE W TO EXISTING 6" MAIN	12	\$49,908		\$49,908
sys26053	KINGS RD	4	CL	2729	BAL HARBOR DR S TO WEBB RD	12	\$54,584		\$54,584
sys31974	E 5TH ST	4	CI	78	CONNECT TO 20" B/T LINDSAY & HOUSTON	20	\$1,569		\$1,569
sys32018	4TH ST	4	CI	261	HIGH ST E TO GEORGIA AVE	12	\$5,227		\$5,227
sys6677	DODDS AVE	4	CI	319	EXISTING 4" SW TO MAIN ST	16	\$6,370		\$6,370
sys2566	SAINT ELMO AVE	4	CI	348	W 48TH S TO W 49TH ST	12	\$6,957		\$6,957
sys32000	HIGH ST	4	CI	456	E 4TH ST S TO E 5TH ST	12&16	\$9,130		\$9,130
sys31972	E 4TH ST	4	CI	471	GEORGIA AVE E TO LINDSAY AVE	12	\$9,428		\$9,428
sys6688	DODDS AVE	4	CI	541	E 12TH ST TO ANDERSON AVE	16	\$10,811		\$10,811
RH98061277242	ST ELMO AVE	4	CI	560	EXISTING 6" S TO 4" PVT	8	\$11,198		\$11,198
sys16041	SHALLOWFORD RD	4	CI	598	TUNNEL BLVD E TO A POINT	8	\$11,951		\$11,951
sys2048	SAINT ELMO AVE	4	CI	638	W 46TH ST N TO W 45TH ST	12	\$12,764		\$12,764
sys32769	E 6TH ST	4	CI	648	MARKET ST E TO WALNUT ST	12	\$12,950		\$12,950
RH01062679575	CHESTNUT ST	4	CI	797	MAIN ST SE TO EXISTING 6" MAIN	12	\$15,931		\$15,931
sys6672	DODDS AVE	4	CI	847	12TH ST SE TO EXISTING 4" MAIN	16	\$16,948		\$16,948
RH97010274259	EAST BRAINERD RD	4	CI	879	EXISTING 12" E TO EXISTING 6" MAIN	12	\$17,580		\$17,580
sys2571	BROW RD	4	CI	948	EXISTING 6" N TO A POINT	8	\$18,954		\$18,954
sys32694	VINE ST	4	CI	982	GEORGIA AVE E TO HOUSTON ST	20	\$19,646		\$19,646
sys2095	SAINT ELMO AVE	4	CI	1104	W 46TH ST SOUTH TO W 48TH ST	12	\$22,076		\$22,076
sys6046	I-24	4	CI	1132	TO REST AREA OFF MCGILL CEMETERY RD	8(1/2)	\$31,130		\$31,130
sys17328	LEE HWY	4	CI	1142	SHALLOWFORD RD SW TO EXISTING 4"	12	\$11,322		\$11,322
sys6725	DODDS AVE	4	CI	1519	ANDERSON AVE NE TO EXISTING 6" MAIN	16	\$22,844		\$22,844
sys2600	ST ELMO AVE	4	CI	1820	W 49TH ST S TO W 54TH ST	12	\$30,377		\$30,377
sys23158	MOUNTAIN CREEK RD	4	AC	2253	EXISTING 12" MAIN S TO GRANDVIEW	12	\$36,406		\$36,406
TOTALS				293,669			\$5,480,916	\$1,037,117	\$6,518,033

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TENNESSEE-AMERICAN WATER COMPANY
CASE NO. TRA03-00118
DIRECT TESTIMONY
WILLIAM F. L'ECUYER

1. Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is William F. L'Ecuyer and my address is 1101 Broad Street, Chattanooga, Tennessee, 37401.

2. Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am employed by Tennessee-American Water Company ("TAWC" or "Company") as President.

3. Q. HOW LONG HAVE YOU HELD THIS POSITION?

A. I assumed this position effective June 1, 1999.

4. Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE PRIOR TO YOUR PRESENT POSITION.

A. I have both a Bachelor of Science degree in Economics and a Masters in Business Administration (MBA) from Boston College as well as a Juris Doctorate (JD) from Oklahoma City University. I have a diverse 24-year managerial background including experience in such companies as General Eclectic and Honeywell Information Systems. I have also attended various seminars on management development, aerospace management, materials management, government contracting, and Essentials of Water

1 **Utility Management. A brief resume of my experience is attached**
2 **to my testimony as Appendix A.**

3
4 **5. Q. ARE YOU AFFILIATED WITH ANY PROFESSIONAL**
5 **ORGANIZATIONS?**

6 **A. Yes. I am a member of the American Water Works Association,**
7 **Tennessee/Kentucky-Section and the National Association of**
8 **Water Companies.**

9
10 **6. Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE any**
11 **regulatory agencies according to matter affecting water utility**
12 **companies?**

13 **A. Yes. I have testified before the Missouri Public Service**
14 **Commission.**

15
16 **7. Q. WHAT ARE YOUR DUTIES AND RESPONSIBILITIES AS**
17 **PRESIDENT OF TAWC?**

18 **A. I serve as the Chief Executive Officer for the Company in**
19 **Tennessee. I oversee the strategic planning and local policy**
20 **process of the company in Tennessee.**

21
22 **8. Q. WHAT IS THE GENERAL AREA SERVED BY TENNESSEE-**
23 **AMERICAN WATER COMPANY?**

24 **A. Tennessee-American supplies water service and public and**
25 **private fire service to over 70,000 customers in the City of**
26 **Chattanooga and surrounding areas plus three large sale for**
27 **resale customers: Signal Mountain, Fort Oglethorpe and**

Catoosa Utility District.

9. Q. WILL ALL OF THE ITEMS CONTAINED IN UTILITY PLANT FOR WHICH THE COMPANY IS REQUESTING RATE BASE TREATMENT BE USED AND USEFUL?

A. Yes.

10. Q. MR. L'ECUYER, WHAT DOES TENNESEE-AMERICAN WATER COMPANY DO AS A PART OF ITS DAY-TO-DAY OPERATIONS TO CONTROL COSTS?

A. The first element of cost control has to start with the O&M plan developed for the operating year. The Company's plan is developed utilizing a zero-based approach, with reliance on historical cost of service elements, and looking at ways through technology/productivity/value-based management decisions to provide maximum value to the customers.

The plan is prepared and controlled utilizing cost center concepts – thus specific, proposed expenditures can be reviewed, and actual expenditures compared to those planned, as well as applying the test of need for a particular expenditure. Each month plans are reviewed relative to current operating conditions and an appropriate forecast developed for the remainder of the year regarding any expected changes in revenues or expenses.

Other benchmarks are constantly reviewed by the company. Customers served per associate shows productivity increases in labor. Based on authorized associate levels in 2002, the ratio has increased slightly in excess of 20% since 1995---ratio of 434

1 customers per associate in previous case compared with the
2 current historical test year ratio of 522.

3 Operation and Maintenance cost per customer are also
4 scrutinized, with our goal of keeping year to year increases at or
5 below the rate of inflation. Over the six (6) years our O&M cost
6 per customer has increased only 1.5% per year on average.

7 Capital expenditures of the Company are planned and scrutinized
8 to assure that needed facilities are identified, that facilities are
9 scheduled for construction within an acceptable time frame, and
10 that they are cost-effectively constructed. The primary planning
11 vehicle of the Company in the area is our least/cost comprehensive
12 planning study.

13 Technological advances are consistently reviewed to improve
14 productivity, and thus add value to the service we provide our
15 customers.

- 16 • In 1998 and 1999 the accounting department implemented
17 new J.D. Edwards payroll, inventory, accounts payable,
18 purchase order, fixed asset and job cost systems as well as
19 FAMS system and the In Source CS for Income Taxes.
- 20 • The Production Department has added radio telemetry
21 capabilities to the production facilities in the distribution
22 system. The new addition will further enhance the control
23 and capability of the company's booster stations; storage
24 tanks and pressure control/monitoring stations.

1 11. Q. WHY DOES TENNESSEE-AMEICAN WATER COMPANY
2 NEED TO FILE AT THIS TIME?

3 A. The primary reason for this rate request is the increased
4 investment in utility plant, accounting for approximately 82% of
5 the requested increase. Tennessee-American is under constant
6 pressure to continue to make capital investments which enhance
7 the integrity of service to its customers. This pressure comes from
8 various sources such as federal and state regulations, needed
9 infrastructure replacement, customer expectations, and the water
10 quality and service goals of the Company.
11

12 12. Q. DOES THIS CONCLUDE YOUR TESTIMONY?

13 A. Yes.

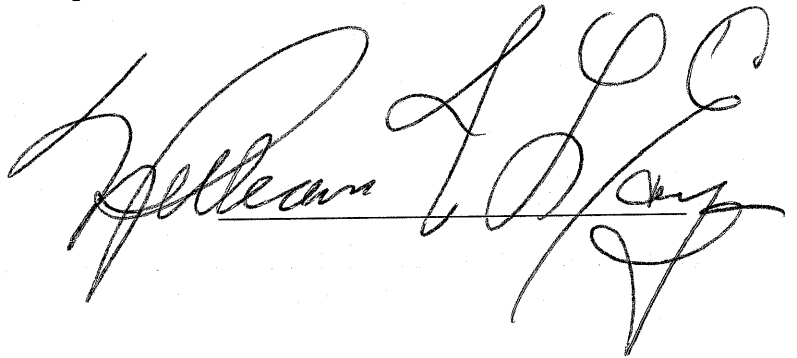
TENNESSEE REGULATORY AUTHORITY

STATE OF TENNESSEE

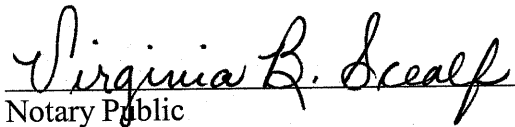
COUNTY OF HAMILTON

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared William F. L'Ecuyer who, being by me first duly sworn deposed and said that:

He is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Regulatory Authority, and if present before the Authority and duly sworn, his testimony would set forth in the annexed transcript consisting of six pages.

A large, stylized handwritten signature in black ink, appearing to read "William F. L'Ecuyer", written over a horizontal line.

Sworn to and subscribed before me
this 3rd day of February 2003.

A handwritten signature in black ink, appearing to read "Virginia B. Scealf", written over a horizontal line.

Notary Public

My commission expires April 7, 2004.

TENNESSEE-AMERICAN WATER COMPANY
CASE NO. TRA03-00118
DIRECT TESTIMONY
ROY L. FERRELL, SR.

1. Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Roy L. Ferrell and my address is 1600 Pennsylvania Avenue, Charleston, WV 25302.

2. Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am employed by American Water Works Service Company, Inc. ("Service Company"), as Director of Rates and Planning for the Service Company's Southeast Region (the "Southeast Region"). My primary responsibilities are to supervise the preparation and filing of rate cases, annual business plans, and five-year strategic business plans for American affiliates assigned to the Southeast Region, consisting of; Tennessee, Virginia, West Virginia, Maryland and Kentucky.

3. Q. WOULD YOU DESCRIBE YOUR EDUCATIONAL BACKGROUND AND BUSINESS EXPERIENCE?

A. Yes. In September 1968, I joined the Service Company as a junior accountant for what was then known as the Southern Division. From January 1971 to November 1973, I was assigned as a rate accountant and assisted in the preparation of rate cases for both West Virginia Water Company and Huntington Water Corporation in West Virginia. In December 1973, I received a Bachelor of Science in Business Administration from the

University of Charleston (Major in Accounting with a Minor in Finance). From November 1973 to March 1980, I was assigned to the Finance Department of the Southern Division and, during that period of time, I held the positions of Supervisor of Finance, Assistant Director of Finance and Director of Finance. In these capacities I was responsible for cash forecasting, budget preparation, preparation of offering materials for financings, preparation of annual reports and cash management.

On September 18, 1974, I was elected Assistant Treasurer of the Companies comprising the Former Southern Division of the American Water Works Service Company, Inc. In March 1980, I was promoted to Director of Rates and Revenues. In May 1994, after the Southern Division was dissolved, I was employed by West Virginia-American Water Company as Director of Rates and Revenues and assumed additional responsibilities in the areas of budgets and finance. When American created the Southeast Region in April 2000, I moved from this position with the Company to my current position, Director of Rates and Planning for the Southeast Region.

- 4. Q. HAVE YOU PREVIOUSLY PARTICIPATED IN REGULATORY MATTERS?**

A. Yes, I have prepared numerous rate cases and presented testimonies before this Authority (formally Public Service Commission), and the Public Service Commissions of Kentucky, Maryland, Virginia, and West Virginia.

5. Q. WAS THE COMPANY'S ACCOUNTING EXHIBITS PREPARED BY YOU OR UNDER YOUR SUPERVISION?

A. Yes.

6. Q. WHAT IS THE SOURCE OF THE INFORMATION USED IN THE COMPANY'S ACCOUNTING EXHIBITS?

A. The information contained in the Accounting Exhibits was prepared from the financial and operational records of the Company.

7. Q. PLEASE EXPLAIN THE INCREASE IN RATES THAT THE COMPANY IS SEEKING IN THIS PROCEEDING?

A. The Company is seeking a rate increase that would produce additional annual revenues of 3.87 million or 12.7%. The Company last filed for a rate increase in 1996.

8. Q. WHAT ARE THE TEST YEAR AND ATTRITION YEAR SELECTED BY THE COMPANY FOR THIS FILING?

A. The Company has selected the twelve months ending July 31, 2002, as its test year and an attrition year starting on April 1, 2003 and ending March 31, 2004.

9. Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. I will address certain of the Company's proposed Operation and Maintenance Expense adjustments that are detailed on Exhibit No. 2, Schedule 3, consisting of; (i) operation and maintenance labor (adjustment number 1), (ii) group insurance (adjustment number 7), and (iii) pensions (adjustment number 8). Next, I will address the Company's proposed rate base shown on Exhibit No. 1, Schedule 2, consisting of 3 pages. Then, I will address the Company's proposed Computation of Working Capital shown on Exhibit No. 1, Schedule 3, consisting of six pages. I will also address the Company's Operating Revenues Per Books for the Test Year and for the Attrition Year under both Present and Proposed Rates, except for average daily usages for both the residential and commercial customer classes.

10. Q. WHO WILL ADDRESS THE COMPANY'S PROPOSED AVERAGE DAILY USAGE FOR THE RESIDENTIAL AND COMMERCIAL CUSTOMER CLASSES?

A. The Company has retained the services of Dr. Edward L. Spitnagel, Jr., Professor, Washington University in St. Louis, Missouri, to provide weather normalizations for both the residential and commercial customer classes. I will explain how Dr. Spitnagel's averages were used in the Company's bill analysis.

11. Q. WHO WILL ADDRESS THE REMAINING OPERATION AND MAINTENANCE ADJUSTMENTS?

A. Mike Miller will address the service company adjustment (adjustment number 6) and customer accounting (adjustment number 11). Sheila Valentine will address all remaining operation and maintenance adjustments.

12. Q. WHO WILL ADDRESS THE COMPANY'S PROPOSED INCOME TAX ADJUSTMENT?

A. Jim Salser will provide the Company's testimony relative to income tax shown on Exhibit number 2, Schedule 6, consisting of two pages.

13. Q. WHO WILL PROVIDE TESTIMONY RELATIVE TO THE SUMMARY OF ADJUSTMENTS TO TAXES OTHER THAN INCOME?

A. Sheila Valentine will provide the Company's testimony relative to those changes.

14. Q. HOW DID THE COMPANY DETERMINE THE OPERATING REVENUES SHOWN IN ITS ACCOUNTING EXHIBIT?

A. The Company's operating revenues are obtained from (i) metered sales, (ii) private and public fire service, and (iii) miscellaneous, service revenues, rents from property, and other water revenues.

(i) Metered Sales

The Company uses a bill analysis reflecting the actual billing determinants for the test year, twelve months ended July 31, 2002. Exhibit No. 4, Schedules 1 and 2, sets forth the individual bill analysis by customer classes. This schedule multiplies attrition

year billing determinants by present and proposed rates.

15. Q. DID THE COMPANY MAKE ANY ADJUSTMENTS TO PER BOOK REVENUES FOR THE TEST YEAR?

A. Yes, the Company made a total of five adjustments, as follows: (1) weather normalization adjustment for the residential and commercial customer classes, (2) eliminated industrial usage for two companies that went bankrupt during the test year, (3) eliminated net change in accrued revenues, (4) billed days adjustment to the industrial class and (5) added an estimated number of new residential customers during the attrition year. The estimate is based on historical results. The reasons for these adjustments are identified in the Company's work papers that are filed under separate cover.

(ii) Operation and Maintenance Expense (Adjustments 7-23):

16. Q. HOW WERE THE OPERATING EXPENSE ADJUSTMENTS IN THE ACCOUNTING EXHIBIT CALCULATED?

A. The adjustments reflect an ongoing level of operating expenses consistent with the test year matching principles. Known and measurable price adjustments have been included to restate test year expense levels to rate year levels, the first 12-month period in which new rates will be in effect.

17. Q. WHAT IS YOUR TESTIMONY ON THE ISSUE OF COMPANY LABOR EXPENSE?

A. I will address the methodology used by the Company in

developing the Going-level provision for labor expense.

18. Q. HOW DID THE COMPANY CALCULATE GOING-LEVEL LABOR EXPENSE IN ITS COST OF SERVICE?

A. The Company calculated labor expense by individual employee. Each employee's wages during the twelve months ended July 31, 2002 were adjusted to account for the wage level to be paid during the first twelve-months in which the new rates will be in effect. This is the same approach the Company has used in prior filings.

19. Q. HOW WERE THE WAGE LEVELS FOR THE ATTRITION YEAR DETERMINED?

A. For hourly employees, the hours worked during the test year were obtained from the Company's actual payroll records. Adjustments were then made to overtime hours to restate those hours to a level equivalent to the employee's hourly pay rate. For example, the hours paid at time and a half wage rates were multiplied by 1.5 to yield hours that could be applied to the employee's hourly wage rate. Similar adjustments were made for other premium overtime hours. Each employee's equivalent hours were then applied to their average test year wage rate to determine going-level wages.

