



City of  
**Brentwood**  
Tennessee



**CAPITAL IMPROVEMENTS  
PROGRAM  
FY 2019-2024**

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Years 2019-2024**

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**Brentwood Board of Commissioners**

**Jill Burgin**  
Mayor

**Mark Gorman**  
Vice Mayor

**Betsy Crossley**  
City Commissioner

**Anne Dunn**  
City Commissioner

**Rhea E. Little III**  
City Commissioner

**Regina Smithson**  
City Commissioner

**Ken Travis**  
City Commissioner

**City Staff**

**Kirk E. Bednar**  
City Manager

**Jay M. Evans**  
Assistant City Manager

**Richard Parker**  
Finance Director

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# **INTRODUCTION**

JILL BURGIN  
MAYOR  
MARK GORMAN  
VICE MAYOR  
KIRK BEDNAR  
CITY MANAGER



COMMISSIONERS  
BETSY CROSSLEY  
ANNE DUNN  
RHEA E. LITTLE, III  
REGINA SMITHSON  
KEN TRAVIS

## City of Brentwood

March 26, 2018

### CITY MANAGER MEMORANDUM

2018-02

TO: Honorable Mayor and Members of the City Commission

FROM: Kirk Bednar, City Manager 

SUBJECT: **Proposed Fiscal Years 2019-2024 Capital Improvements Program**

Attached you will find the proposed six-year capital improvements program (CIP) for the City of Brentwood for fiscal years 2019-2024.

The proposed CIP will be reviewed with the Board of Commissioners at a work session scheduled for Tuesday, April 3, 2018, beginning at 4:00 PM in the Municipal Center Annex Room. The staff will review each project and seek initial guidance and direction on the appropriateness and priorities in the program. Afterwards, the CIP will be circulated in the community for citizen review and comments. Formal public hearings are scheduled at three City Commission meetings on Tuesday, May 29, 2018, Tuesday, June 12, 2018, and Monday, June 25, 2018. A resolution to adopt the six-year CIP will be presented to the City Commission for consideration and adoption at the June 25, 2018 meeting.

The primary focus of this six-year program is to identify and address the infrastructure and facility/equipment needs of the community given the strong pace of growth in the Middle Tennessee region. Brentwood is recognized nationally as a desirable community to live, work, and do business. 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 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 civic facilities intended to enhance public safety services as the city continues to grow. While the program presented here is a six-year program, the plan is a living document with only the first year fully committed as part of the FY 2019 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 2019-2024 Capital Improvements Program is an ambitious plan that calls for the investment of **\$155,650,000** 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 **\$37.5 million** of the **\$155 million** program (24%) is dependent upon receipt of inter-governmental revenues (state and federal), targeted mostly to the improvement of Franklin Road and annual street repaving over the next six years.

The net local investment of **\$118.1 million** over six-years will require a significant funding commitment, including direct support of over **\$101.2 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 expenditures from its annual operating budget, accumulated retained earnings, and tap fees for various water and sewer system improvements.

The proposed CIP program cannot be implemented without the issuance of new General Obligation Bonds totaling **\$16.9 million**, including \$12 million proposed in FY 2020 related to a new Police headquarters building and an additional \$4.9 million proposed in FY 2023 for the Ragsdale Road widening project. The six-year CIP plan does not include issuance of any Water/Sewer Bonds at this time. The proposed \$12 million G.O. bond issue in 2020 is significantly larger than the City’s traditional bond issues. Therefore, it will require an increase of approximately \$500,000 in the General Fund’s annual transfer to the Debt Service Fund by FY 2022 based on current debt service cash flow projections. Staff proposes to address this

required funding increase incrementally over the next four fiscal years to level out the impact on the annual General Fund budget.

Total project costs in the major program areas over the next six years (FY 2019-2024) are summarized below:

Transportation	\$76,745,000	49.3%
Utilities	35,180,000	22.6%
Facilities & Equipment	33,245,000	21.4%
Technology	7,845,000	5.0%
Parks & Recreation	2,285,000	1.5%
Storm Drainage	350,000	0.2%
<b>TOTAL</b>	<b>\$155,650,000</b>	<b>100.0%</b>

**Transportation** improvements are again 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. The single largest project in the six-year plan involves completion of widening improvements to Franklin Road South to five lanes from Concord Road to south of Moore’s Lane. This project is currently under construction with an updated remaining cost estimate totaling \$28.5 million. Almost all of this funding will be provided directly by TDOT for construction with a small remaining local share reserved for settlement of remaining eminent domain cases.

With the passage of the IMPROVE Act in 2017, increased gas tax revenue will allow TDOT to undertake numerous new projects. Within Brentwood, the IMPROVE Act identified the reconstruction of the Moore’s Lane/I-65 interchange as a future project. TDOT has not yet proposed the schedule for initiating this project. Unfortunately, even with the IMPROVE Act, a TDOT commitment to financially participate in any future major improvement projects on other state routes such as Wilson Pike between Concord and Church Street is highly unlikely in the foreseeable future.

Significant local funding (\$7.5 million) is allocated over the next two years to complete the realignment of the Sunset Road and Ragsdale Road intersection and the widening of Sunset Road from the improved intersection north to Concord Road. The intersection realignment project expected to be completed later in calendar year 2018 will eliminate serious safety issues related to the horizontal and vertical curves leading into this intersection, and includes both road widening and bridge improvements to sections of Sunset and Ragsdale roads. The six-year plan maintains significant funding (\$9.6 million) projected to be provided to the City of Franklin in FY 2021 to initiate construction on the McEwen Drive extension east of Wilson Pike through the Taramore subdivision. Finally, the latter years of the six-year plan include funding (\$10.9 million) for the planned widening of Ragsdale Road from the Glenellen subdivision west to Split Log Road.

The City will maintain a significant commitment to street resurfacing over the six-year period in the total amount of \$14.8 million. The FY 2019 proposed resurfacing funding level of \$2.3 million reflects an increase of \$100,000 in base funding over FY 2018. The plan includes additional increases in funding over the six-year period, primarily due to the increased local gas tax distribution resulting from adoption of the IMPROVE Act in 2017.

The proposed six-year **Utilities** program continues the shift 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 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. The six-year plan provides for an \$11.3 million investment to expand the capability of the system to distribute water to our customers throughout the service area. This investment in the overall water distribution system should position it to handle the peak summer demands both 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. In addition to water capacity projects, the six-year plan also invests heavily (\$4.6 million) in the replacement of aging water system infrastructure.

