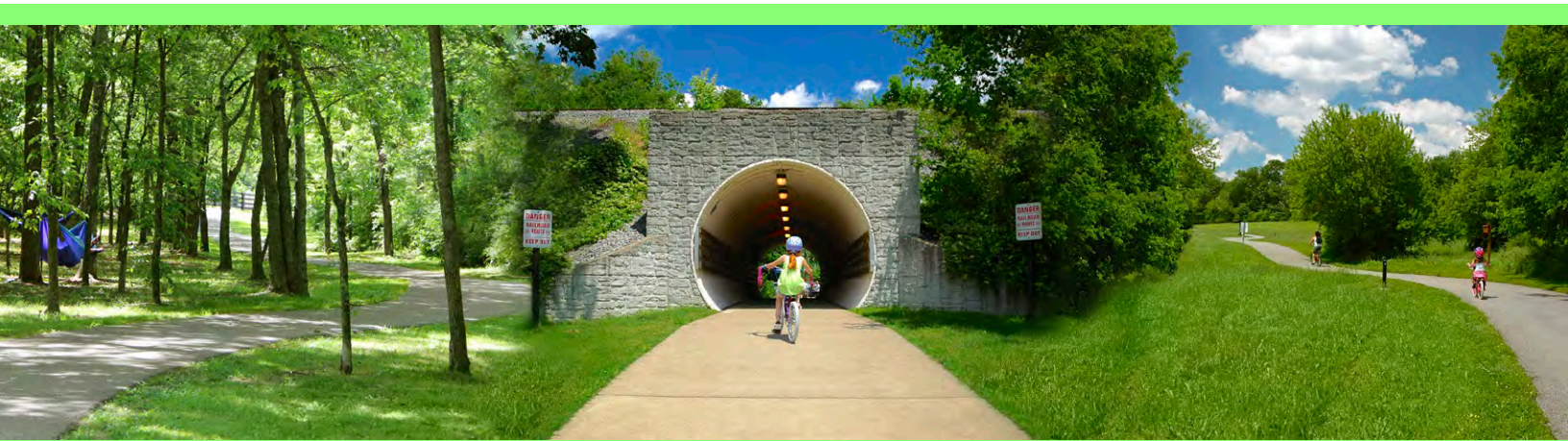




City of
Brentwood
Tennessee



CAPITAL IMPROVEMENTS
PROGRAM
FY 2017-2022

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2017-2022

Brentwood Board of Commissioners

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Kirk E. Bednar
City Manager

Jay M. Evans
Assistant City Manager

Karen Harper
Interim Finance Director

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INTRODUCTION

REGINA SMITHSON
MAYOR

JILL BURGIN
VICE-MAYOR

KIRK BEDNAR
CITY MANAGER



COMMISSIONERS
BETSY CROSSLEY
ANNE DUNN
MARK W. GORMAN
RHEA E. LITTLE, III
KEN TRAVIS

City of Brentwood

March 28, 2016

CITY MANAGER MEMORANDUM

2016-02

TO: Honorable Mayor and Members of the City Commission

FROM: Kirk Bednar, City Manager

SUBJECT: **Proposed Fiscal Years 2017-2022 Capital Improvements Program**

Attached you will find the proposed six-year capital improvements program (CIP) for the City of Brentwood for fiscal years 2017-2022.

The proposed CIP will be reviewed with the Board of Commissioners at a work session scheduled for Tuesday, April 5, 2016, 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 Monday, May 23, 2016, Tuesday, June 14, 2016, and Monday, June 27, 2016. A resolution to adopt the six-year CIP will be presented to the City Commission for consideration and adoption at the June 27, 2016 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. While the program presented here a six year program, the plan is a living document with only the first year fully committed as part of the FY 2017-18 budget. The plan is updated every year, and projects in years two through five may be added, deleted, or changed in terms of scheduling in future updates of the plan.

Summary Overview

The proposed FY 2017-2022 Capital Improvements Program is an ambitious plan that calls for the investment of **\$115,985,000** 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 **\$33.1 million** of the **\$115.98 million** program is dependent upon receipt of inter-governmental revenues (state and federal), targeted mostly to the improvement of state highways in Brentwood, and Franklin Road in particular, over the next six years.

The net local investment of **\$82.9 million** over six-years will require a significant funding commitment, including direct support of over **\$68.4 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 and accumulated retained earnings for various water and sewer system improvements.

The proposed CIP program cannot be implemented without the issuance of new General Obligation Bonds totaling **\$9.8 million** over the six-year period, and an estimated **\$4.7 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 is nearing completion and appropriate modifications to the water and sewer

rate structure to support the proposed six-year capital plan and departmental operations are planned as part of the FY 2017 operating budget.

Total project costs in the major program areas over the next six years (FY 2017-2022) are summarized below:

Transportation	\$62,160,000	53.6%
Utilities	30,665,000	26.4%
Facilities & Equipment	8,930,000	7.7%
Technology	7,930,000	6.8%
Parks & Recreation	5,950,000	5.1%
Storm Drainage	350,000	0.3%
TOTAL	\$115,985,000	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 involve improvements to state highways and are dependent on TDOT participation and/or federal funding to complete. The largest of these over the next six years is the widening of Franklin Road South to five lanes from Concord Road to south of Moore's Lane, with an updated cost estimate totaling \$27.7 million with \$24 million of this cost being direct state funding for construction and a portion of right-of-way acquisition costs. Two significant projects on state routes that will be completed early in FY 2017 are Concord Road East (phase 2) from Sunset Road to the eastern city limits (\$1 million), and widening of Concord Road from Jones Parkway to Arrowhead Drive (\$400,000).

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. Staff is hopeful that State construction funding will be provided in FY 2017 for the Franklin Road South project. 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 (\$7.8 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, funding is carried forward for completion

of a couple smaller scale intersection improvement projects originally funded in FY 2016. These include turn lane improvements at Carothers Parkway and Moores Lane and 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 during the upcoming year.

The City will maintain a significant commitment to street resurfacing over the six year period in the total amount of \$13.9 million. The FY 2017 proposed resurfacing funding level of \$2.84 million reflects an increase of \$100,000 in base funding over FY 2016 to a total of \$2.2 million. Also included in the FY 2017 resurfacing budget is \$640,000 in funding for resurfacing of Maryland Way approved in FY 2016 that will be carried over to FY 2017 to coordinate this work with the other related work on Maryland Way privately funded as part of the Hill Center project. Projected funding levels over the six year plan reflect continuation of the \$2,200,000 annual funding amount, which represents slightly more than \$900,000 in additional base resurfacing funds compared to the FY 2016-2021 CIP due in part to the increased funding resulting from the 2015 special census. 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.

The proposed six year Utilities program begins to shift the emphasis from rehabilitation of the original sewer system to long-term capacity planning for both the water and sewer systems. 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. This unbalanced seasonal demand has resulted in the City's primary water supplier, Harpeth Valley Utility District, adjusting the City's minimum bill obligations to a point where the new monthly minimum bill volume will be greater than the actual volume of water needed during most months of the year. As a result, water system capacity planning is now focused on designing and operating the system in a manner that maximizes our water received from Harpeth Valley to minimize the amount of water paid for but not used under the new minimum bill. The six year plan provides for an \$11.2 million investment to expand the capability of the system to obtain more water from Harpeth Valley and distribute it to our customers throughout the service area. 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.

The six year plan will continue to emphasize rehabilitation of the original sewer system on a reduced scale compared to previous years while also addressing system-wide sewer capacity planning. Approximately \$6.7 million in sewer rehabilitation projects are projected over the next six years. For the past seven years, the City has undertaken over \$23 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 completing 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 identified in the sewer system master planning process. Note that funding for these capacity related improvements is projected to come from sewer tap fees collected from new development projects over the past several years and in the future.

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, the developer funded construction of the 24 acre Margaret Hayes Powell Park, and construction of Wikle and Flagpole parks expected to be complete in summer of 2016. The focus for the **Parks and Recreation** program over the next six years will balance continued development of park areas, including future phases of Smith Park as outlined in the approved masterplan (\$5.2 million), and proactive major maintenance projects within existing park facilities.

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 \$4.9 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. Funding is programmed in the Municipal Center enterprise fund for continued upkeep and improvement of the 30 year old city hall facility, including a renovation of public safety locker rooms to improve gender parity given the increased number of female public safety personnel. Annual funding from the Facilities Maintenance Fund is also programmed throughout the six year period to assure proper upkeep of various city facilities. Major projects programmed within this fund over the six year plan include repaving of the Service Center maintenance yard in FY 2018 and replacement of the Library roof in FY 2019. 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 \$2.6 million is allocated for computer equipment, hardware and software upgrades and replacements over six years. Significant funding of \$4.1 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. Also related to public safety operations, funding in the amount of \$750,000 is programmed in FY 2017 for replacement of the City's computer aided dispatch system. Finally, funding in the amount of \$375,000 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, almost \$68.4 million (59%) 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 \$33.1 million or 29%. The remaining funds (\$14.5 million or 12%) will come from through the issuance of General Obligation and Water/Sewer Revenue Tax Bonds.

FY 2017 funding for several projects is dependent upon two proposed FY 2016 year-end transfers totaling \$10,195,000 million from the General Fund to the Capital Projects Fund and \$60,000 from the General Fund to the Equipment Replacement Fund. This includes \$2,455,000 million in projected excess revenues in the FY 2016 operating budget and \$7.8 million from the General Fund unrestricted fund balance. The \$7.8 million transfer from the General Fund unrestricted fund balance includes \$4.9 million in lieu of originally planned G.O. bonds for the Sunset Road/Ragsdale Road intersection project (\$3.4 million) and construction of Flagpole and Wikle Parks (\$1.5 million). The remaining \$2.9 million from the unrestricted fund balance was previously planned in support of the Phase 2 construction at Smith Park (\$1.5 million) and additional funding for the Sunset Road/Ragsdale Road intersection project (\$1.4 million).

The implementation of a six-year, comprehensive program with long-term benefits will require the issuance of **\$9.8 million** in new 20-year General Obligation Bonds and an estimated **\$4.7 million** in new Water/Sewer Revenue Tax Bonds.

The following memo from Karen Harper, Acting 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 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 2018 (issued by late calendar year 2017):

- 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):

- 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).

Fiscal year 2021 (issued by late calendar year 2020)

- Water/Sewer bonds backed by the City's full faith and credit **(\$4,700,000)** will be needed for water capacity related projects.

(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 2017 to FY 2022 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 2016 is \$3,437,937 with a projected fund balance for the Debt Service Fund as of June 30, 2016 of \$3,563,125. The proposed FY 2017 General Fund transfer to the Debt Service Fund will drop by \$400,000 to \$2,950,000 because the planned FY 2016 bond issue was eliminated as discussed above.