20. Q. HOW WERE THE AVERAGE RATE YEAR WAGE RATES CALCULATED?

A. For union employees, the Company's existing bargaining agreements were examined. The agreements contain negotiated

wage rates through the attrition year. The wage rates for each pay class in effect for the attrition year were pro-rated based upon the number of days in the attrition year. The result is an average attrition year wage rate for each union employee.

For non-union hourly and clerical employees, current wage rates that became effective on April 1, 2002 were adjusted for wage increases of 3% on April 1, 2003. As was done for union wage rates, the test year wage rate was calculated based upon the number of days each of those wages were in effect.

21. Q. HOW WERE THE ATTRITION YEAR WAGE LEVELS FOR SALARIED EMPLOYEES DETERMINED?

A. Salaried employees are exempt from overtime pay. For that reason, the current annual salary for each employee has been adjusted for expected wage increases of 3% on April 1, 2003. Consistent with the other employee classes, the 2003 salaries were calculated based upon the number of days each of the salary amounts would be in effect.

PENSION ADJUSTMENT

22. Q. PLEASE EXPLAIN THE COMPANY'S PENSION ADJUSTMENT IN THIS CASE.

A. The Company participates with all its American Water Services ("AWS") affiliates in a system-wide Pension Plan. Its actuary, Towers Perrin, prepares the AWS's pension calculations. The Company's adjustment to pension expense is based on Towers

Perrin's Actuarial Report for 2002-2003.

23. Q. HAVE THE COMPANY'S CIRCUMSTANCES REGARDING PENSION EXPENSE CHANGED SINCE 1996?

A. Yes. In 1996, the Company was advised that the mutual insurance company that held most of the AWS pension assets was converted to a stock company, and the stock was distributed as a one-time dividend to the respective policyholders. AWS's pension fund, as one of the largest policyholders, received a one-time \$47,000,000 gain from the sale of this stock. This gain caused the Plan to become fully funded; that is, the Plan reached the "full funding limit" under ERISA when the Plan's assets on July 1, 1996, exceeded actuarial accrued liability plus normal cost. As a result, no ERISA contribution had been required until the test year in this case.

**OTHER POSTRETIREMENT EMPLOYEE BENEFITS
("OPEBs"):**

24. Q. MR. FERRELL, WHAT ARE THE SPECIFIC AREAS OF OPEBs THAT YOU WILL BE ADDRESSING?

A. I will address the Company's actual booking of OPEBs expensed and capitalized during the test year, twelve months ended July 31, 2002. I will also explain the Company's OPEB recovery sought in this case.

25. Q. WHAT OPEBs COST IS REFLECTED ON THE COMPANY'S BOOKS FOR THE TEST YEAR?

- A. During the test year, the Company accrued \$681,026 in expense to Account 926.10 - accrued OPEB expense as required by FAS 106. The expense was then reduced by \$93,505 for the portions capitalized to Account 926.33 (additions and blankets).
26. Q. HOW WAS THE COMPANY'S TEST YEAR OPEB EXPENSE DETERMINED?
- A. The Company participates with all affiliates of the AWS in a system-wide OPEB Plan. Its actuary, Towers Perrin, prepared the 2003 AWS OPEB calculations and those OPEB costs were then allocated among the AWS member companies based on each Company's proportionate participation in the Plan. This is consistent with the allocation used in past cases.
27. Q. ARE ANY OTHER OPEB EXPENSES REFLECTED ON THE COMPANY'S BOOKS IN 2001?
- A. Yes. The test year fees charged to the Company by American Water Works Service Company ("Service Company") included an allocable share of its OPEB expenses associated with adopting FAS 106 for personnel assigned to Service Company offices in Voorhees, New Jersey (General Office), Hershey, Pennsylvania (Data Processing) and Belleville, Illinois (System Water Quality Laboratory), and the Service Company's Southeast Region office located in Charleston, West Virginia.
28. Q. PLEASE EXPLAIN THE ACTUAL TEST YEAR OPEB EXPENSE REFLECTED ON THE COMPANY'S BOOKS FOR

EACH OF THE SERVICE COMPANY OFFICES AND HOW EACH OPEB EXPENSE WAS CALCULATED.

- A. The Service Company OPEB expenses were booked to Account 923.1 (outside services employed) and distributed to the operating companies using the same allocation (number of customers served) that spreads all service charges not directly assignable to a specific AWS company under the Service Company contract. During the test year, the Voorhees Office, the Hershey Data Center and the Belleville Laboratory provided services to all companies within AWS, and the Service Company's Southeast Region provided services to the operating Companies in Tennessee, Virginia, West Virginia, Maryland, and Kentucky. The customer base for allocating the OPEB expense is the total number of customers served by AWS for the first three service providers listed above, and the five operating companies in the Southeast Region for the services provided by the Southeast Region.**

RATE BASE:

- 29. Q. HAS THE COMPANY CHANGED THE METHODOLOGY OF CALCULATING REQUESTED RATE BASE FROM THE APPROACH ADVOCATED IN ITS LAST CASE?**
- A. No. This is the same approach that we used and that was approved in Case No. 96-00959. Shown on Exhibit No. 1, Schedule 2, Column No. 1 of the Company's Accounting Exhibit, is the rate base for the historical test year totaling \$88,207,027. In Column No. 2, the Company has summarized it's requested**

ratemaking adjustments to rate base totaling (\$936,448) over and above the historical test year. In Column number 3, the Company has shown its requested rate base for the mid-point of the Attrition Year, aggregating \$87,270,579.

30. Q. PLEASE DETAIL THE COMPONENTS THAT COMPRISE RATE BASE SHOWN ON EXHIBIT 1, SCHEDULE 2.

A. UTILITY PLANT IN SERVICE

Includes the actual undepreciated original cost of all land and land rights, easements, structures and improvements, together with equipment in service at July 31, 2002. To this actual July 31, 2002 balance, the budgeted cumulative effect of additions and retirements to Utility Plant for the Period August 1, 2002 through September 30, 2003 have been reflected to arrive at utility plant balance at the mid-point of the attrition year. These additions and retirements are summarized on Exhibit 1, Schedule 2, page 3 of 3 and are addressed in greater detail in Mr. Bishop's Direct Testimony.

CONSTRUCTION WORK IN PROGRESS

This amount is shown in both July 31, 2002 actual and September 30, 2003 budgeted balances. These amounts are representative of all actual or budget project work for utility plant that are not in service at September 30, 2003.

LIMITED-TERM UTILITY PLANT-NET

WORKING CAPITAL

Working capital shown on Exhibit 1, Schedule 2, is further

detailed on Exhibit 1, Schedule 3, and I will explain those components that make-up working capital.

Average Cash

Average cash represents a monthly average which was computed based on 12 monthly averages of daily cash balances per bank statements for the year ended July 31, 2002. The monthly average was computed by dividing the total daily balances for the month by the same month's total days.

Prepaid Insurance, Prepaid Taxes, and Materials and Supplies

Prepaid insurance, prepaid taxes, and materials and supplies represent an average of the thirteen month end balances for the test year ending July 31, 2002.

Deferred Regulatory Expense

The deferred regulatory expense consists of an average of two cases unamortized balances at the September 30, 2003 attrition year mid point. The amounts included in rate base include \$187,000 for the current rate case expense and \$36,000 for the current Cost of Service Study.

Unamortized Debt Expense

Unamortized debt expense was calculated by starting with the July 31, 2002 unamortized debt expense and subtracting the cumulative amortizations to arrive at the balances of the beginning and ending of the attrition year. The average of these two balances, plus the unamortized debt expense of the proposed debt issue, result in a \$238,260 balance at the attrition year midpoint.

Other Deferred Debits

Other deferred debits consist of four items detailed below:

- **Unamortized transition costs of the Customer Call Center which total \$785,355.**
- **Unamortized transition costs of the Shared Services Center which total \$323,532.**
- **Unamortized security costs which total \$248,262.**
- **Unamortized balance of the Work Force Management Audit which totals \$164,839.**

Lead-Lag Study

The Company is using a Lead/Lag Study that was performed based on historical data for the twelve months ending July 31, 2002, which includes a working capital allowance of \$525,000.

Incidental Collections

Incidental collections represent the average balance of funds for sewer billing and sales tax not yet remitted or paid for the 12 months ending July 31, 2002. The average balances resulting in a reduction to rate base working capital for sewer billing and sales tax are \$1,895,262 and \$85,819 respectively.

RATE DESIGN

31. Q. HOW DID THE COMPANY DEVELOP THE TARIFF RATES REQUESTED IN THIS CASE?

A. The proposed tariff rates are based are based on a Cost of Service Study prepared by Paul Herbert of Gannett Fleming. Mr. Herbert has filed testimony and exhibits addressing the proposed rates.

32. Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes, it does.

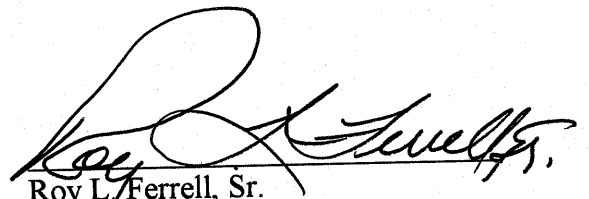
TENNESSEE REGULATORY AUTHORITY

STATE OF WEST VIRGINIA

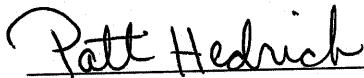
COUNTY OF KANAWHA

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Roy L. Ferrell, Sr., being by me first duly sworn deposed and said that:

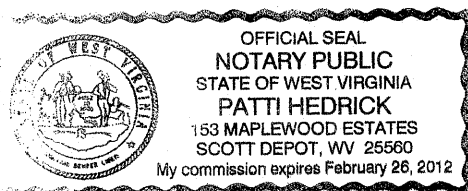
He is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Regulatory Authority, and if present before the Authority and duly sworn, his testimony would set forth in the annexed transcript consisting of 15 pages.


Roy L. Ferrell, Sr.

Sworn to and subscribed before me
this 3rd day of February 2003.


Notary Public

My commission expires February 26, 2012



BEFORE THE
TENNESSEE REGULATORY AUTHORITY

DIRECT TESTIMONY OF
PAUL R. HERBERT

ON BEHALF OF TENNESSEE-AMERICAN WATER COMPANY

CASE NO. 03- 00118

CONCERNING

COST OF SERVICE ALLOCATION

AND

CUSTOMER RATE DESIGN

FEBRUARY 2003

BEFORE THE TENNESSEE REGULATORY AUTHORITY

RE: TENNESSEE-AMERICAN WATER COMPANY

CASE NO. 03-_____

DIRECT TESTIMONY OF PAUL R. HERBERT

Line
No.

1 Q. Please state your name and address.

2 A. My name is Paul R. Herbert. My business address is 207 Senate Avenue,
3 Camp Hill, Pennsylvania.

4 Q. By whom are you employed?

5 A. I am employed by Gannett Fleming, Inc.

6 Q. Please describe your position with Gannett Fleming, Inc. and briefly state
7 your general duties and responsibilities.

8 A. I am Vice President. My duties and responsibilities include the preparation
9 of accounting and financial data for revenue requirement and cash working
10 capital claims, the allocation of cost of service to customer classifications,
11 and the design of customer rates in support of public utility rate filings.

12 Q. Have you presented testimony in rate proceedings before a regulatory
13 agency?

14 A. Yes. I have testified before the Pennsylvania Public Utility Commission, the
15 New Jersey Board of Public Utilities, the Public Utilities Commission of Ohio,
16 the Public Service Commission of West Virginia and the Kentucky Public
17 Service Commission, the Iowa State Utilities Board and the Virginia State
18 Corporation Commission, concerning revenue requirements, cost of service

1 allocation, rate design and cash working capital claims. A list of the cases in
2 which I have testified is provided at the end of my direct testimony.

3 Q. What is your educational background?

4 A. I have a Bachelor of Science Degree in Finance from the Pennsylvania State
5 University, University Park, Pennsylvania.

6 Q. Would you please describe your professional affiliations?

7 A. I am a member of the American Water Works Association and serve as a
8 member of the Management Committee for the Pennsylvania Section. I am
9 also a member of the Pennsylvania Municipal Authorities Association. In
10 1998, I became a member of the National Association of Water Companies
11 as well as a member of its Rates and Revenue Committee.

12 Q. Briefly describe your work experience.

13 A. I joined the Valuation Division of Gannett Fleming Corddry and Carpenter,
14 Inc., predecessor to Gannett Fleming, Inc., in September 1977, as a Junior
15 Rate Analyst. Since then, I advanced through several positions and was
16 assigned the position of Manager of Rate Studies on July 1, 1990. On June
17 1, 1994, I was promoted to my current position as Vice President.

18 While attending Penn State, I was employed during the summers of
19 1972, 1973 and 1974 by the United Telephone System - Eastern Group in its
20 accounting department. Upon graduation from college in 1975, I was
21 employed by Herbert Associates, Inc., Consulting Engineers (now Herbert
22 Rowland and Grubic, Inc.), as a field office manager until September 1977.

23 Q. What is the purpose of your testimony in this proceeding?

1 A. The purpose of my testimony is to explain Tennessee-American Water
2 Company's cost of service allocation study and proposed rate design set
3 forth in Exhibit No. PRH-1.

4 COST OF SERVICE ALLOCATION

5 Q. Briefly describe the purpose of your cost allocation study.

6 A. The purpose of the study was to allocate the total cost of service, which is
7 the total revenue requirement, to the several customer classifications. In the
8 study, the total costs were allocated to the residential, commercial, industrial,
9 public authorities, sales for resale, private fire protection and public fire
10 protection classifications in accordance with generally accepted principles
11 and procedures. The cost of service allocation results in indications of the
12 relative cost responsibilities of each class of customers. The allocated cost
13 of service is one of several criteria appropriate for consideration in designing
14 customer rates to produce the required revenues. The results of my
15 allocation of the pro forma cost of service as of July 31, 2002, and proposed
16 customer rates to produce the pro forma revenue requirement as of that date
17 are presented in the study.

18 Q. Please describe the method of cost allocation that was used in your study.

19 A. The base-extra capacity method, as described in 2000 and prior Water
20 Rates Manuals published by the American Water Works Association
21 (AWWA), was used to allocate the pro forma costs. Base-extra capacity is a
22 recognized method for allocating the cost of providing water service to
23 customer classifications in proportion to the classifications' use of the

1 commodity, facilities, and services. It is generally accepted as a sound
2 method for allocating the cost of water service and was used by the
3 Company in the Company's previous studies.

4 Q. Please describe the procedure followed in the cost allocation study.

5 A. Each identified classification of cost in the pro forma cost of service was
6 allocated to the customer classifications through the use of appropriate
7 factors. These allocations are presented in Schedule B on pages 8 through
8 14. The items of cost, which include operation and maintenance expenses,
9 depreciation expense, taxes and income available for return, are identified in
10 columns 1 and 2 of Schedule B. The cost of each item, shown in column 4,
11 is allocated to the several customer classifications based on allocation
12 factors referenced in column 3. The development of the allocation factors is
13 presented in Schedule C. I will use some of the larger cost items to illustrate
14 the principles and considerations used in the cost allocation methodology.
15 Purchased water, purchased electric power, treatment chemicals and waste
16 disposal are examples of costs that tend to vary with the amount of water
17 consumed and are thus considered base costs. They are allocated to the
18 several customer classifications in direct proportion to the average daily
19 consumption of those classifications through the use of Factor 1. The
20 development of Factor 1 is shown in Schedule C on page 15.

21 Other source of supply, water treatment and transmission costs are
22 associated with meeting usage requirements in excess of the average,
23 generally to meet maximum day requirements. Costs of this nature were

1 allocated to customer classifications partially as base costs, proportional to
2 average daily consumption, partially as maximum day extra capacity costs,
3 in proportion to maximum day extra capacity, and, in the case of certain
4 pumping stations and transmission mains, partially as fire protection costs,
5 through the use of Factors 2 and 3. The development of the allocation
6 factors, referenced as Factors 2 and 3, is shown in Schedule C, on pages 15
7 through 18.

8 Costs associated with storage facilities and the capital costs of
9 distribution mains were allocated partly on the basis of average consumption
10 and partly on the basis of maximum hour extra demand, including the
11 demand for fire protection service, because these facilities are designed to
12 meet maximum hour and fire demand requirements. The development of
13 the factors, referenced as Factors 4 and 5, used for these allocations is
14 shown in Schedule C, on pages 19 through 23.

15 Factor 4, used to allocate distribution mains, is based on the same
16 volumes used in Factors 1 through 3 except that the consumption for the
17 larger industrial customers and sales for resale classifications are excluded.
18 This is to recognize that larger industrial and sales for resale customers are
19 served primarily from larger mains. Factor 5, Allocation of Storage Facilities,
20 uses the same basic methodology as Factor 4, although Factor 1 volumes
21 are used and the fire demand weighting is based on the storage capacity for
22 fire service as compared to the total storage capacity.

1 Fire demand costs were allocated to public and private fire protection
2 service in proportion to the relative potential demands on the system by
3 public fire hydrants and private service lines as presented in Schedule C on
4 page 18.

5 Costs associated with pumping facilities and the operation and
6 maintenance of mains were allocated on combined bases of maximum day
7 and maximum hour extra capacity because these facilities serve both
8 functions. For pumping facilities, the relative weightings of Factor 2
9 (maximum day), Factor 3 (maximum day and fire) and Factor 4 (maximum
10 hour) were based on horsepower of pumps serving maximum day, maximum
11 day and fire and maximum hour functions. The development of this
12 weighted factor, referenced as Factor 6, is presented on page 24.

