



City of
Brentwood
Tennessee



Chipper Service

Traffic Operations Center

Water Pump Station

**CAPITAL IMPROVEMENTS
PROGRAM
FY 2016-2021**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2016-2021

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City Manager

Jay M. Evans
Assistant City Manager

Carson K. Swinford
Finance Director

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INTRODUCTION

BETSY CROSSLEY
MAYOR

JILL BURGIN
VICE-MAYOR

KIRK BEDNAR
CITY MANAGER



COMMISSIONERS
ANNE DUNN
ROD FREEMAN
MARK W. GORMAN
RHEA E. LITTLE, III
REGINA SMITHSON

City of Brentwood

March 23, 2015

CITY MANAGER MEMORANDUM

2015-04

TO: Honorable Mayor and Members of the City Commission

FROM: Kirk Bednar, City Manager

SUBJECT: Proposed Fiscal Years 2016-2021 Capital Improvements Program

Attached you will find the proposed six-year capital improvements program (CIP) for the City of Brentwood for fiscal years 2016-2021.

The proposed CIP will be reviewed with the Board of Commissioners at a work session scheduled for Thursday, April 2, 2015, beginning at 4:00 PM in the Municipal Center Annex Room. The staff will review each project and seek initial guidance and direction on the appropriateness and priorities in the program. Afterwards, the CIP will be circulated in the community for citizen review and comments. Formal public hearings are scheduled at three City Commission meetings on Tuesday, May 26, 2015, Monday, June 8, 2015, and Monday, June 22, 2015. A resolution to adopt the six-year CIP will be presented to the City Commission for consideration and adoption at the June 22, 2015 meeting.

The primary focus of this six-year program is to identify and address the infrastructure and facility/equipment needs of the community and to enhance our competitive position with the improving local, state, and national economy. Brentwood is recognized nationally as a desirable community to live, work, and do business in the Nashville/Middle Tennessee area. Existing and potential residents and corporate citizens have a choice in where they live or locate their business. In this competitive environment, it is essential that the City undertake or facilitate projects that help maintain and improve our favorable quality of life. The real challenge is to proactively undertake needed capital projects in a fiscally responsible manner. Accordingly, consideration and approval of this six-year CIP program by the City Commission represents one of the most important actions taken by the Board each year.



Over the past 20+ years, Brentwood has invested considerable resources in developing and enhancing important community resources. Our citizens widely use, benefit from, and depend on these investments. For Brentwood, the CIP remains a “work in progress” with important projects and unmet needs that warrant funding consideration during the next six years. Examples include road projects that improve safety and reduce congestion for drivers; enhancements to our utility systems that improve the reliability and capacity to deliver services to existing and future customers and protect the environment; and new park development that expands recreational opportunities for youth and adults.

Summary Overview

The proposed FY 2016-2021 Capital Improvements Program is an ambitious plan that calls for the investment of **\$106,530,000** in City, State, Federal, and private funds to upgrade and expand the City’s infrastructure in the major program areas of transportation, utilities, parks and recreation, general facilities and equipment, technology, and storm drainage. A program of this magnitude cannot be undertaken with local resources alone; therefore, local funding is being used to strategically leverage state and federal aid to the program, particularly for transportation improvements. About **\$26.6 million** of the **\$106.5 million** program is dependent upon receipt of inter-governmental revenues (state and federal), targeted mostly to the improvement of state highways in Brentwood.

The net local investment of **\$80 million** over six-years will require a significant funding commitment, including direct support of over **\$52.1 million** on a “pay as you go basis,” primarily from the General Fund and other funds that depend on annual contributions from the General Fund. The dependent funds that receive most of their revenue from the General Fund include, but are not limited to, the Capital Projects Fund, Equipment Replacement Division, and Facilities Maintenance Division. The Capital Projects Fund also receives periodic contributions from the proceeds of recently issued General Obligation (G.O.) bonds and proceeds from Public Works Project Fees and Adequate Facilities Taxes for specific capital projects. Private contributions are also received for specific capital projects such as offsite road improvements that benefit new development. The Water and Sewer Fund also makes direct contributions from its annual operating budget for various water and sewer system improvements.

The proposed CIP program cannot be implemented without the issuance of new General Obligation Bonds totaling **\$14.7 million** over the six-year period, and an estimated **\$13.6 million** in Water/Sewer Bonds. The associated annual debt service with the proposed G.O. Bonds is projected to not require a property tax increase. An update to the Water and Sewer Fund’s long-term financial model and rate structure is currently underway. This study will provide important information necessary to plan for the continued financial stability of the Water and Sewer enterprise fund as the City continues to address the long-term requirements associated with system rehabilitation and water and sewer capacity demands.

Total project costs in the major program areas over the next six years (FY 2016-2021) are summarized below:

Transportation	\$56,905,000	53.4%
Utilities	26,510,000	24.9%
Facilities & Equipment	7,750,000	7.3%
Parks & Recreation	7,575,000	7.1%
Technology	7,410,000	7.0%
Storm Drainage	<u>380,000</u>	<u>0.3%</u>
TOTAL	<u>\$106,530,000</u>	100.0%

Transportation improvements are the largest component in the six year program. Proposed projects will address safety concerns associated with substandard narrow roads and provide additional capacity to help reduce existing and future traffic congestion. Several significant projects are targeted at improvements to state highways and are dependent on TDOT participation and/or federal funding to complete. These include completion of Concord Road East (phase 2) from Sunset Road to the eastern city limits (\$5 million), widening of Franklin Road South to five lanes from Concord Road to south of Moore’s Lane (\$17.0 million), and widening of Concord Road from Jones Parkway to Arrowhead Drive (\$2.4 million).

In the Concord Road East and Franklin Road projects, the City has assumed responsibility for engineering design and right-of-way acquisition costs, subject to TDOT paying for utility relocations and construction costs. TDOT continues to face serious budget limitations and is unable to fund all the road construction needs across the State from the revenue generated from the current State and Federal gasoline tax. Despite this, construction on the Concord Road East project began in FY 2014 and is expected to be complete by the end of FY 2016. Staff is hopeful that State construction funding will be provided in FY 2016 for the Franklin Road South project. Local funding has also leveraged \$3.6 million in Federal funding on the Jones Parkway to Arrowhead Drive portion of Concord Road which is under construction and should be complete by early in calendar year 2016. Unfortunately, a TDOT commitment to financially participate in any future improvement projects on other state routes such as Wilson Pike between Concord and Church Street is highly unlikely in the foreseeable future due to the funding limitations noted above.

Significant local funding (\$8.3 million) is allocated over the next three years for realignment of the Sunset Road and Ragsdale Road intersection to eliminate serious safety issues related to the horizontal and vertical curves leading into this intersection. The project includes both road widening and bridge improvements to sections of Sunset and Ragsdale roads that will facilitate future additional widening of both roads. In addition, staff is recommending use of \$1.5 million of unrestricted General Fund reserves toward a package of smaller scale intersection improvement projects during FY 2016. These include turn lane improvements at Carothers

Parkway and Moores Lane, Granny White Pike and Murray Lane, Concord Road and I-65 north entrance ramp, and Moores Lane and Westgate Circle as well as elimination of the four-way stop at the intersection of Crockett Road and Raintree Parkway/Green Hill Boulevard via construction of a roundabout. Finally, \$4.9 million from a planned FY 2018 G.O. bond issue is reserved for future road improvements projects as may be identified by various transportation planning efforts currently underway.

While physical improvements to the road network account for a significant portion of the overall Capital Improvements Plan spending, the program also provides for completion of the joint Brentwood/Metro Nashville traffic study of the Maryland Farms/Old Hickory Boulevard area (\$160,000). The results of this study will likely drive future capital project planning efforts related to transportation and traffic signal improvements in this congested regional corridor.

The City will maintain a significant commitment to street resurfacing over the six year period in the total amount of \$12.3 million. The FY 2016 proposed resurfacing funding level of \$2.1 million reflects no increase over FY 2015. In fact, no increase in annual funding is proposed over the next 6 years due to the lack of growth in the amount of state gas tax revenues returned to the City. Projected funding levels actually reflect a slight decrease beginning in FY 2019. Fully funding the street resurfacing plan over the six year CIP period will require annual direct transfers of \$300,000 from the General Fund to the Capital Projects Fund. Obviously, the level of future funding for street resurfacing is a concern. There are continuing discussions at the state level regarding possible funding enhancements to cover unfunded needs with State highways. Hopefully, any funding enhancement plan will include a distribution of a portion of the new revenue back to local governments to help with maintaining local streets. Until then, the City will be faced with continuing pressure to increase the level of General Fund support for street resurfacing as asphalt prices fluctuate and resurfacing demands increase with roads in subdivisions built during the high growth period of the late 1990's approaching 20 years of age.

Under the agreed order with the Tennessee Department of Environment and Conservation (TDEC), the proposed six-year Utilities program will continue to emphasize rehabilitation of the original sewer system on a reduced scale compared to previous years while also addressing system-wide capacity planning. Approximately \$7.2 million in sewer rehabilitation projects are projected over the next six years. For the past seven years, the City has undertaken over \$22 million of work associated with rehabilitating the City's older sewer lines, manholes, etc. The rehabilitation work accomplished to date has reduced annual infiltration over 700 million gallons which allowed for a partial lifting of the moratorium on new sewer connections within the Little Harpeth River drainage basin and reduces the City's cost to Metro Nashville for treatment of storm water infiltration at their wastewater treatment facility. Now that the heaviest phase of sewer rehabilitation work is over, we are moving towards development of a long-term sewer system master plan that will identify needed sub-basin conveyance and system-wide capacity projects to insure the sewer system can adequately serve the community as build out of the

service area progresses. A total of \$7.2 million is programmed over the six year CIP period for sewer capacity projects as may be identified in the sewer system master planning process.

From a water service standpoint, the City faces the continuing challenge of having to significantly overbuild its distribution system in order to be able to satisfy summer irrigation system demands. The six year plan provides for a \$6.2 million investment to expand the capability of the system to obtain more water from our wholesale providers and distribute to our customers. A new opportunity to add a third wholesale water provider, Mallory Valley Utility District, to serve primarily the southeast portion of the service area is being studied and appears to offer significant financial and operational benefits. An agreement with Mallory Valley is, of course, subject to City Commission consideration and approval. A significant project to upsize the Murray Lane and Johnson Chapel Road water pump stations along with a water line through the Belle Rive neighborhood and along Granny White Pike will be coming to conclusion in early FY 2016. This investment in the overall water distribution system should position it to handle the peak summer demands in the immediate future and when build-out occurs in our water service area. However, such a commitment does come with some risk should factors outside the City's control (i.e. weather, state mandated water use restrictions, etc.) result in reductions in summer peak demand and associated revenues.

Over the past few years, the City has made a major commitment toward the acquisition and development of new park land including the purchase and Phase 1 development of the 400 acre Marcella Vivrette Smith Park and the developer funded construction of the 24 acre Margaret Hayes Powell Park which opened in 2013 in north Brentwood. The focus for the **Parks and Recreation** program over the next six years will continue to be development of park areas including Flagpole and Wikle parks during FY 2016 (\$1.635 million) on the 24 acres of land dedicated to the City as part of the Mallory Park Phase 2 development approval. The proposed plan also provides for continued development of future phases of Smith Park as outlined in the approved master plan with a projected cost over six years of \$5.1 million. Note that scheduling of future phases of development at Smith Park beyond Phase 2 has been pushed back in recognition of the significant funds invested in this park to date and the need to ensure funding for other priorities within the CIP.

The primary focus of the **General Facilities and Equipment** program over six years will be the ongoing effort to accumulate funding annually for the periodic replacement and upgrade of essential vehicles and heavy equipment. This systematic approach will allow for \$4.4 million in vehicles and equipment (costing more than \$40,000 per unit) to be replaced over the next six years. This reserve allows us to avoid an adverse budgetary impact in a single year. Annual funding from the Facilities Maintenance Fund is also programmed throughout the six year period to assure proper upkeep of various city facilities. Finally, \$1.3 million remains in reserve for possible public infrastructure improvement in the Town Center area as may be deemed appropriate in coordination with redevelopment of the original Town Center area.

The **Technology** program emphasizes the replacement and upgrade of computer hardware and software and other state of the art equipment that allows our employees to continue to deliver services in a responsive, cost effective manner. About \$2.7 million is allocated for computer equipment, hardware and software upgrades and replacements over six years. Significant funding of \$3.9 million is programmed beginning in FY 2016 for the City's estimated share of the cost for implementation of a countywide 700 megahertz radio system that would allow all public safety agencies in Williamson County and the county school system to communicate on the same system. Currently, none of the agencies can communicate directly without undertaking cumbersome system manipulations that significantly compromise communication abilities in an emergency situation. This system is proposed to be interconnected with the Metro Nashville 800 MHz radio system to provide even greater regional communications interoperability. Funding in the amount of \$460,000 is also provided for continued expansion of the City's fiber optic communication network to create redundant loops and minimize communication down time in the event of an incident that damages part of the fiber network.

FINANCING REQUIREMENTS

As noted earlier, slightly more than \$52.1 million (49%) of the six-year program will be funded from local sources on a "pay-as-you-go" basis. Next, inter-governmental funding sources will cover \$26.6 million or 25%. The remaining funds (\$27.8 million or 26%) will come from through the issuance of General Obligation and Water/Sewer Revenue Tax Bonds.

FY 2016 funding for several projects is dependent upon two proposed FY 2015 year-end transfers totaling \$4.9 million from the General Fund to the Capital Projects Fund. This includes \$1.9 million in projected excess revenues in the FY 2015 operating budget and \$3 million from the General Fund unrestricted fund balance. The \$3 million transfer from the General Fund unrestricted fund balance is being targeted strictly at transportation projects including the Sunset Road and Ragsdale Road intersection project and the several smaller intersection improvement projects noted above.

The implementation of a six-year, comprehensive program with long-term benefits will require the issuance of **\$14.7 million** in new 20-year General Obligation Bonds and an estimated **\$13.6 million** in new Water/Sewer Revenue Tax Bonds.

The following memo from Carson Swinford, Finance Director, addresses the financial implications associated with the issuance of debt and the appropriate timing for the bond issues to meet the requirements of this program. The proposed General Obligation and Water/Sewer Bonds will be issued every other calendar year in accordance with the City's adopted Debt Management Policy with a maximum limit of 20 years to retire the bonds and in total issue amounts not to exceed \$10 million in any given year (bank qualified debt).

Proposed future debt issues, in order of issuance, include the following:

Fiscal year 2016 (issued by late calendar year 2015):

- Water/Sewer bonds (**\$5,000,000**) will be needed for the Sewer Rehabilitation project (\$3,000,000) and for additional Water System Capacity improvements (\$2,000,000).
- G.O. bonds (**\$4,900,000**) will be needed for development of Flagpole and Wikle parks (\$1,500,000), and improvements to the intersection of Sunset Road and Ragsdale Road (\$3,400,000).

Fiscal year 2018 (issued by late calendar year 2017):

- Water/Sewer bonds (**\$5,000,000**) will be needed for the Sewer Rehabilitation project (\$3,000,000) and for additional Water System Capacity improvements (\$2,000,000).
- G.O. bonds (**\$4,900,000**) are being reserved for transportation related projects expected to be identified by the Major Thoroughfare Plan update and/or the joint Metro Nashville/Brentwood traffic study of the Maryland Farms and Old Hickory Blvd. area.

Fiscal year 2020 (issued by late calendar year 2019):

- Water/Sewer bonds (**\$3,600,000**) will be needed for the Sewer Rehabilitation project (\$1,200,000) and for additional Water System Capacity improvements (\$2,400,000).
- G.O. bond issue (**\$4,900,000**) will be needed for phase II widening of Sunset Road from Owl Creek to Concord Road (\$2,900,000) and phase III improvements in Smith Park (\$2,000,000).

(Note that the ongoing Water and Sewer Fund financial model update and rate study could result in modifications to the size, phasing, and/or project funding distribution associated with future Water/Sewer bond issues)

The City of Brentwood currently has the highest possible bond rating from two major rating agencies - Moody's Investors Service **Aaa** and Standard and Poor's **AAA**. The City is in an excellent financial position to issue the above G.O. and Water/Sewer Revenue Bonds over the next 6 years. This capital improvements program as well as the formulation of the annual operating budget is designed to maintain and protect the City's excellent credit rating.

The City takes a very conservative approach to the issuance of General Obligation Bonds. The new General Obligation bond issues from FY 2016 to FY 2021 will have minimal impact on the City's future operating budgets and property tax rate. Debt service for the new Water/Sewer

bonds will be funded through current income. However, as noted above, a review of the City's water and sewer rate and fee structures is underway to insure they provide for the continued long-term financial stability of the Water and Sewer enterprise fund.

By formal policy, the City strives to maintain an unreserved fund balance in the Debt Service Fund equal to one year's debt service obligation. The General Obligation debt service payment (principal and interest) for FY 2015 is \$3,441,955 with a projected fund balance for the Debt Service Fund as of June 30, 2015 of \$3,623,880. The proposed FY 2016 annual General Fund transfer to the Debt Service Fund will remain the same at \$3,350,000.

Looking ahead over the remaining five years of the CIP and based on current interest rate projections, the General Fund should be able to maintain the annual transfer to the Debt Service Fund at or close to the \$3,350,000 level proposed for FY 2016. The amount of the transfer will be reviewed annually and may need to be adjusted based on a variety of factors outside the City's control including interest rates, bond market fluctuations, etc.

Finally, the percentage of the total budget allocated for debt service in FY 2015 is approximately 9.9%. This amount of annual debt service is considered by the rating agencies to be a manageable level for a growing community. Assuming a conservative 2% budget growth from FY 2016 through FY 2021 with the Debt Service Fund transfer remaining flat at \$3,350,000, this percentage will decrease to 8.8% in FY 2021.