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 2016 is approximately 9.6%. This amount of annual debt service is considered by the rating agencies to be a manageable level for a growing community. Assuming a conservative 3% budget growth from FY 2017 through FY 2022 with the Debt Service Fund transfer remaining flat at \$2,950,000, this percentage will decrease to 7.1% in FY 2022.

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 Karen Harper, Acting Finance Director, for their assistance in the research and preparation of this document, and their continued efforts in streamlining the preparation 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

REGINA SMITHSON
MAYOR
JILL BURGIN
VICE-MAYOR
KIRK BEDNAR
CITY MANAGER



COMMISSIONERS
BETSY CROSSLEY
ANNE DUNN
MARK W. GORMAN
RHEA E. LITTLE, III
KEN TRAVIS

City of Brentwood

March 28, 2016

FINANCE DEPARTMENT MEMORANDUM

2016-06

TO: Honorable Mayor and Members of the City Commission
THROUGH: Kirk Bednar, City Manager *KB*
FROM: Karen Harper, Acting Finance Director *KH*
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 52 projects and improvements at a total cost of \$115,985,000. As addressed in the previous memo from the City Manager, \$83 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 2016 transfers to the Capital Projects Fund: a \$2.5 million transfer of excess revenues from the General Fund; and a \$7.8 million unrestricted fund balance transfer from the General Fund before June 30, 2016.

Completion of a program of this magnitude over the six-year period will require the City to issue two 20-year General Obligation bonds and one 20-year Water/Sewer Revenue bonds totaling \$14.5 million. The anticipated timing for the issuance of the proposed bonds is as follows:



Fiscal Year	General Obligation Bonds	Water/Sewer Revenue Bonds	Total
2017			
2018	\$4,900,000		4,900,000
2019			
2020	\$4,900,000		4,900,000
2020			
2021		\$4,700,000	4,700,000
2022			
TOTAL	\$9,800,000	\$4,700,000	\$14,500,000

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 \$14.5 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 \$4.7 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.

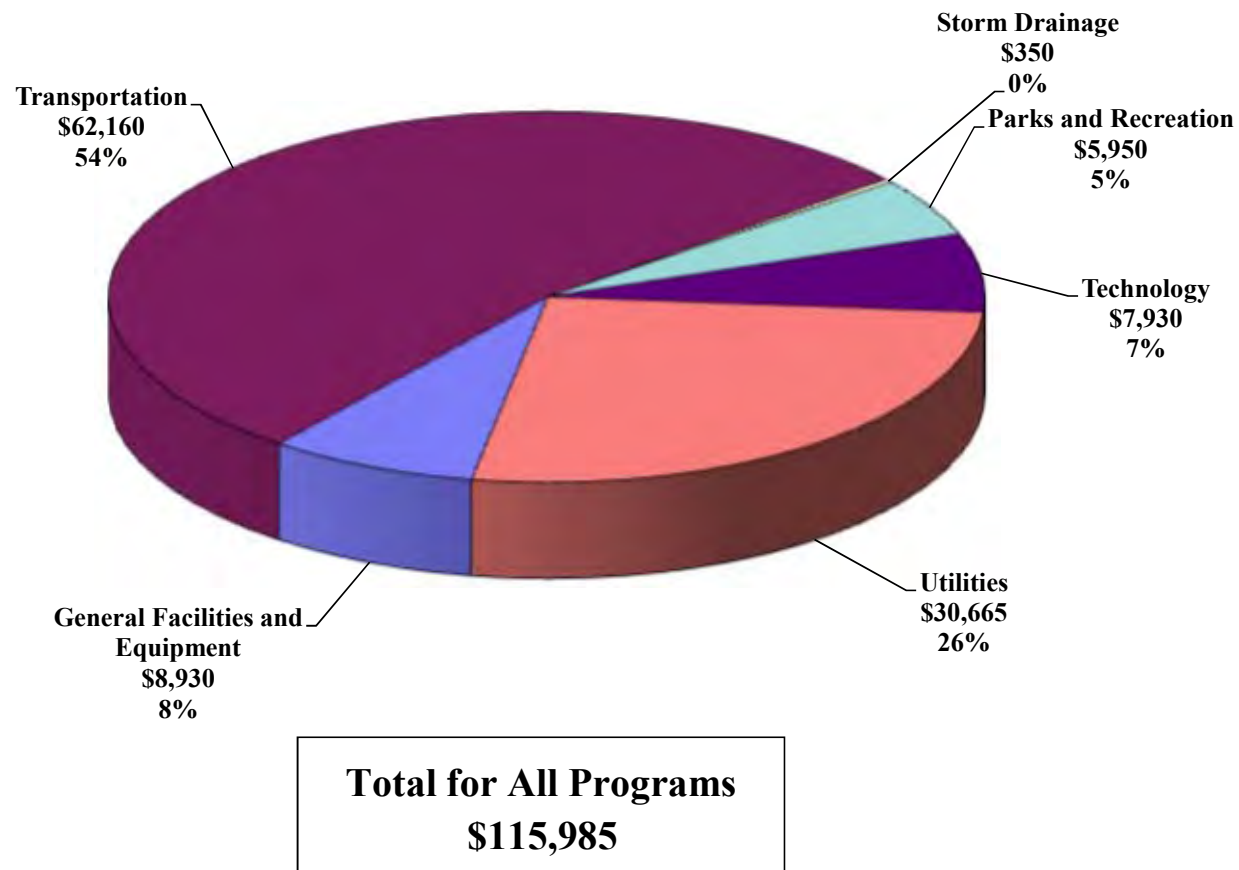
<u>Fiscal Year</u>	<u>Direct Project Funding</u>	<u>Transfer to Debt Service Fund</u>	<u>Total General Fund Related Support</u>
2017	\$ 15,755,000	\$ 2,950,000	\$ 18,705,000
2018	15,115,000	2,950,000	18,065,000
2019	5,210,000	2,950,000	8,160,000
2020	5,375,000	2,950,000	8,325,000
2021	5,270,000	2,950,000	8,220,000
2022	3,125,000	2,950,000	6,075,000
Total	<u>\$ 49,850,000</u>	<u>\$ 17,700,000</u>	<u>\$ 67,550,000</u>

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.

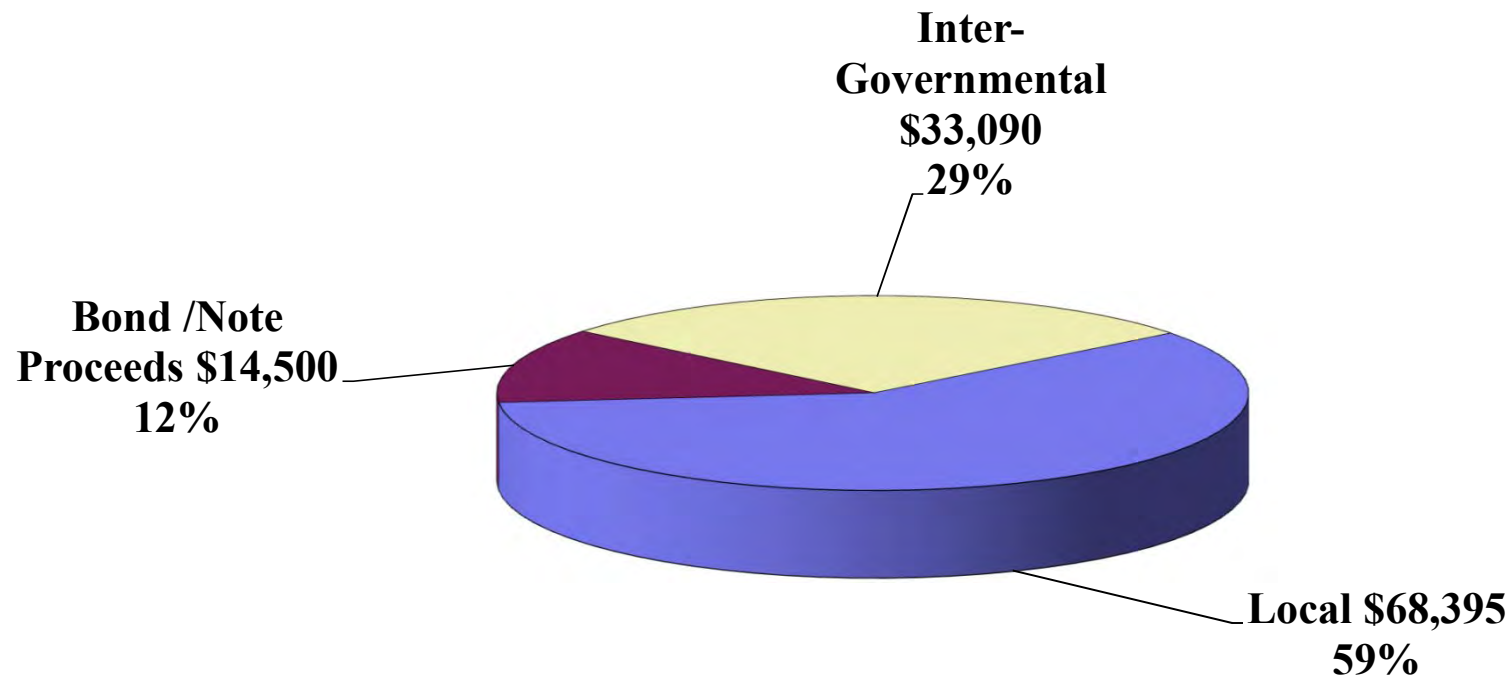
The Staff continues to appreciate the Commission’s valuable input and guidance in support of the development and implementation of the Capital Improvements Program.