13 For operation and maintenance of mains, the relative weightings of
14 Factor 3 (maximum day and fire) and Factor 5 (maximum hour) were based
15 on the footage of transmission and distribution mains. For cost allocation
16 purposes, mains larger than 10-inch were classified as serving a
17 transmission function and mains 10-inch and smaller were classified as
18 serving a distribution function. The development of this weighted factor,
19 referenced as Factor 7, is presented on page 25.

20 Costs associated with meters were allocated to customer
21 classifications in proportion to the capacity requirements of the sizes and
22 quantities of meters serving each classification. The development of the
23 factor for meters, referenced as Factor 10, is presented on page 27. Factor

1 11, Allocation of Services, was developed in a similar manner as Factor 10,
2 except that the relative unit cost per foot by service size was used in order to
3 weight the number of services by classification. Costs associated with public
4 fire hydrants were assigned directly to the public fire protection class (Factor
5 21).

6 Costs for customer accounting, billing and collecting were allocated
7 on the basis of the number of customers for each classification, and costs for
8 meter reading were allocated on the basis of metered customers. The
9 development of these factors, referenced as Factor 12 and Factor 13, is
10 presented on page 31.

11 Administrative and general costs were allocated on the basis of
12 allocated direct costs, excluding those costs such as purchased water,
13 power, chemicals and waste disposal which require little administrative and
14 general expense. The development of factors for this allocation, referenced
15 as Factor 14, is presented on page 32.

16 Annual depreciation accruals were allocated on the basis of the
17 function of the facilities represented by the depreciation expense for each
18 depreciable plant account. The original cost less depreciation of utility plant
19 in service was similarly allocated for the purpose of developing factors,
20 referenced as Factor 17, for allocating items such as income taxes and
21 return. The development of Factor 17 is presented on pages 33 through 36.

22 Factors 14 and 17, as well as Factors 8, 9, 15, 16 and 18, are
23 composite allocation factors. These factors are based on the result of

1 allocating other costs and are computed internally in the cost allocation
2 program. Refer to Schedule C for a description of the bases for each
3 composite allocation factor.

4 Q. What was the source of the total cost of service data set forth in column 3 of
5 Schedule B?

6 A. The pro forma costs of service were furnished by the Company, and are set
7 forth in various Company exhibits.

8 Q. Refer to Schedule B, pages 16 and 20, and explain the source of the system
9 maximum day and maximum hour ratios used in the development of factors
10 referenced as Factors 2, 3 and 4.

11 A. The ratios were based on a review of historic Company data. The maximum
12 day ratio of 1.4 times the average day approximates the ratio of maximum
13 daily send-out experienced by the Company in the last five years. The
14 maximum hour ratio of 1.8 times the average hour was estimated based on
15 the relationship of system maximum hour ratios compared to system
16 maximum day ratios for other similar systems.

17 Q. What factors were considered in estimating the maximum day extra capacity
18 and maximum hour extra capacity demands used for the customer
19 classifications in the development of Factors 2, 3 and 4?

20 A. The estimated demands were based on judgment which considered field
21 studies of actual customer class demands conducted for other American
22 Companies, field observations of the service areas of the Company, field

1 studies of similar service areas in Pennsylvania, and generally-accepted
2 customer class maximum day and maximum hour demand ratios.

3 Q. Have you summarized the results of your cost allocation study?

4 A. Yes. The results are summarized in columns 1, 2 and 3 of Schedule A on
5 page 6. Column 2 sets forth the total allocated pro forma cost of service as
6 of July 31, 2002, for each customer classification identified in column 1.
7 Column 3 presents each customer classification's cost responsibility as a
8 percent of the total cost.

9 Q. Have you compared these cost responsibilities with the proportionate
10 revenue under existing rates for each customer classification?

11 A. Yes. A comparison of the allocated cost responsibilities and the percentage
12 revenue under existing rates can be made by comparing columns 3 and 5 of
13 Schedule A. A similar comparison of the percentage cost responsibilities
14 (relative cost of service) and the percentage of pro forma revenues (relative
15 revenues) under proposed rates can be made by comparing columns 3 and
16 7 of Schedule A .

17 CUSTOMER RATE DESIGN

18 Q. What are the appropriate factors to be considered in the design of the rate
19 structure?

20 A. In preparing a rate structure, one should consider the allocated costs of
21 service, the impact of radical changes from the present rate structure, the
22 understandability and ease of application of the rate structure, community
23 and social influences, and the value of service. General guidelines should

1 be developed with management to determine the extent to which each of
2 these criteria is to be incorporated in the rate structure to be designed,
3 inasmuch as the pricing of a commodity or service is a function of
4 management.

5 Q. Did management discuss rate design guidelines with you?

6 A. Yes, they did. The guidelines were, as follows: (1) No increase for private
7 fire protection rates since the existing rates produce revenues in excess of
8 the cost of service; (2) increase public fire hydrant rates to recover 25% of
9 the cost of service as explained in Mr. Miller's testimony; and (3) increase
10 service charges and volumetric rates so that proposed revenues
11 approximate the indicated cost of service for the industrial class and the
12 remaining classes move toward their respective class cost of service.

13 Q. Do you agree with these guidelines?

14 A. Yes, I do.

15 Q. Do the proposed rates result in movement toward the cost of service for
16 each classification?

17 A. Yes, with the exception of the Other Water Utilities class, the revenues
18 under proposed rates for each customer classification are better aligned with
19 the cost of service than the revenues under present rates, as shown on
20 Schedule A.

21 Q. Have you prepared comparisons of present and proposed rates for each
22 classification and each rate zone?

1 A. Yes. Schedule D on page 40 of the cost allocation study presents
2 comparisons of the present and proposed rates.

3 Q. Have you prepared proof of revenue schedules under present and proposed
4 rates?

5 A. Yes. Schedule E, on pages 41 through 51 of the cost allocation study, sets
6 forth the proof of revenues from the application of present and proposed
7 rates to the customer consumption analysis. The revenues from Schedule E
8 are brought forward to Schedule A, columns 4 and 6.

9 Q. Please explain Schedule F.

10 A. Schedule F sets forth a comparison of customer's bills under present and
11 proposed rates, for each tariff area.

12 Q. Does this conclude your direct testimony?

13 A. Yes, it does.

LIST OF CASES IN WHICH PAUL R. HERBERT TESTIFIED

<u>Year</u>	<u>Jurisdiction</u>	<u>Docket No.</u>	<u>Client/Utility</u>	<u>Subject</u>
1. 1983	Pa. PUC	R-832399	T. W. Phillips Gas and Oil Co.	Pro Forma Revenues
2. 1989	Pa. PUC	R-891208	Pennsylvania-American Water Company	Bill Analysis and Rate Application
3. 1991	PSC of W. Va.	91-106-W-MA	Clarksburg Water Board	Revenue Requirements (Rule 42)
4. 1992	Pa. PUC	R-922276	North Penn Gas Company	Cash Working Capital
5. 1992	NJ BPU	WR92050532J	The Atlantic City Sewerage Company	Cost Allocation and Rate Design
6. 1994	Pa. PUC	R-943053	The York Water Company	Cost Allocation and Rate Design
7. 1994	Pa. PUC	R-943124	City of Bethlehem	Revenue Requirements, Cost Allocation, Rate Design and Cash Working Capital
8. 1994	Pa. PUC	R-943177	Roaring Creek Water Company	Cash Working Capital
9. 1994	Pa. PUC	R-943245	North Penn Gas Company	Cash Working Capital
10. 1994	NJ BPU	WR94070325	The Atlantic City Sewerage Company	Cost Allocation and Rate Design
11. 1995	Pa. PUC	R-953300	Citizens Utilities Water Company of Pennsylvania	Cost Allocation and Rate Design
12. 1995	Pa. PUC	R-953378	Apollo Gas Company	Revenue Requirements and Rate Design
13. 1995	Pa. PUC	R-953379	Carnegie Natural Gas Company	Revenue Requirements and Rate Design
14. 1996	Pa. PUC	R-963619	The York Water Company	Cost Allocation and Rate Design
15. 1997	Pa. PUC	R-973972	Consumers Pennsylvania Water Company - Shenango Valley Division	Cash Working Capital
16. 1998	Ohio PUC	98-178-WS-AIR	Citizens Utilities Company of Ohio	Water and Wastewater Cost Allocation and Rate Design
17. 1998	Pa. PUC	R-984375	City of Bethlehem - Bureau of Water	Revenue Requirement, Cost Allocation and Rate Design
18. 1999	Pa. PUC	R-994605	The York Water Company	Cost Allocation and Rate Design
19. 1999	Pa. PUC	R-994868	Philadelphia Suburban Water Company	Cost Allocation and Rate Design
20. 1999	PSC of W. Va.	99-1570-W-MA	Clarksburg Water Board	Revenue Requirements (Rule 42), Cost Allocation and Rate Design
21. 2000	Ky. PSC	2000-120	Kentucky-American Water Company	Cost Allocation and Rate Design
22. 2000	Pa. PUC	R-00005277	PPL Gas Utilities	Cash Working Capital
23. 2000	NJ BPU	WR00080575	Atlantic City Sewerage Company	Cost Allocation and Rate Design

LIST OF CASES IN WHICH PAUL R. HERBERT TESTIFIED, cont.

24.	2001	Ia. St Util Bd	RPU-01-4	Iowa-American Water Company	Cost Allocation and Rate Design
25.	2001	Va. St. Corp Cm	PUE010312	Virginia-American Water Company	Cost Allocation and Rate Design
26.	2001	WV PSC	01-0326-W-42T	West-Virginia American Water Company	Cost Allocation and Rate Design
27.	2001	Pa. PUC	R-016114	City of Lancaster	Tapping Fee Study
28.	2001	Pa. PUC	R-016236	The York Water Company	Cost Allocation and Rate Design
29.	2001	Pa. PUC	R-016339	Pennsylvania-American Water Company	Cost Allocation and Rate Design
30.	2001	Pa. PUC	R-016750	Philadelphia Suburban Water Company	Cost Allocation and Rate Design
31.	2002	Va. St. Corp. Cm	PUE-2002-00375	Virginia-American Water Company	Cost Allocation and Rate Design

TENNESSEE REGULATORY AUTHORITY

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF CUMBERLAND

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Paul R. Herbert who, being by me first duly sworn deposed and said that:

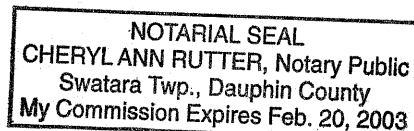
He is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Regulatory Authority, and if present before the Authority and duly sworn, his testimony would set forth in the annexed transcript consisting of twelve (12) pages.


Paul R. Herbert

Sworn to and subscribed before me
this 3rd day of February 2003.


Notary Public

My commission expires FEBRUARY 20, 2003.



TENNESSEE-AMERICAN WATER COMPANY
CHATTANOOGA, TENNESSEE

COST OF SERVICE ALLOCATION STUDY

AS OF JULY 31, 2002

AND

PROPOSED CUSTOMER RATES



Gannett Fleming
Valuation and Rate Division

Harrisburg, Pennsylvania

Calgary, Alberta

Valley Forge, Pennsylvania

TENNESSEE-AMERICAN WATER COMPANY

Chattanooga, Tennessee

COST OF SERVICE ALLOCATION STUDY

AS OF JULY 31, 2002

AND

PROPOSED CUSTOMER RATES

GANNETT FLEMING, INC. - VALUATION AND RATE DIVISION

Harrisburg, Pennsylvania



Gannett Fleming

GANNETT FLEMING, INC.
P.O. Box 67100
Harrisburg, PA 17106-7100

Location:
207 Senate Avenue
Camp Hill, PA 17011

Office: (717) 763-7211
Fax: (717) 763-4590
www.gannettfleming.com

February 3, 2003

Tennessee-American Water Company
P.O. Box 6638
Chattanooga, TN 37401

Attention William F. L'Ecuyer
President

Gentlemen:

Pursuant to your request, we have conducted a cost of service allocation study based on pro forma revenue requirements estimated for the test year ended July 31, 2002, and have prepared proposed rate schedules designed to produce the pro forma revenue requirements.

The attached report presents the results of the study, as well as supporting schedules which set forth the detailed cost allocation calculations. Schedule A on page 7 presents a comparison of the cost of service by customer classification with the pro forma revenues produced by each classification under present and proposed rates.

Respectfully submitted,

GANNETT FLEMING, INC.

PAUL R. HERBERT
Vice President
Valuation and Rate Division

PRH/krm

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PART I. INTRODUCTION

THE YORK WATER COMPANY
COST OF SERVICE ALLOCATION STUDY
AS OF JULY 31, 2002
AND PROPOSED CUSTOMER RATES

PART I. INTRODUCTION

PLAN OF REPORT

The report sets forth the results of the cost of service allocation study as of July 31, 2002, prepared for Tennessee-American Water Company. Part I, Introduction, contains statements with respect to the basis of the study, the procedures employed, and a summary of the results of the study. Part II, Cost of Service by Customer Classification, presents detailed schedules of the allocation of costs to customer classifications, as well as the bases for the allocations. Part III, Proposed Customer Rates, sets forth the proposed rate structure, the application of present and proposed rates to the consumption analysis and comparisons of customers' bills under present and proposed rates.

BASIS OF THE STUDY

The purpose of the study was to allocate costs to several customer classifications based on considerations of quantity of water consumed, variability of rate of flow, and costs associated with metering, billing and accounting. The allocation study was based on recognized procedures for allocating the several categories of costs to customer classifications in proportion to each classification's use of the facilities, commodities and services which entail the total cost of providing water service.

ALLOCATION PROCEDURES

The allocation study was based on the Base-Extra Capacity Method for allocating costs to customer classifications. The method is described in the 2000 and prior editions of the Water Rates Manual, published by the American Water Works Association. The four basic categories of cost responsibility are base, extra capacity, customer and fire protection costs. The following discussions present a brief description of these costs and the manner in which they were allocated.

Base Costs are costs that tend to vary with the quantity of water used, plus costs associated with supplying, treating, pumping and distributing water to customers under average load conditions, without the elements necessary to meet peak demands. Base costs were allocated to customer classifications on the basis of average daily usage.

Extra Capacity Costs are costs associated with meeting usage requirements in excess of the average. They include operating and capital costs for additional plant and system capacity beyond that required for average use. The extra capacity costs in this study are subdivided into costs necessary to meet maximum day extra demand and costs to meet maximum hour extra demand. The extra capacity costs were allocated to customer classifications on the bases of each classification's maximum day and hour usage in excess of average usage. (Extra capacity costs related to fire protection are allocated directly to the fire protection classifications.)

Customer Costs are costs associated with serving customers regardless of their usage or demand characteristics. Customer costs include the operating and capital costs related to meters and services, meter reading costs, and billing and collecting costs. The

customer costs were allocated on the bases of the relative cost of meters and services, the number of meter readings and the number of bills.

Fire Protection Costs are costs associated with providing the facilities to meet the potential peak demand of fire protection service. Fire protection costs are subdivided into costs to meet Public Fire Protection and Private Fire Protection demands. Operating and capital costs for hydrants were assigned directly to Public Fire Protection. The extra capacity costs assigned to fire protection service were allocated to Public and Private Fire Protection on the basis of the total relative demands of the hydrants and fire service lines.

RESULTS OF STUDY

The data summarized in Schedule A, "Comparison of Pro Forma Cost of Service with Revenues Under Present and Proposed Rates for the Twelve Months Ended July 31, 2002," constitute the principal results of the allocation study.

The cost of service by customer classification, shown in column 2 of Schedule A, is developed in Schedule B, "Allocation of Cost of Service to Customer Classifications for the Twelve Months Ended July 31, 2002". The allocation of the total cost of service to the several customer classifications was performed by applying the allocation factors referenced in column 3 to the cost of service by account in column 4. The bases of the allocation factors are presented in Schedule C.

DESIGN OF PROPOSED RATES

The results of the cost of service allocation study were discussed with Company management in order that it be afforded the opportunity of performing its role in the design of proposed rates. The rate design guidelines developed during the discussion were (1) No increase for private fire protection rates since the existing rates produce revenues in excess of the cost of service; (2) increase public fire hydrant rates to recover 25% of the cost of service; and (3) increase service charges and volumetric rates so that proposed revenues approximate the indicated cost of service for the industrial class and the remaining classes move toward their respective class cost of service.

The proposed rate structure, as presented in Part III, Proposed Customer Rates, Schedule D, consists of service charges by meter size and volumetric rates by class and service area. The revenues resulting from the proposed rate structure are shown in columns 6 and 7 of Schedule A, and reflect a closer alignment with the cost of service shown in columns 2 and 3.

The application of the present and proposed base rates to the pro forma consumption analysis is set forth in Schedule E. Comparisons of bills under present and proposed base rates are shown in Schedule F.