CLOSING

I am very appreciative of the work and effort by various department heads in preparation of this six-year capital improvements program. Special recognition is given to Jay Evans, Assistant City Manager, and Carson Swinford, Finance Director, for their assistance in the research and preparation of this document, and their continued efforts in streamlining the review process. This effort allows staff to focus its time and effort better on identifying and analyzing complex infrastructure projects and the associated financial considerations.



Kirk Bednar

BETSY CROSSLEY
MAYOR
JILL BURGIN
VICE-MAYOR
KIRK BEDNAR
CITY MANAGER



COMMISSIONERS
ANNE DUNN
ROD FREEMAN
MARK W. GORMAN
RHEA E. LITTLE, III
REGINA SMITHSON

City of Brentwood

March 23, 2015

FINANCE DEPARTMENT MEMORANDUM

2015-06

TO: Honorable Mayor and Members of the City Commission

THROUGH: Kirk Bednar, City Manager *KB*

FROM: Carson K. Swinford, Finance Director *CS*

SUBJECT: **Capital Improvements Program Funding**

The attached City of Brentwood's six-year Capital Improvements Program (CIP) represents the City's effort at long-term infrastructure and facility planning. A substantial amount of time and cooperative effort among the various departments and City Manager was required to bring the program to this point. The recommendation includes 48 projects and improvements at a total cost of \$106,530,000. As addressed in the previous memo from the City Manager, \$80 million of these proposed projects are funded on either a "pay-as-you-go" basis or through the issuance of General Obligation and Water/Sewer Revenue Tax Bonds. The "pay-as-you-go" funding includes two proposed special FY 2015 transfers to the Capital Projects Fund: a \$1.9 million surplus transfer from the General Fund; and a \$3 million unrestricted fund balance transfer from the General Fund before June 30, 2015.

Completion of a program of this magnitude over the six-year period will require the City to issue three 20-year General Obligation bonds and three 20-year Water/Sewer Revenue bonds totaling \$28.3 million. The anticipated timing for the issuance of the proposed bonds is as follows:

Fiscal Year	General Obligation Bonds	Water/Sewer Revenue Bonds	Total
2016	4,900,000	\$ 5,000,000	\$ 9,900,000
2017	-	-	-
2018	4,900,000	5,000,000	9,900,000
2019	-	-	-
2020	4,900,000	3,600,000	8,500,000
2021	-	-	-
Total	\$ 14,700,000	\$ 13,600,000	\$ 28,300,000

The timing of the bond issues as outlined above is designed to meet several goals. First, the City simply must have funds available when the various improvements are initiated. In most cases, it is to the City's financial advantage to obtain long-term financing for the entire amount needed for a project in one bond issuance, rather than in a piecemeal form. This approach also helps the City avoid any negative effects of economic and market changes on financing costs in the middle of a project.

The projected financing schedule is also driven, in part, by the desire to be able to designate each of the City's bond issues as "qualified tax-exempt obligations" within the meaning of the Internal Revenue Code. Such a designation historically has allowed the City and other eligible issuers to capture lower interest rates since commercial banks are given an extra tax preference whenever they purchase so called "bank qualified" debt or debt sold by an issuer that reasonably intends to sell no more than \$10 million in tax-exempt securities in any one calendar year.

Whenever possible, it is preferable that total General Obligation (G.O.) bond proceeds for any calendar year not exceed \$5 million. This allows the City to fall under the "small issuer" exception permitted by federal arbitrage regulations and invest bond proceeds until they are needed to pay project costs without having to rebate to the federal government any excess investment earnings generally greater than the cost of funds to the City. While this always reduces administrative burdens associated with closely monitoring earnings, the economic value of this investment is sometimes lost if short-term yields are less than the cost of funds. Bond

issues between \$5 and \$10 million must be spent for designated projects within 24 months; otherwise, the City will be subject to the rebate penalty for interest earned above the cost of the funds to the City.

Finally, keeping the bond issues within the amounts and schedule noted previously allows the City to manage the annual debt service within the framework of debt service policies and helps the City avoid property tax increases to service additional debt obligations. This “leveling out” of debt also permits the City to avoid major increases to the annual General Fund transfer to Debt Service Fund. Based on current and projected bond interest rates, the City should be able to issue \$14.7 million in new General Obligation Bonds during the six- year period with little or no increase in the annual transfer required from the General Fund to the Debt Service Fund. The proposed \$13.6 million in Water/Sewer Revenue Bonds is anticipated to be funded through current income. However, as noted in the City Manager’s transmittal memo, the ongoing Water and Sewer Fund financial model update and rate study could result in modifications to the size, phasing, and/or project funding allocation associated with future Water/Sewer bond issues.

Fiscal Year	Direct Project Funding	Transfer to Debt Service Fund	Total General Fund Related Support
2016	\$ 15,140,000	\$ 3,350,000	\$ 18,490,000
2017	12,030,000	3,350,000	15,380,000
2018	9,370,000	3,350,000	12,720,000
2019	3,935,000	3,350,000	7,285,000
2020	5,465,000	3,350,000	8,815,000
2021	5,245,000	3,350,000	8,595,000
Total	\$ 51,185,000	\$ 20,100,000	\$ 71,285,000

The six-year capital improvements program will be reevaluated and updated annually in light of new priorities, revised cost, revenue trends, and other economic factors.

The Staff continues to appreciate the Commission’s valuable input and guidance in support of the development and implementation of the Capital Improvements Program.

RESOLUTION 2015-xx

A RESOLUTION TO ADOPT A CAPITAL IMPROVEMENTS PROGRAM FOR THE CITY OF BRENTWOOD FOR THE FISCAL YEARS 2016-2021

WHEREAS, the City of Brentwood has grown rapidly in population and services since its inception in 1969; and

WHEREAS, a proposed program for capital improvements has been developed for the next six years to address the needs of a growing community; and

WHEREAS, this program allows for more effective use of planning, financial and organizational resources in implementing a widely understood capital improvements plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF BRENTWOOD, TENNESSEE, AS FOLLOWS:

SECTION 1. That the proposed Capital Improvements Program, establishing projects to be accomplished during fiscal years 2016-2021, is hereby adopted as a guideline for Brentwood city government.

SECTION 2. That this resolution shall take effect from and after its passage, the general welfare of the City of Brentwood, Williamson County, Tennessee requiring it.

MAYOR Betsy S. Crossley

ADOPTED: June 22, 2015

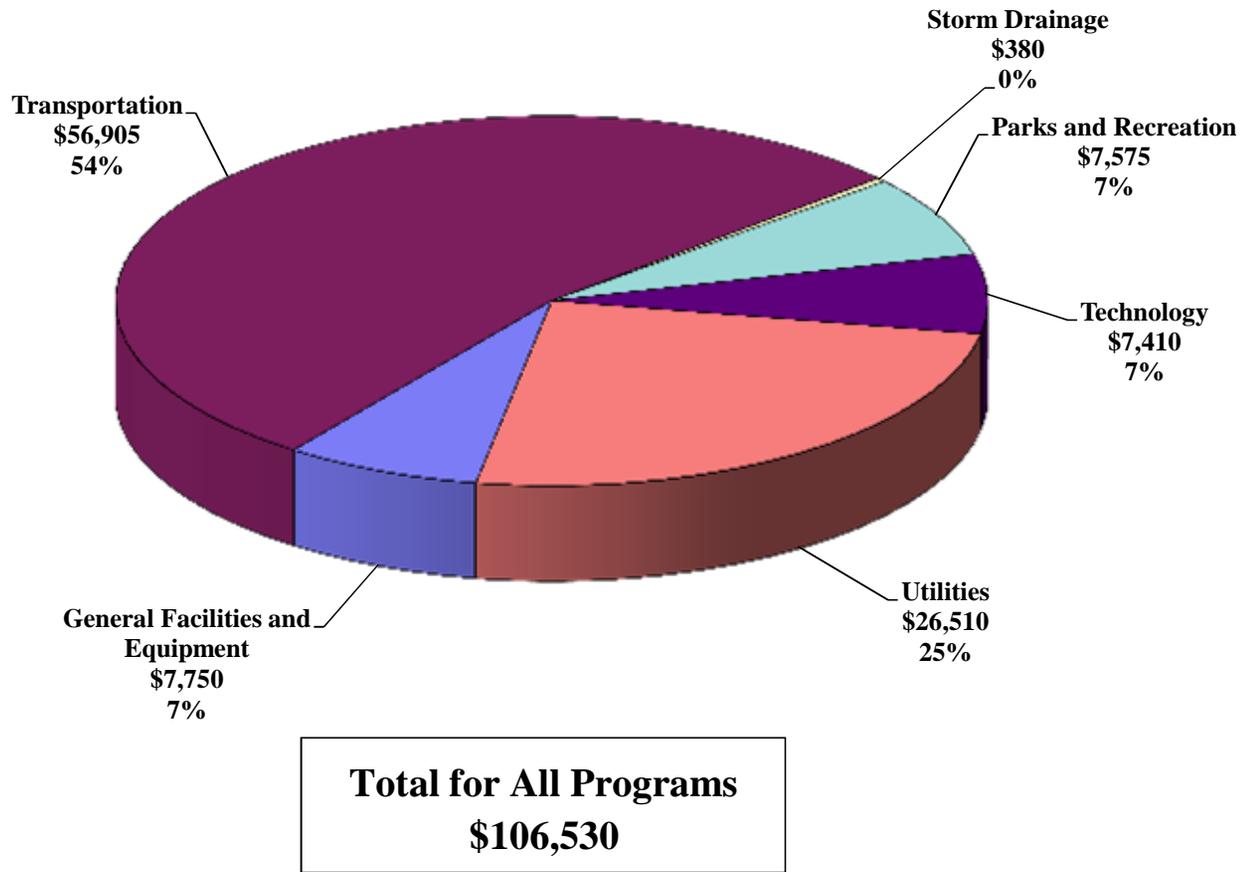
Approved as to form:

RECORDER Deborah Hedgepath

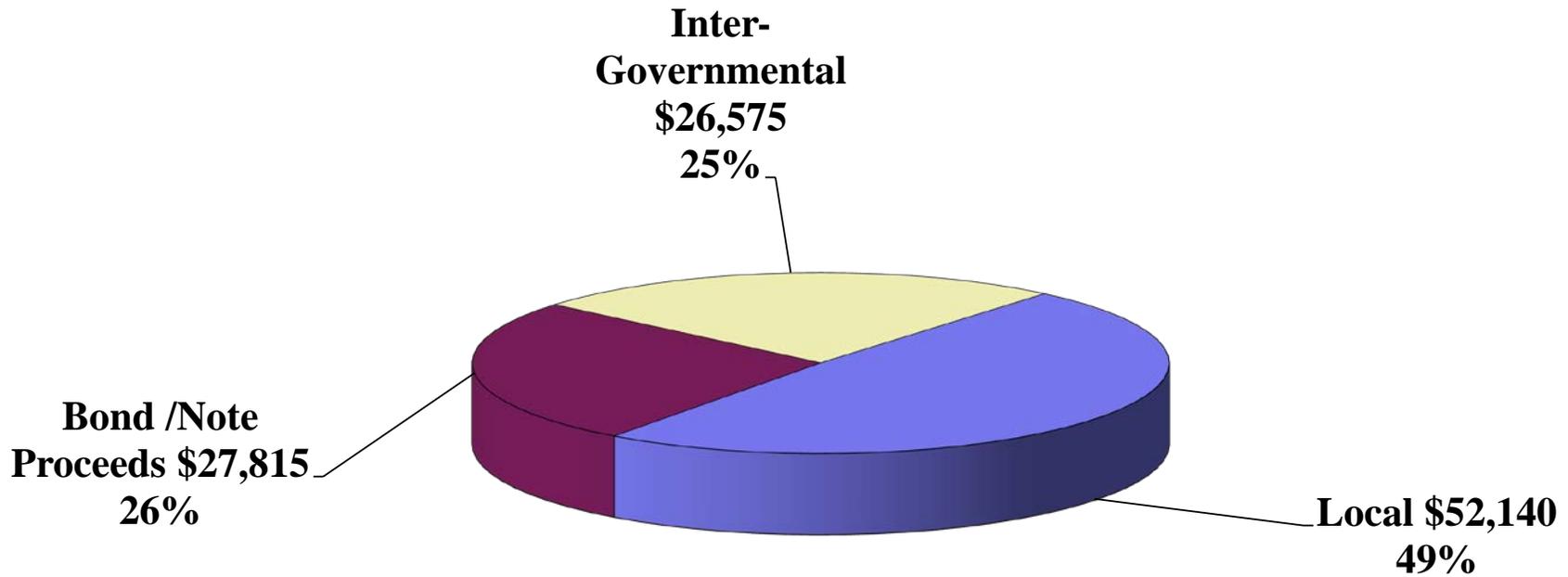
CITY ATTORNEY Roger A. Horner

SUMMARIES

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2016-2021
Program Expenditures
(000's)**



**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2016-2021
Funding by Source**



**Total For All Programs
\$106,530**

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Program Expenditures - Summary
(000's)**

<u>Program</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-2021</u>
General Facilities and Equipment	1,590	735	2,340	1,050	1,695	1,165	765	7,750
Technology	935	4,120	1,430	565	515	365	415	7,410
Transportation	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905
Storm Drainage	100	130	50	50	50	50	50	380
Parks and Recreation	1,835	2,520	2,605	110	160	2,120	60	7,575
Utilities	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510
Grand Total	24,250	33,700	25,155	18,330	9,365	9,950	10,030	106,530

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Sources of Funds - Summary
(000's)**

<u>Source</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Capital Projects Fund	3,965	8,540	2,430	25	-	150	-	11,145
Emergency Communications District Fund	60	125	-	-	-	-	-	125
Equipment Replacement Division	1,505	955	1,080	1,120	1,870	1,070	840	6,935
Facilities Maintenance Division	505	380	350	285	235	235	235	1,720
General Fund	890	810	1,860	1,470	1,660	1,380	1,560	8,740
General Fund (Unreserved Balance)	-	2,660	4,140	-	-	-	-	6,800
General Obligation Bond Proceeds	-	1,500	2,000	6,300	-	2,460	2,440	14,700
Municipal Center Fund	170	170	170	170	170	170	170	1,020
Private Sources	-	15	5	75	5	5	5	110
Public Works Project Fee Fund	-	-	1,000	600	-	-	300	1,900
Inter-Governmental Sources	9,170	11,605	6,000	3,000	-	-	-	20,605
State Street Aid Fund	1,040	1,040	1,040	1,040	950	950	950	5,970
Water and Sewer Fund	1,650	3,585	2,540	2,175	1,835	1,755	1,755	13,645
Water & Sewer Bond/Note Proceeds	5,295	2,315	2,540	2,070	2,640	1,775	1,775	13,115
Grand Total	24,250	33,700	25,155	18,330	9,365	9,950	10,030	106,530

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Summary - All Projects
(000's)

	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016 - 2021</u>
General Facilities								
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	130	50	-	-	-	150	-	200
Equipment/Vehicles	1,100	390	730	740	1,385	705	455	4,405
Library	75	50	50	50	50	50	50	300
Municipal Center	170	170	170	170	170	170	170	1,020
Safety Center East	25	25	25	25	25	25	25	150
Service Center	50	50	50	50	50	50	50	300
Town Center Improvements	40	-	1,300	-	-	-	-	1,300
Total - General Facilities	1,590	735	2,340	1,050	1,695	1,165	765	7,750
Technology								
Computer Equipment	190	485	275	285	460	290	290	2,085
Emergency Communications Center	60	170	-	-	-	-	-	170
Fiber Optic Network	80	225	150	85	-	-	-	460
GIS	40	-	-	100	-	-	-	100
Radio System	-	3,000	900	-	-	-	-	3,900
Software Systems	515	240	75	95	25	75	95	605
Warning Sirens	50	-	30	-	30	-	30	90
Total - Technology	935	4,120	1,430	565	515	365	415	7,410
Transportation								
Bikeway Improvements	35	-	175	175	175	175	175	875
Carothers Parkway	-	535	-	-	-	-	-	535
Concord Road (west of Arrowhead Drive)	2,710	2,385	-	-	-	-	-	2,385
Concord Road (east of Edmondson Pike)	6,150	5,000	-	-	-	-	-	5,000
Crockett Road	-	440	-	-	-	-	-	440
Franklin Road (south section)	2,440	7,970	6,000	3,000	-	-	-	16,970
Future Transportation Projects	-	-	-	4,900	-	-	-	4,900
Granny White Pike	-	300	-	-	-	-	-	300
Johnson Chapel Road	-	50	-	-	-	-	-	50
Moores Lane	-	190	-	-	-	-	-	190
Sidewalks	145	105	50	50	50	50	50	355
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330
Sunset Road	50	1,160	5,090	2,025	-	460	2,740	11,475
Traffic Signal Upgrades	300	370	210	-	210	-	210	1,000

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Summary - All Projects
(000's)

	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016 - 2021</u>
Total - Transportation	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905
Storm Drainage								
Brentwood Lane	50	-	-	-	-	-	-	-
Calloway Drive	-	80	-	-	-	-	-	80
Subdivision Drainage	50	50	50	50	50	50	50	300
Total - Storm Drainage	100	130	50	50	50	50	50	380
Parks/Recreation								
Concord Park	110	-	-	-	-	-	-	-
Crockett Park	50	220	65	30	30	30	30	405
Deerwood Arboretum	-	-	15	-	-	-	-	15
Flagpole & Wikle Parks	130	1,635	-	-	-	-	-	1,635
Granny White Park	245	35	70	30	30	30	30	225
Marcella Vivrette Smith Park	1,300	545	2,430	-	100	2,060	-	5,135
Owl Creek Park	-	25	25	25	-	-	-	75
River Park	-	45	-	25	-	-	-	70
Tower Park	-	15	-	-	-	-	-	15
Total - Parks/Recreation	1,835	2,520	2,605	110	160	2,120	60	7,575
Utilities								
Meter Reading Program Upgrade	275	965	650	-	-	-	-	1,615
Miscellaneous Sewer Service Additions	-	45	100	420	45	45	45	700
Miscellaneous Sewer System Improvements	-	110	110	110	110	110	110	660
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	95	-	-	-	-	-	-	-
Sewer Rehabilitation Program	950	1,520	1,520	1,520	1,520	575	575	7,230
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	195	765	295	295	295	295	295	2,240
Water System Capacity Improvements	4,345	875	1,100	630	1,200	1,200	1,200	6,205
Total - Utilities	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510
TOTALS	24,250	33,700	25,155	18,330	9,365	9,950	10,030	106,530