Now that the heaviest phase of sewer rehabilitation work is nearing completion, the focus is shifting to sewer system capacity improvements as identified in the sewer system master plan. This includes 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 \$8.4 million is programmed over the six-year CIP period for sewer capacity projects, including a proposed wet weather sewage storage tank in proximity to the Brentwood pump station. Note that funding for these capacity related improvements is projected to come entirely from sewer tap fees collected from new development projects over the past several years and in the future.

The primary focus of the **General Facilities and Equipment** program over the next six years will be on construction of new departmental facilities as well as planning for a fifth fire station. The proposed construction of a new Police headquarters facility (\$20+ million) will represent the largest single building construction project in the history of the city. The planned construction of a new Parks Department office facility within Crockett Park has been delayed until FY 2021 to allow the funding plan for the Police project to be finalized first. Funding is also provided for land acquisition and future design of a planned First Station 5 in the southeast portion of the city. Assuming a suitable tract of land can be acquired, the exact timing for construction of this facility will be determined based upon call volumes and other issues related to growth in this part of the city.

The six-year plan maintains 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 over \$5.8 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 renovation of the Planning and Codes area in FY 2022 assuming the Police Department has relocated to its new facility by that time. Annual funding from the Facilities Maintenance Fund is also programmed throughout the six-year period to assure proper upkeep of various city facilities. Finally, \$1.3 million remains in reserve for possible public infrastructure improvement in the Town Center area as may be deemed appropriate in coordination with redevelopment of the original Town Center area.

The **Technology** program emphasizes the replacement and upgrade of computer hardware and software and other state of the art equipment that allows our employees to continue to deliver services in a responsive, cost effective manner. About \$3.0 million is allocated for computer equipment and hardware upgrades and replacements over six years. Significant funding of \$3.0 million is programmed in FY 2019 to complete 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. This system will be interconnected with the Metro Nashville 800 MHz radio system to provide even greater regional communications interoperability. This \$3.0 million amount also includes \$550,000 for the proposed replacement of all non-public safety radios (i.e. Public Works, Water Services, etc.) with radio capable of operating on the new system. Finally, funding of \$700,000 is also provided in FY 2020 for the potential upgrade or replacement of the City's general ledger and HR software systems, which will be 15 years old at that point.

Over the past several years, the City has made a major commitment toward the acquisition and development of new parkland. This includes the purchase and Phase 1 and 2 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 completed in fall of 2016. The **Parks and Recreation** program over the next six years includes significant funding (\$1.6 million) for proactive major maintenance projects within existing park facilities, including potential replacement of the community playground and Eddy Arnold Amphitheatre roof.

## **FINANCING REQUIREMENTS**

As noted earlier, almost \$101.2 million (65%) 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 \$37.6 million or 24%. The remaining funds (\$16.9 million or 11%) will come through the issuance of General Obligation Bonds.

FY 2019 funding for several projects is dependent upon a proposed FY 2018 year-end transfer of current year excess revenues of \$6,305,000 from the General Fund to the Capital Projects Fund and \$45,000 from the General Fund to the Equipment Replacement Fund. In addition to this transfer of excess current year revenue, the funding plan also calls for a transfer of \$1.4 million from the undesignated General Fund reserve balance. This amount, coupled with the \$3.5 million in capital outlay notes issued in FY 2018 totals \$4.9 million and is in lieu of a previously planned FY 2018 G.O. Bond issue of that same amount. These funds will provide the final piece of the funding for the Sunset Road/Ragsdale intersection project.

The implementation of a six-year, comprehensive program with long-term benefits will require the issuance of **\$16.9 million** in new 20-year General Obligation Bonds for the Police headquarters building (\$12 million) and the Ragsdale Road widening project (\$4.9 million).

With the adoption of the new water and sewer rate structure effective August 2016 and the new financial policies related to segregation of water and sewer tap fees and minimum retained earnings balance, the six-year Utilities capital program is projected to be funded without the need for additional debt financing. Note, however, that with water and sewer revenues heavily weather dependent, fluctuations in these multi-year projections could occur in future updates of the capital improvements plan.

The following memo from Richard Parker, 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 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.

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

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

- G.O. bonds (**\$12,000,000**) for construction of a Police Department headquarters building on city owned land on Heritage Way.

***Fiscal year 2023*** (issued by late calendar year 2022)

- G.O. bonds (**\$4,900,000**) for construction of improvements to widen Ragsdale Road from Glenellen subdivision to Split Log Road.

No additional General Obligation or Water and Sewer bond issues are currently projected for the remainder of the six-year plan. However, future decisions regarding initiation of significant capital projects and/or significant fluctuations in revenue due to economic conditions or weather conditions could require consideration of debt financing for completion of projects.

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. 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. However, a project the size of the proposed Police headquarters building will require debt funding at a level greater than the City has historically addressed in a single bond issue. This bond issue will require an increase in the annual transfer from the General Fund to the Debt Service Fund. This increase is projected at \$500,000 and will be phased in over the next four fiscal years to smooth the impact on the General Fund. The proposed debt issues are not projected to have an impact on the property tax rate. Debt service for any existing or future Water/Sewer bonds will be funded through current income.

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 2018 is \$2,672,400. Note that in FY 2017, the City elected to pay off the remaining balance of the 2006 Refunding Bonds, which were callable. This payment of approximately \$1.6 million was made from the available fund balance in the Debt Service Fund. The projected fund balance for the Debt Service Fund as of June 30, 2018 is approximately \$2,275,000, which is below the one-year target level as previously discussed with the Board. The proposed FY 2019 General Fund transfer to the Debt Service Fund will be \$3,100,000, an increase of \$150,000 from the FY 2018 level. At the end of FY 2019, the fund balance in the Debt Service Fund is again projected to be at or above the goal of the equivalent of one year's debt service amount.

Finally, the percentage of the total General Fund budget allocated for debt service in FY 2018 is approximately 7.9%. This amount of annual debt service is considered by the rating agencies to be a manageable level for a growing community. Assuming a 4% budget growth from FY 2019 through FY 2024 with the Debt Service Fund transfer growing to \$3,450,000 by FY 2022, this percentage will decrease to 7.3% in FY 2024.

## **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, for his assistance in the research and preparation of this document, and his 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.

JILL BURGIN  
MAYOR  
MARK GORMAN  
VICE MAYOR  
KIRK BEDNAR  
CITY MANAGER



COMMISSIONERS  
BETSY CROSSLEY  
ANNE DUNN  
RHEA E. LITTLE, III  
REGINA SMITHSON  
KEN TRAVIS

## City of Brentwood

March 26, 2018

### FINANCE DEPARTMENT MEMORANDUM

2018-04

TO: Honorable Mayor and Members of the City Commission

THROUGH: Kirk Bednar, City Manager

FROM: Richard Parker, Finance Director *RP*

**SUBJECT: Capital Improvements Program Funding**

The attached City of Brentwood 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 53 projects and improvements at a total cost of \$156 million. As addressed in the previous memo from the City Manager, \$118 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 a minimum \$6.35 million FY 2018 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund, as well as a transfer of \$1.4 million of General Fund unassigned fund balance. It also includes utilization of \$2.5 million in fund balance in the Capital Projects Fund and utilization of \$2 million in Public Works Project Fees.