TENNESSEE-AMERICAN WATER COMPANY

COMPARISON OF PRO FORMA COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Customer Classification (1)	Pro Forma Cost of Service, as of 7/31/2002		Pro Forma Revenues Under Present Rates		Pro Forma Revenues Under Proposed Rates		Proposed Increase	
	Amount (2)	Percent of Total (3)	Amount (4)	Percent of Total (5)	Amount (6)	Percent of Total (7)	Amount (8)	Percent Increase (9)
Residential	\$16,206,267	48.9%	\$12,026,923	41.0%	\$13,965,819	42.1%	\$1,938,896	16.1%
Commercial	8,817,892	26.6%	9,180,456	31.3%	10,296,191	31.1%	1,115,735	12.2%
Industrial	3,792,025	11.5%	3,537,807	12.1%	3,800,603	11.4%	262,796	7.4%
Other Public Authority	2,556,313	7.7%	2,345,806	8.0%	2,614,469	7.9%	268,663	11.5%
Other Water Utilities	936,299	2.8%	856,218	2.9%	987,768	3.0%	131,550	15.4%
Private Fire Protection	473,962	1.4%	1,117,875	3.8%	1,117,875	3.4%	0	0.0%
Public Fire Protection	368,337	1.1%	256,049	0.9%	368,375	1.1%	112,326	43.9%
Total Sales of Water	33,151,095	100.0%	29,321,134	100.0%	33,151,100	100.0%	3,829,966	13.1%
Other Water Revenues	1,125,076		1,125,076		1,125,076		0	0.0%
Total	<u>\$34,276,171</u>		<u>\$30,446,210</u>		<u>\$34,276,176</u>		<u>\$3,829,966</u>	12.6%

PART II. COST OF SERVICE BY CUSTOMER CLASSIFICATION

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
OPERATION AND MAINTENANCE EXPENSES										
Source of Supply										
----Operation----										
6011	Operating Labor	2	\$4	\$1	\$1		\$0	\$0	\$0	\$0
6011	Operating Expense	2	234	77	69	47	22	17	0	1
6101	Purchased Water	1	17,561	5,453	5,022	3,985	1,624	1,391	30	56
----Maintenance----										
6202	Structures and Improvements	2	108,402	35,881	31,968	21,897	10,342	7,946	119	249
	Subtotal Source of Supply		126,201	41,412	37,060	25,930	11,988	9,354	149	306
Power and Pumping Expenses										
----Operation----										
6011	Gen Sup & Eng Lab Oper PU	6	182,560	60,208	53,654	34,832	17,343	12,104	1,497	2,921
6011	Labor Oper PU	6	807,716	266,385	237,388	154,112	76,733	53,552	6,623	12,923
6151	Purch Power PU	1	1,375,606	427,126	393,423	312,125	127,244	108,948	2,339	4,402
6152	Purch Power PU - Lookout Mtn. Tariff	19	139,029	114,546	19,881	0	4,602	0	0	0
6153	Purch Power PU - Lakeview Tariff	20	35,479	29,231	5,897	0	351	0	0	0
6161	Fuel For Power Production	1	1,343	417	384	305	124	106	2	4
6201	MISC PUMPING EXPENSES-CURRE	6	643	212	189	123	61	43	5	10
6501	SS & PUMP TRANSPORTATION	6	40	13	12	8	4	3	0	1
6751	MISC PUMPING EXP ELECTRIC	6	2,685	886	789	512	255	178	22	43
	Subtotal Power and Pumping		2,545,101	899,024	711,617	502,017	226,717	174,934	10,488	20,304
Water Treatment Expenses										
----Operation----										
6013	Wt Operation Superv & Eng	2	167,848	55,558	49,498	33,905	16,013	12,303	185	386
6013	General Wt Labor	2	36	12	11	7	3	3	0	0
6183	General Chemicals	1	740,531	229,935	211,792	168,026	68,499	58,650	1,259	2,370
6203	Misc Wt Expenses-Current	2	14,802	4,899	4,365	2,990	1,412	1,085	16	34
6353	Other Wt Oper Contract Services	2	51,349	16,997	15,143	10,372	4,899	3,764	56	118
6413	Wt Rents	2	16,998	5,626	5,013	3,434	1,622	1,246	19	39
6503	Wt Oper Transportation	2	339	112	100	68	32	25	0	1
6753	Waste Disposal Exp (Cur)	1	130,151	40,412	37,223	29,531	12,039	10,308	221	416
6753	General Wt Expenses	2	59,612	19,732	17,580	12,042	5,687	4,370	66	137
6753	Misc Wt Expenses-Current	2	51,775	17,138	15,268	10,459	4,939	3,795	57	119

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
----Maintenance----										
6204	Or Mn Wt Struct & Imp Mat	2	26,787	8,866	7,899	5,411	2,555	1,963	29	62
6354	Other Wt Maint Contract Services	2	15,946	5,278	4,702	3,221	1,521	1,169	18	37
6504	Wt Maint Transportation	2	119	39	35	24	11	9	0	0
	Subtotal Water Treatment		1,276,293	404,604	368,629	279,490	119,232	98,690	1,926	3,719
Transmission & Distribution Expenses										
----Operation----										
6015	T&D Operation Super & Eng	8	114,014	63,027	31,240	7,616	8,141	718	1,117	2,155
6015	Storage Facilities Labor	5	114	36	32	21	10	7	2	5
6015	Misc Meter Labor	10	553,258	392,647	124,372	13,223	22,462	553	0	0
6015	Maps and Records Labor	7	477,519	177,160	158,059	55,631	51,142	5,969	10,123	19,435
6155	Storage Facilities Expense	5	165	52	47	30	15	11	4	7
6205	Misc T & D Expenses-Current	7	26,861	9,965	8,891	3,129	2,877	336	569	1,093
6355	Other T & D Oper Contract Services	7	135,576	50,299	44,876	15,795	14,520	1,695	2,874	5,518
6415	T&D Rents	8	1,648	911	452	110	118	10	16	31
6505	Td Oper Transportation	8	1,278	706	350	85	91	8	13	24
6755	T&D Lines Expense	7	5,594	2,075	1,852	652	599	70	119	228
6755	Misc Meter Expenses	10	5,099	3,619	1,146	122	207	5	0	0
6755	Misc T&D Expenses-Current	8	97,455	53,873	26,703	6,510	6,958	614	955	1,842
----Maintenance----										
6016	Or Mn T&D Supr & Eng	9	113,357	55,896	25,925	7,244	7,130	748	3,775	12,639
6016	Or Mn T&D Mains Lab	7	413,068	153,248	136,726	48,122	44,240	5,163	8,757	16,812
6016	Or Mn Services Lab	11	248,823	194,928	31,401	1,294	3,359	25	17,816	0
6016	Or Mn Meters Lab	10	63,667	45,184	14,312	1,522	2,585	64	0	0
6016	Or Mn Hydrants Lab	21	72,167	0	0	0	0	0	0	72,167
6016	Or Mn Other T&D Plant Lab	9	906	447	207	58	57	6	30	101
6206	Or Mn T&D Struct & Imp-Mat	7	539,714	200,234	178,645	62,877	57,803	6,746	11,442	21,966
6356	Other T & D Maint Contract Services	9	642	317	147	41	40	4	21	72
6506	Td Maint Transportation	9	52,692	25,982	12,051	3,367	3,314	348	1,755	5,875
6756	Maps And Records Expenses	9	1,075	530	246	69	68	7	36	120
6756	Or Mn Meters Mat	10	1,726	1,225	388	41	70	2	0	0
	Subtotal Transmission & Distribution		2,926,418	1,432,361	798,068	227,559	225,806	23,109	59,424	160,090

TENNESSEE-AMERICAN WATER COMPANY
ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
Customer Accounting Expenses										
6017	Meter Reading Labor	13	448,685	389,818	53,169	1,301	4,352	45	0	0
6017	Contracts & Orders Labor	12	290,051	250,720	34,197	841	2,813	29	1,392	58
6017	Billing & Acctg Salaries	12	22,843	19,745	2,693	66	222	2	110	5
6047	Employee Benefits Ca	12	200	173	24	1	2	0	1	0
6207	Misc Ca Expenses-Current	12	24,594	21,259	2,900	71	239	2	118	5
6327	Ca Contract Services	12	814	704	96	2	8	0	4	0
6357	Other Ca Contract Services	12	106,671	92,206	12,577	309	1,035	11	512	21
6427	Ca Rents	12	675	583	80	2	7	0	3	0
6507	Ca Transportation	12	3,645	3,151	430	11	35	0	17	1
6707	Uncollectible Accounts	12	280,644	242,589	33,088	814	2,722	28	1,347	56
6757	Meter Reading Expenses	13	1,599	1,389	189	5	16	0	0	0
6757	Collecting Expenses	12	40,940	35,389	4,827	119	397	4	197	8
6757	Billing & Acctg Computer	12	106,289	91,876	12,531	308	1,031	11	510	21
6757	Cust Acctg-Billing/Telephone	12	1,023	884	121	3	10	0	5	0
6757	Cust Acctg-Billing/Postage	12	261,304	225,871	30,808	758	2,535	26	1,254	52
6757	Misc Cust Acctg Expenses	12	(439)	(379)	(52)	(1)	(4)	0	(2)	0
6757	Misc Oper Ca Cust Serv	12	117	101	14	0	1	0	1	0
	Subtotal Customer Accounting		1,589,655	1,376,079	187,692	4,610	15,421	158	5,469	227
Administrative and General Expenses										
6018	Adm & General Salaries	14	1,090,032	598,210	258,665	95,160	69,653	23,000	13,298	32,047
6048	Employee Pensions & Benefits	15	2,048,940	1,101,100	489,902	183,995	131,952	46,306	26,226	69,459
6208	Or Mn General Ag Plant	14	1,224	672	290	107	78	26	15	36
6328	Contract Services - Auditing	14	20,186	11,078	4,790	1,762	1,290	426	246	593
6338	Contract Services - Legal	14	45,557	25,002	10,811	3,977	2,911	961	556	1,339
6348	Management Fees - Water Quality	1	123,000	38,192	35,178	27,909	11,378	9,742	209	394
6348	Management Fees - Cust. Billing/Serv	12	617,000	533,335	72,744	1,789	5,985	62	2,962	123
6348	Management Fees - Administration	14	1,767,276	969,881	419,375	154,283	112,929	37,290	21,561	51,958
6358	Contract Services - Other	14	14,221	7,804	3,375	1,241	909	300	173	418
6428	Adm & General Rents	14	23,408	12,846	5,555	2,044	1,496	494	286	688
6508	Ag Transportation	14	251,198	137,857	59,609	21,930	16,052	5,300	3,065	7,385
6578	General Liability	14	375,670	206,168	89,146	32,796	24,005	7,927	4,583	11,045
6588	Workmens Comp Premium Exp	15	130,546	70,155	31,214	11,723	8,407	2,950	1,671	4,426
6598	Insurance Other	14	203,470	111,664	48,283	17,763	13,002	4,293	2,482	5,982
6608	Advertising Exp	14	97,592	53,558	23,159	8,520	6,236	2,059	1,191	2,869
6668	Regulatory Commission Expenses	18	83,000	39,151	21,298	9,163	6,175	2,341	1,187	3,685

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
6758	Expenses Of Employees	15	22,417	12,047	5,360	2,013	1,444	507	287	760
6758	Misc Office Expenses	14	215,470	118,250	51,131	18,811	13,769	4,546	2,629	6,335
6758	Injuries & Damages Exp	14	11,223	6,159	2,663	980	717	237	137	330
6758	Research & Dev-Service Co	14	497	273	118	43	32	10	6	15
6758	Or Mn A&G Struc & Imp Mat	14	21,392	11,740	5,076	1,868	1,367	451	261	629
6758	Miscellaneous General Exp	14	520,510	285,656	123,517	45,441	33,261	10,983	6,350	15,303
	Subtotal Administrative and General		7,683,829	4,350,798	1,761,259	643,318	463,048	160,211	89,381	215,819
Total Operation & Maintenance Expenses			16,147,497	8,504,278	3,864,325	1,682,924	1,062,212	466,456	166,837	400,465

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
DEPRECIATION EXPENSE										
Intangible										
303.99	Comprehensive Planning Study	14	81,026	44,467	19,227	7,074	5,178	1,710	989	2,382
Source of Supply										
303.00	Land & Land Rights	2	0	0	0	0	0	0	0	0
304.53	Miscellaneous Structures	2	21,609	7,153	6,372	4,365	2,061	1,584	24	50
306.20	Lakes, Rivers, & Other Intakes	2	9,569	3,167	2,822	1,933	913	701	11	22
339.00	Other P/E SS	2	505	167	149	102	48	37	1	1
Pumping Equipment										
304.22	Pumping Structures	6	71,094	23,447	20,895	13,565	6,754	4,714	583	1,138
	Lookout Mountain Tariff	19	528	435	76	0	17	0	0	0
	Lakeview Tariff	20	648	534	108	0	6	0	0	0
310.20	Power Generation Equipment	6	7,644	2,521	2,247	1,458	726	507	63	122
311.22	Electric Pumping Equipment	6	90,500	29,847	26,598	17,267	8,598	6,000	742	1,448
	Lookout Mountain Tariff	19	5,937	4,891	849	0	197	0	0	0
	Lakeview Tariff	20	1,490	1,228	248	0	15	0	0	0
311.23	Deisel Pumping Equipment	6	2,350	775	691	448	223	156	19	38
311.27	Other Pumping Equipment	6	203	67	60	39	19	13	2	3
Water Treatment										
303.00	Land & Land Rights	2	0	0	0	0	0	0	0	0
304.31	Water Treatment Structures	2	77,972	25,809	22,994	15,750	7,439	5,715	86	179
304.32	Water Treatment Structures-Painting	2	170,079	56,296	50,156	34,356	16,226	12,467	187	391
320.31	Water Treatment Equipment	2	522,828	173,056	154,182	105,611	49,878	38,323	575	1,203
320.33	Granular Activated Carbon	2	0	0	0	0	0	0	0	0
Transmission & Distribution										
303.00	Land & Land Rights	7	0	0	0	0	0	0	0	0
304.40	T & D Structures	7	17,642	6,545	5,840	2,055	1,889	221	374	718
330.41	T & D Reservoirs & Standpipes	5	82,842	26,244	23,395	15,119	7,572	5,277	1,789	3,446
	Lookout Mountain Tariff	19	3,484	2,870	498	0	115	0	0	0
	Lakeview Tariff	20	821	676	136	0	8	0	0	0
330.42	T & D Reservoirs & Standpipes-Paintlin	5	108,064	34,235	30,517	19,722	9,877	6,884	2,334	4,495
	Lookout Mountain Tariff	19	4,096	3,375	586	0	136	0	0	0
330.43	Elevated Tanks & Standpipes	5	2,922	926	825	533	267	186	63	122

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number	Account Description	Factor Ref.	Cost of Service	Residential	Commercial	Industrial	Other Public Authority	Other Water Utilities	Private Fire Protection	Public Fire Protection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
331.40	T & D Mains not Classified	4	43,103	16,422	14,651	4,293	4,741	0	1,026	1,970
331.41	T & D Mains - Mains (4" or less)	4	60,866	23,190	20,688	6,062	6,695	0	1,449	2,782
331.44	T & D Mains - Mains (6" - 8")	4	5,125	1,953	1,742	510	564	0	122	234
331.42	T & D Mains - Mains (6" - 10")	4	642,041	244,617	218,230	63,947	70,625	0	15,281	29,341
331.45	T & D Mains - Mains (10" - 16")	3	19,087	6,178	5,501	3,770	1,779	1,369	168	323
331.43	T & D Mains - Mains (12" or More)	3	285,312	92,355	82,227	56,349	26,591	20,457	2,511	4,822
333.40	Services	11	321,036	251,500	40,515	1,669	4,334	32	22,986	0
334.41	Meters	10	23,742	16,850	5,337	567	964	24	0	0
334.42	Meters-Metal Case/Old Style	10	0	0	0	0	0	0	0	0
334.43	Meters - Plastic Case	10	14,064	9,981	3,162	336	571	14	0	0
334.44	Meters - Metal Case/New Style	10	1,773	1,258	399	42	72	2	0	0
334.45	Meter Installations	10	103,942	73,768	23,366	2,484	4,220	104	0	0
335.40	Hydrants	21	127,499	0	0	0	0	0	0	127,499
General Plant										
303.00	Land & Land Rights	14	0	0	0	0	0	0	0	0
304.51	Office Structures	14	6,031	3,310	1,431	527	385	127	74	177
304.52	Stores , Shop, & Garage Structures	14	14,868	8,160	3,528	1,298	950	314	181	437
340.51	Office Furniture	14	14,169	7,776	3,362	1,237	905	299	173	417
340.53	Computer & Peripheral Equipment	14	361,106	198,175	85,690	31,525	23,075	7,619	4,405	10,617
340.56	Computer & Periph Personal	14	193,468	106,175	45,910	16,890	12,363	4,082	2,360	5,688
340.57	Computer & Periph Other	14	13,375	7,340	3,174	1,168	855	282	163	393
340.55	Computer Software	14	166,850	91,566	39,594	14,566	10,662	3,521	2,036	4,905
340.58	Computer Software Personal	14	51,040	28,010	12,112	4,456	3,261	1,077	623	1,501
340.59	Computer Software Other	14	28,445	15,611	6,750	2,483	1,818	600	347	836
340.54	Other Office Equipment	14	5,584	3,064	1,325	487	357	118	68	164
341.52	Light Trucks	14	104,282	57,229	24,746	9,104	6,664	2,200	1,272	3,066
341.53	Heavy Trucks	14	69,654	38,225	16,529	6,081	4,451	1,470	850	2,048
341.54	Automobiles	14	17,264	9,473	4,097	1,507	1,103	364	211	508
341.55	Transportation-Other	14	248	136	59	22	16	5	3	7
342.50	Stores Equipment	14	2,161	1,185	513	189	138	46	26	64
343.50	Tools, Shop, & Garage Equipment	14	30,089	16,512	7,140	2,627	1,923	635	367	885
344.50	Laboratory Equipment	2	37,080	12,273	10,935	7,490	3,537	2,718	41	85
345.50	Power Operated Equipment	14	20,754	11,390	4,925	1,812	1,326	438	253	610
346.51	Communication Equipment	14	20,791	11,409	4,934	1,815	1,329	439	254	611
346.53	Communication Equipment-Telephone	14	26,281	14,423	6,236	2,294	1,679	555	321	773
347.51	Miscellaneous Structures	14	8,094	4,441	1,921	707	517	171	99	238
Total Depreciation Expense			4,123,077	1,832,686	1,070,200	487,711	316,632	133,577	65,512	216,759

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
AMORTIZATIONS										
681	Amort of CIAC	4	(107,357)	(40,903)	(36,491)	(10,693)	(11,809)	0	(2,555)	(4,906)
681	Amort of Capital Leases	14	106,033	58,190	25,162	9,257	6,776	2,237	1,294	3,117
	Total Depreciation & Amortization		4,121,753	1,849,973	1,058,871	486,275	311,599	135,814	64,251	214,970
TAXES OTHER THAN INCOME TAXES										
685	Property Taxes	16	2,660,657	1,098,053	738,066	300,920	224,826	64,920	51,351	182,521
685	FUTA Oper AG	15	5,557	2,987	1,329	499	358	126	71	188
685	FICA Oper AG	15	375,600	201,846	89,806	33,729	24,189	8,489	4,808	12,733
685	SUTA Oper AG	15	278	149	66	25	18	6	4	9
685	Franchise Taxes	18	251,047	118,419	64,419	27,716	18,678	7,080	3,590	11,146
685	PSC Fee	18	56,538	26,669	14,508	6,242	4,206	1,594	808	2,510
685	Filing Fee	18	150	71	38	17	11	4	2	7
685	Gross Receipts Tax	18	414,297	195,424	106,309	45,738	30,824	11,683	5,924	18,395
	Total Taxes Other Than Income Taxes		3,764,124	1,643,618	1,014,541	414,886	303,110	93,902	66,558	227,509
INCOME TAXES										
409	Federal and State Income Taxes	17	2,773,308	1,161,185	762,382	315,602	231,017	71,274	51,306	180,542
	Total Income Taxes		2,773,308	1,161,185	762,382	315,602	231,017	71,274	51,306	180,542
UTILITY OPERATING INCOME										
17			7,469,489	3,127,474	2,053,363	850,028	622,208	191,966	138,186	486,264
	Total Cost of Service		34,276,171	16,286,528	8,753,482	3,749,715	2,530,146	959,412	487,138	1,509,750
Less:										
18	Other Revenues		(818,522)	(386,097)	(210,033)	(90,365)	(60,898)	(23,082)	(11,705)	(36,342)
12	Billing Services		(306,554)	(264,985)	(36,143)	(889)	(2,974)	(31)	(1,471)	(61)
	Total Cost of Service Related to Sales		33,151,095	15,635,446	8,507,306	3,658,461	2,466,274	936,299	473,962	1,473,347
	Allocation of Public Fire		0	570,821	310,586	133,564	90,039	0	0	(1,105,010)
	Total		\$33,151,095	\$16,206,267	\$8,817,892	\$3,792,025	\$2,556,313	\$936,299	\$473,962	\$368,337

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS

FACTOR 1. ALLOCATION OF COSTS WHICH VARY WITH THE AMOUNT OF WATER CONSUMED.