SUMMARIES

**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2017-2022
Program Expenditures
(000's)**



**City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017-2022
Funding by Source
(000's)**



**Total For All Programs
\$115,985**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Program Expenditures - Summary
(000's)

<u>Program</u>	Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
General Facilities and Equipment	785	1,130	2,955	1,945	980	805	1,115	8,930
Technology	1,095	5,175	990	495	250	635	385	7,930
Transportation	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160
Storm Drainage	130	100	50	50	50	50	50	350
Parks and Recreation	2,455	2,940	310	460	2,120	60	60	5,950
Utilities	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
Grand Total	20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Sources of Funds - Summary
(000's)

<u>Source</u>	Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
Capital Projects Fund	5,510	11,690	6,395	1,255	300	300	300	20,240
Emergency Communications District Fund	55	-	-	-	-	-	-	-
Equipment Replacement Division	955	1,265	1,165	1,795	890	1,070	1,160	7,345
Facilities Maintenance Division	320	310	485	485	235	235	235	1,985
General Fund	810	810	1,700	1,505	1,320	1,055	1,260	7,650
General Fund (Unreserved Balance)	-	1,500	-	-	-	-	-	1,500
General Obligation Bond Proceeds	-	-	4,900	-	2,460	2,440	-	9,800
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	10	80	30	5	75	5	5	200
Public Works Project Fee Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	2,157	4,660	6,070	5,860	4,970	2,355	2,330	26,245
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Summary - All Projects
(000's)

		Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
General Facilities	Community Identity Features	-	-	15	15	15	15	15	75
	Community Planning	40	50	40	-	-	-	-	90
	Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
	Library	70	50	50	300	50	50	50	550
	Municipal Center	170	180	470	170	170	170	170	1,330
	Safety Center East	25	25	25	25	25	25	25	150
	Service Center	45	50	250	50	50	50	50	500
	Town Center Improvements	-	-	1,300	-	-	-	-	1,300
	Total - General Facilities	785	1,130	2,955	1,945	980	805	1,115	8,930
Technology	Computer Equipment	485	490	360	385	205	560	340	2,340
	Emergency Communications Center	55	750	-	-	-	-	-	750
	Fiber Optic Network	210	140	150	85	-	-	-	375
	GIS	-	-	150	-	-	60	-	210
	Radio System	285	3,600	300	-	-	-	-	3,900
	Software Systems	60	195	-	25	15	15	15	265
	Warning Sirens	-	-	30	-	30	-	30	90
	Total - Technology	1,095	5,175	990	495	250	635	385	7,930
Transportation	Bikeway Improvements	-	150	160	175	175	175	175	1,010
	Carothers Parkway	330	105	-	-	-	-	-	105
	Concord Road (west of Arrowhead Drive)	3,435	400	-	-	-	-	-	400
	Concord Road (east of Edmondson Pike)	5,000	1,000	-	-	-	-	-	1,000
	Crockett Road	30	445	85	-	-	-	-	530
	Franklin Road (south section)	500	6,850	13,080	7,825	-	-	-	27,755
	Future Transportation Projects	-	-	4,900	-	-	-	-	4,900
	Granny White Pike	260	-	-	-	-	-	-	-
	Johnson Chapel Road	50	-	-	-	-	-	-	-
	Moore's Lane	60	-	-	-	-	-	-	-
	Sidewalks	105	90	50	50	50	50	50	340
	Street Lighting	-	-	20	20	20	20	20	100
	Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
	Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
	Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
	Total - Transportation	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Summary - All Projects
(000's)

		Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
Storm Drainage	Calloway Drive	80	-	-	-	-	-	-	-
	Derby Glen	-	50	-	-	-	-	-	50
	Subdivision Drainage	50	50	50	50	50	50	50	300
	Total - Storm Drainage	130	100	50	50	50	50	50	350
Parks/Recreation	Concord Park	-	20	-	-	-	-	-	20
	Crockett Park	165	85	30	30	30	30	30	235
	Deerwood Arboretum	-	15	-	-	-	-	-	15
	Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
	Granny White Park	30	50	30	30	30	30	30	200
	Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
	Maryland Way Park	-	-	-	150	-	-	-	150
	Owl Creek Park	-	60	25	-	-	-	-	85
	River Park	40	-	25	-	-	-	-	25
	Tower Park	15	-	-	-	-	-	-	-
	Total - Parks/Recreation	2,455	2,940	310	460	2,120	60	60	5,950
Utilities	Meter Reading Program Upgrade	225	1,000	710	-	-	-	-	1,710
	Miscellaneous Sewer Service Additions	-	45	45	105	405	45	45	690
	Miscellaneous Sewer System Improvements	-	135	325	160	110	110	110	950
	Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
	Sewer System Model	15	-	-	-	-	-	-	-
	Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
	Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
	Water Line Replacement Program	827	45	295	295	295	295	295	1,520
	Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
	Total - Utilities	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
TOTALS		20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017-2022
General Facilities and Equipment Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	40	50	40	-	-	-	-	90
Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
Library	70	50	50	300	50	50	50	550
Municipal Center	170	180	470	170	170	170	170	1,330
Safety Center East	25	25	25	25	25	25	25	150
Service Center	45	50	250	50	50	50	50	500
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

Source of Funds

Capital Projects Fund	85	50	1,300	-	-	-	-	1,350
General Fund	-	-	55	15	15	15	15	115
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division	95	125	325	375	125	125	125	1,200
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Technology Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Computer Equipment	485	490	360	385	205	560	340	2,340
Emergency Communications Center	55	750	-	-	-	-	-	750
Fiber Optic Network	210	140	150	85	-	-	-	375
GIS	-	-	150	-	-	60	-	210
Radio System	285	3,600	300	-	-	-	-	3,900
Software Systems	60	195	-	25	15	15	15	265
Warning Sirens	-	-	30	-	30	-	30	90
Grand Total	1,095	5,175	990	495	250	635	385	7,930

Source of Funds

Capital Projects Fund	520	4,685	300	-	-	-	-	4,985
General Fund	-	-	270	85	30	35	30	450
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	520	490	360	410	220	575	355	2,410
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	60	-	-	25	-	85
ECD Fund	55	-	-	-	-	-	-	-
Grand Total	1,095	5,175	990	495	250	635	385	7,930

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Transportation - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Bikeway Improvements	-	150	160	175	175	175	175	1,010
Carothers Parkway	330	105	-	-	-	-	-	105
Concord Road (west of Arrowhead Drive)	3,435	400	-	-	-	-	-	400
Concord Road (east of Edmondson Pike)	5,000	1,000	-	-	-	-	-	1,000
Crockett Road	30	445	85	-	-	-	-	530
Franklin Road (south section)	500	6,850	13,080	7,825	-	-	-	27,755
Future Transportation Projects	-	-	4,900	-	-	-	-	4,900
Granny White Pike	260	-	-	-	-	-	-	-
Johnson Chapel Road	50	-	-	-	-	-	-	-
Moore Lane	60	-	-	-	-	-	-	-
Sidewalks	105	90	50	50	50	50	50	340
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

Source of Funds

Capital Projects Fund	2,605	5,725	4,795	1,255	300	300	300	12,675
General Fund	760	760	1,125	955	1,165	955	1,165	6,125
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	4,900	-	460	2,440	-	7,800
Facilities Maintenance Division	-	-	50	50	50	50	50	250
Private Sources	-	-	25	-	-	-	-	25
Public Works Project Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	-	10	160	125	-	-	-	295
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Storm Drainage Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Calloway Drive	80	-	-	-	-	-	-	-
Derby Glen	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	130	100	50	50	50	50	50	350

Source of Funds

Capital Projects Fund	80	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	130	100	50	50	50	50	50	350

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Parks and Recreation Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Concord Park	-	20	-	-	-	-	-	20
Crockett Park	165	85	30	30	30	30	30	235
Deerwood Arboretum	-	15	-	-	-	-	-	15
Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
Granny White Park	30	50	30	30	30	30	30	200
Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
Maryland Way Park	-	-	-	150	-	-	-	150
Owl Creek Park	-	60	25	-	-	-	-	85
River Park	40	-	25	-	-	-	-	25
Tower Park	15	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

<u>Source of Funds</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Capital Projects Fund	2,220	1,180	-	-	-	-	-	1,180
General Fund	-	-	200	400	60	-	-	660
General Fund (Unreserved Balance)	-	1,500	-	-	-	-	-	1,500
G O Bond Proceeds	-	-	-	-	2,000	-	-	2,000
Facilities Maintenance Division	225	185	110	60	60	60	60	535
Private Sources	10	75	-	-	-	-	-	75
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017-2022
Water and Sewer Program - Summary
(000's)

<u>Projects</u>	<u>Projected FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-2022</u>
Meter Reading Program Upgrade	225	1,000	710	-	-	-	-	1,710
Miscellaneous Sewer Service Additions	-	45	45	105	405	45	45	690
Miscellaneous Sewer System Improvements	-	135	325	160	110	110	110	950
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	15	-	-	-	-	-	-	-
Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	827	45	295	295	295	295	295	1,520
Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

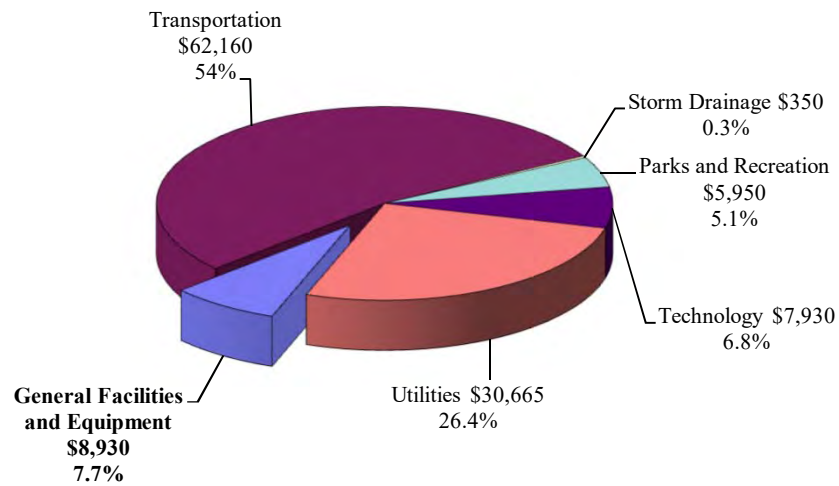
Source of Funds

Water & Sewer Fund	2,157	4,650	5,850	5,735	4,970	2,330	2,330	25,865
Private Sources	-	5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

GENERAL FACILITIES and EQUIPMENT

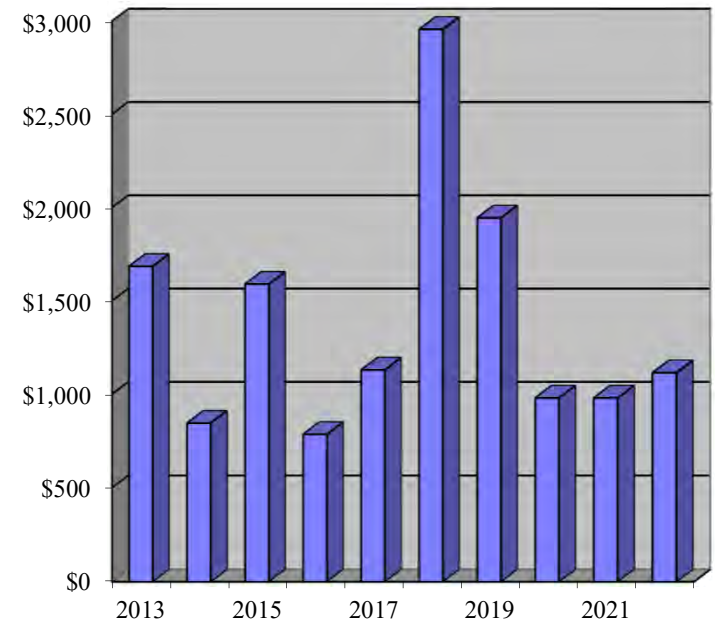
GENERAL FACILITIES AND EQUIPMENT

FISCAL YEARS 2017-2022



Amounts in 000's

General Facilities Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017-2022
General Facilities and Equipment Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	40	50	40	-	-	-	-	90
Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
Library	70	50	50	300	50	50	50	550
Municipal Center	170	180	470	170	170	170	170	1,330
Safety Center East	25	25	25	25	25	25	25	150
Service Center	45	50	250	50	50	50	50	500
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