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016-2021
General Facilities and Equipment Program - Summary
(000's)**

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	130	50	-	-	-	150	-	200
Equipment/Vehicles	1,100	390	730	740	1,385	705	455	4,405
Library	75	50	50	50	50	50	50	300
Municipal Center	170	170	170	170	170	170	170	1,020
Safety Center East	25	25	25	25	25	25	25	150
Service Center	50	50	50	50	50	50	50	300
Town Center Improvements	40	-	1,300	-	-	-	-	1,300
Grand Total	1,590	735	2,340	1,050	1,695	1,165	765	7,750

Source of Funds

Capital Projects Fund	190	50	1,300	-	-	150	-	1,500
General Fund	30	-	15	15	15	15	15	75
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	1,100	390	730	740	1,385	705	455	4,405
Facilities Maintenance Division	100	125	125	125	125	125	125	750
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	170	170	170	170	170	170	1,020
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	1,590	735	2,340	1,050	1,695	1,165	765	7,750

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Technology Program - Summary
(000's)

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Computer Equipment	190	485	275	285	460	290	290	2,085
Emergency Communications Center	60	170	-	-	-	-	-	170
Fiber Optic Network	80	225	150	85	-	-	-	460
GIS	40	-	-	100	-	-	-	100
Radio System	-	3,000	900	-	-	-	-	3,900
Software Systems	515	240	75	95	25	75	95	605
Warning Sirens	50	-	30	-	30	-	30	90
Grand Total	935	4,120	1,430	565	515	365	415	7,410

Source of Funds

Capital Projects Fund	405	3,430	-	-	-	-	-	3,430
General Fund	50	-	180	150	30	-	30	390
General Fund (Unrestricted Balance)	-	-	900	-	-	-	-	900
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	405	565	350	380	485	365	385	2,530
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	15	-	-	35	-	-	-	35
ECD Fund	60	125	-	-	-	-	-	125
Grand Total	935	4,120	1,430	565	515	365	415	7,410

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Transportation - Summary
(000's)

Projects	Projected FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total 6 Years 2016-2021
Bikeway Improvements	35	-	175	175	175	175	175	875
Carothers Parkway	-	535	-	-	-	-	-	535
Concord Road (west of Arrowhead Drive)	2,710	2,385	-	-	-	-	-	2,385
Concord Road (east of Edmondson Pike)	6,150	5,000	-	-	-	-	-	5,000
Crockett Road	-	440	-	-	-	-	-	440
Franklin Road (south section)	2,440	7,970	6,000	3,000	-	-	-	16,970
Future Transportation Projects	-	-	-	4,900	-	-	-	4,900
Granny White Pike	-	300	-	-	-	-	-	300
Johnson Chapel Road	-	50	-	-	-	-	-	50
Moore's Lane	-	190	-	-	-	-	-	190
Sidewalks	145	105	50	50	50	50	50	355
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330
Sunset Road	50	1,160	5,090	2,025	-	460	2,740	11,475
Traffic Signal Upgrades	300	370	210	-	210	-	210	1,000
Grand Total	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905

Source of Funds

Capital Projects Fund	1,855	4,225	350	25	-	-	-	4,600
General Fund	760	760	1,465	1,255	1,465	1,255	1,465	7,665
General Fund (Unrestricted Balance)	-	2,660	1,740	-	-	-	-	4,400
G O Bond Proceeds	-	-	2,000	6,300	-	460	2,440	11,200
Facilities Maintenance Division	35	-	50	50	50	50	50	250
Private Sources	-	-	-	-	-	-	-	-
Public Works Project Fund	-	-	1,000	600	-	-	300	1,900
Inter-Governmental Sources	9,170	11,605	6,000	3,000	-	-	-	20,605
State Street Aid Fund	1,040	1,040	1,040	1,040	950	950	950	5,970
Water and Sewer Fund	1,070	315	-	-	-	-	-	315
Grand Total	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Storm Drainage Program - Summary
(000's)

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-2021</u>
Brentwood Lane	50	-	-	-	-	-	-	-
Calloway Drive	-	80	-	-	-	-	-	80
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	100	130	50	50	50	50	50	380

Source of Funds

Capital Projects Fund	50	80	-	-	-	-	-	80
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	100	130	50	50	50	50	50	380

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Parks and Recreation Program - Summary
(000's)**

<u>Projects</u>	<u>Projected 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Concord Park	110	-	-	-	-	-	-	-
Crockett Park	50	220	65	30	30	30	30	405
Deerwood Arboretum	-	-	15	-	-	-	-	15
Flagpole & Wikle Parks	130	1,635	-	-	-	-	-	1,635
Granny White Park	245	35	70	30	30	30	30	225
Marcella Vivrette Smith Park	1,300	545	2,430	-	100	2,060	-	5,135
Owl Creek Park	-	25	25	25	-	-	-	75
River Park	-	45	-	25	-	-	-	70
Tower Park	-	15	-	-	-	-	-	15
Grand Total	1,835	2,520	2,605	110	160	2,120	60	7,575
<u>Source of Funds</u>								
Capital Projects Fund	1,465	755	780	-	-	-	-	1,535
General Fund	-	-	150	-	100	60	-	310
General Fund (Unreserved Balance)	-	-	1,500	-	-	-	-	1,500
G O Bond Proceeds	-	1,500	-	-	-	2,000	-	3,500
Facilities Maintenance Division	370	255	175	110	60	60	60	720
Private Sources	-	10	-	-	-	-	-	10
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	1,835	2,520	2,605	110	160	2,120	60	7,575

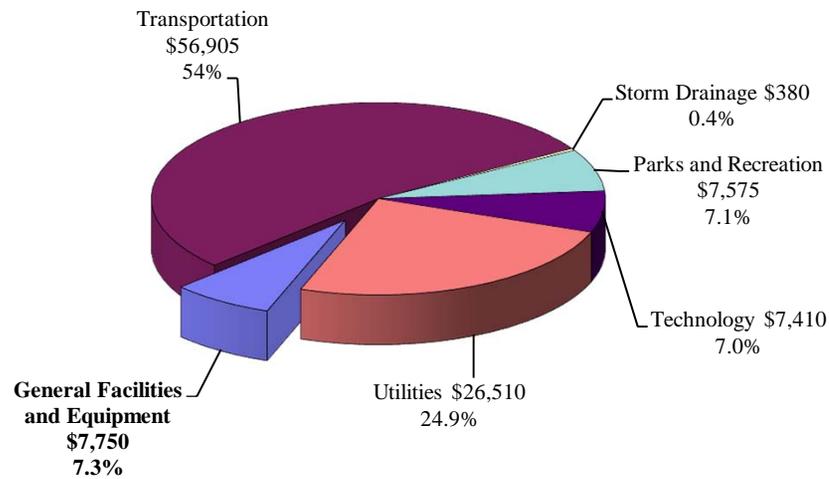
**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016-2021
Water and Sewer Program - Summary
(000's)**

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-2021</u>
Meter Reading Program Upgrade	275	965	650	-	-	-	-	1,615
Miscellaneous Sewer Service Additions	-	45	100	420	45	45	45	700
Miscellaneous Sewer System Improvements	-	110	110	110	110	110	110	660
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	95	-	-	-	-	-	-	-
Sewer Rehabilitation Program	950	1,520	1,520	1,520	1,520	575	575	7,230
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	195	765	295	295	295	295	295	2,240
Water System Capacity Improvements	4,345	875	1,100	630	1,200	1,200	1,200	6,205
Grand Total	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510
<u>Source of Funds</u>								
Water & Sewer Fund	565	3,270	2,540	2,140	1,835	1,755	1,755	13,295
Private Sources	-	5	5	75	5	5	5	100
Water & Sewer Bond/Note Proceeds	5,295	2,315	2,540	2,070	2,640	1,775	1,775	13,115
Grand Total	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510

GENERAL FACILITIES and EQUIPMENT

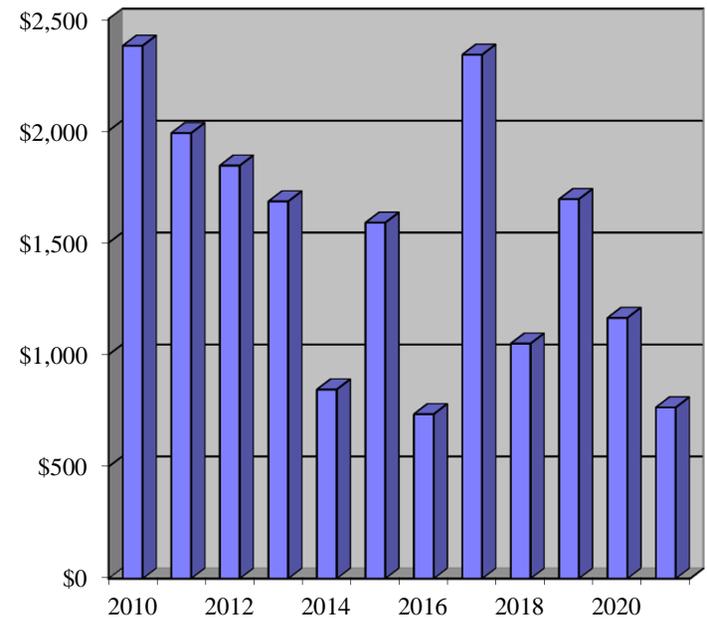
GENERAL FACILITIES AND EQUIPMENT

FISCAL YEARS 2016-2021



Amounts in 000's

General Facilities Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016-2021
General Facilities and Equipment Program - Summary
(000's)**

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	130	50	-	-	-	150	-	200
Equipment/Vehicles	1,100	390	730	740	1,385	705	455	4,405
Library	75	50	50	50	50	50	50	300
Municipal Center	170	170	170	170	170	170	170	1,020
Safety Center East	25	25	25	25	25	25	25	150
Service Center	50	50	50	50	50	50	50	300
Town Center Improvements	40	-	1,300	-	-	-	-	1,300
Grand Total	1,590	735	2,340	1,050	1,695	1,165	765	7,750

Source of Funds

Capital Projects Fund	190	50	1,300	-	-	150	-	1,500
General Fund	30	-	15	15	15	15	15	75
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	1,100	390	730	740	1,385	705	455	4,405
Facilities Maintenance Division	100	125	125	125	125	125	125	750
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	170	170	170	170	170	170	1,020
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	1,590	735	2,340	1,050	1,695	1,165	765	7,750

PROJECT	Community Identity Features	Account #	311-45200-5026
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PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Community Relations
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DESCRIPTION **This project provides for the installation of gateway entrance features, directional signage and other beautification improvements along the primary streets of Brentwood.**

STATUS **No projects have been identified for FY 2016. Funding has been allocated in future years for beautification projects as identified.**

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Construction			15	15	15	15	15	75
TOTAL EXPENDITURES	-	-	15	15	15	15	15	75
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			15	15	15	15	15	75
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	-	15	15	15	15	15	75

JUSTIFICATION

The provision of community identity features is a priority in the Brentwood 2020 Plan. The goal is to provide clear, attractive and distinct features to help distinguish Brentwood from the surrounding communities.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Community Planning	Account #	311-45200-5009
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Planning and Codes

DESCRIPTION This project addresses long range planning efforts of the City. This includes periodic updates to the Brentwood 2020 Comprehensive Plan which was originally adopted in 1999 and updated in 2006 and 2015. The 2020 Plan as amended provides guidance in decision-making as the community approaches projected build-out in the next 10-20 years. In addition, the City periodically conducts a special census between the normal U.S. Census to determine accurately the current population mid-decade.

STATUS FY 2014 and 2015 funding provided for the second full-scale review and update of the Brentwood 2020 Plan, as well as an update of the City's Major Thoroughfare Plan. This project will be completed in summer of 2015. FY 2015 funding also provided for a special census to determine the City's population growth since the 2010 Federal census. FY 2016 funding (\$50,000) is allocated for a study to update the Public Works Project Fee schedule to insure the fee assessed against new development adequately funds roadway capacity enhancements needed to mitigate the impact of new development. Future funding of \$150,000 is provided for the successor to the Brentwood 2020 Plan.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Consultant Services	100	50				150		200
Special Census	30							
TOTAL EXPENDITURES	130	50	-	-	-	150	-	200
SOURCE OF FUNDS								
Capital Projects Fund	100	50				150		200
General Fund	30							
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	130	50	-	-	-	150	-	200

JUSTIFICATION

The Public Works Project Fee schedule was last updated in 2007. One of the priorities indicated in the 2020 community survey was to insure that new development paid its appropriate share of transportation related project costs. Use of an outside firm to update the City's fee schedule will insure the revised schedule reflects current methodologies regarding appropriate cost allocations, credits, etc. and is legally defensible if challenged.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

0

OFFSETTING REVENUE:

(potential increase in PWPF revenues if a fee increase is justified)

PROJECT	Equipment/Vehicles	Account # 310-43120-89520 (PW), 310-42200-89520 (Fire), 310-44400-89520 (Parks), 310-42100-89520 (Police) 311-45200-5027 (Equipment)		
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Public Works, Fire, Parks, & Police	

DESCRIPTION The replacement of large equipment and apparatus with a value in excess of \$40,000 (including fully equipped patrol cars with specialized equipment) is funded from this account. Large equipment includes fire engines / rescue vehicles, ladder trucks, brush removal trucks, and larger dump trucks. Cars, pickups, tractors and equipment in departments other than Police less than \$40,000 are purchased directly in the operating budget of each department.

STATUS Equipment to be replaced in FY 2016 includes two (2) police vehicles with associated equipment (\$75,000). Funding is also proposed for replacement of a chipper truck (\$86,000) and backhoe (\$90,000) in Public Works, as well as the addition of a bucket truck for Traffic Operations (\$85,000). A Bobcat excavator (\$55,000) for the Parks department will be purchased subject to a FY 2015 year-end transfer of excess revenues from the General Fund to the Equipment Replacement Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Public Works Vehicles	85	260	260	470	195	270		1,455
Fire Pumper/Ladder	560		60		885			945
Parks Equipment	60	55	55					110
Police Vehicles	395	75	355	270	305	435	455	1,895
Misc. Equipment								
TOTAL EXPENDITURES	1,100	390	730	740	1,385	705	455	4,405
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	1,100	390	730	740	1,385	705	455	4,405
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
TOTAL FUNDS	1,100	390	730	740	1,385	705	455	4,405

JUSTIFICATION

In order to minimize the financial burden of purchasing expensive equipment in a single year, annual contributions are made by the benefiting General Fund departments to the Equipment Replacement Fund. This allows for the systematic accumulation of funds over multiple years for the replacement of larger equipment needed for the safe and effective delivery of services. This approach enables the General Fund to avoid a major cash outlay in a single fiscal year and/or the issuance of long term notes or bonds to fund equipment needs.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

0

**(routine replacement helps reduce annual maintenance
and repair costs)**

OFFSETTING REVENUE:

PROJECT	Library	Account #	311-45200-5002 312-44800-89600 (Facilities Maintenance)
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Library

DESCRIPTION This project provides for improvements and extraordinary repairs to the Brentwood Library. The original 43,500 sf. facility was opened in 1998 and was expanded in the fall of 2009 to 56,000 sf. plus some of the original space was reconfigured and renovated to better meet program needs.

STATUS Funding in FY 2015 included \$50,000 for improvements to the drive-up book-drop to enable automatic RFID check-in of all materials deposited into the drop. Funding of \$50,000 is projected in FY 2016 and each year thereafter from the Facility Maintenance Fund for extraordinary building maintenance needs as may be identified each year. This number has increased from \$25,000 annually due to increasing repairs on this 15 year old facility.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Architectural Services								
Construction								
Facility Maintenance	25	50	50	50	50	50	50	300
Equipment	50							
TOTAL EXPENDITURES	75	50	50	50	50	50	50	300
SOURCE OF FUNDS								
Capital Projects Fund	50							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	25	50	50	50	50	50	50	300
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	75	50	50	50	50	50	50	300

JUSTIFICATION

The library is the most utilized City facility on a daily basis. Improvements to the facility allows for expanded collections and programs and ensures the facility will remain a state of the art building serving the intellectual needs of patrons in the future. The book drop automation system will provide both a savings in staff time and enhanced customer service for patrons.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

0

OFFSETTING REVENUE:

PROJECT	Municipal Center	Account #	434-16200
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Finance

DESCRIPTION This project provides for general improvements, space renovations and extraordinary repairs to the Municipal Center to better meet the needs of various departments in providing service to the public and to protect the integrity of the building and property. This nearly 30 year old building was oversized in the beginning to allow for future expansion by City departments. A limited amount of surplus space is leased to a private tenant until there is a need for more public space.