Factors are based on the pro forma test year average daily consumption for each customer classification.

Customer Classification (1)	Average Daily Consumption, 100 Cu. Ft. (2)	Allocation Factor (3)
Residential	12,690	0.3105
Commercial	11,690	0.2860
Industrial	9,271	0.2269
Other Public Authority	3,782	0.0925
Other Water Utilities	3,236	0.0792
Private Fire Protection	68	0.0017
Public Fire Protection	131	0.0032
Total	40,868	1.0000

FACTOR 2. ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE AND MAXIMUM DAY EXTRA CAPACITY FUNCTIONS.

Factors are based on the weighting of the factors for average daily consumption (Factor 1) and the factors derived from maximum day extra capacity demand for each customer classification, as follows:

Customer Classification (1)	Average Daily Consumption		Maximum Day Extra Capacity		Allocation Factor (6)=(3)+(5)
	Allocation Factor 1 (2)	Weighted Factor (3)=(2)x 0.7143	Allocation Factor (4)	Weighted Factor (5)=(4)x 0.2857	
Residential	0.3105	0.2218	0.3823	0.1092	0.3310
Commercial	0.2860	0.2043	0.3170	0.0906	0.2949
Industrial	0.2269	0.1621	0.1397	0.0399	0.2020
Other Public Authority	0.0925	0.0661	0.1025	0.0293	0.0954
Other Water Utilities	0.0792	0.0566	0.0585	0.0167	0.0733
Private Fire Protection	0.0017	0.0011			0.0011
Public Fire Protection	0.0032	0.0023			0.0023
Total	1.0000	0.7143	1.0000	0.2857	1.0000

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 2. ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE AND
MAXIMUM DAY EXTRA CAPACITY FUNCTIONS, cont.

Customer Classification (1)	Average Daily Consumption, 100 Cu. Ft. (2)	Maximum Day Extra Capacity		Allocation Factor (5)
		Factor* (3)	Rate of Flow, 100 Cu. Ft. Per Day (4)=(2)x(3)	
Residential	12,690	1.0	12,690.0	0.3823
Commercial	11,690	0.9	10,521.0	0.3170
Industrial	9,271	0.5	4,635.5	0.1397
Other Public Authority	3,782	0.9	3,403.8	0.1025
Other Water Utilities	3,236	0.6	1,941.6	0.0585
Subtotal	40,669		33,191.9	1.0000

The weighting of the factors is based on the maximum day ratio of 1.40, based on a review of maximum day ratios experienced during the period 1995 through 2001.

	Maximum Day Ratio	Weight
Average Day	1.00	0.7143
Maximum Day Extra Capacity	0.40	0.2857
Total	1.40	1.0000

* Ratio of maximum day to average day minus 1.0.

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 3. ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE, MAXIMUM DAY AND FIRE SERVICE FUNCTIONS.

Factors are based on the weighting of the factors for average daily consumption (Factor 1), the factors derived from maximum day extra capacity demand and the fire protection demand by each customer classification, as follows:

Customer Classification (1)	Average Daily Consumption		Maximum Day Extra Capacity		Fire Protection		Allocation Factor (8)=(3)+(5)+(7)
	Allocation Factor 1 (2)	Weighted Factor (3)=(2)x 0.6984	Allocation Factor (4)	Weighted Factor (5)=(4)x 0.2793	Allocation Factor (6)	Weighted Factor (7)=(6)x 0.0223	
Residential	0.3105	0.2169	0.3823	0.1068			0.3237
Commercial	0.2860	0.1997	0.3170	0.0885			0.2882
Industrial	0.2269	0.1585	0.1397	0.0390			0.1975
Other Public Authority	0.0925	0.0646	0.1025	0.0286			0.0932
Other Water Utilities	0.0792	0.0553	0.0585	0.0164			0.0717
Private Fire Protection	0.0017	0.0012			0.3424	0.0076	0.0088
Public Fire Protection	0.0032	0.0022			0.6576	0.0147	0.0169
Subtotal	1.0000	0.6984	1.0000	0.2793	1.0000	0.0223	1.0000

The weighting of the factors is based on the maximum day ratio of 1.40 and the system demand for fire protection, as shown below. The fire protection factors in column 6 are developed on the following page.

Maximum Day Ratio		System Delivery, GPD		Weight
Average Day				
Maximum Day Extra Capacity	1.00	39,452,274		0.6984
Subtotal	0.40	15,780,910		0.2793
	1.40	55,233,184		0.9777
Fire Protection		1,260,000		0.0223
Total		56,493,184		1.0000

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

BASIS FOR ALLOCATION OF DEMAND-RELATED COSTS OF
FIRE SERVICE TO PRIVATE AND PUBLIC FIRE PROTECTION

Description (1)	Restrictive Diameter(s) Squared (2)	Number of Units (3)	Relative Demand (4)=(2)X(3)	Allocation Factor (5)
<u>Private Fire Protection</u>				
1 -Inch Fire Line	1.00	0	0	
1.5 -Inch Fire Line	2.25	1	2	
2 -Inch Fire Line	4.00	6	24	
2.5 -Inch Fire Line	6.25	1	6	
3 -Inch Fire Line	9.00	1	9	
4 -Inch Fire Line	16.00	73	1,168	
6 -Inch Fire Line	36.00	705	25,380	
8 -Inch Fire Line	64.00	287	18,368	
10 -Inch Fire Line	100.00	15	1,500	
12 -Inch Fire Line	144.00	18	2,592	
Total Private Fire Protection		1,107	49,050	0.3424
<u>Public Fire Protection</u>				
4-1/2 inch, 3 way	20.25	4,653	94,223	
Total Public Fire Protection		4,653	94,223	0.6576
Total Fire Protection Service		5,760	143,273	1.0000

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 4. ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE, MAXIMUM HOUR AND FIRE SERVICE FUNCTIONS.

Factors are based on the weighting of the factors for the adjusted average hour consumption, the factors derived from maximum hour extra capacity demand and the fire protection demand by each customer classification, as follows:

Customer Classification (1)	Average Hour Consumption		Maximum Hour Extra Capacity		Fire Protection		Allocation Factor (8)=(3)+(5)+(7)
	Allocation Factor (2)	Weighted Factor (3)=(2)x 0.5187	Allocation Factor (4)	Weighted Factor (5)=(4)x 0.4150	Allocation Factor (6)	Weighted Factor (7)=(6)x 0.0663	
Residential	0.3902	0.2024	0.4303	0.1786			0.3810
Commercial	0.3594	0.1864	0.3700	0.1535			0.3399
Industrial	0.1280	0.0664	0.0800	0.0332			0.0996
Other Public Authority	0.1163	0.0603	0.1197	0.0497			0.1100
Other Water Utilities	0.0000	0.0000	0.0000	0.0000			0.0000
Private Fire Protection	0.0021	0.0011			0.3424	0.0227	0.0238
Public Fire Protection	0.0040	0.0021			0.6576	0.0436	0.0457
Subtotal	1.0000	0.5187	1.0000	0.4150	1.0000	0.0663	1.0000

The weighting of the factors and the maximum hour extra capacity factors in column 4 are shown on the following page.

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 4. ALLOCATION OF COSTS ASSOCIATED WITH FACILITIES SERVING BASE, MAXIMUM HOUR AND FIRE SERVICE FUNCTIONS.

Customer Classification (1)	Average Hour Consumption, 100 Cu. Ft. (2)	Maximum Hour Extra Capacity		Allocation Factor (5)
		Factor* (3)	Rate of Flow, 100 Cu. Ft. Per Hour (4)=(2)x(3)	
Residential	528.8	3.0	1,586.4	0.4303
Commercial	487.1	2.8	1,363.9	0.3700
Industrial	173.5	1.7	295.0	0.0800
Other Public Authority	157.6	2.8	441.3	0.1197
Other Water Utilities	0.0	1.7	0.0	0.0000
Total	<u>1,347.0</u>		<u>3,686.6</u>	<u>1.0000</u>

The weighting of the factors is based on the maximum hour ratio of 1.80 and the system demand for fire protection, as follows:

	Maximum Hour Ratio	System Delivery, GPM	Weight
Average Hour	1.00	27,397	0.5187
Maximum Hour Extra Capacity	0.80	21,918	0.4150
Subtotal	<u>1.80</u>	<u>49,315</u>	<u>0.9337</u>
Fire Protection		3,500	0.0663
Total		<u>52,815</u>	<u>1.0000</u>

* Ratio of maximum hour to average day minus 1.0.

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 5. ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES.

Factors are based on the weighting of the factors for average hour consumption (Factor 1), the factors derived from maximum hour extra capacity demand and the fire protection demand by each customer classification, as follows:

Customer Classification (1)	Average Hour Consumption		Maximum Hour Extra Capacity		Fire Protection		Allocation Factor (8)=(3)+(5)+(7)
	Allocation Factor 1 (2)	Weighted Factor (3)=(2)x 0.5219	Allocation Factor (4)	Weighted Factor (5)=(4)x 0.4175	Allocation Factor (6)	Weighted Factor (7)=(6)x 0.0606	
Residential	0.3105	0.1620	0.3709	0.1548			0.3168
Commercial	0.2860	0.1493	0.3188	0.1331			0.2824
Industrial	0.2269	0.1184	0.1535	0.0641			0.1825
Other Public Authority	0.0925	0.0483	0.1032	0.0431			0.0914
Other Water Utilities	0.0792	0.0413	0.0536	0.0224			0.0637
Private Fire Protection	0.0017	0.0009			0.3424	0.0207	0.0216
Public Fire Protection	0.0032	0.0017			0.6576	0.0399	0.0416
Subtotal	1.0000	0.5219	1.0000	0.4175	1.0000	0.0606	1.0000

The weighting of the factors and the maximum hour extra capacity factors in column 4 are shown on the following page.

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 5. ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES.

Customer Classification (1)	Average Hour Consumption, 100 Cu. Ft. (2)	Maximum Hour Extra Capacity		Allocation Factor (5)
		Factor* (3)	Rate of Flow, 100 Cu. Ft. Per Hour (4)=(2)x(3)	
Residential	528.8	3.0	1,586.4	0.3709
Commercial	487.1	2.8	1,363.9	0.3188
Industrial	386.3	1.7	656.7	0.1535
Other Public Authority	157.6	2.8	441.3	0.1032
Other Water Utilities	134.8	1.7	229.2	0.0536
Total	<u>1,694.6</u>		<u>4,277.5</u>	<u>1.0000</u>

* Ratio of maximum hour to average day minus 1.0.

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 5. ALLOCATION OF COSTS ASSOCIATED WITH STORAGE FACILITIES.

The weighting of the factors is based on the ratio of the capacity required for a 6-hour demand of fire flow, as related to total storage capacity.

$$\begin{aligned} \text{Fire Protection Weight} &= \frac{3,500 \text{ GPM} \times 60 \text{ min.} \times 6 \text{ Hours}}{20,806,000 \text{ Gallons Storage}} = 0.0606 \\ \text{General Service Weight} &= 1.0000 - 0.0606 = 0.9394 \end{aligned}$$

The weighting of the average hourly consumption and maximum hour extra demand for general service is based on the maximum hour ratio, as follows.

	Maximum Hour Ratio	Percent	Weight
Average Hour	1.00	55.56	0.5219
Extra Capacity Maximum Hour	0.80	44.44	0.4175
Total	1.80	100.00	0.9394

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 6. ALLOCATION OF COSTS ASSOCIATED WITH POWER AND PUMPING FACILITIES.

Factors are based on the weighting of the factors for maximum daily demand (Factor 2), maximum day extra capacity and fire demand (Factor 3) and maximum hour extra capacity and fire demand (Factor 4) for each customer classification.

Customer Classification	Maximum Day Extra Capacity		Maximum Day Extra Capacity and Fire		Maximum Hour Extra Capacity and Fire		Allocation Factor (8)=(3)+(5)+(7)
	Allocation Factor 2 (2)	Weighted Factor (3)=(2)x 0.2200	Allocation Factor 3 (4)	Weighted Factor (5)=(4)x 0.7001	Allocation Factor 4 (6)	Weighted Factor (7)=(6)x 0.0799	
Residential	0.3310	0.0728	0.3237	0.2266	0.3810	0.0304	0.3298
Commercial	0.2949	0.0649	0.2882	0.2018	0.3399	0.0272	0.2939
Industrial	0.2020	0.0445	0.1975	0.1383	0.0996	0.0080	0.1908
Other Public Authority	0.0954	0.0210	0.0932	0.0652	0.1100	0.0088	0.0950
Other Water Utilities	0.0733	0.0161	0.0717	0.0502	0.0000	0.0000	0.0663
Private Fire Protection	0.0011	0.0002	0.0088	0.0062	0.0238	0.0018	0.0082
Public Fire Protection	0.0023	0.0005	0.0169	0.0118	0.0457	0.0037	0.0160
Subtotal	1.0000	0.2200	1.0000	0.7001	1.0000	0.0799	1.0000

The weighting of the factors is based on an analysis of pumping equipment by function, as follows:

	Horse Power of Pumps	Weight
Maximum Day Extra Capacity	2,700	0.2200
Maximum Day Extra Capacity and Fire	8,590	0.7001
Maximum Hour Extra Capacity and Fire	980	0.0799
Total	12,270	1.0000

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 7. ALLOCATION OF COSTS ASSOCIATED WITH TRANSMISSION AND DISTRIBUTION MAINS.

Factors are based on the weighting of the factors for maximum day extra capacity and fire demand (Factor 3) and maximum hour extra capacity and fire demand (Factor 4) for each customer classification, as follows:

Customer Classification (1)	Maximum Day Extra Capacity and Fire		Maximum Hour Extra Capacity and Fire		Allocation Factor (6)=(3)+(5)
	Allocation Factor 3 (2)	Weighted Factor (3)=(2)x 0.1734	Allocation Factor 4 (4)	Weighted Factor (5)=(4)x 0.8266	
Residential	0.3237	0.0561	0.3810	0.3149	0.3710
Commercial	0.2882	0.0500	0.3399	0.2810	0.3310
Industrial	0.1975	0.0342	0.0996	0.0823	0.1165
Other Public Authority	0.0932	0.0162	0.1100	0.0909	0.1071
Other Water Utilities	0.0717	0.0125	0.0000	0.0000	0.0125
Private Fire Protection	0.0088	0.0015	0.0238	0.0197	0.0212
Public Fire Protection	0.0169	0.0029	0.0457	0.0378	0.0407
Total	<u>1.0000</u>	<u>0.1734</u>	<u>1.0000</u>	<u>0.8266</u>	<u>1.0000</u>

The weighting of the factors is based on the footage of transmission and distribution mains as set forth below:

	Footage of Mains	Weight
Transmission Mains	1,135,333	0.1734
Distribution Mains	<u>5,411,843</u>	<u>0.8266</u>
Total	<u>6,547,176</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 8. ALLOCATION OF TRANSMISSION AND DISTRIBUTION OPERATIONS AND SUPERVISION EXPENSES.

Factors are based on the allocation of transmission and distribution operation labor, as follows:

Customer Classification (1)	Transmission & Distribution Operating Labor (2)	Allocation Factor (3)
Residential	\$569,843	0.5528
Commercial	282,463	0.2740
Industrial	68,875	0.0668
Other Public Authority	73,614	0.0714
Other Water Utilities	6,529	0.0063
Private Fire Protection	10,125	0.0098
Public Fire Protection	19,440	0.0189
Total	<u>\$1,030,889</u>	<u>1.0000</u>

FACTOR 9. ALLOCATION OF TRANSMISSION AND DISTRIBUTION MAINTENANCE SUPERVISION EXPENSES.