Source of Funds

Capital Projects Fund	85	50	1,300	-	-	-	-	1,350
General Fund	-	-	55	15	15	15	15	115
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division	95	125	325	375	125	125	125	1,200
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

PROJECT	Community Identity Features	Account #	311-45200-5026
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Community Relations
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 2017. Funding has been allocated in future years for beautification projects as identified.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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 2016 funding is projected to complete work on the Brentwood 2020 Plan update. FY 2017 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 \$40,000 is programmed in FY 2018 for another special census should current growth trends continue.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Consultant Services	40	50						50
Special Census			40					40
TOTAL EXPENDITURES	40	50	40	-	-	-	-	90
SOURCE OF FUNDS								
Capital Projects Fund	40	50						50
General Fund			40					40
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	50	40	-	-	-	-	90

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)

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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, and equipment in departments other than Police less than \$40,000 are purchased directly in the operating budget of each department.			
STATUS	Funding in FY 2016 included replacement of three (3) police vehicles with associated equipment, a replacement chipper truck, an additional chipper truck, a backhoe and a Bobcat excavator. Funding in FY2017 will include replacement of a front-end loader (\$150,000) and a tractor (\$120,000) in Public Works, a bucket truck in Traffic Operations (\$105,000), a Combo Truck (dump bed/gooseneck) in Parks (\$55,000), rehab of Rescue 1 in Fire (\$30,000), and (7) vehicles in Police (255,000). A new excavator (\$60,000) in Public Works will be added subject to a FY 2016 year-end transfer from General Fund excess revenues to the Equipment Replacement Fund.			

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Public Works Vehicles	260	435	470	195	270		295	1,665
Fire Pumper/Ladder		30		885				915
Parks Equipment	55	55						55
Police Vehicles	120	255	335	305	400	495	510	2,300
Misc. Equipment								
TOTAL EXPENDITURES	435	775	805	1,385	670	495	805	4,935
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
TOTAL FUNDS	435	775	805	1,385	670	495	805	4,935

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 2016 included \$25,000 in maintenance for repair and repainting of building soffits and \$45,000 for improvements to the drive-up book-drop to enable automatic RFID check-in of all materials deposited into the drop. This project was originally funded in FY 2015 but work was not completed until July of 2015. Funding of \$50,000 is projected in FY 2017 and each year thereafter from the Facility Maintenance Fund for extraordinary building maintenance needs as may be identified each year. FY 2019 includes additional funding (\$250,000) for projected replacement of the roof on the library building.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Architectural Services								
Construction	45							
Facility Maintenance	25	50	50	300	50	50	50	550
Equipment								
TOTAL EXPENDITURES	70	50	50	300	50	50	50	550
SOURCE OF FUNDS								
Capital Projects Fund	45							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	25	50	50	300	50	50	50	550
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	70	50	50	300	50	50	50	550

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	Funding in FY 2016 was programmed for major maintenance that was required on the elevator for compliance with current codes. FY 2017 and 2018 funding (\$50,000 total) is provided for architectural services for improvements to the locker rooms that will improve male/female parity and functionality of these 30 year-old facilities. Projected funding of \$450,000 is provided in FY 2018 for construction, which will include temporary locker room facilities during construction.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Construction	150	150	450	150	150	150	150	1,200
Architectural Services	20	30	20	20	20	20	20	130
Consultant Services								
TOTAL EXPENDITURES	170	180	470	170	170	170	170	1,330
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	180	470	170	170	170	170	1,330
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	170	180	470	170	170	170	170	1,330

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. Locker rooms, originally designed for a workforce that included few female public safety employees, are now poorly configured for parity with an increasing number of females in the Fire and Police departments.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	15
Debt Service	

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

OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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. FY 2016 funding was used to upgrade all exterior building and parking lot lighting to energy efficient LED lights.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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	FY 2016 funding provided for replacement of fire bay doors for Fire Station #3 and upgrades to bay doors on the maintenance building. For FY's 2017 - 2022 funding provided for extraordinary repairs and maintenance as may be required for this 20+ year old facility. Repaving of the maintenance and storage yard is tentatively planned for FY 2018.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction			250					250
Facility Maintenance	45	50		50	50	50	50	250
TOTAL EXPENDITURES	45	50	250	50	50	50	50	500
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	45	50	250	50	50	50	50	500
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	45	50	250	50	50	50	50	500

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 funding for the purchase of land, design, and/or construction of public improvements such as street improvements, sidewalk additions, etc. within the Town Center District.		
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. No projects are anticipated for FY 2017. FY 2018 funding is programmed to reflect these funds being reserved should an appropriate project be identified.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Land Acquisition								
Construction			1,300					1,300
TOTAL EXPENDITURES	-	-	1,300	-	-	-	-	1,300
SOURCE OF FUNDS								
Capital Projects Fund			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	-	-	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

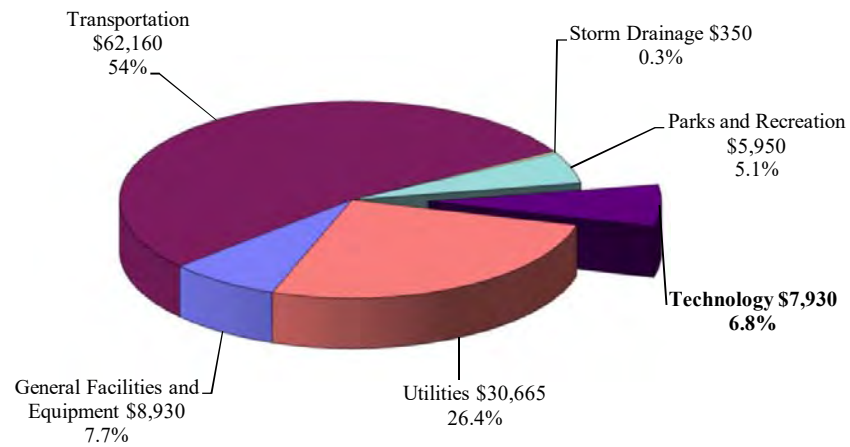
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OFFSETTING REVENUE:

TECHNOLOGY

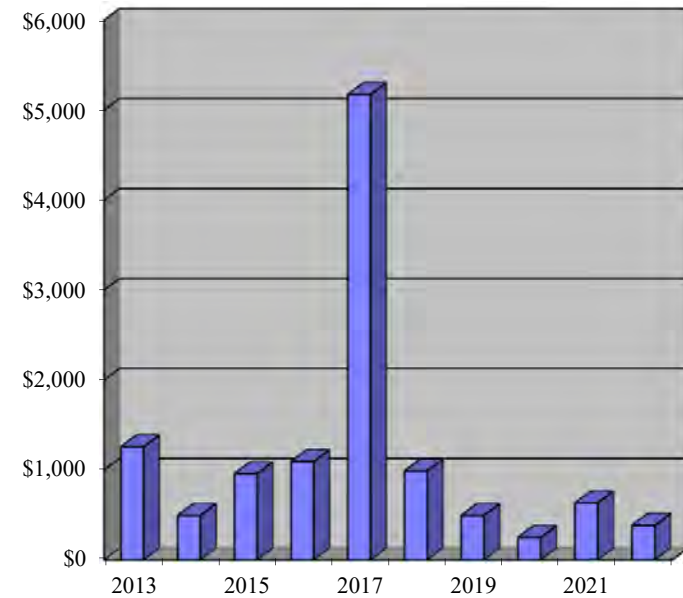
TECHNOLOGY

FISCAL YEARS 2017-2022



Amounts in 000's

Technology Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Technology Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Computer Equipment	485	490	360	385	205	560	340	2,340
Emergency Communications Center	55	750	-	-	-	-	-	750
Fiber Optic Network	210	140	150	85	-	-	-	375
GIS	-	-	150	-	-	60	-	210
Radio System	285	3,600	300	-	-	-	-	3,900
Software Systems	60	195	-	25	15	15	15	265
Warning Sirens	-	-	30	-	30	-	30	90
Grand Total	1,095	5,175	990	495	250	635	385	7,930

Source of Funds

Capital Projects Fund	520	4,685	300	-	-	-	-	4,985
General Fund	-	-	270	85	30	35	30	450
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	520	490	360	410	220	575	355	2,410
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	60	-	-	25	-	85
ECD Fund	55	-	-	-	-	-	-	-
Grand Total	1,095	5,175	990	495	250	635	385	7,930

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 (\$485,000) provided for a variety of replacements, including 35 mobile data terminals and 27 other computers in the Police Department, network storage at the Municipal Center and Library, 62 replacement computers at the Library, and computer infrastructure FY 2017 funding includes network storage for the City's datacenter (\$140,000), replacement of 29 remaining mobile data terminals (\$60,000) and 18 computers (\$45,000) in Police, 27 computers and 10 iPads in the Library (\$50,000), and other computers and devices in city departments. 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 2017 may be delayed to FY 2018 or later if the item's performance is satisfactory.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Computer/Hardware/Equipment	485	490	360	385	205	560	340	2,340
Mobile Data/GPS Equipment								
Disaster Recovery System								
TOTAL EXPENDITURES	485	490	360	385	205	560	340	2,340
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	485	490	360	385	205	560	340	2,340
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	485	490	360	385	205	560	340	2,340

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, CAD software and other equipment needed to maintain a state of the art Public Safety 911 and emergency communications center.