STATUS Significant renovation projects were completed in FY 2012, including renovation of the main lobby and finance area, relocation and renovation of space for the Police Department support staff, expansion of the 911 Emergency Communications Center, and relocation of police patrol functions. Funding in FY 2016 is programmed for major maintenance that is required on the Municipal Center elevator (\$60,000). The elevator equipment is original to the building and several components are now non-compliant with current codes. Continued operation of the elevator requires these modifications.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Construction	150	150	150	150	150	150	150	900
Architectural Services	20	20	20	20	20	20	20	120
Consultant Services								
TOTAL EXPENDITURES	170	170	170	170	170	170	170	1,020
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund	170	170	170	170	170	170	170	1,020
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	170	170	170	170	170	170	170	1,020

JUSTIFICATION

When the building was originally opened in 1987, the initial space configuration for departments did not plan for orderly expansion of office space for departments as the need arose. The renovation projects completed in FY 2012 greatly improved space utilization and layout within the building and provide for enhanced public service capabilities within the lobby and a state of the art emergency communications center.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	15
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	15
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**(improvements increase annual depreciation expense
for the Municipal Center Fund)**

OFFSETTING REVENUE:

PROJECT	Safety Center East	Account #	311-45200-5014 (Safety Center East CIP) 312-42200-89600 (Facilities Maintenance)
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Public Works (Salt Bldg.) Fire (Maintenance)

DESCRIPTION This project provides for maintenance and improvements to the Safety Center East which includes Fire Station #4, the Police Dare office, a community room, fire training center, Public Works salt storage building, and fuel facility.

STATUS Facilities Maintenance funding in the amount of \$25,000 is programmed annually for extraordinary repair projects that may arise during the year.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering Services								
Construction								
Facility Maintenance	25	25	25	25	25	25	25	150
TOTAL EXPENDITURES	25	25	25	25	25	25	25	150
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Fund								
Facilities Maintenance Fund	25	25	25	25	25	25	25	150
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	25	25	25	25	25	25	25	150

JUSTIFICATION

This multi-functional facility serves a variety of city and community purposes. The facility is now over 10 years old and will require periodic maintenance to insure it remains in acceptable condition.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

0

OFFSETTING REVENUE:

PROJECT	Service Center	Account #	311-45200-5005 312-43170-89600 (Facilities Maintenance)
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project provides for periodic improvements to the Service Center on General George Patton Drive. The facility houses the operations for the Public Works, Parks, Water Services and Engineering departments as well as Fire Station No. 3. The site also includes the Police Department's impound lot, the chipper transfer facility, and one of the City's two salt storage facilities.		
STATUS	Funding for FY's 2016 - 2021 is for extraordinary repairs and maintenance as may be required for this 20+ year old facility.		

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Construction								
Facility Maintenance	50	50	50	50	50	50	50	300
TOTAL EXPENDITURES	50	50	50	50	50	50	50	300
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	50	50	50	50	50	50	50	300
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	50	50	50	50	50	50	50	300

JUSTIFICATION

Providing enhanced multi-media capabilities at the Service Center will allow for better communication between the Emergency Operations Center and Service Center departments during emergencies. Also, the original facility requires periodic repairs and improvements in the future to ensure effective operation and to protect the City's investment.

PROGRAM AND FACILITY COSTS:

Personnel Services	0
Operating Expenditures	0
Debt Service	

0

OFFSETTING REVENUE:

PROJECT	Town Center Improvements	Account #	311-45200-5013
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides partial funding for the purchase of land, design and/or construction of public improvements such as new parking and street upgrades within the Town Center District. A significant capital investment such as a large parking lot or parking structure will require a combination of City and private funding to be carried out.

STATUS Of the \$1.4 million originally allocated to this account in the Capital Projects Fund, \$100,000 was reallocated for the upgrade of a small section of Pewitt Drive during CY 2010. The remaining \$1.3 million is available should opportunities arise. In FY 2015, \$40,000 was allocated to remove existing cobblestones around the traffic circle, replacing them with decorative concrete. No projects are anticipated for FY 2016. FY 2017 funding is a placeholder amount with no project identified.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Land Acquisition								
Construction	40		1,300					1,300
TOTAL EXPENDITURES	40	-	1,300	-	-	-	-	1,300
SOURCE OF FUNDS								
Capital Projects Fund	40		1,300					1,300
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	40	-	1,300	-	-	-	-	1,300

JUSTIFICATION

The City is committed to facilitating redevelopment of the Town Center area by the private sector primarily through upgrade of the public infrastructure. To date, the City has spent \$3.7 million for construction of Town Center Way between Franklin Road and Wilson Pike, Pewitt Drive improvements and upgrade or relocation of water and sewer lines.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	0
(Significant expenses would occur with operation of a parking structure)	
	<u>0</u>

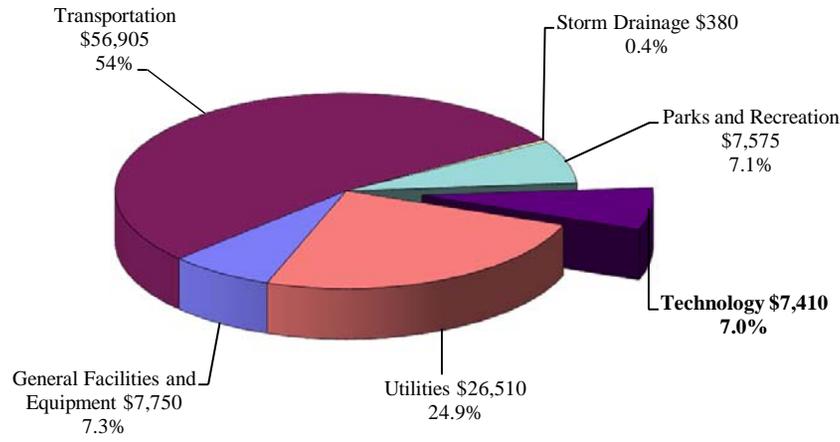
OFFSETTING REVENUE:

(Revenues from increased property & sales taxes in the area must exceed annual expenses to make a public parking project viable)

TECHNOLOGY

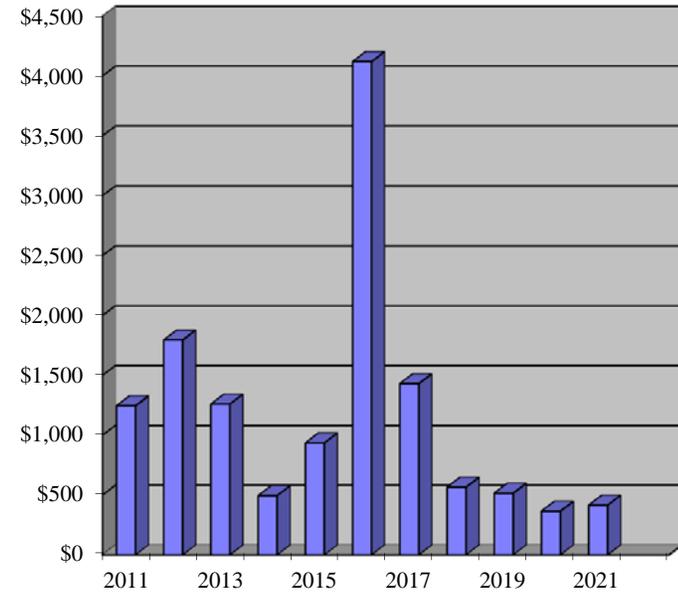
TECHNOLOGY

FISCAL YEARS 2016-2021



Amounts in 000's

Technology Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Technology Program - Summary
(000's)

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Computer Equipment	190	485	275	285	460	290	290	2,085
Emergency Communications Center	60	170	-	-	-	-	-	170
Fiber Optic Network	80	225	150	85	-	-	-	460
GIS	40	-	-	100	-	-	-	100
Radio System	-	3,000	900	-	-	-	-	3,900
Software Systems	515	240	75	95	25	75	95	605
Warning Sirens	50	-	30	-	30	-	30	90
Grand Total	935	4,120	1,430	565	515	365	415	7,410

Source of Funds

Capital Projects Fund	405	3,430	-	-	-	-	-	3,430
General Fund	50	-	180	150	30	-	30	390
General Fund (Unrestricted Balance)	-	-	900	-	-	-	-	900
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	405	565	350	380	485	365	385	2,530
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	15	-	-	35	-	-	-	35
ECD Fund	60	125	-	-	-	-	-	125
Grand Total	935	4,120	1,430	565	515	365	415	7,410

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Computer Equipment	Account #	310-41640-89540 (Hardware Repl.)
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology

DESCRIPTION This project provides for the purchase of specialized computer and communications equipment and the systematic replacement of computer hardware and equipment including desktop computers, network servers, etc. Decisions on actual replacements are based upon a comprehensive, six year replacement schedule with annual review and update by the Technology Department.

STATUS FY 2016 funding provides for computer and equipment replacements in city departments. FY 2016 funding also includes replacement of 35 mobile data terminals (\$65,000) and 27 other computers (\$45,000) in the Police Department, network storage at the Municipal Center and Library (\$70,000), 62 replacement computers at the Library, and computer infrastructure such as network switches, wireless access points, firewalls, and a fiber converter (\$65,000). Note that replacement of some items is based upon the condition and performance of the item at that time, and some items scheduled for replacement in FY 2016 may be delayed to FY 2017 or later if the item's performance is satisfactory.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Computer/Hardware/Equipment	190	485	275	285	460	290	290	2,085
Mobile Data/GPS Equipment								
Disaster Recovery System								
TOTAL EXPENDITURES	190	485	275	285	460	290	290	2,085
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	190	485	275	285	460	290	290	2,085
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	190	485	275	285	460	290	290	2,085

JUSTIFICATION

In order to minimize the financial burden of purchasing expensive equipment in any single year, annual contributions are made from the operating budget of the Technology Department to the Equipment Replacement Fund. This allows for the systematic accumulation of funds over multiple years for the replacement of basic equipment needed for the continued effective and efficient delivery of services. This approach enables the General Fund to avoid a major cash outlay in a single fiscal year and/or the issuance of general obligation debt.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

(periodic replacement reduces on-going maintenance cost)

OFFSETTING REVENUE:

PROJECT	Emergency Communications Center	Account #	450-13080
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Police/Fire/Technology

DESCRIPTION This project provides for upgrading the 911 Phone Controller, software and other equipment needed to maintain a state of the art Public Safety 911 and emergency communications center. The upgrade to the 911 telephone switch will allow additional features including texting, video and more. The new 911 controller add many feature including the ability to use touch screen monitors in a high definition.

STATUS FY 2015 funding provided for upgrades to the Next Generation 911 (NG911) mapping system, including \$45,000 for software and \$15,000 for hardware. FY 2016 funding includes a much-need upgrade from CAD 6 to CAD 10 (\$40,000). CAD is the Computer Aided Dispatch system that enables dispatchers to electronically coordinate public safety resources in response to emergency calls for service. Also included is funding for ungrading the 911 controller to be Next generation compliant (\$85,000) and a call logging recorder (\$40,000).

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Architecture/Engineering								
Electrical/Generator								
Computer Equipment		45						45
Communication Equipment	60	85						85
Computer Software		40						40
Construction								
TOTAL EXPENDITURES	60	170	-	-	-	-	-	170
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division		45						45
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund	60	125						125
TOTAL FUNDS	60	170	-	-	-	-	-	170

JUSTIFICATION

The emergency communications center is the critical first link for effective delivery of public safety services in Brentwood. A sufficiently sized and secured work space with state of the art computer, radio and telephone systems is essential for quick, effective and accurate processing of 911 telephone and radio calls and to minimize paperwork and duplicate records keeping.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

0

OFFSETTING REVENUE:

PROJECT	Fiber Optic Network	Account #	311-45300-6005
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology
DESCRIPTION	This program provides for the expansion of the City’s fiber optic network which serves both data and voice needs for City operations as well as the traffic signal synchronization system/traffic operations center.		
STATUS	FY 2015 funding provides for engineering design and initial construction of the southeastern fiber loop between Safety Center East and Wilson Pike along Sunset/Ragsdale/Split Log roads. This project should be complete by the end of CY 2015. Funding is also provided for a fiber connection with the City of Franklin along General George Patton Drive, which should also be complete by the end of CY 2015. FY 2016 funding includes design of a northern fiber loop along Wilson Pike between Concord Road and Church Street. Construction of the northern loop is programmed for FY 2017. FY 2018 funding provides for extension of the fiber network along Franklin Road between Concord Road and Moores Lane following completion of the Franklin Road widening project.		

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	30	60		10				70
Construction	50	165	150	75				390
TOTAL EXPENDITURES	80	225	150	85	-	-	-	460
SOURCE OF FUNDS								
Capital Projects Fund	80	225						225
General Fund			150	85				235
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	80	225	150	85	-	-	-	460

JUSTIFICATION

The City-owned fiber optic network allows for quicker and more secure voice and data communication between city facilities. Continued expansion of the network to create loops provides redundancy in case of damage to lines and disruption of normal service. The fiber connection to Franklin will provide for exchange of CAD, GIS, traffic camera video, and be a vital link from Williamson County to Nashville's existing 800MHz radio system, thus connecting the two systems to allow the new radio system to talk all over Middle Tennessee.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures (net)	10
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>10</u>
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(pole attachment fees to utilities)

OFFSETTING REVENUE:

PROJECT	GIS	Account #	311-45300-6008
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology

DESCRIPTION **This project provides for periodic updates to the City's computerized mapping system and aerial photography of the community. The City works closely with Williamson County and the City of Franklin to partner in the work when possible, thereby reducing the cost for all jurisdictions.**

STATUS **FY 2015 funding provided for an update of the GIS system aerial photography which was last updated in 2012. Funding in FY 2018 will be a complete orthophotography fly-over and system update.**

PROJECT BUDGET (000'S)	Proposed FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
GIS	40			100				100
TOTAL EXPENDITURES	40	-	-	100	-	-	-	100
SOURCE OF FUNDS								
Capital Projects Fund	25							
General Fund				65				65
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund	15			35				35
ECD Fund								
TOTAL FUNDS	40	-	-	100	-	-	-	100

JUSTIFICATION

The GIS system is a key component for carrying out many daily activities of the City, including 911 dispatch, water and sewer services, and planning/development activities. Periodic updates to the base mapping data to account for new development and redevelopment activities is critical to the overall accuracy and effectiveness of the GIS system for users.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Radio System	Account #	311-45300-6004
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology

DESCRIPTION This project provides for upgrades and expansion of the City's radio communication system that serves the Police and Fire Departments and Service Center Departments including Water & Sewer and Public Works.

STATUS Funding in FY's 2016 and 2017 is provided for development of an regional interoperable 700 MHz radio network to cover the entire county. If implemented, the new system will enable all public safety agencies and schools in Williamson County to communicate using the same technology and will also provide interconnection with the Metro Nashville 800 mhz system. Preliminary cost estimates show Brentwood's share of the system cost to be approximately \$3.9 million. Assuming a system contract with Motorola is approved by the newly created joint radio system authority and funding is approve by the Commission, system design and base infrastructure work would begin in FY 2016. Special year-end transfers of \$1,000,000 of excess General Fund revenues to the Capital Projects in 2013 and 2014 pre-funded \$2,000,000 of needed funding for this project. Another \$1,000,000 is proposed as part of a FY 2015 year-end transfer of excess General Fund revenues to the Capital Projects Fund. Remaining funding is currently projected to come from the General Fund unreserved fund balance in FY 2017.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Equipment		3,000	900					3,900
Construction								
TOTAL EXPENDITURES	-	3,000	900	-	-	-	-	3,900
SOURCE OF FUNDS								
Capital Projects Fund		3,000						3,000
General Fund								
General Fund (Unrestricted Balance)			900					900
G.O. Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	3,000	900	-	-	-	-	3,900

JUSTIFICATION

Despite technology advances in recent years with alternative forms of communication, the standard radio system remains the City's primary method of communication by employees in the field. It is also the most reliable communications system between departments during an emergency event or disaster when immediate communication is essential and cell phones and other forms of technology are overwhelmed though use by the general public. Interoperable communications with surrounding jurisdictions in both Williamson and Davidson counties is an essential component of effective delivery of public safety services given Brentwood's location between Nashville and Franklin. The opportunity to join with Williamson County and Franklin in development of a countywide system via expansion of Franklin's existing system and concurrently integrating systems with Metro Nashville provides a great opportunity to cost effectively upgrade the City's public safety communication systems and provide seamless communication across Williamson and Davidson counties.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	75
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>75</u>
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(New system would require annual maintenance fees, beginning in FY 2017)

OFFSETTING REVENUE:

PROJECT	Software Systems	Account #	311-45300-6002 (GEMS), 6011 (Website), 310-41640-89550 (ERF)
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology

DESCRIPTION This project provides for the implementation and/or replacement of basic software required for system wide operating systems and specialized departmental software to better handle day to day work tasks. For example, specialized software would include general ledger and payroll systems, codes and development tracking, court management, agenda management, website, etc.

STATUS FY 2015 funding provided for replacement of the Police records management and court software systems, which are now operational, and an update of the City's website, which will be complete by the end of CY 2015. FY 2015 also included updating Microsoft Office for city computers utilizing "Office 365". Funding in FY 2016 is provides for a replacement fire station alerting system known as Locution (\$180,000), which includes an interface to the CAD system. The product includes heart saver toning and voice dispatch. Funding for the station alerting system is subject to a FY 2015 year-end special transfer of excess General Fund revenues to the Capital Projects Fund. FY 2016 also includes completion of the website update (\$25,000), and miscellaneous software

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Miscellaneous Software	215	35	75	95	25	75	95	400
Specialized Department Software	300	205						205
TOTAL EXPENDITURES	515	240	75	95	25	75	95	605
SOURCE OF FUNDS								
Capital Projects Fund	300	205						205
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	215	35	75	95	25	75	95	400
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	515	240	75	95	25	75	95	605

JUSTIFICATION

In an effort to maximize effective and efficient use of computer technology, the implementation of the latest computer operating systems and specialized software is essential. Such systems provide the ability to better coordinate information flow, automate manual processes, and provide more timely, accurate and useful information to citizens and improved service delivery. Specialized software systems, while significant in cost on the front-end, normally have a useful life span of 10+ years. The acquisition of Locution as our replacement station alerting software will enable the Communications Center to upgrade to CAD 10 and will provide improved and improved tone-out process at all Brentwood fire stations.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	13
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>13</u></u>
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OFFSETTING REVENUE:

PROJECT	Warning Sirens	Account #	311-45300-6001
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology
DESCRIPTION	This project provides for periodic expansion of the City's outdoor emergency warning siren system as needed to fill any gaps in coverage area and to serve newly developed areas.		
STATUS	Funding in FY 2015 was provided for the installation of a warning siren, including a lightning detection system, at Smith Park. It is expected this siren will be installed by the end of FY 2015. Periodic funding is provided in future years for expansion or replacement sirens as may be needed.		