Factors are based on the allocation of transmission and distribution maintenance labor, as follows:

Customer Classification (1)	Transmission & Distribution Maintenance Labor (2)	Allocation Factor (3)
Residential	\$393,360	0.4931
Commercial	182,439	0.2287
Industrial	50,938	0.0639
Other Public Authority	50,184	0.0629
Other Water Utilities	5,252	0.0066
Private Fire Protection	26,573	0.0333
Public Fire Protection	88,979	0.1115
Total	<u>\$797,725</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 10. ALLOCATION OF COSTS ASSOCIATED WITH METERS.

Factors are based on the relative cost of meters by size as developed on the following page and summarized below:

<u>Customer Classification</u> (1)	<u>Meter Equivalents</u> (2)	<u>Allocation Factor</u> (3)
Residential	61,266	0.7097
Commercial	19,409	0.2248
Industrial	2,062	0.0239
Other Public Authority	3,508	0.0406
Other Water Utilities	83	0.001
Subtotal	<u>86,328</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.
BASIS FOR ALLOCATING METER COSTS TO CUSTOMER CLASSIFICATIONS

Meter Size (1)	5/8" Equivalent (2)	Residential		Commercial		Industrial		Other Public Authority		Other Water Utilities	
		Number of Meters (3)	Weighting (4)=(2)x(3)	Number of Meters (5)	Weighting (6)=(2)x(5)	Number of Meters (7)	Weighting (8)=(2)x(7)	Number of Meters (9)	Weighting (10)=(2)x(9)	Number of Meters (11)	Weighting (12)=(2)x(11)
5/8-inch	1.0	60,428	60,428	5,479	5,479	27	27	186	186	0	0
3/4-inch	1.5	105	158	107	161	3	5	11	17	0	0
1-inch	2.5	224	560	1,412	3,530	30	75	141	353	0	0
1-1/2-inch	5.0	8	40	282	1,410	6	30	58	290	0	0
2-inch	8.0	10	80	958	7,664	100	800	259	2,072	1	8
3-inch	15.0	0	0	31	465	0	0	6	90	0	0
4-inch	25.0	0	0	16	400	35	875	18	450	3	75
6-inch	50.0	0	0	6	300	5	250	1	50	0	0
Total		60,775	61,266	8,291	19,409	206	2,062	680	3,508	4	83

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 11. ALLOCATION OF COSTS ASSOCIATED WITH SERVICES.

Factors are based on the relative cost of services by size as developed on the following page and summarized below:

<u>Customer Classification</u> (1)	<u>Service Equivalents</u> (2)	<u>Allocation Factor</u> (3)
Residential	60,835	0.7834
Commercial	9,802	0.1262
Industrial	399	0.0052
Other Public Authority	1,049	0.0135
Other Water Utilities	11	0.0001
Private Fire Protection	5,564	0.0716
Subtotal	<u>77,660</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.
BASIS FOR ALLOCATING SERVICES COSTS TO CUSTOMER CLASSIFICATIONS

Meter Size (1)	3/4" Equivalent (2)	Residential Number of Services (3)	Weighting (4)=(2)x(3)	Commercial Number of Services (5)	Weighting (6)=(2)x(5)	Industrial Number of Services (7)	Weighting (8)=(2)x(7)	Other Public Authority Number of Services (9)	Weighting (10)=(2)x(9)	Other Water Utilities Number of Services (11)	Weighting (12)=(2)x(11)	Private Fire Service Number of Services (13)	Weighting (14)=(2)x(13)
3/4-inch	1.0	60,533	60,533	5,586	5,586	30	30	197	197	0	0	0	0
1-inch	1.2	224	269	1,412	1,694	30	36	141	169	0	0	0	0
1-1/2-inch	1.6	8	13	282	451	6	10	58	93	0	0	1	2
2-inch	2.0	10	20	958	1,916	100	200	259	518	1	2	7	14
3-inch	2.7	0	0	31	84	0	0	6	16	0	0	1	3
4-inch	2.9	0	0	16	46	35	102	18	52	3	9	73	212
6-inch	4.2	0	0	6	25	5	21	1	4	0	0	705	2,961
8-inch	7.0	0	0	0	0	0	0	0	0	0	0	287	2,009
10-inch	9.5	0	0	0	0	0	0	0	0	0	0	15	143
12-inch	12.2	0	0	0	0	0	0	0	0	0	0	18	220
Total		60,775	60,835	8,291	9,802	206	399	680	1,049	4	11	1,107	5,564

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 12. ALLOCATION OF CUSTOMER ACCOUNTING COSTS.

Factors are based on the number of bills by classification, as follows:

Customer Classification (1)	Number of Bills (2)	Allocation Factor (3)
Residential	729,308	0.8644
Commercial	99,493	0.1179
Industrial	2,462	0.0029
Other Public Authority	8,150	0.0097
Other Water Utilities	49	0.0001
Private Fire Protection	4,076	0.0048
Public Fire Protection	132	0.0002
Total	<u>843,670</u>	<u>1.0000</u>

FACTOR 13. ALLOCATION OF METER READING COSTS.

Factors are based on the number of meter readings by classification, as follows:

Customer Classification (1)	Number of Meter Readings (2)	Allocation Factor (3)
Residential	729,308	0.8688
Commercial	99,493	0.1185
Industrial	2,462	0.0029
Other Public Authority	8,150	0.0097
Other Water Utilities	49	0.0001
Total	<u>839,462</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 14. ALLOCATION OF ADMINISTRATIVE AND GENERAL EXPENSE.

Factors are based on the allocation of operation and maintenance expenses excluding power and chemicals, as follows:

Customer Classification (1)	Operation and Maintenance Expenses (2)	Allocation Factor (3)
Residential	\$3,306,360	0.5488
Commercial	1,429,444	0.2373
Industrial	525,634	0.0873
Other Public Authority	384,681	0.0639
Other Water Utilities	126,842	0.0211
Private Fire Protection	73,605	0.0122
Public Fire Protection	177,398	0.0294
Total	<u>\$6,023,964</u>	<u>1.0000</u>

FACTOR 15. ALLOCATION OF LABOR RELATED TAXES AND BENEFITS.

Factors are based on the allocation of operation and maintenance labor expense, as follows:

Customer Classification (1)	Labor Expense (2)	Allocation Factor (3)
Residential	\$2,723,230	0.5374
Commercial	1,211,550	0.2391
Industrial	454,956	0.0898
Other Public Authority	326,258	0.0644
Other Water Utilities	114,291	0.0226
Private Fire Protection	64,725	0.0128
Public Fire Protection	171,654	0.0339
Total	<u>5,066,664</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 16. ALLOCATION OF INTANGIBLE PLANT AND OTHER RATE BASE ELEMENTS.

Factors are based on the allocation of utility plant in service less depreciation, follows:

Customer Classification (1)	Utility Plant in Service Less Depreciation Reserve (2)	Allocation Factor (3)
Residential	\$43,596,105	0.4127
Commercial	29,307,203	0.2774
Industrial	11,945,034	0.1131
Other Public Authority	8,932,216	0.0845
Other Water Utilities	2,573,682	0.0244
Private Fire Protection	2,043,044	0.0193
Public Fire Protection	7,247,094	0.0686
Total	<u>\$105,644,378</u>	<u>1.0000</u>

FACTOR 17. ALLOCATION OF INCOME TAXES AND INCOME AVAILABLE FOR RETURN.

Factors are based on the allocation of original cost rate base, as shown on the following pages and summarized below.

Customer Classification (1)	Original Cost Rate Base (2)	Allocation Factor (3)
Residential	\$36,535,208	0.4187
Commercial	23,991,494	0.2749
Industrial	9,935,124	0.1138
Other Public Authority	7,269,403	0.0833
Other Water Utilities	2,240,703	0.0257
Private Fire Protection	1,617,059	0.0185
Public Fire Protection	5,681,590	0.0651
Total	<u>\$87,270,581</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY
ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
UTILITY PLANT IN SERVICE LESS DEPRECIATION										
Intangible										
303.99	Comprehensive Planning Study	16	356,672	147,199	98,941	40,340	30,139	8,703	6,884	24,468
Source of Supply										
303.00	Land & Land Rights	2	73,444	24,310	21,659	14,836	7,007	5,383	81	169
304.53	Miscellaneous Structures	2	370,538	122,648	109,272	74,849	35,349	27,160	408	852
306.20	Lakes, Rivers, & Other Intakes	2	180,093	59,611	53,109	36,379	17,181	13,201	198	414
339.00	Other P/E SS	2	4,894	1,619	1,443	989	467	359	5	11
Pumping Equipment										
304.22	Pumping Structures	6	1,212,468	399,872	356,344	231,339	115,184	80,387	9,942	19,399
	Lookout Mountain Tariff	19	9,008	7,422	1,288	0	298	0	0	0
	Lakeview Tariff	20	11,057	9,110	1,838	0	109	0	0	0
310.20	Power Generation Equipment	6	241,523	79,654	70,984	46,083	22,945	16,013	1,980	3,864
311.22	Electric Pumping Equipment	6	3,338,200	1,100,938	981,097	636,929	317,129	221,323	27,373	53,411
	Lookout Mountain Tariff	19	216,971	178,762	31,027	0	7,182	0	0	0
	Lakeview Tariff	20	54,460	44,870	9,051	0	539	0	0	0
311.23	Deisel Pumping Equipment	6	117,926	38,892	34,658	22,500	11,203	7,818	967	1,887
311.27	Other Pumping Equipment	6	5,027	1,658	1,477	959	478	333	41	80
Water Treatment										
303.00	Land & Land Rights	2	18,009	5,961	5,311	3,638	1,718	1,320	20	41
304.31	Water Treatment Structures	2	402,084	133,090	118,575	81,221	38,359	29,473	442	925
304.32	Water Treatment Structures-Painting	2	1,594,660	527,832	470,265	322,121	152,131	116,889	1,754	3,668
320.31	Water Treatment Equipment	2	5,596,941	1,852,587	1,650,538	1,130,582	533,948	410,256	6,157	12,873
320.33	Granular Activated Carbon	2	0	0	0	0	0	0	0	0
Transmission & Distribution										
303.00	Land & Land Rights	7	366,767	136,071	121,400	42,728	39,281	4,585	7,775	14,927
304.40	T & D Structures	7	306,301	113,638	101,386	35,684	32,805	3,829	6,494	12,466
330.41	T & D Reservoirs & Standpipes	5	2,901,550	919,211	819,398	529,533	265,202	184,829	62,673	120,704
	Lookout Mountain Tariff	19	122,022	100,534	17,449	0	4,039	0	0	0
	Lakeview Tariff	20	28,739	23,678	4,776	0	285	0	0	0

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number	Account Description	Factor Ref.	Cost of Service	Residential	Commercial	Industrial	Other Public Authority	Other Water Utilities	Private Fire Protection	Public Fire Protection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
330.42	T & D Reservoirs & Standpipes-Paintii	5	1,070,436	339,114	302,291	195,355	97,838	68,187	23,121	44,530
	Lookout Mountain Tariff	19	18,982	15,639	2,714	0	628	0	0	0
330.43	Elevated Tanks & Standpipes	5	162,313	51,421	45,837	29,622	14,835	10,339	3,506	6,752
331.40	T & D Mains not Classified	4	2,503,401	953,796	850,906	249,339	275,374	0	59,581	114,405
331.41	T & D Mains - Mains (4" or less)	4	3,022,860	1,151,710	1,027,470	301,077	332,515	0	71,944	138,145
331.44	T & D Mains - Mains (6" - 8")	4	306,698	116,852	104,247	30,547	33,737	0	7,299	14,016
331.42	T & D Mains - Mains (6" - 10")	4	38,187,908	14,549,593	12,980,070	3,803,516	4,200,670	0	908,872	1,745,187
331.45	T & D Mains - Mains (10" - 16")	3	1,083,328	350,672	312,215	213,957	100,966	77,675	9,533	18,308
331.43	T & D Mains - Mains (12" or More)	3	16,255,235	5,261,820	4,684,759	3,210,409	1,514,988	1,165,500	143,046	274,713
333.40	Services	11	8,771,368	6,871,490	1,106,947	45,611	118,413	877	628,030	0
334.41	Meters	10	807,352	572,978	181,493	19,296	32,778	807	0	0
334.42	Meters-Metal Case/Old Style	10	0	0	0	0	0	0	0	0
334.43	Meters - Plastic Case	10	83,420	59,203	18,753	1,994	3,387	83	0	0
334.44	Meters - Metal Case/New Style	10	178,916	126,977	40,220	4,276	7,264	179	0	0
334.45	Meter Installations	10	6,282,468	4,458,668	1,412,299	150,151	255,068	6,282	0	0
335.40	Hydrants	21	4,496,474	0	0	0	0	0	0	4,496,474
General										
303.00	Land & Land Rights	14	25,022	13,732	5,938	2,184	1,599	528	305	736
304.51	Office Structures	14	(477,494)	(262,049)	(113,309)	(41,685)	(30,512)	(10,075)	(5,825)	(14,038)
304.52	Stores , Shop, & Garage Structures	14	311,064	170,712	73,815	27,156	19,877	6,563	3,795	9,145
340.51	Office Furniture	14	(1,258,587)	(690,713)	(298,663)	(109,875)	(80,424)	(26,556)	(15,355)	(37,002)
340.53	Computer & Peripheral Equipment	14	2,267,732	1,244,531	538,133	197,973	144,908	47,849	27,666	66,671
340.56	Computer & Periph Personal	14	1,103,968	605,858	261,972	96,376	70,544	23,294	13,468	32,457
340.57	Computer & Periph Other	14	58,715	32,223	13,933	5,126	3,752	1,239	716	1,726
340.55	Computer Software	14	428,220	235,007	101,617	37,384	27,363	9,035	5,224	12,590
340.58	Computer Software Personal	14	129,995	71,341	30,848	11,349	8,307	2,743	1,586	3,822
340.59	Computer Software Other	14	73,004	40,065	17,324	6,373	4,665	1,540	891	2,146
340.54	Other Office Equipment	14	133,940	73,506	31,784	11,693	8,559	2,826	1,634	3,938
341.52	Light Trucks	14	304,280	166,989	72,206	26,584	19,443	6,420	3,712	8,946
341.53	Heavy Trucks	14	656,625	360,356	155,817	57,323	41,958	13,855	8,011	19,305
341.54	Automobiles	14	153,729	84,366	36,480	13,421	9,823	3,244	1,875	4,520
341.55	Transportation-Other	14	35,244	19,342	8,363	3,077	2,252	744	430	1,036
342.50	Stores Equipment	14	7,710	4,231	1,830	673	493	163	94	227
343.50	Tools, Shop, & Garage Equipment	14	603,250	331,064	143,151	52,664	38,548	12,729	7,360	17,736

TENNESSEE-AMERICAN WATER COMPANY

ALLOCATION OF COST OF SERVICE TO CUSTOMER CLASSIFICATIONS
FOR THE TWELVE MONTHS ENDED JULY 31, 2002

Account Number (1)	Account Description (2)	Factor Ref. (3)	Cost of Service (4)	Residential (5)	Commercial (6)	Industrial (7)	Other Public Authority (8)	Other Water Utilities (9)	Private Fire Protection (10)	Public Fire Protection (11)
344.50	Laboratory Equipment	2	191,933	63,530	56,601	38,770	18,310	14,069	211	441
345.50	Power Operated Equipment	14	26,168	14,361	6,210	2,284	1,672	552	319	769
346.51	Communication Equipment	14	119,101	65,363	28,263	10,398	7,611	2,513	1,453	3,502
346.53	Communication Equipment-Telephone	14	160,938	88,323	38,191	14,050	10,284	3,396	1,963	4,732
347.51	Miscellaneous Structures	14	185,981	102,066	44,133	16,236	11,884	3,924	2,269	5,468
Total Utility Plant in Service (Net)			<u>\$106,001,051</u>	<u>\$43,743,304</u>	<u>\$29,406,144</u>	<u>\$11,985,374</u>	<u>\$8,962,355</u>	<u>\$2,582,385</u>	<u>\$2,049,928</u>	<u>\$7,271,562</u>
Other Rate Base Elements										
16	Reserve not identified by Account		(3,988,191)	(1,645,926)	(1,106,324)	(451,064)	(337,002)	(97,312)	(76,972)	(273,590)
16	Accumulated Deferred ITC		(50,893)	(21,004)	(14,118)	(5,756)	(4,300)	(1,242)	(982)	(3,491)
2	Accumulated Amortization of Capital L		(565,511)	(187,184)	(166,769)	(114,233)	(53,950)	(41,452)	(622)	(1,301)
4	CIAC - Mains		(5,496,886)	(2,094,314)	(1,868,392)	(547,490)	(604,657)	0	(130,826)	(251,208)
11	CIAC - Services		(1,045,627)	(819,144)	(131,958)	(5,437)	(14,116)	(105)	(74,867)	0
10	CIAC - Meters		(83,914)	(59,554)	(18,864)	(2,006)	(3,407)	(84)	0	0
21	CIAC - Hydrants		(445,256)	0	0	0	0	0	0	(445,256)
16	Deferred Taxes		(11,070,493)	(4,568,792)	(3,070,955)	(1,252,073)	(935,457)	(270,120)	(213,661)	(759,436)
4	CWIP - Mains		398,500	151,829	135,450	39,691	43,835	0	9,484	18,211
11	CWIP - Services		220,000	172,348	27,764	1,144	2,970	22	15,752	0
10	CWIP - Meters		130,000	92,261	29,224	3,107	5,278	130	0	0
21	CWIP - Hydrants		29,159	0	0	0	0	0	0	0
14	CWIP - Tools, Shop, & Garage Equip.		24,000	13,171	5,695	2,095	1,534	0	0	29,159
16	RWIP		64,899	26,784	18,003	7,340	5,484	506	293	706
14	Deferred Maintenance		12,276	6,737	2,913	1,072	784	1,584	1,253	4,452
14	Utility Plant Capital lease		1,590,500	872,866	377,426	138,851	101,633	259	150	361
16	Limited Term Utility Plant - Net		(20,953)	(8,647)	(5,812)	(2,370)	(1,771)	33,560	19,404	46,761
14	Working Capital Allowance		1,567,918	860,473	372,067	136,879	100,190	(511)	(404)	(1,437)
Subtotal Other Rate Base Elements			<u>(18,730,472)</u>	<u>(7,208,096)</u>	<u>(5,414,650)</u>	<u>(2,050,250)</u>	<u>(1,692,952)</u>	<u>(341,682)</u>	<u>(432,869)</u>	<u>(1,589,972)</u>
Total Original Cost Rate Base			<u>\$87,270,579</u>	<u>\$36,535,208</u>	<u>\$23,991,494</u>	<u>\$9,935,124</u>	<u>\$7,269,403</u>	<u>\$2,240,703</u>	<u>\$1,617,059</u>	<u>\$5,681,590</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS, cont.