Completion of a program of this magnitude will require two 20-year General Obligation (GO) bond issuances. The first would be a \$12 million issue in FY 2020 to fund construction of the proposed new Police Department Headquarters on Heritage Way, and the second would be a \$4.9 million issue in FY 2023 to pay for the widening of Ragsdale Road north of Split Log Road. It is anticipated that the \$12 million issue will not be "bank-qualified" debt due to the \$10 million annual cap in the federal tax code. The difference between the rates on bank-qualified and non-bank-qualified debt is now relatively nominal. This is due to the 2017 tax reform legislation passed by Congress that lowered

corporate tax rates and thereby reduced the advantage to banks that buy bank-qualified bonds. For small issuers of tax exempt bonds like the City of Brentwood, pricing has become less favorable.

The issuance of additional debt will require increases in the contribution to the Debt Service Fund, as shown below. Staff is proposing gradual increases over the next four years to reach a funding level of \$3.45 million, from the current \$2.95 million. This will ensure the City remains compliant with its debt service policy, which requires maintenance of a reserve balance equal to one year’s debt service payments. The remainder of the funds needed for capital improvements will be provided by a combination of direct project funding, Public Works Project Fees, and intergovernmental sources.

Fiscal Year	Direct Project Funding	Transfer to Debt Service Fund	Total General Fund Related Support
2019	\$ 15,380,000	\$ 2,950,000	\$ 18,330,000
2020	23,450,000	3,100,000	26,550,000
2021	15,670,000	3,250,000	18,920,000
2022	5,585,000	3,350,000	8,935,000
2023	11,395,000	3,450,000	14,845,000
2024	5,995,000	3,450,000	9,445,000
<b>Total</b>	<b>\$ 77,475,000</b>	<b>\$ 19,550,000</b>	<b>\$ 97,025,000</b>

The City’s Water and Sewer Fund is not expected to require additional debt to be issued within the six-year planning horizon of the Capital Improvements Program. This is largely due to the planned rate increases approved in FY 2017 in conjunction with the Water and Sewer Rate Study. Should regulatory conditions change or currently anticipated projects change in scope, additional debt may be necessary to support those improvements.

The Capital Improvements Program will be reevaluated and updated annually considering new priorities, revised costs, revenue trends, and other economic factors.

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

**RESOLUTION 2018-23**

**A RESOLUTION TO ADOPT A CAPITAL IMPROVEMENTS PROGRAM FOR THE CITY OF BRENTWOOD FOR THE FISCAL YEARS 2019-2024**

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

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

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

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

**SECTION 1.** That the proposed Capital Improvements Program, establishing projects to be accomplished during fiscal years 2019-2024, is hereby adopted as a guideline for Brentwood city government.