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Warning Siren	50		30		30		30	90
TOTAL EXPENDITURES	50	-	30	-	30	-	30	90
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund	50		30		30		30	90
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	50	-	30	-	30	-	30	90

JUSTIFICATION

The City's outdoor warning system is an important public safety protection tool when turbulent weather occurs in the Middle Tennessee region. Expansion of the system is done as needed to fill any coverage gaps identified through periodic testing as well as to serve new areas as development occurs.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	1
Debt Service	

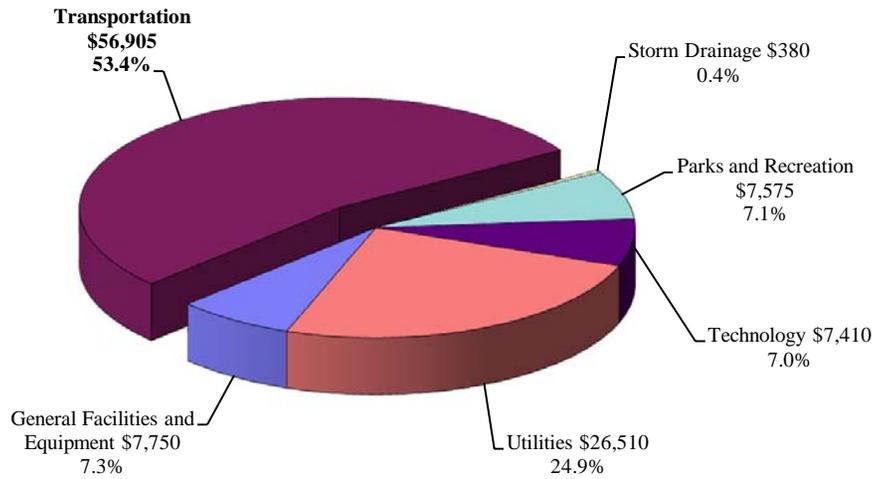
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>1</u>
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OFFSETTING REVENUE:

TRANSPORTATION

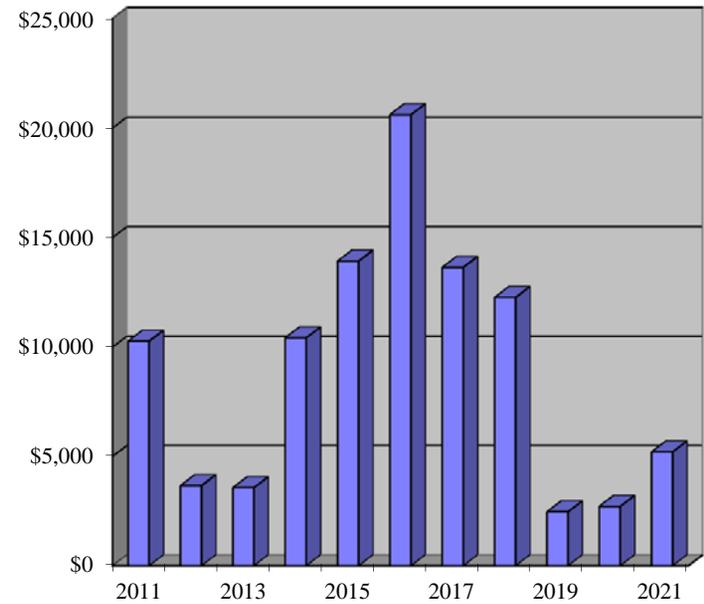
TRANSPORTATION

FISCAL YEARS 2016-2021



Amounts in 000's

Transportation Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Transportation - Summary
(000's)

Projects	Projected FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total 6 Years 2016-2021
Bikeway Improvements	35	-	175	175	175	175	175	875
Carothers Parkway	-	535	-	-	-	-	-	535
Concord Road (west of Arrowhead Drive)	2,710	2,385	-	-	-	-	-	2,385
Concord Road (east of Edmondson Pike)	6,150	5,000	-	-	-	-	-	5,000
Crockett Road	-	440	-	-	-	-	-	440
Franklin Road (south section)	2,440	7,970	6,000	3,000	-	-	-	16,970
Future Transportation Projects	-	-	-	4,900	-	-	-	4,900
Granny White Pike	-	300	-	-	-	-	-	300
Johnson Chapel Road	-	50	-	-	-	-	-	50
Moore's Lane	-	190	-	-	-	-	-	190
Sidewalks	145	105	50	50	50	50	50	355
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330
Sunset Road	50	1,160	5,090	2,025	-	460	2,740	11,475
Traffic Signal Upgrades	300	370	210	-	210	-	210	1,000
Grand Total	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905

Source of Funds

Capital Projects Fund	1,855	4,225	350	25	-	-	-	4,600
General Fund	760	760	1,465	1,255	1,465	1,255	1,465	7,665
General Fund (Unrestricted Balance)	-	2,660	1,740	-	-	-	-	4,400
G O Bond Proceeds	-	-	2,000	6,300	-	460	2,440	11,200
Facilities Maintenance Division	35	-	50	50	50	50	50	250
Private Sources	-	-	-	-	-	-	-	-
Public Works Project Fund	-	-	1,000	600	-	-	300	1,900
Inter-Governmental Sources	9,170	11,605	6,000	3,000	-	-	-	20,605
State Street Aid Fund	1,040	1,040	1,040	1,040	950	950	950	5,970
Water and Sewer Fund	1,070	315	-	-	-	-	-	315
Grand Total	13,930	20,605	13,645	12,270	2,465	2,715	5,205	56,905

PROJECT	Bikeway Improvements	Account #	311-43100-1001
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Parks/Recreation

DESCRIPTION This project provides for the extension of off-road bikeways in the City to connect city parks, neighborhoods, schools and other primary points of interest. This project is in addition to separated bikeway segments that are included as part of certain new roadway projects. The ultimate goal is to have a City-wide bikeway system consisting of both off-road trails and on-road bike lanes. This project also provides for the periodic repaving of older trail sections.

STATUS FY 2015 funding included resurfacing of the trail at Maryland Way Park (\$35,000). No projects are identified for FY 2016. Future years include a \$50,000 allocation from the Facilities Maintenance Fund to overlay older sections of the City's trails as well as \$125,000 for expansion of the trail system. Note that additional expansion of the City's trail system will occur via completion of the Concord Road and Franklin Road widening projects.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering			10	10	10	10	10	50
Right of Way Acquisition								
Utility Relocation								
Construction	35		165	165	165	165	165	825
TOTAL EXPENDITURES	35	-	175	175	175	175	175	875
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			125	125	125	125	125	625
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	35		50	50	50	50	50	250
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	35	-	175	175	175	175	175	875

JUSTIFICATION

Bikeway improvements are a high priority in the Brentwood 2020 Plan. It allows the community to become more pedestrian oriented and provides an alternative to vehicular travel between key destinations such as parks, schools, library, etc. The pathways also provide recreational opportunities for residents and enhances the desirability of neighborhoods and overall quality of life in Brentwood.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

(When fully completed)

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Carothers Parkway	Account #	311-43100-1038
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for the addition of a new dedicated right turn lane on northbound Carothers Parkway onto eastbound Moore's Lane. This new lane will allow for two northbound thru lanes to continue from Carothers to westbound Moore's Lane toward I-65. The turn lane will be approximately 250 feet in length. Also included in this scope is a retrofit to the storm drains to relieve a drainage problem in the northbound Carothers through lane.

STATUS Engineering design will begin summer of 2015 with construction to be complete by summer of 2016. Funding for this project (\$535,000) will be provided via a FY 2015 year-end transfer of General Fund unrestricted reserves to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering		45						45
Right of Way Acquisition								
Utility Relocation								
Construction		490						490
TOTAL EXPENDITURES	-	535	-	-	-	-	-	535
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)		535						535
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	535	-	-	-	-	-	535

JUSTIFICATION

Peak-hour traffic volumes cause considerable queuing of northbound traffic at this intersection due only one northbound thru lane being available. The addition of this turn lane will improve vehicular flow by allowing for two thru lanes for northbound traffic to proceed west on Moores Lane. This is one of several identified high impact/low cost projects to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2020 Update.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	25
Debt Service	

(When fully completed)

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>25</u>
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OFFSETTING REVENUE:

PROJECT	Concord Road (west of Arrowhead Drive)	Account #	311-43100-1021
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for improvements to a substandard section of Concord Road between Jones Parkway and Arrowhead Drive. Included is a 3 lane, curb and gutter road section, a separated bikeway on the south side of the road from Arrowhead Drive to Wilson Pike, a sidewalk on the north side from Arrowhead Drive to Jones Parkway, and the relocation of affected utilities.

STATUS The City paid 100% for design and ROW acquisition plus a 20% local match of construction and utility relocation costs to secure \$3.64 million in Federal funding that has been allocated through the MPO. Construction is underway and will take approximately 12 months to complete. Unlike the Concord Road and Franklin Road projects, the City is managing all construction aspects of this project, including utility relocation by non-City utilities. With regards to City utilities, this project will require the relocation of 1,800 linear feet of 12” ductile iron water line with a portion of the cost subject to reimbursement from federal funds. Funding of \$125,000 from unrestricted General Fund reserves is also reflected here for installation of an extended right turn lane on westbound Concord Road to northbound I-65, to be completed by summer 2015.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	30							
Right of Way Acquisition								
Utility Relocation	680							
Construction	2,000	2,385						2,385
TOTAL EXPENDITURES	2,710	2,385	-	-	-	-	-	2,385
SOURCE OF FUNDS								
Capital Projects Fund	490	450						450
General Fund								
General Fund (Unrestricted Balance)		125						125
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	1,830	1,810						1,810
State Street Aid Fund								
Water and Sewer Fund	390							
TOTAL FUNDS	2,710	2,385	-	-	-	-	-	2,385

JUSTIFICATION

This substandard section of Concord Road has two 10-foot wide lanes, no shoulders and severe vertical/horizontal curves. It is inadequate to safely handle increased traffic on this critical east/west arterial road in the center of Brentwood. With the improvements by TDOT to Concord Road - east of Sunset Road, this is the only remaining substandard section of Concord Road from Franklin Road to Nolensville Road. A three lane roadway design will be consistent with roadways sections that have been or will be improved from Arrowhead Drive east to Nolensville Road.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	0

ANNUAL OPERATING BUDGET IMPACT (000'S):	0
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(Concord Road is the maintenance responsibility of TDOT)

OFFSETTING REVENUE:

PROJECT	Concord Road (east of Edmondson Pike)	Account #	311-43100-1003
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for improvements to a 3.6 mile section of Concord Road from Edmondson Pike to Nolensville Road. The project will include a continuous three (3) lane pavement section with curb and gutter within a 94 foot wide ROW. Also included will be a continuous ten (10) foot wide separated bikeway/walkway built a minimum four (4) feet behind the south curb of the road. The City was also required by TDOT to purchase extra ROW along the north side to permit future expansion of the road to a five (5) lane section.

STATUS The City paid for engineering services and ROW acquisition within Brentwood and TDOT is paying for all utility relocations/road construction and ROW acquisition outside of Brentwood. FY 2015 funding reflects final ROW acquisition settlements. Construction on Phase 2 from Sunset Rd. to the eastern city limits is underway and projected to be complete by the end of FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition	150							
Utility Relocation								
Construction	6,000	5,000						5,000
TOTAL EXPENDITURES	6,150	5,000	-	-	-	-	-	5,000
SOURCE OF FUNDS								
Capital Projects Fund	150							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	6,000	5,000						5,000
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	6,150	5,000	-	-	-	-	-	5,000

JUSTIFICATION

The existing roadway section, with two 10-foot wide lanes, no shoulders and severe horizontal and vertical curves, is the primary east/west arterial road serving the fast growing areas of east Brentwood, Nolensville, south Davidson County, and Rutherford County. It is inadequate to safely handle increased traffic demands and provides no alternative travel option for bicycles and pedestrians. Local funding for design and ROW acquisition was essential for receiving a commitment by TDOT to fund utility relocations and reconstruction of this State highway.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	0

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>0</u>
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(Concord Road is the maintenance responsibility of TDOT)

OFFSETTING REVENUE:

JUSTIFICATION

Peak-hour traffic volumes at this intersection are such that the current 4-way stop creates considerable queuing and leads to longer commutes. An analysis by the City's traffic engineering consultants determined that a roundabout would significantly improve peak hour traffic flow at this intersection. This is one of several identified high impact/low cost projects to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2020 Update.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	0

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>0</u>
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(Concord Road is the maintenance responsibility of TDOT)

OFFSETTING REVENUE:

PROJECT	Franklin Road (south section)	Account #	311-43100-1016
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for the widening of 2.2 miles of Franklin Road from West Concord Road south to Moores Lane. The proposed improvements include a curb and gutter section with four (4) driving lanes plus a continuous center turn lane. In addition, the project will include a 10 ft. wide separated bikeway/walkway on the east side of the road built about 5 feet behind the curb.

STATUS The City is paying for engineering and a portion of ROW acquisition with TDOT paying for utility relocations and construction cost. Preliminary engineering work is complete. ROW appraisals and acquisition is underway and expected to be completed by the end of 2015. It is hoped that TDOT will provide construction funding beginning in FY 2016. City funding for ROW acquisition costs is currently available in the Capital Projects Fund as budgeted in prior years. City utility relocation costs will be approximately \$2.7 million, of which about 85% should be reimbursed from TDOT.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	120							
Right of Way Acquisition	1,500	3,000						3,000
Utility Relocation	820	1,970						1,970
Construction		3,000	6,000	3,000				12,000
TOTAL EXPENDITURES	2,440	7,970	6,000	3,000	-	-	-	16,970
SOURCE OF FUNDS								
Capital Projects Fund	620	3,000						3,000
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	1,140	4,655	6,000	3000				13,655
State Street Aid Fund								
Water and Sewer Fund	680	315						315
TOTAL FUNDS	2,440	7,970	6,000	3,000	-	-	-	16,970

JUSTIFICATION

Improvement of this major north/south arterial route running parallel to and west of I-65 is a high priority in the City's Major Thoroughfare Plan and the Brentwood 2020 Plan. The widening will be needed to handle the projected future traffic demand and to reduce delays between the north Brentwood area and Cool Springs area. When completed, all sections of Franklin Road inside the City limits will be a 5 lane roadway section.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

**(Franklin Road is the maintenance responsibility
of TDOT)**

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

OFFSETTING REVENUE:

PROJECT	Future Transportation Projects	Account #
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT
		Public Works
DESCRIPTION	<p>This project reserves funds from the planned FY 2018 (CY 2017) G.O. Bond issue for future road improvement projects as may be identified by the Major Thoroughfare Plan update, the joint Brentwood/Metro Nashville traffic study, or other transportation planning efforts.</p>	
STATUS	<p>No specific projects have been identified at this time. Transportation planning studies currently underway will provide information necessary to prioritize future project options.</p>	

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering				500				500
Right of Way Acquisition								
Utility Relocation								
Construction				4,400				4,400
TOTAL EXPENDITURES	-	-	-	4,900	-	-	-	4,900
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds				4,900				4,900
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	-	4,900	-	-	-	4,900

JUSTIFICATION

As reflected in the 2020 Update community surveys, traffic and transportation related issues are the primary concern of the community and will continue be a challenge as Brentwood and the surrounding communities experience consistently strong growth. Several transportation related studies currently underway will assist in determining priorities for future transportation related projects.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	320

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>320</u>
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OFFSETTING REVENUE:

PROJECT	Granny White Pike	Account #	311-43100-1040
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for installation of a second left turn lane from southbound Granny White Pike to eastbound Murray Lane. The existing westbound left turn lane into the Brass Lantern subdivision on Murray Lane will become a second eastbound lane, and the current westbound through lane on Murray will become a shared through-left lane.

STATUS Staff proposes to expedite construction of this project to get it complete during summer 2015 while school is out of session. With City Commission approval, engineering design will begin spring of 2015 with construction to be complete by August 2015. Note that timely cooperation from Williamson County schools for necessary property dedication at no cost to the City will be necessary to complete this project. Funding for this project (\$300,000) will be provided via a FY 2015 transfer of General Fund unrestricted reserves to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering		30						30
Right of Way Acquisition								
Utility Relocation		15						15
Construction		255						255
TOTAL EXPENDITURES	-	300	-	-	-	-	-	300
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)		300						300
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	300	-	-	-	-	-	300

JUSTIFICATION

Traffic volumes as a result of school-related traffic and evening peak-hour traffic causes significant left-turn queuing in the southbound lanes of Granny White Pike at the intersection with Murray Lane. This impedes the flow of thru traffic as well as vehicles turning right onto Murray Lane. This is one of several projects identified as high impact/low cost options to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2020 Update.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Johnson Chapel Road	Account #	311-43100-1039
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION **This project provides for minor safety improvements to the curve on Johnson's Chapel Road just west of Arden Court (adjacent to the pond). Changes will include minor widening of the shoulder to soften the curve and repaving. Work will be coordinated with the Water Services construction project in this area as well as the new subdivision on the east and south sides of the pond.**

STATUS **Funding for this improvement is anticipated to come from a FY 2015 transfer of \$50,000 from General Fund unrestricted reserves to the Capital Projects Fund. Construction is expected to take less than a week and will be done in the fall of 2015.**

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction		50						50
TOTAL EXPENDITURES	-	50	-	-	-	-	-	50
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)		50						50
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	50	-	-	-	-	-	50

JUSTIFICATION

The design of the roadway at this curve in Johnson Chapel Road presents safety concerns that must be mitigated. The lack of roadway shoulders presents a challenge to longer wheel base vehicles such as school buses when trying to remain inside travel lanes.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

OFFSETTING REVENUE:

PROJECT	Moores Lane	Account #	311-43100-1041
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for the extension of the Moores Lane eastbound left turn lane onto Westgate Circle. A portion of the grass median will be removed for extension of the existing turn lane to the west, which will add approximately 225 feet of additional stacking for a total left turn lane length of 400' +/-.