STATUS Improvements funded in FY 2016 included a call logging recorder and mapping hardware. The upgrade of the current CAD system was not completed due to the inability of the City's current vendor to develop the upgrade. CAD is the Computer Aided Dispatch system that enables dispatchers to electronically coordinate public safety resources in response to emergency calls for service. FY 2017 funding includes a change of vendors and installation of a new CAD system, using the same vendor currently used by the City of Franklin. Funding of \$750,000 will be provided to the Capital Projects Fund from the ECD through a 2016 year-end transfer of ECD retained earnings.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Architecture/Engineering								
Electrical/Generator								
Computer Equipment	15							
Communication Equipment	40	750						750
Computer Software								
Construction								
TOTAL EXPENDITURES	55	750	-	-	-	-	-	750
SOURCE OF FUNDS								
Capital Projects Fund		750						750
General Fund								
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	55							
TOTAL FUNDS	55	750	-	-	-	-	-	750

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 (General Fund and ECD)	150
Debt Service	
(Annual GF contribution to technology replacement fund = \$75,000)	
(Annual ECD maintenance contract = \$75,000)	
	150

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 2016 funding provided for completion of the southeastern fiber loop between Safety Center East and Wilson Pike along Sunset/Ragsdale/Split Log roads. FY 2017 funding includes design and utility make ready work for a northern fiber loop along Wilson Pike between Concord Road and Church Street (\$100,000), and construction of a fiber connection on General George Patton Drive to Franklin's fiber network (\$40,000). Construction of the northern loop is programmed for FY 2018 (\$150,000). FY 2019 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 (\$75,000). Funding for design and utility make ready work for the northern fiber loop in FY 2017 is subject to a transfer of \$100,000 from excess General Fund revenues to the Capital Projects Fund.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	60	100		10				110
Construction	150	40	150	75				265
TOTAL EXPENDITURES	210	140	150	85	-	-	-	375
SOURCE OF FUNDS								
Capital Projects Fund	210	140						140
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	210	140	150	85	-	-	-	375

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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	Funding in 2018 will be a complete orthophotography fly-over and system update, complete with lidar/planometrics. Funding is provided in 2021 for an interim update of aerial photography.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
GIS			150			60		210
TOTAL EXPENDITURES	-	-	150	-	-	60	-	210
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			90			35		125
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund			60			25		85
ECD Fund								
TOTAL FUNDS	-	-	150	-	-	60	-	210

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 below is provided for development of a regional interoperable 700 MHz radio network to cover the entire county. When 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 \$4.1 million. Assuming a system contract with Motorola is approved by the joint radio system authority prior to the end of FY 2016 and funding is approved by the Commission, infrastructure and network equipment work would begin in FY 2017. Special year-end transfers of \$1,000,000 of excess General Fund revenues to the Capital Projects Fund in 2013, 2014, and 2015 pre-funded \$3,000,000 of needed funding for this project. Another \$1,100,000 is proposed as part of a FY 2016 year-end transfer of excess General Fund revenues to the Capital Projects Fund.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	85							
Equipment	200	3,600	300					3,900
Construction								
TOTAL EXPENDITURES	285	3,600	300	-	-	-	-	3,900
SOURCE OF FUNDS								
Capital Projects Fund	285	3,600	300					3,900
General Fund								
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	285	3,600	300	-	-	-	-	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	250
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>250</u>
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(New system would require annual maintenance fees, beginning in FY 2018
plus replacement reserves for subscriber units)

OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Software Systems	Account #	311-45300-6002 (GEMS), 6011 (Website), 310-41640-89550 (ERF)
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PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology
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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 Funding in FY 2016 was provided 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. This project is postponed pending upgrade/replacement of the City's CAD system. CAD replacement is being proposed for FY2017, which will allow the Locution project to proceed. FY 2017 also includes completion of the website update (\$15,000). Future funding is provided for miscellaneous software licensing.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Miscellaneous Software	35			25	15	15	15	70
Specialized Department Software	25	195						195
TOTAL EXPENDITURES	60	195	-	25	15	15	15	265
SOURCE OF FUNDS								
Capital Projects Fund	25	195						195
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	35		-	25	15	15	15	70
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	60	195	-	25	15	15	15	265

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	15
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>15</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. No new locations have been identified at this time. Periodic funding is provided in future years for expansion or replacement sirens as may be needed.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Warning Siren			30		30		30	90
TOTAL EXPENDITURES	-	-	30	-	30	-	30	90
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			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	-	-	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	

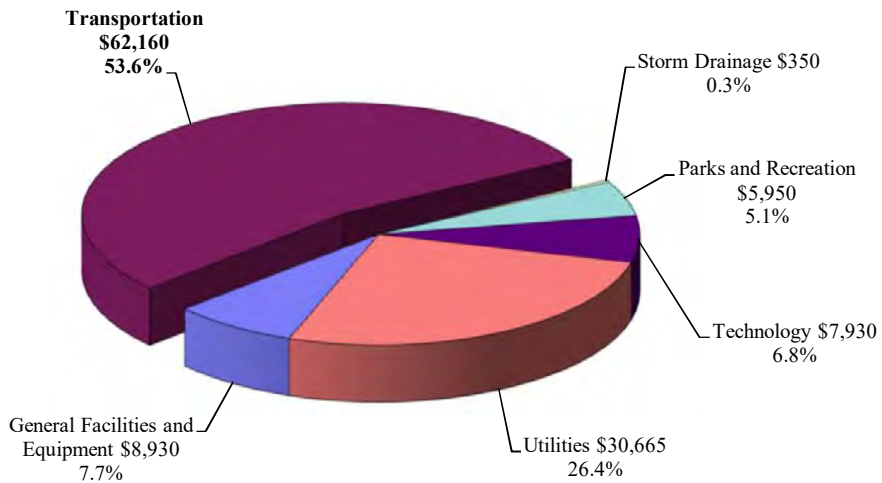
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>1</u>
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OFFSETTING REVENUE:

TRANSPORTATION

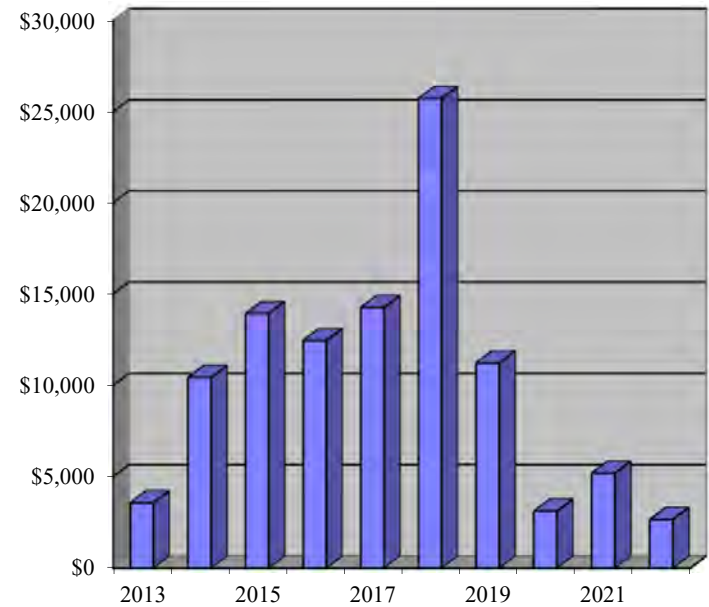
TRANSPORTATION

FISCAL YEARS 2017-2022



Amounts in 000's

Transportation Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Transportation - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Bikeway Improvements	-	150	160	175	175	175	175	1,010
Carothers Parkway	330	105	-	-	-	-	-	105
Concord Road (west of Arrowhead Drive)	3,435	400	-	-	-	-	-	400
Concord Road (east of Edmondson Pike)	5,000	1,000	-	-	-	-	-	1,000
Crockett Road	30	445	85	-	-	-	-	530
Franklin Road (south section)	500	6,850	13,080	7,825	-	-	-	27,755
Future Transportation Projects	-	-	4,900	-	-	-	-	4,900
Granny White Pike	260	-	-	-	-	-	-	-
Johnson Chapel Road	50	-	-	-	-	-	-	-
Moore's Lane	60	-	-	-	-	-	-	-
Sidewalks	105	90	50	50	50	50	50	340
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

Source of Funds

Capital Projects Fund	2,605	5,725	4,795	1,255	300	300	300	12,675
General Fund	760	760	1,125	955	1,165	955	1,165	6,125
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	4,900	-	460	2,440	-	7,800
Facilities Maintenance Division	-	-	50	50	50	50	50	250
Private Sources	-	-	25	-	-	-	-	25
Public Works Project Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	-	10	160	125	-	-	-	295
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

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 Subject to a FY 2016 year-end transfer of \$150,000 from General Fund excess revenues to the Capital Projects Fund, funding is programmed in FY 2017 to connect the Forest of Brentwood and Waterford subdivisions to Scales School via the recently approved subdivision on the May property. FY 2018 funding is provided to complete the planned trail connections along Crockett Road via the Witherspoon subdivision with the developer funding the trail segment across the front of the Somerset subdivision. Actual timing for both of these projects will be determined by the pace of development of the residential subdivision projects. Future funding for FY 2019 and beyond includes \$50,000 for asphalt overlays on existing trails and \$125,000 for system expansion.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering		10	10	10	10	10	10	60
Right of Way Acquisition								
Utility Relocation								
Construction		140	150	165	165	165	165	950
TOTAL EXPENDITURES	-	150	160	175	175	175	175	1,010
SOURCE OF FUNDS								
Capital Projects Fund		150						150
General Fund			85	125	125	125	125	585
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division			50	50	50	50	50	250
Private Sources			25					25
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	150	160	175	175	175	175	1,010

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 Design of these improvements was completed in fall of 2015 and construction is underway and expected to be complete mid-summer of 2016.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	30	10						10
Right of Way Acquisition								
Utility Relocation								
Construction	300	95						95
TOTAL EXPENDITURES	330	105	-	-	-	-	-	105
SOURCE OF FUNDS								
Capital Projects Fund	330	105						105
General Fund								
General Fund (Unrestricted 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	330	105	-	-	-	-	-	105

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
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

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 will be complete by early summer 2016. With regards to City utilities, this project has required 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 was also reflected here for installation of an extended right turn lane on westbound Concord Road to northbound I-65, to be completed by summer 2016.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	3,435	400						400
TOTAL EXPENDITURES	3,435	400	-	-	-	-	-	400
SOURCE OF FUNDS								
Capital Projects Fund	790	80						80
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	2,645	320						320
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	3,435	400	-	-	-	-	-	400

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):	<u>0</u>
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(Concord Road is the maintenance responsibility
of TDOT)

OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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. Construction on Phase 2 from Sunset Rd. to the eastern city limits is underway and projected to be complete in the fall of FY 2016. Remaining project expenditures are all direct TDOT expenses.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	5,000	1,000						1,000
TOTAL EXPENDITURES	5,000	1,000	-	-	-	-	-	1,000
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	5,000	1,000						1,000
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	5,000	1,000	-	-	-	-	-	1,000

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Crockett Road	Account #	311-43100-1042
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project provides for the design and construction of a traffic roundabout at the intersection of Crockett Road and Raintree Parkway/Green Hill Boulevard.		