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

\_\_\_\_\_  
MAYOR Jill Burgin

ADOPTED: June 25, 2018

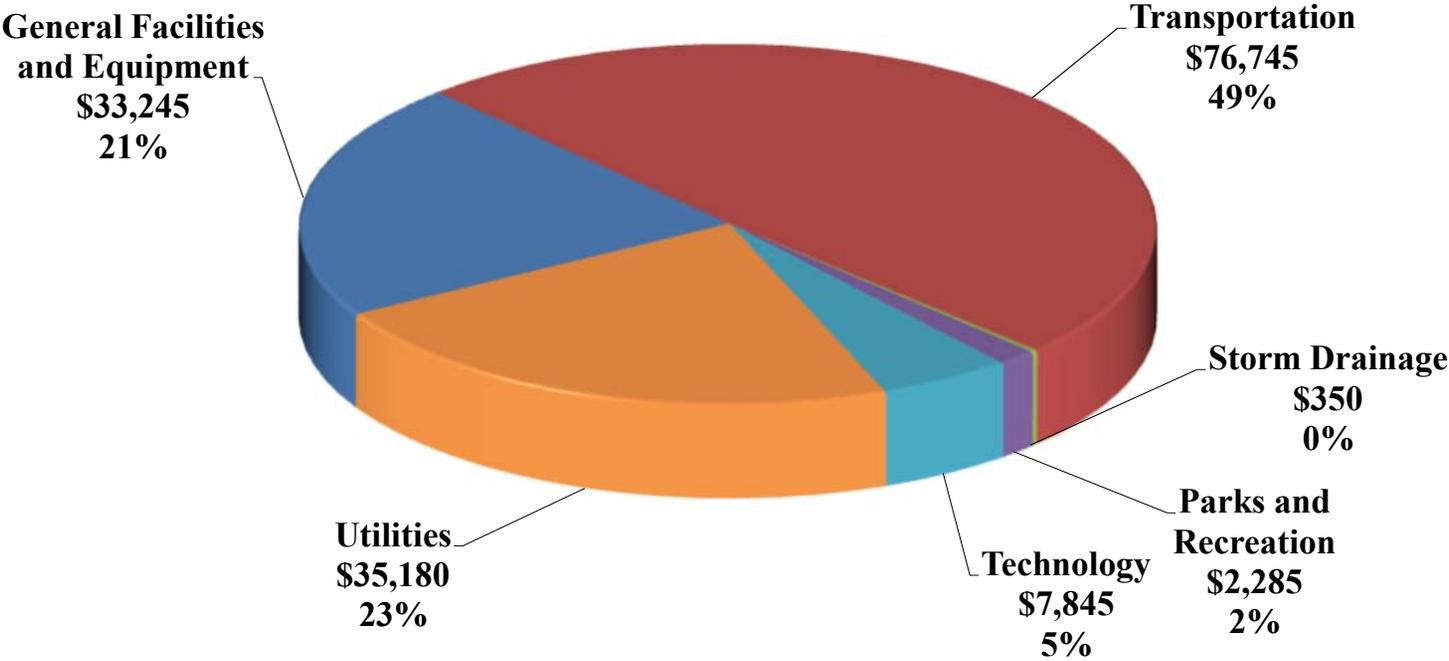
*Approved as to form:*

\_\_\_\_\_  
RECORDER Holly Earls

\_\_\_\_\_  
CITY ATTORNEY Kristen Corn

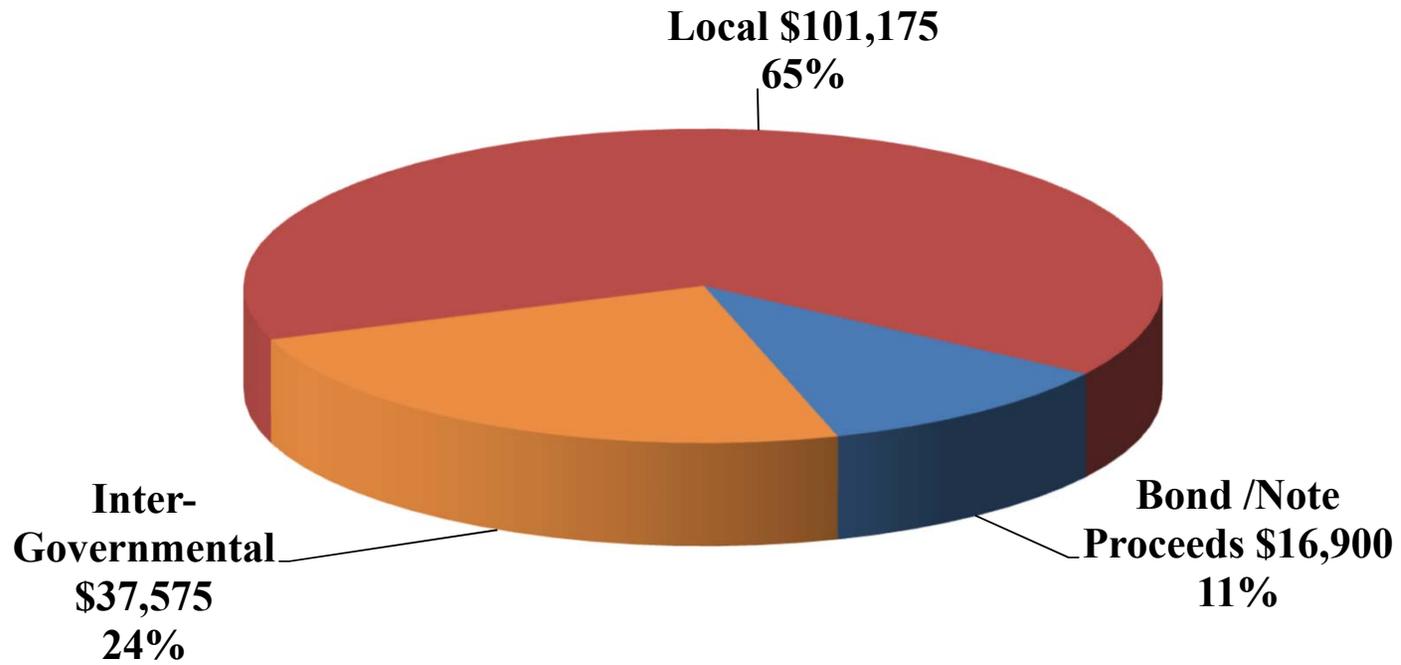
## **SUMMARIES**

**City of Brentwood, Tennessee  
Capital Improvements Program  
Fiscal Years 2019-2024  
Program Expenditures  
(000's)**



**Total for All Programs  
\$155,650**

**City of Brentwood, Tennessee  
Capital Improvements Program  
Fiscal Years 2019-2024  
Funding by Source  
(000's)**



**Total for All Programs  
\$155,650**

**City of Brentwood, Tennessee  
Capital Improvements Program  
Fiscal Year 2019 - 2024  
Program Expenditures - Summary  
(000's)**

<b><u>Program</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
General Facilities and Equipment	2,185	4,665	19,160	4,320	2,280	2,075	745	33,245
Technology	3,235	4,230	1,525	630	540	260	660	7,845
Transportation	19,035	18,345	18,295	18,940	3,945	10,875	6,345	76,745
Storm Drainage	100	100	50	50	50	50	50	350
Parks and Recreation	1,335	780	170	175	470	565	125	2,285
Utilities	2,785	9,105	9,360	5,015	3,770	3,860	4,070	35,180
<b>Grand Total</b>	<b>28,675</b>	<b>37,225</b>	<b>48,560</b>	<b>29,130</b>	<b>11,055</b>	<b>17,685</b>	<b>11,995</b>	<b>155,650</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Sources of Funds - Summary**  
**(000's)**

<u>Source</u>	Projected FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Total 6 Years 2019-24
Capital Projects Fund	7,475	11,995	2,480	5,270	-	-	-	19,745
Emergency Communications District Fund	-	-	-	-	-	-	-	-
Equipment Replacement Division	1,205	2,000	1,310	1,230	1,455	1,775	985	8,755
Facilities Maintenance Division	365	345	345	350	395	340	300	2,075
General Fund	850	810	3,845	2,860	3,045	4,210	4,540	19,310
General Fund (Unrestricted Balance)	1,400	-	3,300	5,760	-	-	-	9,060
General Obligation Bond Proceeds	3,500	-	12,000	-	-	4,900	-	16,900
Municipal Center Fund	380	230	170	200	690	170	170	1,630
Private Sources	160	5	5	100	5	635	5	755
Public Works Project Fee Fund	600	1,000	3,750	-	-	-	-	4,750
Inter-Governmental Sources	8,450	10,500	10,500	6,835	-	-	-	27,835
State Street Aid Fund	1,140	1,240	1,500	1,600	1,700	1,800	1,900	9,740
Water and Sewer Fund	935	5,165	1,415	1,715	1,630	2,975	3,405	16,305
Water Tap Fees and NCGUD Grove Tap Fees	305	760	1,440	2,280	2,095	800	350	7,725
Sewer Tap Fees	1,910	3,175	6,500	930	40	80	340	11,065
Water & Sewer Bond/Note Proceeds	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>28,675</b>	<b>37,225</b>	<b>48,560</b>	<b>29,130</b>	<b>11,055</b>	<b>17,685</b>	<b>11,995</b>	<b>155,650</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Summary - All Projects**

(000's)