FACTOR 18. ALLOCATION OF OTHER REVENUES.

Factors are based on the allocation of total cost of service.

Customer Classification (1)	Total Cost of Service (2)	Allocation Factor (3)
Residential	\$15,641,809	0.4717
Commercial	8,510,767	0.2566
Industrial	3,659,950	0.1104
Other Public Authority	2,467,278	0.0744
Other Water Utilities	936,679	0.0282
Private Fire Protection	474,156	0.0143
Public Fire Protection	1,473,946	0.0444
Total	<u>\$33,164,585</u>	<u>1.0000</u>

TENNESSEE-AMERICAN WATER COMPANY

FACTORS FOR ALLOCATING COST OF SERVICE TO CUSTOMER CLASSIFICATIONS

FACTOR 19. ALLOCATION OF COSTS WHICH VARY WITH THE AMOUNT OF WATER CONSUMED IN THE LOOKOUT MOUNTAIN SERVICE AREA.

Factors are based on the pro forma test year average daily consumption for each customer classification.

Customer Classification (1)	Average Daily Consumption, 100 Cu. Ft. (2)	Allocation Factor (3)
Residential	697	0.8239
Commercial	121	0.1430
Other Public Authority	28	0.0331
Total	846	1.0000

FACTOR 20. ALLOCATION OF COSTS WHICH VARY WITH THE AMOUNT OF WATER CONSUMED IN THE LAKEVIEW SERVICE AREA.

Factors are based on the pro forma test year average daily consumption for each customer classification.

Customer Classification (1)	Average Daily Consumption, 100 Cu. Ft. (2)	Allocation Factor (3)
Residential	580	0.8239
Commercial	117	0.1662
Other Public Authority	7	0.0099
Total	704	1.0000

FACTOR 21. ALLOCATION OF COSTS ASSOCIATED WITH FIRE HYDRANTS.

These costs are assigned directly to the public fire protection classification.

Customer Classification (1)	Allocation Factor (3)
Public Fire Protection	1.0000

PART III. PROPOSED CUSTOMER RATES

TENNESSEE-AMERICAN WATER

COMPARATIVE SCHEDULE OF PRESENT AND PROPOSED RATES

Description	Lookout			Chattanooga			Lookout			Chattanooga			Lakeview		
	Mountain			Mountain			Mountain			Mountain			Mountain		
<u>Service Charges</u>	<u>Present Rates Per Month</u>			<u>Proposed Rates Per Month</u>			<u>Proposed Rates Per Month</u>			<u>Proposed Rates Per Month</u>			<u>Proposed Rates Per Month</u>		
5/8 - inch meter	\$	8.26	\$	9.24	\$	9.24	\$	10.00	\$	10.00	\$	10.00	\$	10.00	\$
3/4 - inch meter		13.86		13.86		13.86		15.00		15.00		15.00		15.00	
1 - inch meter		23.07		23.07		23.07		25.00		25.00		25.00		25.00	
1 1/2 - inch meter		46.18		46.18		46.18		50.00		50.00		50.00		50.00	
2 - inch meter		73.86		73.86		73.86		80.00		80.00		80.00		80.00	
3 - inch meter		138.50		138.50		138.50		150.00		150.00		150.00		150.00	
4 - inch meter		230.83		230.83		230.83		250.00		250.00		250.00		250.00	
6 - inch meter		461.67		461.67		461.67		500.00		500.00		500.00		500.00	
8 - inch meter		738.67		738.67		738.67		800.00		800.00		800.00		800.00	
<u>Volumetric Rates</u>	<u>Present Rates Per Hundred Cubic Feet</u>			<u>Proposed Rates Per Hundred Cubic Feet</u>			<u>Proposed Rates Per Hundred Cubic Feet</u>			<u>Proposed Rates Per Hundred Cubic Feet</u>			<u>Proposed Rates Per Hundred Cubic Feet</u>		
First 400 CF	\$	0.149	\$	0.435	\$	0.149	\$	0.205	\$	0.655	\$	0.343	\$	0.343	\$
Next 6,100 CF		2.436		3.372		3.085		2.729		3.486		2.997		2.997	
Next 43,500 CF		1.540		2.518		2.230		1.741		2.498		2.009		2.009	
Next 450,000 CF		1.139		1.476		1.189		1.286		1.736		1.424		1.424	
Next 1,000,000 CF		0.916		1.254		0.968		0.916		1.366		1.054		1.054	
All Over 1,500,000 CF		0.555		0.888		0.608		0.555		1.005		0.693		0.693	
Ft. Oglethorpe		0.713		-		-		0.823		-		-		-	
<u>Private Fire Protection</u>	<u>Present Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>		
1 - Inch Service	\$	21.60	\$	21.60	\$	21.60	\$	21.60	\$	21.60	\$	21.60	\$	21.60	\$
1 1/2 - Inch Service		48.72		48.72		48.72		48.72		48.72		48.72		48.72	
2 - Inch Service		86.64		86.64		86.64		86.64		86.64		86.64		86.64	
2 1/2 - Inch Service		132.12		132.12		132.12		132.12		132.12		132.12		132.12	
3 - Inch Service		194.76		194.76		194.76		194.76		194.76		194.76		194.76	
4 - Inch Service		390.00		390.00		390.00		390.00		390.00		390.00		390.00	
6 - Inch Service		779.40		779.40		779.40		779.40		779.40		779.40		779.40	
8 - Inch Service		1,560.12		1,560.12		1,560.12		1,560.12		1,560.12		1,560.12		1,560.12	
10 - Inch Service		2,340.36		2,340.36		2,340.36		2,340.36		2,340.36		2,340.36		2,340.36	
12 - Inch Service		3,120.72		3,120.72		3,120.72		3,120.72		3,120.72		3,120.72		3,120.72	
<u>Public Fire Protection</u>	<u>Present Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>			<u>Proposed Rates Per Annum</u>		
Public Fire Hydrant	\$	50.00	\$	50.00	\$	50.00	\$	73.53	\$	73.53	\$	73.53	\$	73.53	\$
Ridgeside		1,849.92		-		-		2,092.00		-		-		-	

Tennessee-American Water Company
Residential Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Chattanooga						
5/8 - inch meter	672,844	8.26	\$5,557,691	672,844	\$10.00	\$6,728,440
3/4 - inch meter	893	13.86	12,377	893	15.00	13,395
1 - inch meter	1,581	23.07	36,474	1,581	25.00	39,525
1 1/2 - inch meter	80	46.18	3,694	80	50.00	4,000
2 - inch meter	89	73.86	6,574	89	80.00	7,120
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	675,487		5,616,810	675,487		6,792,480
Volumetric						
First 400 CF	2,295,597	0.149	342,044	2,295,597	0.205	470,597
Next 6,100 CF	1,949,047	2.436	4,747,878	1,949,047	2.729	5,318,949
Next 43,500 CF	51,737	1.540	79,675	51,737	1.741	90,074
Next 450,000 CF	12,909	1.139	14,703	12,909	1.286	16,601
Next 1,000,000 CF	9,993	0.916	9,154	9,993	0.916	9,154
All Over 1,500,000 CF	-	0.555	-	-	0.555	-
Total Chattanooga	4,319,283		10,810,264	4,319,283		12,697,855
Lookout Mountain						
5/8 - inch meter	18,983	9.24	175,403	18,983	\$10.00	189,830
3/4 - inch meter	372	13.86	5,156	372	15.00	5,580
1 - inch meter	1,064	23.07	24,546	1,064	25.00	26,600
1 1/2 - inch meter	12	46.18	554	12	50.00	600
2 - inch meter	36	73.86	2,659	36	80.00	2,880
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	20,467		208,318	20,467		225,490
Volumetric						
First 400 CF	73,740	0.435	32,077	73,740	0.655	48,300
Next 6,100 CF	166,645	3.372	561,927	166,645	3.486	580,924
Next 43,500 CF	13,918	2.518	35,046	13,918	2.498	34,767
Next 450,000 CF	-	1.476	-	-	1.736	-
Next 1,000,000 CF	-	1.254	-	-	1.366	-
All Over 1,500,000 CF	-	0.888	-	-	1.005	-
Total Lookout Mountain	254,303		837,368	254,303		889,481

Tennessee-American Water Company
Residential Class
Application of Present and Proposed Rates to Billing Determinants

<u>Description</u>	<u>Attrition Year at Present Rates</u>			<u>Attrition Year at Proposed Rates</u>		
	<u>Billing</u> <u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>	<u>Billing</u> <u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>
Lakeview						
5/8 - inch meter	33,309	9.24	307,775	33,309	\$10.00	333,090
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	45	23.07	1,038	45	25.00	1,125
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	-	73.86	-	-	80.00	-
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	33,354		308,813	33,354		334,215
Volumetric						
First 400 CF	114,198	0.149	17,016	114,198	0.343	39,170
Next 6,100 CF	96,562	3.085	297,894	96,562	2.997	289,396
Next 43,500 CF	793	2.230	1,768	793	2.009	1,593
Next 450,000 CF	-	1.189	-	-	1.424	-
Next 1,000,000 CF	-	0.968	-	-	1.054	-
All Over 1,500,000 CF	-	0.608	-	-	0.693	-
Total Lakeview	211,553		625,491	211,553		664,374
Total Gross	4,785,139		12,273,123	4,785,139		14,251,710
Less: Correction & Allowances	153,408		246,200	153,408		285,891
Net Amount	4,631,731		12,026,923	4,631,731		13,965,819

Tennessee-American Water Company
Commercial Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Chattanooga						
5/8 - inch meter	63,324	8.26	\$523,056	63,324	\$10.00	\$633,240
3/4 - inch meter	1,269	13.86	17,588	1,269	15.00	19,035
1 - inch meter	16,364	23.07	377,517	16,364	25.00	409,100
1 1/2 - inch meter	3,333	46.18	153,918	3,333	50.00	166,650
2 - inch meter	11,299	73.86	834,544	11,299	80.00	903,920
3 - inch meter	377	138.50	52,215	377	150.00	56,550
4 - inch meter	192	230.83	44,319	192	250.00	48,000
6 - inch meter	72	461.67	33,240	72	500.00	36,000
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	96,230		2,036,397	96,230		2,272,495
Volumetric						
First 400 CF	287,691	0.149	42,866	287,691	0.205	58,977
Next 6,100 CF	1,356,324	2.436	3,304,005	1,356,324	2.729	3,701,408
Next 43,500 CF	1,745,711	1.540	2,688,395	1,745,711	1.741	3,039,283
Next 450,000 CF	888,017	1.139	1,011,451	888,017	1.286	1,141,990
Next 1,000,000 CF	11,784	0.916	10,794	11,784	0.916	10,794
All Over 1,500,000 CF	-	0.555	-	-	0.555	-
Total Chattanooga	4,289,527		9,093,908	4,289,527		10,224,947
Lookout Mountain						
5/8 - inch meter	675	9.24	6,237	675	\$10.00	6,750
3/4 - inch meter	12	13.86	166	12	15.00	180
1 - inch meter	301	23.07	6,944	301	25.00	7,525
1 1/2 - inch meter	48	46.18	2,217	48	50.00	2,400
2 - inch meter	89	73.86	6,574	89	80.00	7,120
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	1,125		22,138	1,125		23,975
Volumetric						
First 400 CF	3,742	0.435	1,628	3,742	0.655	2,451
Next 6,100 CF	21,177	3.372	71,409	21,177	3.486	73,823
Next 43,500 CF	14,184	2.518	35,715	14,184	2.498	35,432
Next 450,000 CF	4,703	1.476	6,942	4,703	1.736	8,164
Next 1,000,000 CF	-	1.254	-	-	1.366	-
All Over 1,500,000 CF	-	0.888	-	-	1.005	-
Total Lookout Mountain	43,806		137,832	43,806		143,845

Tennessee-American Water Company
Commercial Class
Application of Present and Proposed Rates to Billing Determinants

<u>Description</u>	<u>Attrition Year at Present Rates</u>			<u>Attrition Year at Proposed Rates</u>		
	<u>Billing</u>			<u>Billing</u>		
	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>
<u>Lakeview</u>						
5/8 - inch meter	1,748	9.24	16,152	1,748	\$10.00	17,480
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	282	23.07	6,506	282	25.00	7,050
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	108	73.86	7,977	108	80.00	8,640
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	2,138		30,635	2,138		33,170
<u>Volumetric</u>						
First 400 CF	6,383	0.149	951	6,383	0.343	2,189
Next 6,100 CF	19,553	3.085	60,321	19,553	2.997	58,600
Next 43,500 CF	12,755	2.230	28,444	12,755	2.009	25,625
Next 450,000 CF	3,414	1.189	4,059	3,414	1.424	4,862
Next 1,000,000 CF	-	0.968	-	-	1.054	-
All Over 1,500,000 CF	-	0.608	-	-	0.693	-
Total Lakeview	42,105		124,410	42,105		124,446
Total Gross	4,375,438		9,356,150	4,375,438		10,493,238
Less: Correction & Allowances	108,885		175,694	108,885		197,047
Net Amount	4,266,553		9,180,456	4,266,553		10,296,191

Tennessee-American Water Company
Industrial Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Chattanooga						
5/8 - inch meter	318	8.26	\$2,627	318	\$10.00	\$3,180
3/4 - inch meter	36	13.86	499	36	15.00	540
1 - inch meter	354	23.07	8,167	354	25.00	8,850
1 1/2 - inch meter	72	46.18	3,325	72	50.00	3,600
2 - inch meter	1,199	73.86	88,558	1,199	80.00	95,920
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	423	230.83	97,641	423	250.00	105,750
6 - inch meter	60	461.67	27,700	60	500.00	30,000
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	2,462		228,517	2,462		247,840
Volumetric						
First 400 CF	6,316	0.149	941	6,316	0.205	1,295
Next 6,100 CF	66,021	2.436	160,827	66,021	2.729	180,171
Next 43,500 CF	290,101	1.540	446,756	290,101	1.741	505,066
Next 450,000 CF	1,160,806	1.139	1,322,158	1,160,806	1.286	1,492,797
Next 1,000,000 CF	1,046,163	0.916	958,285	1,046,163	0.916	958,285
All Over 1,500,000 CF	882,854	0.555	489,984	882,854	0.555	489,984
Total Chattanooga	3,452,261		3,607,468	3,452,261		3,875,438
Lookout Mountain						
5/8 - inch meter	-	9.24	-	-	\$10.00	-
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	-	73.86	-	-	80.00	-
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	-		-	-		-
Volumetric						
First 400 CF	-	0.435	-	-	0.655	-
Next 6,100 CF	-	3.372	-	-	3.486	-
Next 43,500 CF	-	2.518	-	-	2.498	-
Next 450,000 CF	-	1.476	-	-	1.736	-
Next 1,000,000 CF	-	1.254	-	-	1.366	-
All Over 1,500,000 CF	-	0.888	-	-	1.005	-
Total Lookout Mountain	-		-	-		-

Tennessee-American Water Company
Industrial Class
Application of Present and Proposed Rates to Billing Determinants

<u>Description</u>	<u>Attrition Year at Present Rates</u>			<u>Attrition Year at Proposed Rates</u>		
	<u>Billing</u>			<u>Billing</u>		
	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>
Lakeview						
5/8 - inch meter	-	9.24	-	-	\$10.00	-
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	-	73.86	-	-	80.00	-
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Volumetric						
First 400 CF	-	0.149	-	-	0.343	-
Next 6,100 CF	-	3.085	-	-	2.997	-
Next 43,500 CF	-	2.230	-	-	2.009	-
Next 450,000 CF	-	1.189	-	-	1.424	-
Next 1,000,000 CF	-	0.968	-	-	1.054	-
All Over 1,500,000 CF	-	0.608	-	-	0.693	-
Total Lakeview	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Total Gross	3,452,261		3,607,468	3,452,261		3,875,438
Less: Correction & Allowances	72,681		69,661	72,681		74,835
Net Amount	3,379,580		3,537,807	3,379,580		3,800,603