STATUS Engineering design began in spring 2016, with construction scheduled to begin spring of 2017 subject to relocation of affected utilities in a timely manner. Funding for the total project (\$560,000) is provided by a combination of \$460,000 from the Capital Projects Fund as originally allocated in FY 2016 and \$100,000 from a FY 2016 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. The extra \$100,000 is being added based on planning level construction estimates developed following preliminary schematic design work completed during FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	30	35	10					45
Right of Way Acquisition		15						15
Utility Relocation		20						20
Construction		375	75					450
TOTAL EXPENDITURES	30	445	85	-	-	-	-	530
SOURCE OF FUNDS								
Capital Projects Fund	30	445	85					530
General Fund								
General Fund (Unrestricted 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	30	445	85	-	-	-	-	530

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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OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 are underway and expected to be completed by fall of 2016. It is hoped that TDOT will provide construction funding beginning in FY 2017 but that is not guaranteed. 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 \$2.0 million, of which about 85% should be reimbursed from TDOT. Estimates for utility relocation are subject to change due to pipe sizing requirements of the forthcoming *Master Plan*.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering		120						120
Right of Way Acquisition	500	3,680						3,680
Utility Relocation		50	1,080	825				1,955
Construction		3,000	12,000	7,000				22,000
TOTAL EXPENDITURES	500	6,850	13,080	7,825	-	-	-	27,755
SOURCE OF FUNDS								
Capital Projects Fund	100	3,385						3,385
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	400	3,455	12,920	7,700				24,075
State Street Aid Fund								
Water and Sewer Fund		10	160	125				295
TOTAL FUNDS	500	6,850	13,080	7,825	-	-	-	27,755

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	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.	
STATUS	No specific projects have been identified at this time. With completion of several planning efforts in spring of 2016, staff will assess priorities identified in the various studies and present project options to the City Commission in advance of the FY 2018 budget process.	

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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 Construction was completed in the summer of 2015, expedited by a transfer of General Fund unrestricted reserves to the Capital Projects Fund at the end of FY 2015.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	260							
TOTAL EXPENDITURES	260	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	260							
General Fund								
General Fund (Unrestricted 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	260	-	-	-	-	-	-	-

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 Construction is expected to be completed by the end of FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	50							
TOTAL EXPENDITURES	50	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	50							
General Fund								
General Fund (Unrestricted 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	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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 westbound left turn lane into the Westgate Commons development, which will add approximately 225 feet of additional stacking for a total left turn lane length of 400' +/-.

STATUS Construction on this relatively small project was completed late in calendar year 2015.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	5							
Right of Way Acquisition								
Utility Relocation								
Construction	55							
TOTAL EXPENDITURES	60	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	60							
General Fund								
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	60	-	-	-	-	-	-	-

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, and reconstruction of deteriorated sidewalks where needed throughout the city.

STATUS Funding in FY 2016 included completion of the Centerview Drive sidewalks (\$40,000) and work is expected to be completed by the end of FY 2016 on replacement of damaged sidewalk segments along Franklin Road in the northern commercial area and the Montclair subdivision. FY 2017 funding (\$90,000) provides for completion of pedestrian crossing and ADA curb ramp improvements in the northern commercial area as recommended by the joint Brentwood/Metro traffic study, subject to a FY 2016 year-end transfer to the Capital Projects Fund from General Fund excess revenues. Future funding in FY 2018 and beyond is for other sidewalk improvement projects as may be identified from year to year.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction	105	90	50	50	50	50	50	340
TOTAL EXPENDITURES	105	90	50	50	50	50	50	340
SOURCE OF FUNDS								
Capital Projects Fund	105	90						90
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	105	90	50	50	50	50	50	340

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.

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 2017. 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 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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	The lower than originally budgeted FY 2016 amount reflects \$640,000 in paving work for Maryland Way expected to be carried over to FY 2017. For FY 2017 and beyond, an increase of \$100,000 in funding from the State Street Aid Fund is proposed due to increased revenues as a result of the FY 2015 special census. This will increase the annual budget amount for paving across all funds to \$2,200,000. FY 2017 funding (\$90,000) is also proposed for a comprehensive video condition assessment of all city maintained streets to establish a new baseline for future resurfacing planning. Funding for this assessment is subject to a FY 2016 year-end transfer of \$90,000 from excess revenues to the Capital Projects Fund. Another \$300,000 direct transfer from the General Fund to the Capital Projects Fund is anticipated in FY 2017 to provide advance funding for FY 2018 resurfacing needs. The proposed funding for FY 2019 - FY 2022 assumes a continuation of an annual \$300,000 transfer from the General Fund to the Capital Projects Fund.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Professional Services		90						90
Construction	1,900	2,840	2,200	2,200	2,200	2,200	2,200	13,840
TOTAL EXPENDITURES	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
SOURCE OF FUNDS								
Capital Projects Fund	300	390	300	300	300	300	300	1,890
General Fund	760	760	760	760	760	760	760	4,560
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund								
TOTAL FUNDS	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930

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	10
Debt Service	

(annual resurfacing helps reduce routine
maintenance expenses)

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

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 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. Engineering design is underway with construction planned to begin early in calendar year 2017. Proposed funding sources for the estimated \$8.2 million project include fiscal year-end transfers of General Fund excess revenues (\$1.5 million in FY 2015 and \$300,000 in 2016), \$4.8 million from unrestricted General Fund reserves (in lieu of bonds), and \$1.6 million in Public Works Project Fees generated by new development (\$1 million in FY 2017 and \$600,000 in FY 2018). 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 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	345	190	10	5	320			525
Right of Way Acquisition		700			140			840
Utility Relocation								
Construction		1,000	5,000	950		2,740		9,690
TOTAL EXPENDITURES	345	1,890	5,010	955	460	2,740	-	11,055
SOURCE OF FUNDS								
Capital Projects Fund	345	890	4,410	955				6,255
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds					460	2,440		2,900
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	345	1,890	5,010	955	460	2,740	-	11,055

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

ANNUAL OPERATING BUDGET IMPACT (000'S):

0**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	FY 2016 completed projects include the joint traffic study with Metro, various signal equipment replacements/upgrades (\$155,000), and Maryland Farms area intersection signal and striping improvements (\$55,000) required to implement the new signal timing plans. A new traffic monitoring camera at I-65 and Moores Lane (\$25,000) will be moved to FY 2017 as the City awaits TDOT installation of the pole. Also included in FY 2017 is the federally funded signal timing study of Concord Road, Moore's Lane, Wilson Pike and Murray Lane corridors (\$215,000) as well as various equipment upgrades including battery back-ups at 7 intersections (\$70,000), traffic control cabinets at Wilson Pike/Church and Church/Wilson Pike Circle (\$30,000), 18 replacement digital traffic cameras and 2 new cameras at Belle Rive/Granny White and Crockett/Volunteer Pkwy (\$65,000). FY 2017 funding of \$165,000 in Capital Projects Fund is contingent upon a FY 2016 year-end transfer of excess General Fund revenues to the Capital Projects Fund. Future funding is allocated for a new signal bi-annually (\$210,000 each), subject to identification of priority locations that meet required warrants.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	235	215	10		10		10	245
Equipment Upgrades	210	190						190
Extraordinary Repairs								
Construction			200		200		200	600
TOTAL EXPENDITURES	445	405	210	-	210	-	210	1,035
SOURCE OF FUNDS								
Capital Projects Fund	235	190						190
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	210	215						215
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	445	405	210	-	210	-	210	1,035

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	10
Debt Service	

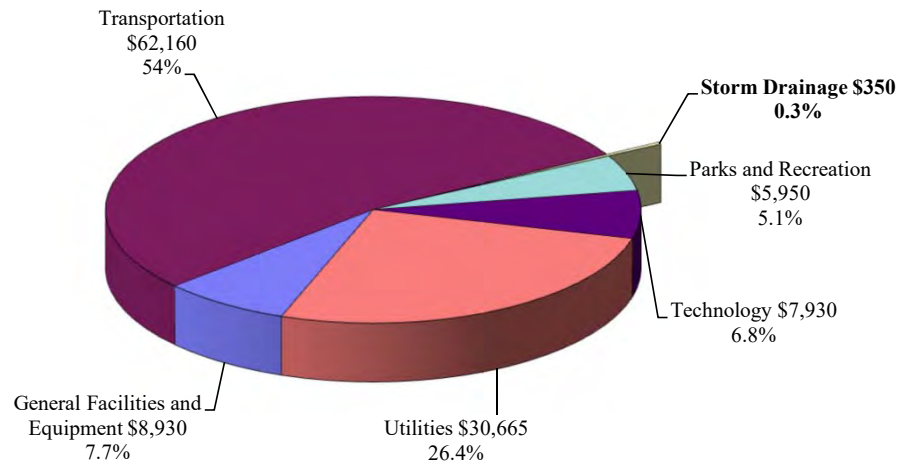
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>10</u>
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OFFSETTING REVENUE:

STORM DRAINAGE

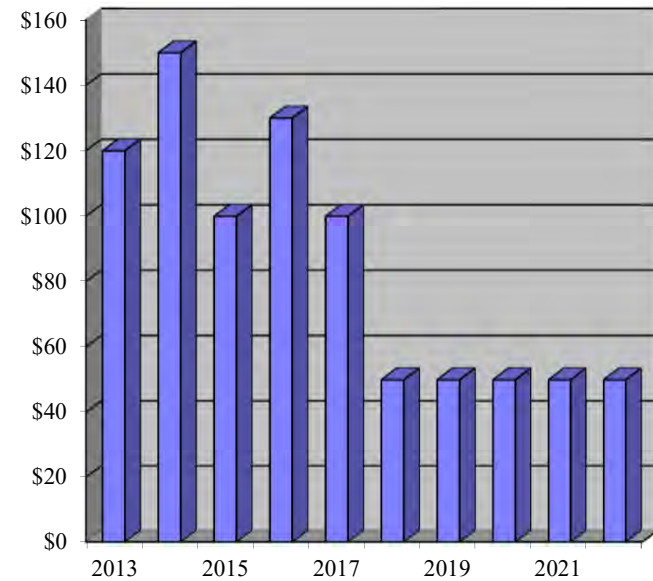
STORM DRAINAGE

FISCAL YEARS 2017-2022



Amounts in 000's

Storm Drainage Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Storm Drainage Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Calloway Drive	80	-	-	-	-	-	-	-
Derby Glen	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	130	100	50	50	50	50	50	350

<u>Source of Funds</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Capital Projects Fund	80	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	130	100	50	50	50	50	50	350

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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	The project will be completed by the end of FY 2016.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	80							
TOTAL EXPENDITURES	80	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	80							
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	80	-	-	-	-	-	-	-

JUSTIFICATION

This storm drain pipe under Calloway Drive and Heathrow 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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Derby Glen	Account #	311-43150-2007
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project will replace 320 feet of corrugated metal pipe with ADS plastic pipe on Canterbury Close in the Derby Glen subdivision. Included is regrading approximately 800 linear feet of drainage ditch at the rear of several homes in the 6300 block of Canterbury Close.		
STATUS	Drainage work will typically be scheduled for the drier, summer months. This work is expected to be complete in late spring of 2017.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering Services								
Construction		50						50
TOTAL EXPENDITURES	-	50	-	-	-	-	-	50
SOURCE OF FUNDS								
Capital Projects Fund		50						50
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	-	50	-	-	-	-	-	50

JUSTIFICATION

This metal storm drain pipe in this location has exceeded its useful life and is failing.