	Projected FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Total 6 Years 2019-2024
<b>General Facilities</b>								
Community Identity Features	-	30	15	15	15	15	15	105
Community Planning	50	40	-	50	-	50	-	140
Equipment/Vehicles	800	1,425	775	730	950	1,515	435	5,830
Fire Stations	-	575	75	-	-	200	-	850
Library	375	50	50	50	50	50	50	300
Municipal Center	380	170	170	200	690	170	170	1,570
Park Operations Facility	35	-	100	2,050	-	-	-	2,150
Police Headquarters	300	2,300	16,600	1,150	-	-	-	20,050
Safety Center East	95	25	25	25	25	25	25	150
Service Center	150	50	50	50	550	50	50	800
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
<b>Total - General Facilities</b>	<b>2,185</b>	<b>4,665</b>	<b>19,160</b>	<b>4,320</b>	<b>2,280</b>	<b>2,075</b>	<b>745</b>	<b>33,245</b>
<b>Technology</b>								
Computer Equipment	405	675	570	460	480	245	550	2,980
Emergency Communications Center	155	-	-	-	-	-	-	-
Fiber Optic Network	65	35	-	85	-	-	-	120
GIS	70	-	-	45	-	-	75	120
Radio System	2,500	3,000	-	-	-	-	-	3,000
Security System	-	400	100	-	-	-	-	500
Software Systems	40	120	820	40	25	15	-	1,020
Warning Sirens	-	-	35	-	35	-	35	105
<b>Total - Technology</b>	<b>3,235</b>	<b>4,230</b>	<b>1,525</b>	<b>630</b>	<b>540</b>	<b>260</b>	<b>660</b>	<b>7,845</b>
<b>Transportation</b>								
ADA Retrofits	-	-	100	200	200	-	-	500
Bike and Pedestrian Projects	280	950	350	350	350	350	350	2,700
Bridges	-	200	-	-	-	-	-	200
Crockett Road	975	-	-	-	-	-	-	-
Franklin Road (south section)	8,565	11,160	10,500	6,835	-	-	-	28,495
Mallory Lane	75	-	500	-	-	-	-	500
McEwen Drive	-	-	-	8,960	-	630	-	9,590
Ragsdale Road	-	-	-	-	700	7,100	3,100	10,900
Split Log Road	140	345	-	-	-	-	-	345
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,200	2,300	2,300	2,400	2,500	2,600	2,700	14,800

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Summary - All Projects**  
**(000's)**

	Projected FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Total 6 Years 2019-2024
<b>Tranportation (cont'd)</b>								
Sunset Road	340	2,145	4,350	-	-	-	-	6,495
Sunset-Ragsdale Realignment	6,120	1,075	-	-	-	-	-	1,075
Traffic Signal Upgrades	340	170	175	175	175	175	175	1,045
<b>Total - Transportation</b>	<b>19,035</b>	<b>18,345</b>	<b>18,295</b>	<b>18,940</b>	<b>3,945</b>	<b>10,875</b>	<b>6,345</b>	<b>76,745</b>
<b>Storm Drainage</b>								
Johnson Chapel Road	50	-	-	-	-	-	-	-
Shenandoah Drive	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
<b>Total - Storm Drainage</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>350</b>
<b>Parks/Recreation</b>								
Crockett Park	115	215	90	75	250	475	75	1,180
Deerwood Arboretum	-	-	40	-	-	-	-	40
Flagpole & Wikle Parks	20	-	-	-	-	-	-	-
Granny White Park	-	15	35	100	145	30	50	375
Marcella Vivrette Smith Park	1,190	325	-	-	75	-	-	400
Maryland Way Park	-	150	-	-	-	-	-	150
Owl Creek Park	-	75	-	-	-	60	-	135
River Park	10	-	5	-	-	-	-	5
<b>Total - Parks/Recreation</b>	<b>1,335</b>	<b>780</b>	<b>170</b>	<b>175</b>	<b>470</b>	<b>565</b>	<b>125</b>	<b>2,285</b>
<b>Utilities</b>								
Meter Reading Program Upgrade	220	2,235	-	-	-	-	-	2,235
Miscellaneous Sewer Service Additions	-	45	105	455	45	45	45	740
Miscellaneous Sewer System Improvements	75	930	235	110	110	110	110	1,605
Miscellaneous Water System Improvements	190	175	110	110	110	110	110	725
Sewer Rehabilitation Program	1,910	2,035	575	575	575	575	575	4,910
Sewer System Capacity Improvements	-	1,100	6,400	575	-	40	300	8,415
Sewer Lift Station Rehabilitation	35	410	230	-	-	-	-	640
Water Line Replacement Program	50	1,415	265	910	835	580	580	4,585
Water System Capacity Improvements	305	760	1,440	2,280	2,095	2,400	2,350	11,325
<b>Total - Utilities</b>	<b>2,785</b>	<b>9,105</b>	<b>9,360</b>	<b>5,015</b>	<b>3,770</b>	<b>3,860</b>	<b>4,070</b>	<b>35,180</b>
<b>TOTALS</b>	<b>28,675</b>	<b>37,225</b>	<b>48,560</b>	<b>29,130</b>	<b>11,055</b>	<b>17,685</b>	<b>11,995</b>	<b>155,650</b>

**City of Brentwood, Tennessee  
Capital Improvements Program  
Fiscal Year 2019-2024  
General Facilities and Equipment Program - Summary  
(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Community Identity Features	-	30	15	15	15	15	15	105
Community Planning	50	40	-	50	-	50	-	140
Equipment/Vehicles	800	1,425	775	730	950	1,515	435	5,830
Fire Stations	-	575	75	-	-	200	-	850
Library	375	50	50	50	50	50	50	300
Municipal Center	380	170	170	200	690	170	170	1,570
Park Operations Facility	35	-	100	2,050	-	-	-	2,150
Police Headquarters	300	2,300	16,600	1,150	-	-	-	20,050
Safety Center East	95	25	25	25	25	25	25	150
Service Center	150	50	50	50	550	50	50	800
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
<b>Grand Total</b>	<b>2,185</b>	<b>4,665</b>	<b>19,160</b>	<b>4,320</b>	<b>2,280</b>	<b>2,075</b>	<b>745</b>	<b>33,245</b>

**Source of Funds**

Capital Projects Fund	495	2,945	1,400	2,050	-	-	-	6,395
General Fund	40	-	1,390	1,215	515	265	15	3,400
General Fund - Unrestricted Balance	-	-	3,300	-	-	-	-	3,300
G O Bond Proceeds	-	-	12,000	-	-	-	-	12,000
Equipment Replacement Division	800	1,425	775	730	950	1,515	435	5,830
Facilities Maintenance Division	355	125	125	125	125	125	125	750
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	380	170	170	200	690	170	170	1,570
Private Sources	115	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>2,185</b>	<b>4,665</b>	<b>19,160</b>	<b>4,320</b>	<b>2,280</b>	<b>2,075</b>	<b>745</b>	<b>33,245</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Technology Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-24</b>
Computer Equipment	405	675	570	460	480	245	550	2,980
Emergency Communications Center	155	-	-	-	-	-	-	-
Fiber Optic Network	65	35	-	85	-	-	-	120
GIS	70	-	-	45	-	-	75	120
Radio System	2,500	3,000	-	-	-	-	-	3,000
Security System	-	400	100	-	-	-	-	500
Software Systems	40	120	820	40	25	15	-	1,020
Warning Sirens	-	-	35	-	35	-	35	105
<b>Grand Total</b>	<b>3,235</b>	<b>4,230</b>	<b>1,525</b>	<b>630</b>	<b>540</b>	<b>260</b>	<b>660</b>	<b>7,845</b>