STATUS Engineering design will begin summer of 2015 with construction to be complete by summer of 2016. Funding for this improvement is proposed to come from a FY 2015 transfer of \$190,000 of unrestricted General Fund reserves to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering		20						20
Right of Way Acquisition								
Utility Relocation								
Construction		170						170
TOTAL EXPENDITURES	-	190	-	-	-	-	-	190
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)		190						190
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	190	-	-	-	-	-	190

JUSTIFICATION

Eastbound thru traffic on Moores Lane is impeded in peak hours by vehicles turning left onto Westgate Circle due to insufficient capacity in the left turn lane. By lengthening the turn lane, the additional storage should provide better travel times for thru traffic. This is one of several identified high impact/low cost projects to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2020 Update.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

OFFSETTING REVENUE:

PROJECT	Sidewalks	Account #	311-43100-1006
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This program provides for the construction of new sidewalks primarily along arterial and collector streets and in commercial areas where sections are missing or reconstruction of deteriorated sidewalks is needed.

STATUS FY 2015 funding included \$150,000, \$50,000 of which paid by the developer of the Tapestry, for construction of a sidewalk along Centerview Drive connecting Brentwood Place Shopping Center on the south to Church Street on the north. Also in FY 2015, \$50,000 was provided for repair of sidewalk sections along Concord Road and Franklin Road. Funding has been split between FY's 2015 (\$145,000) and 2016 (\$55,000) to account for construction schedules. Additional funding is programmed in FY 2016 (\$50,000) and beyond for other sidewalk improvement projects as may be identified from year to year.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Construction	145	105	50	50	50	50	50	355
TOTAL EXPENDITURES	145	105	50	50	50	50	50	355
SOURCE OF FUNDS								
Capital Projects Fund	145	105						105
General Fund			50	50	50	50	50	250
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	145	105	50	50	50	50	50	355

JUSTIFICATION

Sidewalks are being used more and more for travel and exercise. The focus of this program is to complete missing sections in the network and to maintain existing ones in good condition. These improvements encourage safe and convenient pedestrian movement and hopefully reduce the number of vehicles on City streets during peak hours. Proposed Centerview improvements will create a more pedestrian friendly streetscape and help to reduce vehicle speeds.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	5
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>5</u></u>
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OFFSETTING REVENUE:

PROJECT	Street Lighting	Account #	110-43160-89505 311-43100-1030
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This program provides for the installation of new and/or improved roadway lighting and other associated upgrades, primarily along arterial or collector roads and within the commercial districts.

STATUS No project has been identified for FY 2016. Future funding is allocated for projects if and when they are identified. Potential future projects include retrofitting existing street lights to LED fixtures. Pricing is expected to improve as more cities implement LED street lights and more suppliers enter the market.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Construction			20	20	20	20	20	100
TOTAL EXPENDITURES	-	-	20	20	20	20	20	100
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			20	20	20	20	20	100
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	20	20	20	20	20	100

JUSTIFICATION

This program provides for the incremental enhancement of street lighting capabilities in high traffic areas of the city to improve driver and pedestrian safety and meet other beautification objectives. Lighting under this program typically requires underground electric service and is separate from the periodic installation of new cobra head lights on existing power poles.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Street Resurfacing	Account #	121-43120-82640
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for the annual resurfacing of City streets under the City's pavement management system. The actual streets are determined in accordance with an annual field assessment which prioritizes resurfacing based on the need for repairs.

STATUS No increase in total funding is proposed for FY 2016. Another \$300,000 direct transfer from the General Fund to the Capital Projects Fund is anticipated in FY 2016 to provide advance funding for FY 2017 resurfacing needs. The proposed funding for FY 2018 - FY 2021 assumes a continuation of an annual \$300,000 transfer from the General Fund. Steady funding at \$2.1 million annually is projected through FY 2018. Maintain funding levels after FY 2018 will be dependent upon an increase in state gas tax revenues allocated to local governments or additional General Fund increases allocated to resurfacing.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Construction	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330
TOTAL EXPENDITURES	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330
SOURCE OF FUNDS								
Capital Projects Fund	300	300	300					600
General Fund	760	760	760	1,060	1,060	1,060	1,060	5,760
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund	1,040	1,040	1,040	1,040	950	950	950	5,970
Water and Sewer Fund								
TOTAL FUNDS	2,100	2,100	2,100	2,100	2,010	2,010	2,010	12,330

JUSTIFICATION

Increased annual funding is essential for the City to meet its goal of resurfacing all City streets every 20 years. The use of a pavement management system and systematic annual funding increases for this program help reduce routine maintenance and repairs to City streets. At present, there are over 430 lane miles of City maintained streets. This excludes state routes maintained by TDOT.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

(annual resurfacing helps reduce routine
maintenance expenses)

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

OFFSETTING REVENUE:

PROJECT	Sunset Road	Account #	311-43100-1027
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for improvements to Sunset Road from Concord Road to Waller Road, including relocation of the dangerous intersection with Ragsdale Road which is the site of frequent vehicular accidents.

STATUS FY 2015 funding provided for completion of an intersection alignment study for the intersection of Sunset Road and Ragsdale Road. Proposed improvements provide for relocation of the intersection approximately 800 feet to the east along Sunset Road. The project also includes widening and realignment of approximately three-fourths of a mile of Ragsdale Road back to the Glenellen subdivision to eliminate the sharp horizontal curve where Ragsdale Road crosses Owl Creek, and widening and realignment of approximately one-fourth mile of Sunset Road, including a new bridge over Owl Creek. This major safety and traffic improvement project will require a significant funding commitment (\$8.3 million) over the next three years. Proposed funding sources include \$3.4 million in G.O. Bonds from a proposed FY 2016 bond issue, \$2.9 million in unrestricted General Fund reserves proposed to be transferred over two fiscal years, \$1.6 million in Public Works Project Fees generated by new development, and \$300,000 from a proposed transfer to the Capital Projects Fund from the General Fund in FY 2016. Proposed improvements in FY 2020-21 include widening of Sunset Road from the new bridge north to Concord Road, subject to issuance of \$2.9 million in G.O. bonds in FY 2020.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	50	460	90	25		320		895
Right of Way Acquisition		700				140		840
Utility Relocation								
Construction			5,000	2,000			2,740	9,740
TOTAL EXPENDITURES	50	1,160	5,090	2,025	-	460	2,740	11,475
SOURCE OF FUNDS								
Capital Projects Fund	50		50	25				75
General Fund			300					300
General Fund (Unreserved Balance)		1,160	1,740					2,900
G O Bond Proceeds			2,000	1,400		460	2,440	6,300
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund			1,000	600			300	1,900
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	50	1,160	5,090	2,025	-	460	2,740	11,475

JUSTIFICATION

Sunset Road is an important arterial road in east Brentwood given the growth in residential neighborhoods in this area and the presence of Sunset Elementary and Middle schools just east of Waller. The Sunset Road connection to Ragsdale Road provides an important route to Wilson Pike, Ravenwood High School, and eventually to Cool Springs, and serves to relieve some traffic on Concord Road.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	410

ANNUAL OPERATING BUDGET IMPACT (000'S):	410
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OFFSETTING REVENUE:

PROJECT	Traffic Signal Upgrades	Account #	311-43100-1007
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for the installation of new traffic signals with mast arm poles and underground wiring, upgrades to existing signal installations and equipment, and signal synchronization studies.

STATUS Funding in FY 2015 included initiation of the joint Brentwood/Nashville traffic study of the Old Hickory and Maryland Farms area, replacement of old traffic detection cameras, upgrades to school zone signals, and repair/painting of 12 traffic signal poles on Murray Lane and Moores Lane. FY 2016 funding includes completion of the joint study, a new traffic monitoring camera at I-65 and Moores Lane (\$25,000, originally planned for FY 2015), replacement of 52 pedestrian crossing signals with ADA-compliant LED signals (\$45,000), and replacement of detection cameras at the last two intersections with outdated equipment (\$40,000). Also include in FY 2016 are battery back-ups, cabinets, and other signalization equipment (\$100,000). Future funding is allocated for a new signal bi-annually (\$210,000 each), subject to identification of priority areas and completion of a traffic engineering study justifying installation of a signal at identified locations.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	220	160	10		10		10	190
Equipment Upgrades	80	210						210
Extraordinary Repairs								
Construction			200		200		200	600
TOTAL EXPENDITURES	300	370	210	-	210	-	210	1,000
SOURCE OF FUNDS								
Capital Projects Fund	100	230						230
General Fund			210	-	210		210	630
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	200	140						140
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	300	370	210	-	210	-	210	1,000

JUSTIFICATION

Efficient operation of traffic signals represents one of the most cost effective methods for improving traffic flow within the City. Insuring that signal equipment is upgraded when necessary and that signal capabilities are maximized through improved technologies is a key component to addressing traffic concerns. Also, continued growth in the City and surrounding areas will likely require additional signals in the future at warranted intersections.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	5
Debt Service	

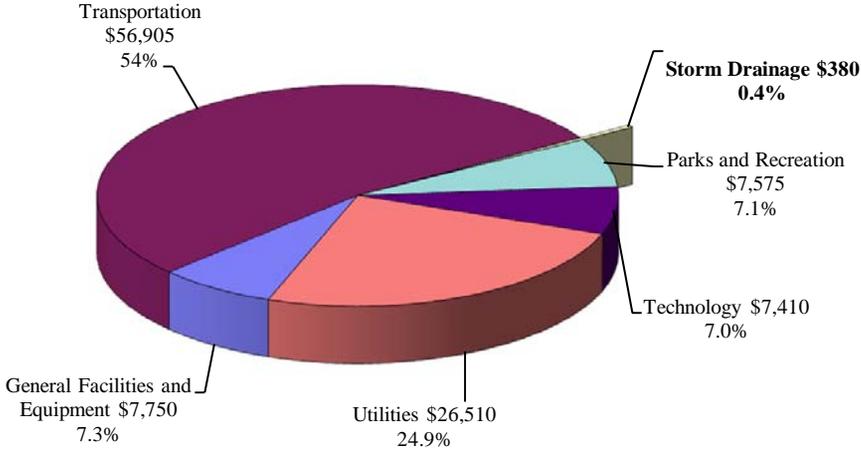
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>5</u></u>
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OFFSETTING REVENUE:

STORM DRAINAGE

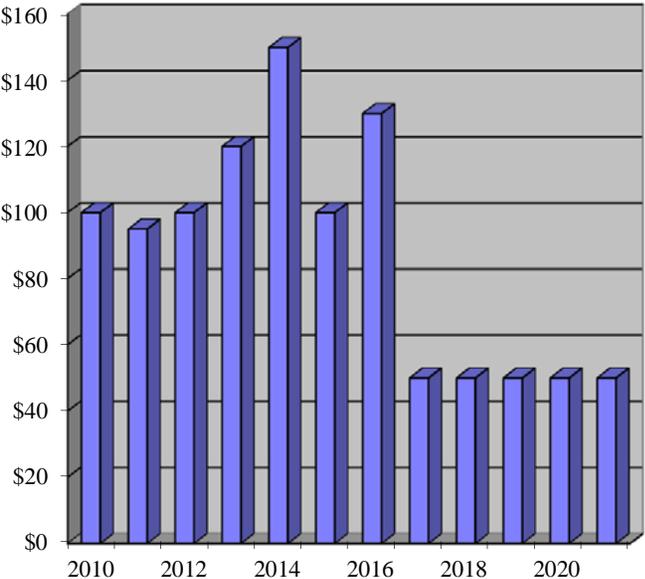
STORM DRAINAGE

FISCAL YEARS 2016-2021



Amounts in 000's

Storm Drainage Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Storm Drainage Program - Summary
(000's)**

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-2021</u>
Brentwood Lane	50	-	-	-	-	-	-	-
Calloway Drive	-	80	-	-	-	-	-	80
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	100	130	50	50	50	50	50	380

Source of Funds

Capital Projects Fund	50	80	-	-	-	-	-	80
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	100	130	50	50	50	50	50	380

PROJECT	Brentwood Lane / Hood Drive	Account #	311-43150-2011
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project will remove and replace an existing concrete swale adjacent to 1210 Brentwood Lane and 1209 Hood Drive. The swale, approximately 600' in length, connects the drainage systems on both roads. Most of the work on this project will be performed by hand, as heavy equipment access is not available.		
STATUS	Construction of this project is scheduled for early summer 2015 with the exact timing of work dependent on the weather. The project is expected to be completed by the end of FY 2015. No additional funding is necessary.		

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	50							
TOTAL EXPENDITURES	50	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	50							
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	50	-	-	-	-	-	-	-

JUSTIFICATION

Repair of this deteriorating swale is necessary to avoid erosion and potential damage to the adjacent residential properties.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for
department)**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Calloway Drive	Account #	311-43150-2012
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMENT	Public Works

DESCRIPTION This project provides for replacement of 350 feet of existing 24" galvanized storm drain pipe under Calloway Drive and Heathrow Hills Drive in the Heathrow Hills subdivision. The galvanized pipe has failed, allowing the roadway to be compromised. It will be replaced with reinforced concrete pipe and roadway cuts will be repaved. The project will also replace 2 single-inlet catch basins and 2 double-inlet catch basins.

STATUS Drainage work will typically be scheduled for the drier, summer months.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering Services								
Construction		80						80
TOTAL EXPENDITURES	-	80	-	-	-	-	-	80
SOURCE OF FUNDS								
Capital Projects Fund		80						80
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	-	80	-	-	-	-	-	80

JUSTIFICATION

This storm drain pipe under Calloway Drive and Healthrow Hills Drive has failed. Temporary repairs have been made until the existing pipe can be replaced.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for department)**

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

OFFSETTING REVENUE:

PROJECT	Subdivision Drainage	Account #	110-43150-89440
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project provides annual funding to correct miscellaneous, minor storm drainage problems as identified by complaints and field inspection throughout the year.		
STATUS	In order to minimize property damage and clean up/restoration efforts, this work is typically done in the drier, summer months.		

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	50	50	50	50	50	50	50	300
TOTAL EXPENDITURES	50	50	50	50	50	50	50	300
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds								
TOTAL FUNDS	50	50	50	50	50	50	50	300

JUSTIFICATION

The potential for localized, nuisance type flooding outside the legally designated flood plains is reduced by proactively addressing drainage deficiencies in the City. This annual effort lowers routine maintenance cost and labor for the Public Works Department and has reduced the number of drainage complaints from property owners in recent years.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for
department)

ANNUAL OPERATING BUDGET IMPACT (000'S):

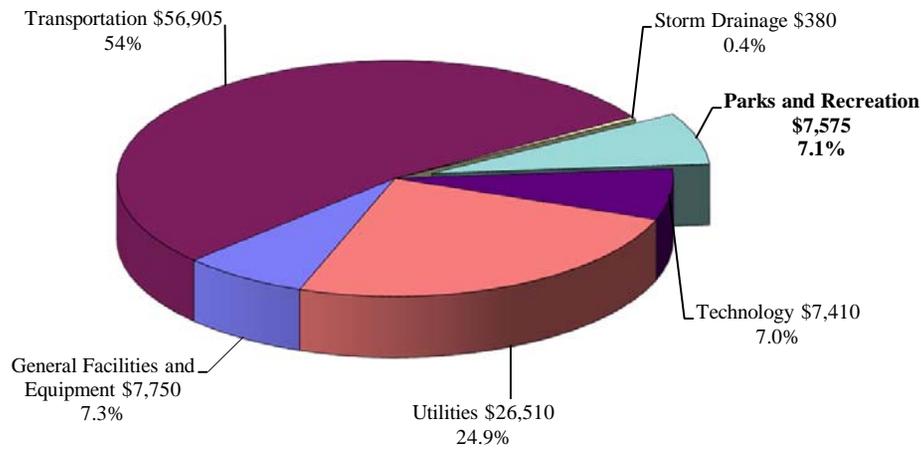
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OFFSETTING REVENUE:

PARKS and RECREATION

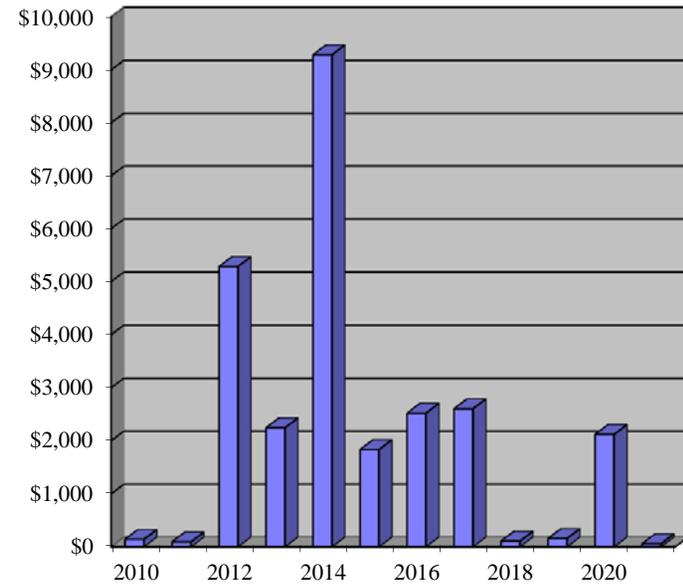
PARKS AND RECREATION

FISCAL YEARS 2016-2021



Amounts in 000's

Parks & Recreation Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016 - 2021
Parks and Recreation Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Total 6 Years 2016-21</u>
Concord Park	110	-	-	-	-	-	-	-
Crockett Park	50	220	65	30	30	30	30	405
Deerwood Arboretum	-	-	15	-	-	-	-	15
Flagpole & Wikle Parks	130	1,635	-	-	-	-	-	1,635
Granny White Park	245	35	70	30	30	30	30	225
Marcella Vivrette Smith Park	1,300	545	2,430	-	100	2,060	-	5,135
Owl Creek Park	-	25	25	25	-	-	-	75
River Park	-	45	-	25	-	-	-	70
Tower Park	-	15	-	-	-	-	-	15
Grand Total	1,835	2,520	2,605	110	160	2,120	60	7,575
<u>Source of Funds</u>								
Capital Projects Fund	1,465	755	780	-	-	-	-	1,535
General Fund	-	-	150	-	100	60	-	310
General Fund (Unreserved Balance)	-	-	1,500	-	-	-	-	1,500
G O Bond Proceeds	-	1,500	-	-	-	2,000	-	3,500
Facilities Maintenance Division	370	255	175	110	60	60	60	720
Private Sources	-	10	-	-	-	-	-	10
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	1,835	2,520	2,605	110	160	2,120	60	7,575

JUSTIFICATION

Concord Park totals 38.7 acres and includes the Brentwood Library campus, walking trails, and the parking lot serving the Civitan ball fields. Because of this park's location adjacent to heavily traveled Concord Road, exiting the parking lot can be challenging, especially for traffic turning left. Widening the drive aisle to provide two lanes for exiting traffic will greatly improve traffic flow out of the parking lot during busy periods.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S):
 0

OFFSETTING REVENUE:

PROJECT	Crockett Park	Account #	311-44400-3001
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This project provides for periodic improvements to the 164 acre comprehensive park. The park has baseball, soccer & football fields, tennis courts, playground, paved multi-use trails, the Eddy Arnold outdoor amphitheater, picnic shelters, parking & restroom facilities, the Cool Springs House and other historic structures, a disc golf course, open space, and the Williamson County Indoor Soccer Arena.