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Subdivision Drainage	Account #	110-43150-89440
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION	This project provides annual funding in the Public Works Department General Fund budget 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 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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):

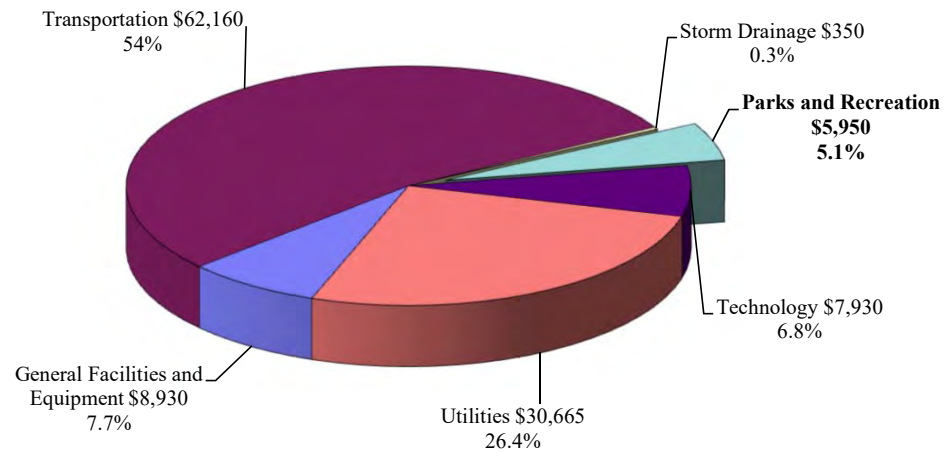
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OFFSETTING REVENUE:

PARKS and RECREATION

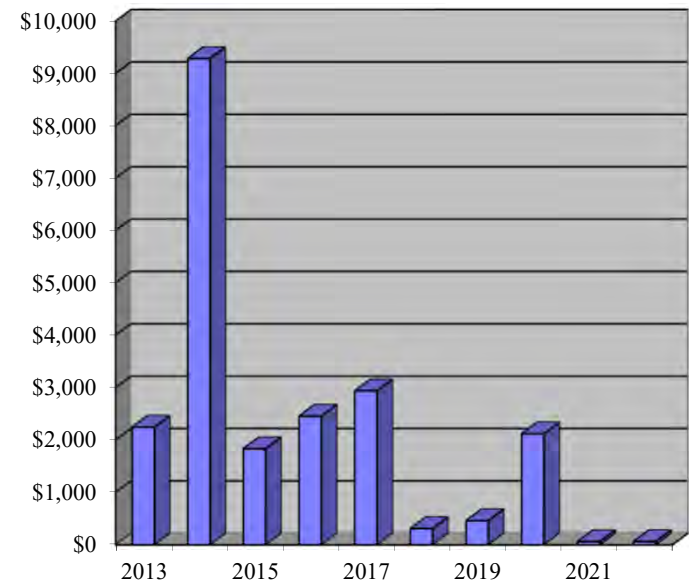
PARKS AND RECREATION

FISCAL YEARS 2017-2022



Amounts in 000's

Parks & Recreation Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017 - 2022
Parks and Recreation Program - Summary
(000's)

<u>Projects</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Concord Park	-	20	-	-	-	-	-	20
Crockett Park	165	85	30	30	30	30	30	235
Deerwood Arboretum	-	15	-	-	-	-	-	15
Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
Granny White Park	30	50	30	30	30	30	30	200
Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
Maryland Way Park	-	-	-	150	-	-	-	150
Owl Creek Park	-	60	25	-	-	-	-	85
River Park	40	-	25	-	-	-	-	25
Tower Park	15	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

<u>Source of Funds</u>	<u>Projected 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-22</u>
Capital Projects Fund	2,220	1,180	-	-	-	-	-	1,180
General Fund	-	-	200	400	60	-	-	660
General Fund (Unreserved Balance)	-	1,500	-	-	-	-	-	1,500
G O Bond Proceeds	-	-	-	-	2,000	-	-	2,000
Facilities Maintenance Division	225	185	110	60	60	60	60	535
Private Sources	10	75	-	-	-	-	-	75
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Concord Park	Account #	311-44400-3007
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION **This project provides for periodic improvements to Concord Park, which includes the Civitan parking lot and walking trails adjacent to the Library.**

FY 2017 improvements include adding solar lighting to the trail area in front of the library subject to the City completing a rezoning process to remove the special restriction prohibiting lighting of the trail. No additional improvements are currently scheduled for FY 2018 or beyond.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.		20						20
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	-	20	-	-	-	-	-	20
SOURCE OF FUNDS								
Capital Projects Fund		20						20
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	20	-	-	-	-	-	20

JUSTIFICATION

Concord Park totals 38.7 acres and includes the Brentwood Library campus, walking trails, and the parking lot serving the Civitan ball fields. The trail in front of the Library connects the northwest section of the Brenthaven neighborhood to the City's main trail system and experiences significant pedestrian use. Installation of solar lighting pedestals will allow for safe, nighttime use of this trail segment.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0
(Lights will be solar powered so no electrical cost)

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 2016 projects included parking/road resurfacing, safety surface replacement at the playground, replacement soccer goals, a new water line for the shelter restroom, shelter restroom re-roof, gutter replacement at 4-plex #2, and additional recycling containers. FY 2017 funding includes conversion to energy efficient T-8 lights on remaining facilities (\$10,000), relamping sports field lighting (\$30,000), cleaning of the ampitheater roof (\$25,000), replacement of the insulation at the maintenance shop (\$10,000), replaement of gutters at the tennis center, and concrete step repairs (\$10,000). Funds are allocated in FY 2018 for dugout replacement (\$30,000). Funding in future years is shown to ensure the facilities are maintained at the current high standards

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	150	85	30	30	30	30	30	235
Furniture/Equipment	15							
Landscaping/Trees								
Utilities								
TOTAL EXPENDITURES	165	85	30	30	30	30	30	235
SOURCE OF FUNDS								
Capital Projects Fund	15							
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	150	85	30	30	30	30	30	235
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	165	85	30	30	30	30	30	235

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:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Deerwood Arboretum	Account #	311-44400-3008
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This project provides for periodic improvements and upgrades to the City's primary "tree" park to make the natural area more attractive and accessible to potential users.

STATUS Funding is provided here for miscellaneous improvements to Deerwood Arboretum. FY 2017 expenditures include replacement of the split rail fence and painting of the building.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.		15						15
Furniture/Equipment								
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		15						15
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	15	-	-	-	-	-	15

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 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. 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 Construction of park improvements began in 2015 and will be completed by the summer of 2016 along with various offsite pedestrian connections from adjoining neighborhoods. Construction, originally expected to be funded by a 2016 bond issue, will instead funded by a \$1,500,000 transfer of undesignated General Fund fund balance and a proposed \$300,000 FY 2016 year-end transfer of excess General Fund revenues to the Capital Projects Fund. FY 2017 funding provides for purchase of a mower and ATV for use in maintaining this new park.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	30							
Buildings, Facilities, etc.	1,800							
Off-Site Improvements	125							
Equipment		40						40
TOTAL EXPENDITURES	1,955	40	-	-	-	-	-	40
SOURCE OF FUNDS								
Capital Projects Fund	1,955	40						40
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	1,955	40	-	-	-	-	-	40

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 2016 funding included \$35,000 for basketball court resurfacing, baseball field sideline netting replacement, painting the front gate and tennis court fencing, and sidewalk replacement. FY 2017 funding includes repairs and painting of the pavilion ceiling (\$10,000), renovation of 2 volleyball courts (\$10,000), and replacement of two gazebos (\$30,000).		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	30	50	30	30	30	30	30	200
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	30	50	30	30	30	30	30	200
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	30	50	30	30	30	30	30	200
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	30	50	30	30	30	30	30	200

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	0
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(Extraordinary repairs help reduce on-going maintenance cost)

OFFSETTING REVENUE: _____

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 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 78 acres in the rear of the property will be determined in the future.		
STATUS	FY 2016 funding provided for widening of the Ravenswood driveway to allow for two way traffic and engineering/design work for Phase 2 improvements, replacement of the Ravenswood roof, and stabilization of the kitchen building. FY 2017 funding includes mansion roof replacement (\$150,000) and stabilization of the kitchen building (\$165,000). Phase 2 improvements in FY 2017 (\$2.325 million) will include extension of the loop road and development of two multi-purpose fields with parking, a playground and bathroom facility, and a picnic shelter funded by contributions from Citizens for Brentwood Greenspace. Funding in 2018 is programmed for renovation/replacement of the barn used by Park maintenance staff. FY 2019 funding is programmed for stabilization work on the two slave cabins as well as initial engineering work on Phase 3 improvements. 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 a FY 2017 transfer of \$750,000 from the Adequate Facilities Tax Fund. Phase 3 improvements are scheduled to begin in FY 2020 at the earliest, contingent upon a bond issue of \$2 million in FY 2020.		

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Planning/Engineering	145	30		100	60			190
Park Land Acquisition								
Construction/Development	105	2,325	200		2,000			4,525
Historic Structure Renovation		315		150				465
TOTAL EXPENDITURES	250	2,670	200	250	2,060	-	-	5,180
SOURCE OF FUNDS								
Capital Projects Fund	250	1,095						1,095
General Fund			200	250	60			510
General Fund (Unreserved Balance)		1,500						1,500
G O Bond Proceeds					2,000			2,000
Facilities Maintenance Division								
Private Sources		75						75
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	250	2,670	200	250	2,060	-	-	5,180

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	150
Debt Service	910

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>1,150</u>
(When park is fully developed)	

OFFSETTING REVENUE:	90
(Historic House Rental)	

PROJECT	Maryland Way Park	Account #	311-44400-3011
PROGRAM	Parks and Recreation	RESPONSIBLE DEPARTMENT	Parks and Recreation

DESCRIPTION This project provides for minor improvements to this 7 acre urban green space located adjacent to Maryland Way in the eastern section of the Maryland Farms Office Center.

STATUS Funding is programmed in FY 2019 for potential improvements to the eastern edge of this park to provide an appropriate pedestrian gateway connection to the Hill Center redevelopment project. The exact nature and scope of these improvements will be determined in the future based on the final design of that portion of the Hill Center site adjacent to the park.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.				150				150
Furniture/Equipment								
Landscaping/Trees								
Repaving/Repairs Trail								
TOTAL EXPENDITURES	-	-	-	150	-	-	-	150
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund				150				150
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	-	-	150	-	-	-	150

JUSTIFICATION

This park is located in the center of the commercial/office areas of north Brentwood and directly adjacent to the expanded Hill Center currently under development. With the mixed-use pedestrian focus of the Hill Center development along with the proximity of other office developments, it is important that this park easily integrate with adjoining developments to promote walking and other non-vehicle trips.