**Source of Funds**

Capital Projects Fund	2,800	3,595	80	20	-	-	-	3,695
General Fund	-	-	910	100	35	-	80	1,125
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	405	575	535	500	505	260	550	2,925
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	60	-	-	-	-	-	60
Water and Sewer Fund	30	-	-	10	-	-	30	40
ECD Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>3,235</b>	<b>4,230</b>	<b>1,525</b>	<b>630</b>	<b>540</b>	<b>260</b>	<b>660</b>	<b>7,845</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Transportation - Summary**  
**(000's)**

<b>Projects</b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
ADA Retrofits	-	-	100	200	200	-	-	500
Bike and Pedestrian Projects	280	950	350	350	350	350	350	2,700
Bridges	-	200	-	-	-	-	-	200
Crockett Road	975	-	-	-	-	-	-	-
Franklin Road (south section)	8,565	11,160	10,500	6,835	-	-	-	28,495
Mallory Lane	75	-	500	-	-	-	-	500
McEwen Drive	-	-	-	8,960	-	630	-	9,590
Ragsdale Road	-	-	-	-	700	7,100	3,100	10,900
Split Log Road	140	345	-	-	-	-	-	345
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,200	2,300	2,300	2,400	2,500	2,600	2,700	14,800
Sunset Road	340	2,145	4,350	-	-	-	-	6,495
Sunset-Ragsdale Realignment	6,120	1,075	-	-	-	-	-	1,075
Traffic Signal Upgrades	340	170	175	175	175	175	175	1,045
<b>Grand Total</b>	<b>19,035</b>	<b>18,345</b>	<b>18,295</b>	<b>18,940</b>	<b>3,945</b>	<b>10,875</b>	<b>6,345</b>	<b>76,745</b>

**Source of Funds**

Capital Projects Fund	2,825	4,795	1,000	3,200	-	-	-	8,995
General Fund	760	760	1,495	1,495	2,195	3,495	4,395	13,835
General Fund - Unrestricted Balance	1,400	-	-	5,760	-	-	-	5,760
G O Bond Proceeds	3,500	-	-	-	-	4,900	-	4,900
Facilities Maintenance Division	-	50	50	50	50	50	50	300
Private Sources	25	-	-	-	-	630	-	630
Public Works Project Fund	600	1,000	3,750	-	-	-	-	4,750
Inter-Governmental Sources	8,450	10,500	10,500	6,835	-	-	-	27,835
State Street Aid Fund	1,140	1,240	1,500	1,600	1,700	1,800	1,900	9,740
Water and Sewer Fund	335	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>19,035</b>	<b>18,345</b>	<b>18,295</b>	<b>18,940</b>	<b>3,945</b>	<b>10,875</b>	<b>6,345</b>	<b>76,745</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Storm Drainage Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Johnson Chapel Road	50	-	-	-	-	-	-	-
Shenandoah Drive	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
<b>Grand Total</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>350</b>

**Source of Funds**

Capital Projects Fund	50	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>350</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Parks and Recreation Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Crockett Park	115	215	90	75	250	475	75	1,180
Deerwood Arboretum	-	-	40	-	-	-	-	40
Flagpole & Wikle Parks	20	-	-	-	-	-	-	-
Granny White Park	-	15	35	100	145	30	50	375
Marcella Vivrette Smith Park	1,190	325	-	-	75	-	-	400
Maryland Way Park	-	150	-	-	-	-	-	150
Owl Creek Park	-	75	-	-	-	60	-	135
River Park	10	-	5	-	-	-	-	5
<b>Grand Total</b>	<b>1,335</b>	<b>780</b>	<b>170</b>	<b>175</b>	<b>470</b>	<b>565</b>	<b>125</b>	<b>2,285</b>
<b><u>Source of Funds</u></b>								
Capital Projects Fund	1,305	610	-	-	-	-	-	610
General Fund	-	-	-	-	250	400	-	650
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Facilities Maintenance Division	10	170	170	175	220	165	125	1,025
Private Sources	20	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>1,335</b>	<b>780</b>	<b>170</b>	<b>175</b>	<b>470</b>	<b>565</b>	<b>125</b>	<b>2,285</b>

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Water and Sewer Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b><u>Projected FY 2018</u></b>	<b><u>FY 2019</u></b>	<b><u>FY 2020</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024</u></b>	<b><u>Total 6 Years 2019-2024</u></b>
Meter Reading Program Upgrade	220	2,235	-	-	-	-	-	2,235
Miscellaneous Sewer Service Additions	-	45	105	455	45	45	45	740
Miscellaneous Sewer System Improvements	75	930	235	110	110	110	110	1,605
Miscellaneous Water System Improvements	190	175	110	110	110	110	110	725
Sewer Rehabilitation Program	1,910	2,035	575	575	575	575	575	4,910
Sewer System Capacity Improvements	-	1,100	6,400	575	-	40	300	8,415
Sewer Lift Station Rehabilitation	35	410	230	-	-	-	-	640
Water Line Replacement Program	50	1,415	265	910	835	580	580	4,585
Water System Capacity Improvements	305	760	1,440	2,280	2,095	2,400	2,350	11,325
<b>Grand Total</b>	<b>2,785</b>	<b>9,105</b>	<b>9,360</b>	<b>5,015</b>	<b>3,770</b>	<b>3,860</b>	<b>4,070</b>	<b>35,180</b>