STATUS FY 2015 funding included replacement of 4-board fencing, conversion to energy efficient T-8 lights, and concrete step repairs. FY 2016 funding includes parking/road resurfacing (\$95,000), safety surface replacement at the playground (\$40,000), replacement soccer goals with weights (\$40,000), a new water line for the shelter restroom (\$10,000), shelter restroom re-roof (\$15,000), gutter replacement at 4-plex #2 (\$10,000), and beginning recycling in both ball complexes and tennis center (\$10,000). Funds are allocated FY 2017 for scoreboard replacement and amphitheater cleaning. Funding in future years is shown to insure the facilities are maintained at the current high standards.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	50	180	65	30	30	30	30	365
Furniture/Equipment		40						40
Landscaping/Trees								
Utilities								
TOTAL EXPENDITURES	50	220	65	30	30	30	30	405
SOURCE OF FUNDS								
Capital Projects Fund		50						50
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	50	170	65	30	30	30	30	355
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	50	220	65	30	30	30	30	405

JUSTIFICATION

This comprehensive park was substantially built from 1992 to 1996 and is the primary location for the active recreational programs in Brentwood, with a special emphasis on the youth of the community. Systematic improvements will help maintain the existing facilities in excellent condition & expand the range of services provided to the citizens of Brentwood.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	1
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>1</u>
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OFFSETTING REVENUE:

JUSTIFICATION

The 27 acre Arboretum is the City's nature park with its primary focus on maintaining a wide range of native Tennessee trees and habitat for wildlife preservation. Due to its location in an area that was extensively developed prior to 1990, it also serves as the defacto neighborhood park for residents living in west Brentwood.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

PROJECT	Flagpole & Wikle Parks	Account #	311-44400-3013
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This project provides for the master planning, design, and development of a 24 acre park dedicated to the City in FY 2011 as part of the approval for Phase 2 of the Mallory Park development. The land is located between the CSX railroad on the west and I-65 on the east, and south of Wikle Rd west and General McArthur Drive. The land is divided into two tracts and was made into two separate parks in 2014. Flagpole Park, the southern tract with vehicle access through the Mallory Park commercial development, will be used for active recreation purposes including unlighted athletic practice fields with parking and restroom facilities. Wikle Park is the northern tract adjacent to Wikle Road West and is targeted for more passive use by nearby residents.

STATUS Master planning of the park was completed in fall of 2014, and engineering design of improvements is underway. Construction of park improvements is expected to begin in the summer of 2015. Construction funding is subject to the issuance of \$1,500,000 in G.O. Bonds in FY 2016. Off-site improvements will also be needed such as pedestrian connections to adjoining neighborhoods and road repaving (\$125,000), funding of which will be subject to a FY 2015 special year-end transfer of excess General Fund revenues to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	130	10						10
Buildings, Facilities, etc.		1,500						1,500
Off-Site Improvements		125						125
TOTAL EXPENDITURES	130	1,635	-	-	-	-	-	1,635
SOURCE OF FUNDS								
Capital Projects Fund	130	135						135
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds		1,500						1,500
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	130	1,635	-	-	-	-	-	1,635

JUSTIFICATION

Development of a park in this area of the City will provide a convenient passive park for nearby residents to use, additional practice fields to better meet the growing demand from youth sports, and fulfill an objective in the Brentwood 2020 Plan to have a neighborhood park in the southwest area of the City.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	20
Debt Service	98

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>118</u>
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(When park area is fully developed and operational)

OFFSETTING REVENUE:

PROJECT	Granny White Park	Account #	311-44400-3003
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This 32 acre park located next to Brentwood Middle and High Schools serves the active and passive recreational program needs of adults and youth. It includes 3 ball fields, playground, picnic pavilion, soccer field, 4 tennis courts, paved walking path, green space, and support facilities.

STATUS FY 2015 projects included replacement of existing ball field light fixtures and painting of the concession stand roof. FY 2016 funding includes basketball court resurfacing (\$5,000), baseball field sideline netting replacement (\$5,000), painting the front gate and tennis court fencing (\$15,000), and sidewalk replacement (\$10,000). Future maintenance projects include full renovation of the basketball court, replacement of the pavilion ceiling, renovation of the irrigation system, and playground equipment updates.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Fields, Courts etc.	245							
Buildings, Facilities, etc.		35	70	30	30	30	30	225
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	245	35	70	30	30	30	30	225
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	245	35	70	30	30	30	30	225
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	245	35	70	30	30	30	30	225

PROJECT	Marcella Vivrette Smith Park	Account #	311-44400-3015
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This 400 acre park includes open pastures, wooded hillsides, the historic Ravenswood home and associated historic outbuildings. Proposed improvements include a vehicle & pedestrian access bridge across the railroad, unlighted multi-purpose fields near the historic home, unpaved hiking trails, a paved multi-use trail connecting to the City's existing trail network, renovation of the Ravenswood house for public use, picnic shelters, and a possible mountain bike trail network. Additional improvements on the newly acquired 78 acres will be determined in the future.

STATUS Phase 1 improvements were completed in the fall of 2014. Phase 2 design (\$175,000) is split between FY 2016 and 2017. FY 2016 funding also includes widening of the Ravenswood driveway (\$65,000) to allow for two way traffic, replacement of the mansion roof (\$150,000), stabilization of the historic kitchen building (\$165,000), and funding for any extraordinary repairs on the historic outbuildings (\$25,000). Phase 2 improvements in FY 2017 (\$2.25 million) will include completion of the loop road and development of two multi-purpose fields with parking. Funding in 2017 will also provide for stabilization work of the slave cabins (\$70,000) and minor improvements to the barn to make it more suitable as a maintenance facility (\$80,000). Funding for construction of Phase 2 is contingent upon a transfer of \$1.5 million from unrestricted General Fund reserves to the Capital Projects Fund at the end of FY 2016, and \$750,000 from the Adequate Facilities Tax Fund. Phase 3 improvements are scheduled to begin in FY 2019 at the earliest, contingent upon a bond issue of \$2 million in FY 2020.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Planning/Engineering	35	145	30		100	60		335
Park Land Acquisition								
Construction/Development	1,265	65	2,250			2,000		4,315
Historic Structure Renovation		335	150					485
TOTAL EXPENDITURES	1,300	545	2,430	-	100	2,060	-	5,135
SOURCE OF FUNDS								
Capital Projects Fund	1,300	545	780					1,325
General Fund			150		100	60		310
General Fund (Unreserved Balance)			1,500					1,500
G O Bond Proceeds						2,000		2,000
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	1,300	545	2,430	-	100	2,060	-	5,135

JUSTIFICATION

This park land acquisition allows the City to significantly increase the amount of quality, permanent open space in the community in a location that is directly accessible from an already improved arterial road and by the City’s bikeway network. The land adds a new feature to the City’s comprehensive park system by preserving a significant amount of forested wildlife habitat in its natural state, with hiking trails for outdoor enthusiasts. This property is large enough to allow for development of additional multipurpose fields to meet the increasing demand from soccer, lacrosse, rugby, etc. and permanent preservation of the historically significant and structurally sound home on the property and enable future use by the City.

PROGRAM AND FACILITY COSTS:

Personnel Services	90
Operating Expenditures	115
Debt Service	910

ANNUAL OPERATING BUDGET IMPACT (000'S):	1,115
(When park is fully developed)	

OFFSETTING REVENUE:	105
(Historic House Rental)	

PROJECT	Owl Creek Park	Account #	311-44400-3006
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION The development of this neighborhood park in east Brentwood was completed in CY 2007. Improvements included open play areas, picnic shelter, playground, outdoor basketball court, paved bikeway/walkways with a bridge connection to the adjoining neighborhood, restrooms, parking, fencing and landscaping.

STATUS Funding for FY 2016 includes installation of four-board fencing along the entire Concord Road frontage of the park and an entrance feature (\$25,000). Timing will be dependent upon completion of the Concord Road East improvement project. Facilities Maintenance funding is projected beginning in FY 2017 for phased replacement of the boardwalk sections of the multi-use trail in this park.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Planning/Engineering								
Buildings, Facilities, etc.			25	25				50
Furniture/Equipment								
Landscaping/Trees		25						25
TOTAL EXPENDITURES	-	25	25	25	-	-	-	75
SOURCE OF FUNDS								
Capital Projects Fund		25						25
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division			25	25				50
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	25	25	25	-	-	-	75

PROJECT	River Park	Account #	311-44400-3002
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION **This project provides for extraordinary repairs and improvements to facilities and property in this heavily used park located along the Little Harpeth River. The primary entry point is located at the southeast corner of Concord Road and Knox Valley Road.**

STATUS **FY 2016 funding includes parking lot resurfacing/stripping (\$35,000), bathroom painting (\$5,000), and basketball court resurfacing (\$5,000). FY 2018 includes funding for playground updates.**

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Buildings, Facilities, etc.		45		10				55
Furniture/Equipment				15				15
Landscaping/Trees								
TOTAL EXPENDITURES	-	45	-	25	-	-	-	70
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		45		25				70
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	45	-	25	-	-	-	70

JUSTIFICATION

Improvements are periodically needed to keep this heavily used park attractive and safe.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

(Improvements will lower routine maintenance/repair expenses)

OFFSETTING REVENUE:

PROJECT	Tower Park	Account #	311-44400-3004
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This project provides for improvements to the 47 acre park located immediately north of the WSM Radio Tower. The park has 3 multi-purpose fields with irrigation and lighting, plus a restroom facility and bike trails that connect the park to the adjoining developments and neighborhoods. This centrally located park is also the location of the City's Nutro dog park.

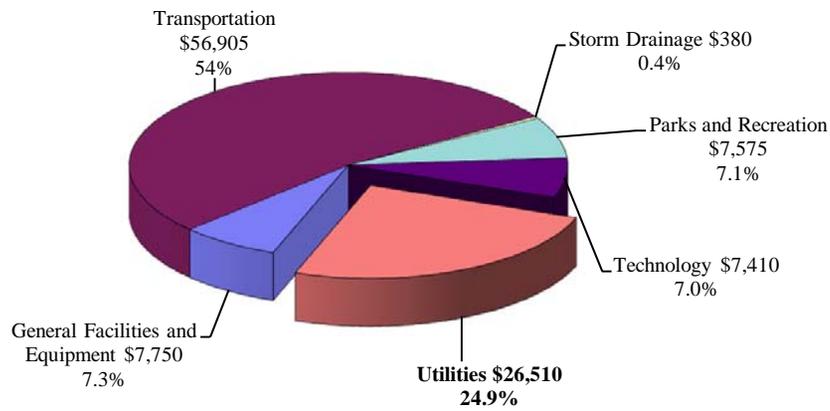
STATUS Construction of the dog park was completed in late FY 2011 and has been well received by the community. Funding in FY 2016 includes dog play stations/equipment in the dog park funded via sponsorship from Nutro.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.		5						5
Furniture/Equipment		10						10
Landscaping/Trees								
TOTAL EXPENDITURES	-	15	-	-	-	-	-	15
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		5						5
Private Sources		10						10
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	15	-	-	-	-	-	15

UTILITIES

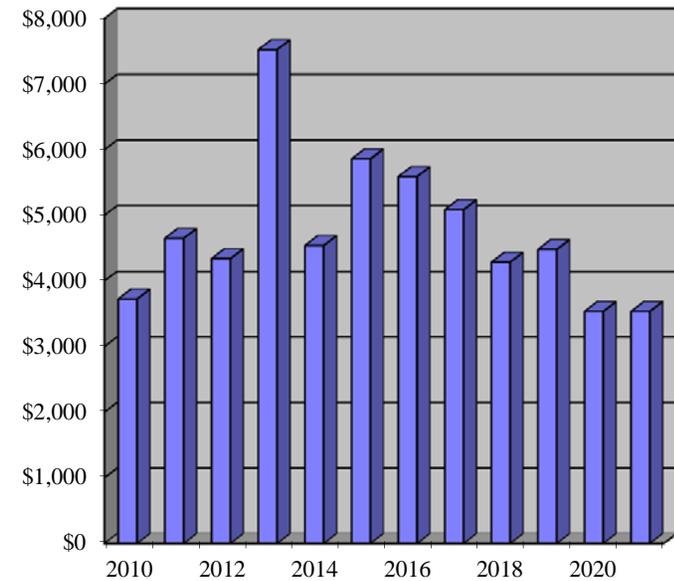
UTILITIES

FISCAL YEARS 2016-2021



Amounts in 000's

Utilities Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2016-2021
Water and Sewer Program - Summary
(000's)**

<u>Projects</u>	<u>Projected FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	Total 6 Years 2016-2021
Meter Reading Program Upgrade	275	965	650	-	-	-	-	1,615
Miscellaneous Sewer Service Additions	-	45	100	420	45	45	45	700
Miscellaneous Sewer System Improvements	-	110	110	110	110	110	110	660
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	95	-	-	-	-	-	-	-
Sewer Rehabilitation Program	950	1,520	1,520	1,520	1,520	575	575	7,230
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	195	765	295	295	295	295	295	2,240
Water System Capacity Improvements	4,345	875	1,100	630	1,200	1,200	1,200	6,205
Grand Total	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510
<u>Source of Funds</u>								
Water & Sewer Fund	565	3,270	2,540	2,140	1,835	1,755	1,755	13,295
Private Sources	-	5	5	75	5	5	5	100
Water & Sewer Bond/Note Proceeds	5,295	2,315	2,540	2,070	2,640	1,775	1,775	13,115
Grand Total	5,860	5,590	5,085	4,285	4,480	3,535	3,535	26,510

PROJECT	Meter Reading System	Account #	412-16700-8051
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This multi-year project will upgrade the existing, labor intensive "touch-read" water meter reading technology adopted 20+ years ago to a state of the art "fixed-based" reading technology utilizing radio antenna installed on towers located across the city. The proposed fixed-based reading system includes the installation of meter reading equipment on at least 3 tower sites and the replacement of reading transmitters and meters at all customer sites. The updated reading system allows for greater reading efficiencies, enhanced customer service and reduced labor and operational costs.

STATUS In FY 2015, department crews upgraded meters and meter reading equipment totaling approximately 825 customer sites which are now remotely read from the billing office. Later in FY 2015, a contract will be awarded to provide for upgrades to an additional 5,500 customer sites, to be done over two fiscal years - approximately 1,500 FY2015 and 4,000 in FY2016. Additional site upgrades will then continue in FY2017.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering								
Construction	275	965	650					1,615
TOTAL EXPENDITURES	275	965	650	-	-	-	-	1,615
SOURCE OF FUNDS								
Water & Sewer Fund	275	965	650					1,615
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	275	965	650	-	-	-	-	1,615

JUSTIFICATION

The current reading system is aging, labor intensive and replacement of system parts and components are becoming obsolete. The newer meter reading technology will allow the City to better manage water losses with greater reading efficiency, provide enhanced customer service through faster complaint resolution and customer's understanding of water consumption, offset future labor costs and reduce operational cost such as fuel and vehicle expenses.

PROGRAM AND FACILITY COSTS (000's):

Personnel Services	
Operating Expenditures	(50)
(System will result in operational savings due to reduced water loss)	
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>(50)</u>
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OFFSETTING REVENUE:

PROJECT	Miscellaneous Sewer Service Additions	Account #	412-16700-8033
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project provides for the extension of public sanitary sewer service, via grinder systems, to miscellaneous homes without sewer that can be reasonably connected to a nearby City sewer line. The policy for extending sewer service was enacted some 25 years ago and is covered under Section 70-10 of the Municipal Code. Implementation requires petitions & financial commitments from the majority of interested residents in an area for a project to move forward. Past projects have included neighborhoods such as Brenthaven, Holly Tree Gap area, Carondelet and Meadowlake.