Tennessee-American Water Company
Other Public Authority Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Chattanooga						
5/8 - inch meter	2,052	8.26	\$16,950	2,052	\$10.00	\$20,520
3/4 - inch meter	132	13.86	1,830	132	15.00	1,980
1 - inch meter	1,579	23.07	36,428	1,579	25.00	39,475
1 1/2 - inch meter	682	46.18	31,495	682	50.00	34,100
2 - inch meter	2,999	73.86	221,506	2,999	80.00	239,920
3 - inch meter	66	138.50	9,141	66	150.00	9,900
4 - inch meter	220	230.83	50,783	220	250.00	55,000
6 - inch meter	12	461.67	5,540	12	500.00	6,000
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	7,742		373,673	7,742		406,895
Volumetric						
First 400 CF	21,518	0.149	3,206	21,518	0.205	4,411
Next 6,100 CF	187,653	2.436	457,123	187,653	2.729	512,105
Next 43,500 CF	418,799	1.540	644,950	418,799	1.741	729,129
Next 450,000 CF	672,707	1.139	766,213	672,707	1.286	865,101
Next 1,000,000 CF	88,609	0.916	81,166	88,609	0.916	81,166
All Over 1,500,000 CF	33,605	0.555	18,651	33,605	0.555	18,651
Total Chattanooga	1,422,891		2,344,982	1,422,891		2,617,458
Lookout Mountain						
5/8 - inch meter	120	9.24	1,109	120	\$10.00	1,200
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	108	23.07	2,492	108	25.00	2,700
1 1/2 - inch meter	12	46.18	554	12	50.00	600
2 - inch meter	84	73.86	6,204	84	80.00	6,720
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	324		10,359	324		11,220
Volumetric						
First 400 CF	875	0.435	381	875	0.655	573
Next 6,100 CF	6,172	3.372	20,812	6,172	3.486	21,516
Next 43,500 CF	3,122	2.518	7,861	3,122	2.498	7,799
Next 450,000 CF	-	1.476	-	-	1.736	-
Next 1,000,000 CF	-	1.254	-	-	1.366	-
All Over 1,500,000 CF	-	0.888	-	-	1.005	-
Total Lookout Mountain	10,169		39,413	10,169		41,108

Tennessee-American Water Company
Other Public Authority Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Lakeview						
5/8 - inch meter	60	9.24	554	60	\$10.00	600
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	24	73.86	1,773	24	80.00	1,920
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	84		2,327	84		2,520
Volumetric						
First 400 CF	179	0.149	27	179	0.343	61
Next 6,100 CF	1,280	3.085	3,949	1,280	2.997	3,836
Next 43,500 CF	1,008	2.230	2,248	1,008	2.009	2,025
Next 450,000 CF	-	1.189	-	-	1.424	-
Next 1,000,000 CF	-	0.968	-	-	1.054	-
All Over 1,500,000 CF	-	0.608	-	-	0.693	-
Total Lakeview	2,467		8,551	2,467		8,442
Total Gross	1,435,527		2,392,946	1,435,527		2,667,008
Less: Correction & Allowances	55,028		47,140	55,028		52,539
Net Amount	1,380,499		2,345,806	1,380,499		2,614,469

Tennessee-American Water Company
Other Water Utilities Class
Application of Present and Proposed Rates to Billing Determinants

Description	Attrition Year at Present Rates			Attrition Year at Proposed Rates		
	Billing Determinants	Rates	Revenues	Billing Determinants	Rates	Revenues
Chattanooga						
5/8 - inch meter	-	8.26	\$0	0	\$10.00	\$0
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	12	73.86	886	12	80.00	960
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	37	230.83	8,541	37	250.00	9,250
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	800.00	-
Total Meters	49		9,427	49		10,210
Volumetric						
First 400 CF	27	0.149	4	27	0.205	6
Next 6,100 CF	301	2.436	733	301	2.729	821
Next 43,500 CF	1,694	1.540	2,609	1,694	1.741	2,949
Next 450,000 CF	8,141	1.139	9,273	8,141	1.286	10,469
Next 1,000,000 CF	1,621	0.916	1,485	1,621	0.916	1,485
All Over 1,500,000 CF	-	0.555	-	-	0.555	-
Ft. Oglethorpe	1,169,734	0.713	833,435	1,169,734	0.823	962,691
Total Chattanooga	1,181,518		856,966	1,181,518		988,631
Lookout Mountain						
5/8 - inch meter	-	9.24	-	-	10.00	-
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	-	73.86	-	-	80.00	-
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	-	-
Total Meters	-		-	-		-
Volumetric						
First 400 CF	-	0.435	-	-	0.655	-
Next 6,100 CF	-	3.372	-	-	3.486	-
Next 43,500 CF	-	2.518	-	-	2.498	-
Next 450,000 CF	-	1.476	-	-	1.736	-
Next 1,000,000 CF	-	1.254	-	-	1.366	-
All Over 1,500,000 CF	-	0.888	-	-	1.005	-
Total Lookout Mountain	-		-	-		-

Tennessee-American Water Company
Other Water Utilities Class
Application of Present and Proposed Rates to Billing Determinants

<u>Description</u>	<u>Attrition Year at Present Rates</u>			<u>Attrition Year at Proposed Rates</u>		
	<u>Billing</u> <u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>	<u>Billing</u> <u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>
Lakeview						
5/8 - inch meter	-	9.24	-	-	10.00	-
3/4 - inch meter	-	13.86	-	-	15.00	-
1 - inch meter	-	23.07	-	-	25.00	-
1 1/2 - inch meter	-	46.18	-	-	50.00	-
2 - inch meter	-	73.86	-	-	80.00	-
3 - inch meter	-	138.50	-	-	150.00	-
4 - inch meter	-	230.83	-	-	250.00	-
6 - inch meter	-	461.67	-	-	500.00	-
8 - inch meter	-	738.67	-	-	-	-
Total Meters	-	-	-	-	-	-
Volumetric						
First 400 CF	-	0.149	-	-	0.343	-
Next 6,100 CF	-	3.085	-	-	2.997	-
Next 43,500 CF	-	2.230	-	-	2.009	-
Next 450,000 CF	-	1.189	-	-	1.424	-
Next 1,000,000 CF	-	0.968	-	-	1.054	-
All Over 1,500,000 CF	-	0.608	-	-	0.693	-
Total Lakeview	-	-	-	-	-	-
Total Gross	1,181,518		856,966	1,181,518		988,631
Less: Correction & Allowances	455		748	455		863
Net Amount	1,181,063		856,218	1,181,063		987,768

Tennessee-American Water Company
Private and Public Fire Protection
Application of Present and Proposed Rates to Billing Determinants

<u>Description</u>	<u>Attrition Year at Present Rates</u>			<u>Attrition Year at Proposed Rates</u>		
	<u>Billing</u>			<u>Billing</u>		
	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>	<u>Determinants</u>	<u>Rates</u>	<u>Revenues</u>
<u>Private Fire Service</u>						
1 - Inch Service	0	\$21.60	\$0	0	\$21.60	\$0
1 1/2 - Inch Service	1	48.72	49	1	48.72	49
2 - Inch Service	6	86.64	520	6	86.64	520
2 1/2 - Inch Service	1	132.12	132	1	132.12	132
3 - Inch Service	1	194.76	195	1	194.76	195
4 - Inch Service	73	390.00	28,470	73	390.00	28,470
6 - Inch Service	705	779.40	549,477	705	779.40	549,477
8 - Inch Service	287	1,560.12	447,754	287	1,560.12	447,754
10 - Inch Service	15	2,340.36	35,105	15	2,340.36	35,105
12 - Inch Service	18	3,120.72	56,173	18	3,120.72	56,173
Total Private Fire Service	<u>1,107</u>		<u>1,117,875</u>	<u>1,107</u>		<u>1,117,875</u>
<u>Public Fire Service</u>						
Ridgeside	13	\$1,849.92	24,049	13	\$2,092.00	27,196
Public Fire	4,640	50.00	232,000	4,640	73.53	341,179
Total Public Fire Service	<u>4,653</u>		<u>256,049</u>	<u>4,653</u>		<u>368,375</u>

TENNESSEE-AMERICAN WATER COMPANY
CHATTANOOGA TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

RESIDENTIAL - MONTHLY
5/8 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	8.26	10.00	1.74	21.1
1	8.41	10.21	1.80	21.4
2	8.56	10.41	1.85	21.6
3	8.71	10.62	1.91	21.9
4	8.86	10.82	1.96	22.1
5	11.29	13.55	2.26	20.0
6	13.73	16.28	2.55	18.6
7	16.16	19.01	2.85	17.6
8	18.60	21.74	3.14	16.9
9	21.04	24.47	3.43	16.3
10	23.47	27.19	3.72	15.9
11	25.91	29.92	4.01	15.5
12	28.34	32.65	4.31	15.2
13	30.78	35.38	4.60	14.9
14	33.22	38.11	4.89	14.7
15	35.65	40.84	5.19	14.6
16	38.09	43.57	5.48	14.4
17	40.52	46.30	5.78	14.3
18	42.96	49.03	6.07	14.1
19	45.40	51.76	6.36	14.0
20	47.83	54.48	6.65	13.9
25	60.01	68.13	8.12	13.5
30	72.19	81.77	9.58	13.3

TENNESSEE-AMERICAN WATER COMPANY
CHATTANOOGA TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

COMMERCIAL - MONTHLY
2 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		-----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	73.86	80.00	6.14	8.3
5	76.89	83.55	6.66	8.7
10	89.07	97.19	8.12	9.1
15	101.25	110.84	9.59	9.5
20	113.43	124.48	11.05	9.7
30	137.79	151.77	13.98	10.1
40	162.15	179.06	16.91	10.4
50	186.51	206.35	19.84	10.6
60	210.87	233.64	22.77	10.8
70	230.75	255.99	25.24	10.9
80	246.15	273.40	27.25	11.1
90	261.55	290.81	29.26	11.2
100	276.95	308.22	31.27	11.3
200	430.95	482.32	51.37	11.9
300	584.95	656.42	71.47	12.2
400	738.95	830.52	91.57	12.4
500	892.95	1,004.62	111.67	12.5
600	1,006.85	1,133.22	126.37	12.6
700	1,120.75	1,261.82	141.07	12.6
800	1,234.65	1,390.42	155.77	12.6
900	1,348.55	1,519.02	170.47	12.6
1,000	1,462.45	1,647.62	185.17	12.7
2,000	2,601.45	2,933.62	332.17	12.8
3,000	3,740.45	4,219.62	479.17	12.8
4,000	4,879.45	5,505.62	626.17	12.8
5,000	6,018.45	6,791.62	773.17	12.8
6,000	6,934.45	7,707.62	773.17	11.1
7,000	7,850.45	8,623.62	773.17	9.8
8,000	8,766.45	9,539.62	773.17	8.8
9,000	9,682.45	10,455.62	773.17	8.0
10,000	10,598.45	11,371.62	773.17	7.3

TENNESSEE-AMERICAN WATER COMPANY
CHATTANOOGA TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

INDUSTRIAL - MONTHLY
4 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	230.83	250.00	19.17	8.3
10	246.04	267.19	21.15	8.6
15	258.22	280.84	22.62	8.8
20	270.40	294.48	24.08	8.9
30	294.76	321.77	27.01	9.2
40	319.12	349.06	29.94	9.4
50	343.48	376.35	32.87	9.6
60	367.84	403.64	35.80	9.7
70	387.72	425.99	38.27	9.9
80	403.12	443.40	40.28	10.0
90	418.52	460.81	42.29	10.1
100	433.92	478.22	44.30	10.2
200	587.92	652.32	64.40	11.0
300	741.92	826.42	84.50	11.4
400	895.92	1,000.52	104.60	11.7
500	1,049.92	1,174.62	124.70	11.9
600	1,163.82	1,303.22	139.40	12.0
700	1,277.72	1,431.82	154.10	12.1
800	1,391.62	1,560.42	168.80	12.1
900	1,505.52	1,689.02	183.50	12.2
1,000	1,619.42	1,817.62	198.20	12.2
2,000	2,758.42	3,103.62	345.20	12.5
3,000	3,897.42	4,389.62	492.20	12.6
4,000	5,036.42	5,675.62	639.20	12.7
5,000	6,175.42	6,961.62	786.20	12.7
10,000	10,755.42	11,541.62	786.20	7.3
15,000	15,335.42	16,121.62	786.20	5.1
20,000	18,110.42	18,896.62	786.20	4.3
40,000	29,210.42	29,996.62	786.20	2.7
60,000	40,310.42	41,096.62	786.20	2.0
80,000	51,410.42	52,196.62	786.20	1.5
100,000	62,510.42	63,296.62	786.20	1.3

TENNESSEE-AMERICAN WATER COMPANY
LOOKOUT MOUNTAIN TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

RESIDENTIAL - MONTHLY
5/8 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	9.24	10.00	0.76	8.2
1	9.68	10.66	0.98	10.1
2	10.11	11.31	1.20	11.9
3	10.55	11.97	1.42	13.5
4	10.98	12.62	1.64	14.9
5	14.35	16.11	1.76	12.3
6	17.72	19.59	1.87	10.6
7	21.10	23.08	1.98	9.4
8	24.47	26.56	2.09	8.5
9	27.84	30.05	2.21	7.9
10	31.21	33.54	2.33	7.5
11	34.58	37.02	2.44	7.1
12	37.96	40.51	2.55	6.7
13	41.33	43.99	2.66	6.4
14	44.70	47.48	2.78	6.2
15	48.07	50.97	2.90	6.0
16	51.44	54.45	3.01	5.9
17	54.82	57.94	3.12	5.7
18	58.19	61.42	3.23	5.6
19	61.56	64.91	3.35	5.4
20	64.93	68.40	3.47	5.3
25	81.79	85.83	4.04	4.9
30	98.65	103.26	4.61	4.7

TENNESSEE-AMERICAN WATER COMPANY
LOOKOUT MOUNTAIN TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

COMMERCIAL - MONTHLY
2 INCH METERS

CONSUMPTION, 100 CU FT (1)	-----BILLS UNDER-----		-----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	73.86	80.00	6.14	8.3
5	78.97	86.11	7.14	9.0
10	95.83	103.54	7.71	8.0
15	112.69	120.97	8.28	7.3
20	129.55	138.40	8.85	6.8
30	163.27	173.26	9.99	6.1
40	196.99	208.12	11.13	5.7
50	230.71	242.98	12.27	5.3
60	264.43	277.84	13.41	5.1
70	293.88	307.76	13.88	4.7
80	319.06	332.74	13.68	4.3
90	344.24	357.72	13.48	3.9
100	369.42	382.70	13.28	3.6
200	621.22	632.50	11.28	1.8
300	873.02	882.30	9.28	1.1
400	1,124.82	1,132.10	7.28	0.6
500	1,376.62	1,381.90	5.28	0.4
600	1,524.22	1,555.50	31.28	2.1
700	1,671.82	1,729.10	57.28	3.4
800	1,819.42	1,902.70	83.28	4.6
900	1,967.02	2,076.30	109.28	5.6
1,000	2,114.62	2,249.90	135.28	6.4
2,000	3,590.62	3,985.90	395.28	11.0
3,000	5,066.62	5,721.90	655.28	12.9
4,000	6,542.62	7,457.90	915.28	14.0
5,000	8,018.62	9,193.90	1,175.28	14.7
6,000	9,272.62	10,559.90	1,287.28	13.9
7,000	10,526.62	11,925.90	1,399.28	13.3
8,000	11,780.62	13,291.90	1,511.28	12.8
9,000	13,034.62	14,657.90	1,623.28	12.5
10,000	14,288.62	16,023.90	1,735.28	12.1

TENNESSEE-AMERICAN WATER COMPANY
LAKEVIEW TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

RESIDENTIAL - MONTHLY
5/8 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	9.24	10.00	0.76	8.2
1	9.39	10.34	0.95	10.1
2	9.54	10.69	1.15	12.1
3	9.69	11.03	1.34	13.8
4	9.84	11.37	1.53	15.5
5	12.92	14.37	1.45	11.2
6	16.01	17.37	1.36	8.5
7	19.09	20.36	1.27	6.7
8	22.18	23.36	1.18	5.3
9	25.26	26.36	1.10	4.4
10	28.35	29.35	1.00	3.5
11	31.43	32.35	0.92	2.9
12	34.52	35.35	0.83	2.4
13	37.60	38.35	0.75	2.0
14	40.69	41.34	0.65	1.6
15	43.77	44.34	0.57	1.3
16	46.86	47.34	0.48	1.0
17	49.94	50.33	0.39	0.8
18	53.03	53.33	0.30	0.6
19	56.11	56.33	0.22	0.4
20	59.20	59.32	0.12	0.2
25	74.62	74.31	0.31-	0.4-
30	90.05	89.29	0.76-	0.8-

TENNESSEE-AMERICAN WATER COMPANY
LAKEVIEW TARIFF

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES

COMMERCIAL - MONTHLY
2 INCH METERS

CONSUMPTION, 100 CU FT (1)	----BILLS UNDER-----		----INCREASE-----	
	PRESENT RATES (2)	PROPOSED RATES (3)	AMOUNT (4)	PERCENT (5)
0	73.86	80.00	6.14	8.3
5	77.54	84.37	6.83	8.8
10	92.97	99.35	6.38	6.9
15	108.39	114.34	5.95	5.5
20	123.82	129.32	5.50	4.4
30	154.67	159.29	4.62	3.0
40	185.52	189.26	3.74	2.0
50	216.37	219.23	2.86	1.3
60	247.22	249.20	1.98	0.8
70	273.79	274.23	0.44	0.2
80	296.09	294.32	1.77-	0.6-
90	318.39	314.41	3.98-	1.3-
100	340.69	334.50	6.19-	1.8-
200	563.69	535.40	28.29-	5.0-
300	786.69	736.30	50.39-	6.4-
400	1,009.69	937.20	72.49-	7.2-
500	1,232.69	1,138.10	94.59-	7.7-
600	1,351.59	1,280.50	71.09-	5.3-
700	1,470.49	1,422.90	47.59-	3.2-
800	1,589.39	1,565.30	24.09-	1.5-
900	1,708.29	1,707.70	0.59-	0.0
1,000	1,827.19	1,850.10	22.91	1.3
2,000	3,016.19	3,274.10	257.91	8.6
3,000	4,205.19	4,698.10	492.91	11.7
4,000	5,394.19	6,122.10	727.91	13.5
5,000	6,583.19	7,546.10	962.91	14.6
6,000	7,551.19	8,600.10	1,048.91	13.9
7,000	8,519.19	9,654.10	1,134.91	13.3
8,000	9,487.19	10,708.10	1,220.91	12.9
9,000	10,455.19	11,762.10	1,306.91	12.5
10,000	11,423.19	12,816.10	1,392.91	12.2