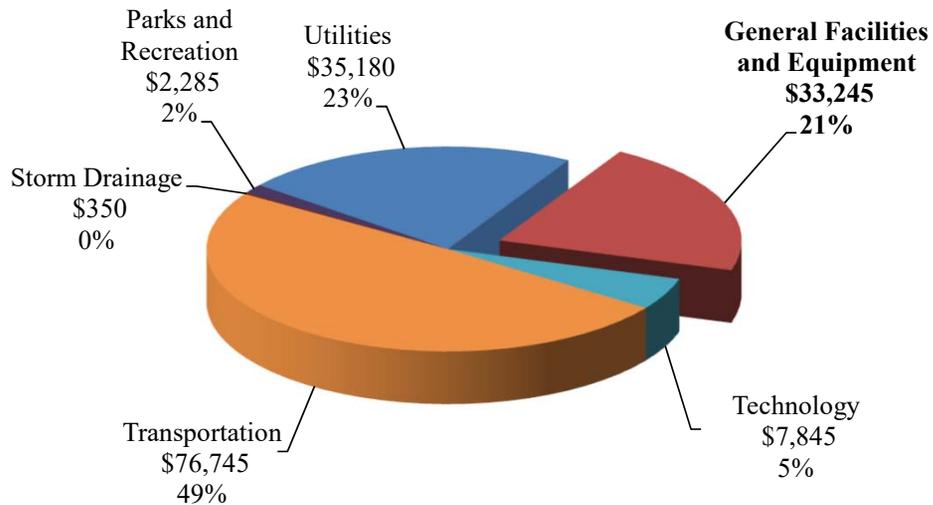
**Source of Funds**

Water and Sewer Fund	570	5,165	1,415	1,705	1,630	2,975	3,375	16,265
Water Tap Fees and NCGUD Grove Tap Fees	305	760	1,440	2,280	2,095	800	350	7,725
Sewer Tap Fees	1,910	3,175	6,500	930	40	80	340	11,065
Private Sources	-	5	5	100	5	5	5	125
Water and Sewer Bond/Note Proceeds	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>2,785</b>	<b>9,105</b>	<b>9,360</b>	<b>5,015</b>	<b>3,770</b>	<b>3,860</b>	<b>4,070</b>	<b>35,180</b>

# **GENERAL FACILITIES and EQUIPMENT**

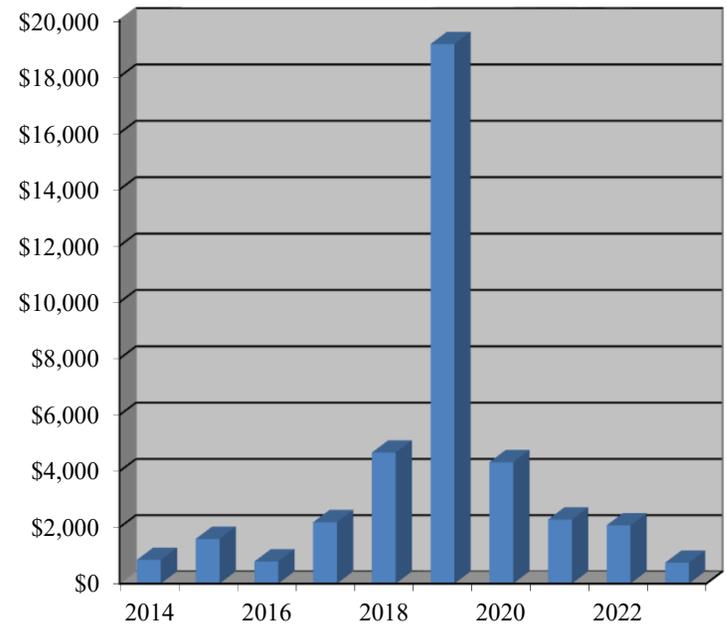
# GENERAL FACILITIES AND EQUIPMENT

## FISCAL YEARS 2019-2024



Amounts in 000's

General Facilities Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee  
Capital Improvements Program  
Fiscal Year 2019-2024  
General Facilities and Equipment Program - Summary  
(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Community Identity Features	-	30	15	15	15	15	15	105
Community Planning	50	40	-	50	-	50	-	140
Equipment/Vehicles	800	1,425	775	730	950	1,515	435	5,830
Fire Stations	-	575	75	-	-	200	-	850
Library	375	50	50	50	50	50	50	300
Municipal Center	380	170	170	200	690	170	170	1,570
Park Operations Facility	35	-	100	2,050	-	-	-	2,150
Police Headquarters	300	2,300	16,600	1,150	-	-	-	20,050
Safety Center East	95	25	25	25	25	25	25	150
Service Center	150	50	50	50	550	50	50	800
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
<b>Grand Total</b>	<b>2,185</b>	<b>4,665</b>	<b>19,160</b>	<b>4,320</b>	<b>2,280</b>	<b>2,075</b>	<b>745</b>	<b>33,245</b>

**Source of Funds**

Capital Projects Fund	495	2,945	1,400	2,050	-	-	-	6,395
General Fund	40	-	1,390	1,215	515	265	15	3,400
General Fund - Unrestricted Balance	-	-	3,300	-	-	-	-	3,300
G O Bond Proceeds	-	-	12,000	-	-	-	-	12,000
Equipment Replacement Division	800	1,425	775	730	950	1,515	435	5,830
Facilities Maintenance Division	355	125	125	125	125	125	125	750
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	380	170	170	200	690	170	170	1,570
Private Sources	115	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>2,185</b>	<b>4,665</b>	<b>19,160</b>	<b>4,320</b>	<b>2,280</b>	<b>2,075</b>	<b>745</b>	<b>33,245</b>

<b>PROJECT</b>	Community Identity Features	<b>Account #</b>	311-45200-5026
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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** Funding was provided in FY 2018 for an entrance sign at the corner of Concord Road and Forest Trail at the eastern city limits. Since a decision on the design of new entrance signs has not yet been made, the 2018 funding is carried forward to 2019 for a total of \$30,000 available for entrance signs. Funding is allocated in future years for beautification projects as identified.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Construction		30	15	15	15	15	15	105
<b>TOTAL EXPENDITURES</b>	-	30	15	15	15	15	15	105
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		30						30
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								
<b>TOTAL FUNDS</b>	-	30	15	15	15	15	15	105

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**JUSTIFICATION**

**The provision of community identity features is an objective in the Brentwood 2030 Plan. The goal is to provide clear, attractive and distinct features to help distinguish Brentwood from the surrounding communities.**

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<b>PROJECT</b>	Community Planning	<b>Account #</b>	311-45200-5009
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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. Other studies related to planning efforts are also included herein.

**STATUS** Funding of was provided in FY 2018 for the Special Census (\$40,000), which was completed in the spring. Any additional revenue generated from the census will be realized in FY 2019. FY 2018 also included funding (\$50,000) 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. This project will carry over (\$40,000) to FY 2019. There is \$50,000 allocated in FY 2021 for a minor update to the Brentwood 2030 Plan, if deemed necessary, and another special census is anticipated in FY 2023 (\$50,000).