STATUS No requests for connections were made in FY 2015 and none have been identified for FY 2016. However, the next planned, large scale project is associated with the Franklin Rd. widening project and would include about 20 homes located in that area that are currently served by septic system. The extension of sewer in coordination with the planned Franklin Road widening project is proposed if there is sufficient support among residents. Funding is provided in FY2017 and FY2018; design being completed in FY2017 and project construction in FY2018. Funds have also been included in subsequent years to provide for additional small scale sewer connections annually if requested and approved.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	-	5	60	5	5	5	5	85
Construction		40	40	415	40	40	40	615
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	45	100	420	45	45	45	700
SOURCE OF FUNDS								
Water & Sewer Fund	-	40	95	345	40	40	40	600
Private Sources		5	5	75	5	5	5	100
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	45	100	420	45	45	45	700

JUSTIFICATION

Starting in the early 1990's, all original subdivisions in the City's sewer service area built with septic systems have been tied to public sewer under the neighborhood extension program. However, there are a few isolated homes on larger lots located outside traditional subdivisions where public sewer may be needed in the future due to septic system failures.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	5
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>5</u>
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OFFSETTING REVENUE:	75
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(Each home will pay a \$3,500 tap fee)

PROJECT	Miscellaneous Sewer System Improvements	Account #	412-16700-8039
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project provides for small sewer system improvements on an as needed basis. Examples include small pipe replacement, pipe realignment projects to improve flow characteristics or manhole repairs. Potential projects may be identified from the computerized sewer system model, customer complaints and field investigations.

STATUS Annual funding is programmed to handle small projects that may arise each year. At this point, no specific projects have been identified for FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering		10	10	10	10	10	10	60
Construction		100	100	100	100	100	100	600
Property/Easement Acquisition								
TOTAL EXPENDITURES		110	110	110	110	110	110	660
SOURCE OF FUNDS								
Water & Sewer Fund		110	110	110	110	110	110	660
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS		110	110	110	110	110	110	660

JUSTIFICATION

The EPA's Capacity Management, Operations and Maintenance (CMOM) program requires the City to actively monitor and address problems contributing to sewer overflows from the public sewer system. Periodically, certain problems or opportunities will be identified such as a collapsed pipe or realigning a small segment of pipe that, if addressed expeditiously, can save money and improve the overall operation and reliability of the system.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	0
Debt Service	0
(repairs will help reduce treatment costs)	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>0</u>
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OFFSETTING REVENUE:

PROJECT	Miscellaneous Water System Improvements	Account #	412-16700-8040
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project provides annual funding for on-going water system improvements on an as needed basis. Examples include small line extensions, connectors, or adding appurtenances such as valves. Projects may be identified from review & analysis of the computerized water system model, customer complaints, and field investigations.

STATUS Annual funding is programmed to handle small projects that may arise each year. At this point, no specific projects have been identified for FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering		10	10	10	10	10	10	60
Construction		100	100	100	100	100	100	600
Property/Easement Acquisition								
TOTAL EXPENDITURES		110	110	110	110	110	110	660
SOURCE OF FUNDS								
Water & Sewer Fund		110	110	110	110	110	110	660
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS		110	110	110	110	110	110	660

JUSTIFICATION

Periodically, certain problems such as low pressure and/or flow, etc. are identified in the water system and can be corrected expeditiously through minor capital improvements or system modifications. Having funds programmed in the CIP will allow the department to initiate corrective actions in a more timely manner.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	0
Debt Service	0

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>0</u></u>
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OFFSETTING REVENUE:

PROJECT	Sewer System Model	Account #	412-16700-8042
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project provides for the development of a computer model to better identify line capacity and sewer flows through the various trunk & collector lines in the sanitary sewer system.

STATUS FY 2015 included funding to finish the sewer system hydraulic computer model which includes development and calibration of the model. The sewer system model is a requirement of the department's CMOM (Capacity Management, Operations and Maintenance) program. The model will be used annually to provide for enhanced planning and analysis as well as aiding routine system operations.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	95							
Construction								
Property/Easement Acquisition								
TOTAL EXPENDITURES	95	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Water & Sewer Fund	95							
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	95	-	-	-	-	-	-	-

JUSTIFICATION

Development and continuous updating of a computerized model of the City's sewer system is a requirement of TDEC, via the City's CMOM program and is a vital tool for effective, long term planning and management of the system. The model will provide staff with a much more accurate assessment of individual line capabilities and potential problems for targeted, cost effective maintenance and improvement projects. The model will also allow the department to more accurately predict the impact of proposed new development to the sewer system.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures (annual updates)	10
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	10
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OFFSETTING REVENUE:

PROJECT	Sewer Rehabilitation Program	Account #	412-16700-8023
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This comprehensive, multi-year project which began in 2006, targets flow monitoring, inspection, rehabilitation and repair of the City's aging sewer infrastructure system serving the Little Harpeth River sub-basin. Per the State Order, the City along with Metro Nashville, also a party to the Order, were required to submit a report summarizing Metro and the City's progress and compliance through 2014.

STATUS Per the 2014 CAP/ER compliance report approved by TDEC, the City is committed to spend \$1.25 million annually through FY2019 (CY2018) on continued sewer system rehabilitation/upgrade projects. Specific rehabilitation requirements during this period will include continued targeting of mostly sewer laterals (service lines) and manholes, and possible main line segments as determined by the City's consulting engineer to be the most likely source of ground and surface water intrusion. Funding programmed in FY2020 and beyond is for anticipated proactive rehabilitation efforts to continue to improve the operational efficiency of the system. Funding is proposed through the issuance of approximately \$7 million in Water and Sewer revenue bonds. However, the appropriate method of funding this annual system repair and replacement program will be considered as part of the ongoing financial model and rate study project.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering/Inspection	175	270	270	270	270	75	75	1,230
Construction	775	1,250	1,250	1,250	1,250	500	500	6,000
Land Acquisition	0							
TOTAL EXPENDITURES	950	1,520	1,520	1,520	1,520	575	575	7,230
SOURCE OF FUNDS								
Water & Sewer Fund		80	80	80	80			320
Private Sources								
Water & Sewer Bond/Note Proceeds	950	1,440	1,440	1,440	1,440	575	575	6,910
TOTAL FUNDS	950	1,520	1,520	1,520	1,520	575	575	7,230

JUSTIFICATION

TDEC has directed the City and Metro Nashville to reduce inflow/infiltration of stormwater entering the system's collection system and eliminate sewer system overflows at the two agency's inter-connection point that periodically occur during major storm/flooding events. Measured reductions and program progress to date have been documented by the program's consultant and the next phase (Phase III) approved by TDEC. TDEC's major focus of policy is to reduce I/I in communities through promoting rehabilitation processes, practices and strategies to eliminate as much I/I as possible. Reductions in stormwater inflow/infiltration reduce loss of capacity and reduce operational cost associated with the transportation and treatment.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
(Repairs will lower treatment costs by reducing storm water infiltration into the system)	
Debt Service	455
(Annual total new cost from the issuance of new bonds in CY 2015, 2017, 2019)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>455</u>

OFFSETTING REVENUE:

PROJECT	Sewer System Capacity Improvements	Account #	412-16700-8056
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project is intended to fund future sewer system improvements that are needed to increase system capacity to meet the future growth demands of Brentwood's customers. Projects are to be identified as a result of the sewer system master plan being completed in CY 2015. Improvements are to include system sub basin projects and system wide conveyance projects.

STATUS There are no planned projects to be completed in FY 2015. Beginning in FY 2016, funds are programmed into the CIP in anticipation of initiating projects recommended from the master plan. A water and sewer financial model/rate study is being conducted in CY 2015. This study will determine the appropriate allocation of both previously paid and future tap fees in support of system capacity improvements. Under the current financial procedures, all developer paid tap fees have been considered current revenues and are reflected in the retained earnings within the Water and Sewer Fund.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	-	150	150	150	150	150	150	900
Construction	-	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Property/Easement Acquisition	-	50	50	50	50	50	50	300
TOTAL EXPENDITURES	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
SOURCE OF FUNDS								
Water & Sewer Fund	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200

JUSTIFICATION

TDEC design policy and guidelines suggest systems should focus on sustainable infrastructure, first through system rehabilitation rather than simply upsizing system infrastructure. Accordingly, now that the City has completed the first significant phases of the sewer rehabilitation program and established hydraulic patterns specific to I/I contribution and incorporated this data into a system hydraulic model, the next phase for the sewer system master planning process is to evaluate and update the future short and long-term capacity requirements to meet future growth projections. The City's engineering consultants will be preparing this comprehensive system master plan in CY2015 and make recommendations for future system upgrades.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	
Debt Service	0
(Improvements & new technology should reduce operating costs)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>-</u></u>

OFFSETTING REVENUE:

PROJECT	Water System Annual Pipe Replacement Program	Account #	412-16700-8053
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This proactive program initiated in FY 2013 provides for planned, incremental replacement of water lines throughout the distribution system in order to address aging infrastructure and improve the level of system operation. Projects will be prioritized based on several factors such as line age, historical performance.

STATUS Work completed in FY 2015 included replacement of approximately 3,600 feet of 6 inch plastic pipe with new ductile iron pipe in Stonehenge subdivision; specifically along Dorchester Circle, Ashby Dr. and Stoneleigh Circle. FY 2016 funding includes \$685,000 to continue the next phase of replacing older plastic pipe in the Stonehenge subdivision which will include Prince Phillip Cove and Albert Drive and begin the final phase in Stonehenge subdivision including Yorkshire Drive, Regent Drive, and Victoria Cove. Funding is provided in future years for projects as identified in the asset management program.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	35	70	35	35	35	35	35	245
Construction	150	685	250	250	250	250	250	1,935
Property/Easement Acquisition	10	10	10	10	10	10	10	60
TOTAL EXPENDITURES	195	765	295	295	295	295	295	2,240
SOURCE OF FUNDS								
Water & Sewer Fund	195	765	295	295	295	295	295	2,240
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	195	765	295	295	295	295	295	2,240

JUSTIFICATION

Proactively managing the City's water system assets helps to ensure the City gets the most value from the asset by reducing long-term capital and operational costs and extending the useful life of the water system assets. This program seeks to replace or rehabilitate aging water lines as a result of various risk factors that include age, demand/usage, materials and the installation environment.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	(10)
Debt Service	0
(reduced costs related to maintenance and repair of old lines)	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>(10)</u>
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OFFSETTING REVENUE:

PROJECT	Water System Capacity Improvements	Account #	412-16700-8036
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

DESCRIPTION This project addresses future water system improvements that are needed to increase system capacity to meet the projected demand of customers at full build out of the service area. Projects identified in the water capacity master plan include internal distribution system improvements that will facilitate more water through the system as well as pump station and line upsizing projects that will allow for increased water supply directly from our wholesale water suppliers.

STATUS FY 2015 projects included upgrades to pump stations along with upsizing water lines along Johnson Chapel Rd., Belle Rive Drive, and Granny White Pike. FY 2016 and 2017 projects include a connection to the Mallory Valley Utility District at Smith Park, subject to City Commission approval of a wholesale water supply agreement to purchase between 1 and 3 million gallons per day. Additional projects are planned in future years in accordance with the master plan and future hydraulic and financial analysis. These projects will require issuance of \$6.2 million in Water/Sewer Revenue Bonds over the next six years. A water and sewer financial model/rate study is being conducted in CY 2015. This study will determine the appropriate allocation of both previously paid and future tap fees in support of system capacity improvements.

PROJECT BUDGET (000'S)	Projected FY 2015	Proposed FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	200	115	140	80	150	150	150	785
Construction	4,145	760	900	500	1,000	1,000	1,000	5,160
Property/Easement Acquisition			60	50	50	50	50	260
TOTAL EXPENDITURES	4,345	875	1,100	630	1,200	1,200	1,200	6,205
SOURCE OF FUNDS								
Water & Sewer Fund								
Private Sources								
Water & Sewer Bond/Note Proceeds	4,345	875	1,100	630	1,200	1,200	1,200	6,205
TOTAL FUNDS	4,345	875	1,100	630	1,200	1,200	1,200	6,205

JUSTIFICATION

The Brentwood water system experiences significant water demand from outdoor watering & irrigation during the summer months. The system was strained during severe droughts in 2007 and again in 2012. Water demand for the average home reached nearly 4.5 times higher than the normal winter water demand of 5,800 gallons. While the department was able to meet the unusually high water requirements of our existing customers, additional water capacity will be needed to continue to meet the peak summer demands associated with growth. The proposed new water supply connection to Mallory Valley Utility District in the southeast area of the City will reduce the City's long-term capital and operational costs and improve system hydraulics and water quality.

PROGRAM AND FACILITY COSTS:

Personnel Services	0
Operating Expenditures	405
Debt Service (CY 2015, 2017, and 2019 Bond Issues)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>405</u>

OFFSETTING REVENUE:

(Increase water sales during summer)

GLOSSARY

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Appropriation	An authorization made by the City Commission which permits the city staff to incur obligations against and to make expenditures of governmental funds and resources. Appropriations are usually for a fixed dollar amount for a particular budget year.
Budget	The official enactment by the City Commission establishing the legal authority for the City staff to make expenditures.
Capital Improvements	A permanent addition to the City's assets. Capital Improvements include certain upgrades of equipment, facilities, and infrastructure generally in excess of \$10,000 in cost. Not included is the replacement of vehicles, except for specialized, higher priced equipment such as a fire engine or large fleets such as the police cars.
Capital Improvements Budget	The appropriation of operating funds and bond funds for capital improvements during the first year of a six-year program.
Capital Improvements Program	A plan, updated yearly, which provides for long-term physical improvements during the six-year plan period.
Capital Projects Fund	The fund that consolidates expenditures for most General Fund type capital improvements. Revenue sources are generally from general obligation bonds issued or transfers from other funds except the Water & Sewer Fund.
CMOM	Capacity, Management, Operations and Maintenance program mandated by EPA and TDEC for sanitary sewer systems.
Corridor Plan	A concept master plan for the layout of a roadway section that will be generally followed in future design and engineering.
Debt Service Fund	The Debt Service Fund is used for the accumulation of resources for, and the payment of, principal and interest on general long-term debt. Revenue sources include the General Fund and State Street Aid Fund.

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Emergency Communications District	Quasi-governmental entity that oversees operation of the City's emergency dispatch center. District board is comprised of the City's Board of Commissioners. The revenue source for this district is a per-line fee assessed on telephone service within the City as well as transfers from the General Fund.
Facilities Maintenance Division	The division set aside for the accumulation of contributions from the General Fund and the disbursement of those contributions for major maintenance of City facilities and buildings.
Federal Highway Administration (FHWA)	The federal agency responsible for approving modification to the interstate highway system including interchanges.
General Fund	The principal fund of the City, the General Fund is used to account for all activities not included in other specified funds. General Fund revenue sources include property and business taxes, licenses and permits, intergovernmental revenues, service charges, fines and forfeitures, plus other types of revenue. This fund includes most of the basic operating services, such as fire and police protection, library, refuse contract, parks and recreation, public works and general government administration.
General Obligation Bonds	Bonds that are issued by the City for transportation and park improvements with repayment of principal and interest subject to full faith and credit of the city (i.e., the first obligation in the annual budget).
Gravity Sewer System	A traditional system of sewer collection which relies on the force of gravity to carry sewage from the area to the treatment facility. Pumps are occasionally required to augment the gravity flow from one drainage area to another.
Grinder Pump Sewer System	A pressured method for providing sewer to a residence or business. The pumps grind the sewage as it leaves each location then pumps it to a nearby trunk line.
Metropolitan Nashville-Davidson County	The political-geographical area comprising Davidson County, Tennessee. The form of government is the metropolitan form of government which is a central, combined

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

city-county government for the area. Reference here is to the government.

Metropolitan Planning Organization (MPO)

The regional transportation planning organization responsible for prioritizing and allocating federal funds to various roads projects under the 1991 Surface Transportation Act.

Operating Budget

The expenditure plan for continuing routing service programs and activities. In most instances, operating expenditures are made in a single fiscal year. These expenditures include personal services, contractual services, commodities, minor capital outlay and annual debt service requirements.

Private Sources

Sources of funds, or other assets, received from individuals, businesses or foundations for use by the government for specific or general projects.

Program and Facility Costs

The anticipated ongoing annual expenditures associated with a new program or facility to be operated by the City.

Public Works Project Fee Fund (PWPF)

The fund set aside for the accumulation of transportation impact fees and the disbursement of those fees for improvements to the City's roadways.

Right of Way (R.O.W.)

An area set aside and controlled by a political subdivision for use by the public, generally for transportation facilities such as streets and highways.

State of Tennessee

A geographical-political subdivision of the United States of which the City of Brentwood and Williamson County are a part. Reference here is to the government of the state.

State Street Aid Fund

This is a separate fund required by the state of Tennessee for funds received from the state based on allocation of the city's portion of the gasoline and motor fuel tax. The distribution to cities is based upon population. The expenditures from this fund are used for maintaining the streets of the city which are not designated federal or state highways or for debt service associated with capital projects.

**City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms**

Tennessee Department of Environment and Conservation (TDEC)	The department of the state government responsible for regulating discharges into streams and for distributing grants for park projects.
Tennessee Department of Transportation (TDOT)	The department of the state government responsible for planning, building and maintaining the state and federal highways within the state. TDOT is responsible for administering federal transportation grants.
Warrant Study	A study required justifying the need for a traffic signal installation or modification.
Water/Sewer Fund	This is an enterprise fund. The Water/Sewer Fund records the receipts and expenditures of the Water/Sewer Department for the purpose of providing a sufficient and safe supply of water to residents and businesses of the city as well as an environmentally acceptable means of collecting and transporting sewage for treatment by Metro Nashville Water and Sewer Department.
Water/Sewer Revenue Bonds	The bonds generally used for major capital improvements to the water and sewer systems such as extending sewer service or upgrading the City's water storage capacity. The bond principal and interest are repaid from water/sewer revenues.
Williamson County	The geographical-political subdivision of the State of Tennessee of which Brentwood is located. Williamson County is located in the Middle district of Tennessee, immediately south of Davidson County. Reference here is to the government of the county.