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:	<u> </u>
	<u> </u>

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 included \$25,000 for installation of four-board fencing along the entire Concord Road frontage and an entrance feature. These funds will be carried over to FY 2017 since the road project is not expected to be complete until fall of 2016. Other FY 2017 funding includes phased replacement of the boardwalk sections of the multi-use trail in this park and conversion to energy efficient T-8 lights in the restroom building.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Planning/Engineering								
Buildings, Facilities, etc.		35	25					60
Furniture/Equipment								
Landscaping/Trees		25						25
TOTAL EXPENDITURES	-	60	25	-	-	-	-	85
SOURCE OF FUNDS								
Capital Projects Fund		25						25
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		35	25					60
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	60	25	-	-	-	-	85

JUSTIFICATION

This park is situated on land that was dedicated to the City by a developer at no cost and is ideally located to serve the nearby neighborhoods in east Brentwood.

PROGRAM AND FACILITY COSTS:

**Personnel Services
Operating Expenditures
Debt Service**

ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 included \$45,000 for parking lot resurfacing/stripping, bathroom painting, and basketball court resurfacing. No improvements are scheduled for FY 2017. FY 2018 includes funding for playground updates.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Buildings, Facilities, etc.	40		10					10
Furniture/Equipment			15					15
Landscaping/Trees								
TOTAL EXPENDITURES	40	-	25	-	-	-	-	25
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	40		25					25
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	40	-	25	-	-	-	-	25

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 included dog play stations/equipment in the dog park funded via sponsorship from Nutro. No other improvements are anticipated within the CIP timeframe.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	5							
Furniture/Equipment	10							
Landscaping/Trees								
TOTAL EXPENDITURES	15	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	5							
Private Sources	10							
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	15	-	-	-	-	-	-	-

JUSTIFICATION

The park is located in the civic center area of Brentwood and provides lighted practice fields to serve organized athletic groups in the community. The addition of a dog park at this location adds another amenity to the park system at a site that is conveniently located but with no adverse impact on surrounding property owners. Miscellaneous maintenance repairs will be needed in the future to keep the park attractive and safe.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

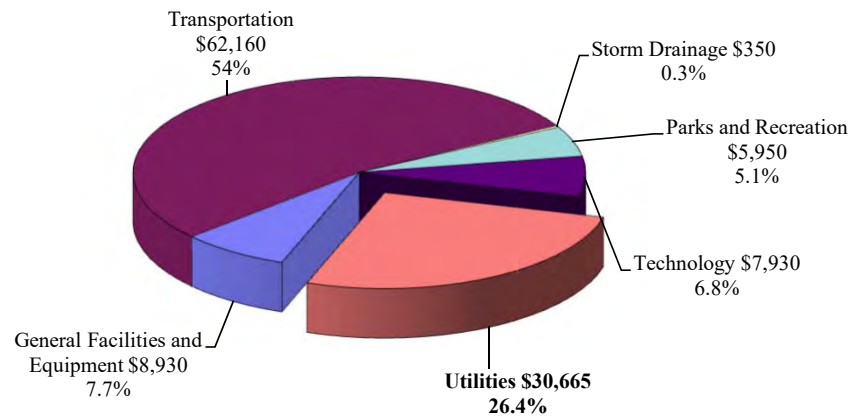
ANNUAL OPERATING BUDGET IMPACT (000'S): 0

OFFSETTING REVENUE:

UTILITIES

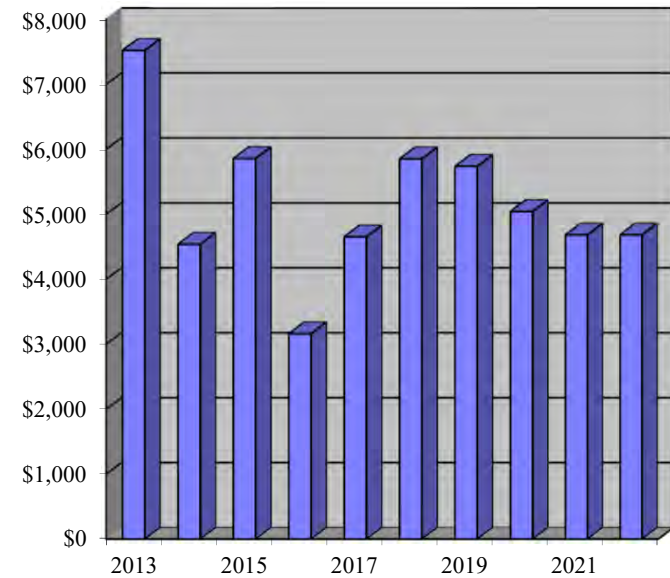
UTILITIES

FISCAL YEARS 2017-2022



Amounts in 000's

Utilities Annual Expenditures



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2017-2022
Water and Sewer Program - Summary
(000's)

<u>Projects</u>	<u>Projected FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total 6 Years 2017-2022</u>
Meter Reading Program Upgrade	225	1,000	710	-	-	-	-	1,710
Miscellaneous Sewer Service Additions	-	45	45	105	405	45	45	690
Miscellaneous Sewer System Improvements	-	135	325	160	110	110	110	950
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	15	-	-	-	-	-	-	-
Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	827	45	295	295	295	295	295	1,520
Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

Source of Funds

Water & Sewer Fund	2,157	4,650	5,850	5,735	4,970	2,330	2,330	25,865
Private Sources	-	5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

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 2016, department crews upgraded approximately 500 meter sites totaling approximately 1,725 customer sites which are now remotely read from the billing office. Work in FY 2016 will include installation of the third reading site at Chenoweth water tank. Once the Chenoweth site is installed, tested and commissioned, a contract to provide for upgrades to additional customer meter sites will be issued to include the remainder of customer sites; approximately 11,000 in total.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction	225	1,000	710					1,710
TOTAL EXPENDITURES	225	1,000	710	-	-	-	-	1,710
SOURCE OF FUNDS								
Water & Sewer Fund	225	1,000	710					1,710
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	225	1,000	710	-	-	-	-	1,710

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><u>(50)</u></u>
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OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 2016 and none have been identified for FY 2017. However, the next planned large scale project is associated with the Franklin Rd. widening project in 2019 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, according to Code. Funds have also been included to provide for additional small scale sewer connections annually if requested and approved.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	-	5	5	65	5	5	5	90
Construction	-	40	40	40	400	40	40	600
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	45	45	105	405	45	45	690
SOURCE OF FUNDS								
Water & Sewer Fund	-	40	40	100	330	40	40	590
Private Sources		5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	45	45	105	405	45	45	690

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:	60
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(Each home will pay a \$5,000 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 projects that may arise each year. Funds are programmed in FY 2017 to complete a condition assessment of the Moore's lane sewer force main which is located on the south side of Moore's Lane between S. Carothers and the entrance to the Nashville Golf Club.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	-	35	75	10	10	10	10	150
Construction	-	100	250	150	100	100	100	800
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	135	325	160	110	110	110	950
SOURCE OF FUNDS								
Water & Sewer Fund	-	135	325	160	110	110	110	950
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	135	325	160	110	110	110	950

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 2017.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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>0</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 2016 included funding to wrap up the sewer system hydraulic computer model which includes development and calibration. The sewer system model is a requirement of the department's CMOM (Capacity Management, Operations and Maintenance) program. Now developed, the model will be used annually to provide for enhanced planning and aiding system operations.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	15							
Construction								
Property/Easement Acquisition								
TOTAL EXPENDITURES	15	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Water & Sewer Fund	15							
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	15	-	-	-	-	-	-	-

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 at various locations under consideration.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures (annual updates)	10
Debt Service	

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

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

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 who is a party to the Order since the two have inter-connecting systems, were required to submit a report summarizing Metro and the City's progress and compliance through 2014. It was required that the report also make recommendations for future compliance.		

STATUS

Per the 2014 CAP/ER compliance report approved by TDEC, the City is committed to spend \$1.25 million annually through FY 2019 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, possible main line segments, as determined by the City's consulting engineer to be the most likely source of ground and surface water intrusion, and continued evaluation of system storage options. Funding programmed in FY 2020 and beyond is for anticipated proactive rehabilitation efforts to continue to improve the operational efficiency of the system.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering/Inspection	220	320	270	270	75	75	75	1,085
Construction	870	1,630	1,250	1,250	500	500	500	5,630
Land Acquisition	0							
TOTAL EXPENDITURES	1,090	1,950	1,520	1,520	575	575	575	6,715
SOURCE OF FUNDS								
Water & Sewer Fund	1,090	1,950	1,520	1,520	575	575	575	6,715
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	1,090	1,950	1,520	1,520	575	575	575	6,715

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	(1,050)
(Repairs will lower treatment costs by reducing storm water infiltration into the system)	
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):	<u><u>(1,050)</u></u>
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OFFSETTING REVENUE:

(Capital program is funded by a 25% increase in sewer rates approved in the spring 2008)

CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Sewer System Capacity Improvements	Account #	412-16700-
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 FY 2016. Improvements are to include system sub basin projects and system wide conveyance projects.

STATUS There were no planned projects identified for FY 2016. Beginning in FY 2017, funds are programmed in anticipation of initiating projects recommended from the Master Plan. Funding for improvements will be provided by sewer tap fees paid by new development.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
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, now incorporated 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 CY 2016 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):	-
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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 2016 included replacement of approximately 8,300 feet of 6 inch plastic pipe with new ductile iron pipe in the Stonehenge subdivision. This completes replacement of all lines in the Stonehenge subdivision (sections accessed from Franklin Rd.). Funding is provided in future years for projects identified in the asset management program.
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PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	62	35	35	35	35	35	35	210
Construction	765	0	250	250	250	250	250	1,250
Property/Easement Acquisition	-	10	10	10	10	10	10	60
TOTAL EXPENDITURES	827	45	295	295	295	295	295	1,520
SOURCE OF FUNDS								
Water & Sewer Fund	827	45	295	295	295	295	295	1,520
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	827	45	295	295	295	295	295	1,520

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 demands of Brentwood's customers. 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	In fiscal year 2016, the department completed construction of the new Johnson Chapel water pump station located at Murray Lane and Johnson Chapel Rd. Additional projects are planned in future years as determined by the water system master plan which is being finalized this spring. Once finalized, future projects will be prioritized with recommendations and detailed funding outlined in future years. Funding is expected to be a combination of water tap fees from new development and water/sewer bond proceeds.
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PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	50	50	150	300	300	300	300	1,400
Construction	956	120	1,500	2,000	2,000	2,000	2,000	9,620
Property/Easement Acquisition				50	50	50	50	200
TOTAL EXPENDITURES	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
SOURCE OF FUNDS								
Water & Sewer Fund		170	1,650	2,350	2,350			6,520
Private Sources								
Water & Sewer Bond/Note Proceeds	1,006					2,350	2,350	4,700
TOTAL FUNDS	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220

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.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	0
	305
Debt Service (CY 2020 Bond Issue)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	<u>305</u>

OFFSETTING REVENUE:

(Increase water sales from available water during the summer)

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

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

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.