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Consultant Services	10	40		50				90
Special Census	40					50		50
<b>TOTAL EXPENDITURES</b>	50	40	-	50	-	50	-	140
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	10	40						40
General Fund	40			50		50		100
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								
<b>TOTAL FUNDS</b>	50	40	-	50	-	50	-	140

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**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. Funding for periodic special censuses insures the City receives its appropriate share of state shared revenues that are distributed on a per capita basis.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services  
Operating Expenditures  
Debt Service

**ANNUAL OPERATING BUDGET IMPACT (000'S):**

0

**OFFSETTING REVENUE:**

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

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**PROJECT** Equipment/Vehicles Account # 310-43120-89520 (PW), 310-42200-89520 (Fire), 310-44400-89520 (Parks), 310-42100-89520 (Police) 311-45200-5027

**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** FY 2018 expenditures included a chipper truck (\$88,000), gradeall (\$367,000), and an additional chipper machine (\$40,000) in Public Works, as well as nine (9) replacement vehicles in the Police Department (\$305,000).

FY 2019 proposes replacement of (2) chipper trucks (\$180,000), chipper machine (\$45,000), a replacement for fire engine 3 with a ladder (\$900,000), and eight (8) vehicles in the Police Department (\$300,000). The latter will include six (6) in Patrol, one DARE vehicle, and one in administration. One of the two chipper trucks is carried-forward from FY 2018 because it was not delivered by June 30, 2018. Since the chipper machine was not previously included in the Equipment Replacement Fund, a special year-end transfer of \$45,000 from FY 2018 General Fund excess revenues to the Equipment Replacement Fund will be required.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Public Works Vehicles	495	225	265	105	295	340	50	1,280
Fire Pumper/Ladder		900				865		1,765
Parks Equipment				60	75			135
Police Vehicles	305	300	510	565	580	310	385	2,650
Misc. Equipment								
<b>TOTAL EXPENDITURES</b>	<b>800</b>	<b>1,425</b>	<b>775</b>	<b>730</b>	<b>950</b>	<b>1,515</b>	<b>435</b>	<b>5,830</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	800	1,425	775	730	950	1,515	435	5,830
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>800</b>	<b>1,425</b>	<b>775</b>	<b>730</b>	<b>950</b>	<b>1,515</b>	<b>435</b>	<b>5,830</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services  
Operating Expenditures  
Debt Service

**ANNUAL OPERATING BUDGET IMPACT (000'S):** 0

(routine replacement helps reduce annual maintenance and repair costs)

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	<b>Fire Stations</b>	<b>Account #</b>	<b>311-45200-5018</b>
<b>PROGRAM</b>	<b>General Facilities &amp; Equipment</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Fire Rescue</b>

**DESCRIPTION** This project provides for minor expansion, renovations and other upgrades to the Brentwood fire stations, as well as planning, acquisition, and construction of a new Fire Station No. 5.

**STATUS** FY 2019 funding provides for the resurfacing of the bay floors (\$75,000) in Fire Stations 1 and 2, with similar funding in FY 2020 for Stations 3 and 4. The resurfacing will improve walkability in wet conditions by providing a non-slip epoxy coating. FY 2019 also includes \$500,000 for possible site acquisition for the future Fire Station No. 5. Improvements in FY 2019 are subject to a \$575,000 FY 2018 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. Future funding is provided in FY 2023 for design services related to construction of Station No. 5, the exact timing of which is still to be determined.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Land Acquisition		500						500
Architectural Services						200		200
Construction								
Facility Maintenance		75	75					150
Equipment								
<b>TOTAL EXPENDITURES</b>	-	575	75	-	-	200	-	850
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		575						575
General Fund			75			200		275
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								
<b>TOTAL FUNDS</b>	-	575	75	-	-	200	-	850

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**JUSTIFICATION**

**Minor expansion and renovation to the City's older fire stations is needed from time to time to improve the functionality and safety of working, living and sleeping arrangements and to extend the life of the facilities. The department's strategic plan identifies a future Station No. 5 as a needed facility in the vicinity of Split Log Road and Ragsdale Road to ensure appropriate response times in the growing area of the community.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services (six additional firefighters for Station 5)</b>	<b>360</b>
<b>Operating Expenditures</b>	<b>60</b>
<b>Debt Service</b>	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b>420</b>
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**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Library	<b>Account #</b>	311-45200-5002 312-44800-89600 (Facilities Maintenance)
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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** The City spent \$105,000 on the older sections of the flat roof in FY 2018. Those improvements come with a 5-year warranty. An evaluation of the asphalt shingle portions indicates they can be re-evaluated each year to determine the scheduling of replacement. FY 2018 also reflects the cost of the meeting room renovation project (\$140,000) with approximately \$115,000 of the project funded by the Library Foundation. Also in FY 2018, the audio/visual systems in the Meeting Rooms were replaced for \$57,000, and the exterior trim was repainted at a cost of approximately \$45,000. A placeholder of \$50,000 from the Facility Maintenance Fund is provided in FY 2019 and future years for extraordinary building maintenance items.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Architectural Services								
Construction	140							
Facility Maintenance	155	50	50	50	50	50	50	300
Equipment	80							
<b>TOTAL EXPENDITURES</b>	<b>375</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>300</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	80							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	180	50	50	50	50	50	50	300
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources	115							
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>375</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>300</b>

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**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 roof on the original portion of the library is approximately 20 years old and is now experiencing frequent leaks, necessitating replacement.**

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**PROGRAM AND FACILITY COSTS:**

**Personnel Services  
Operating Expenditures  
Debt Service**

**ANNUAL OPERATING BUDGET IMPACT (000'S):**

**0**

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	<b>Municipal Center</b>	<b>Account #</b>	<b>434-16200</b>
<b>PROGRAM</b>	<b>General Facilities &amp; Equipment</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Finance</b>
<b>DESCRIPTION</b>	<p>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 30+ year old building was oversized in the beginning to allow for future expansion by City departments. A limited amount of surplus space was leased to a private tenant until there was a need for more public space.</p>		
<b>STATUS</b>	<p>FY 2018 funding was provided for renovation of the Municipal Center roof (\$280,000). That project included a 10 year warranty with an option to renew for 5 years. Future year funding (\$170,000) is provided as a placeholder for extraordinary repairs. A major renovation of the Planning and Codes space (\$500,000) is funded in FY 2022 in anticipation of the Police Department moving into a new headquarters facility and reprogramming of the vacated space. Design services for this renovation are programmed in FY 2021.</p>		

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Construction	380	150	150	150	650	150	150	1,400
Architectural Services		20	20	50	40	20	20	170
Consultant Services								
<b>TOTAL EXPENDITURES</b>	<b>380</b>	<b>170</b>	<b>170</b>	<b>200</b>	<b>690</b>	<b>170</b>	<b>170</b>	<b>1,570</b>
<b>SOURCE OF FUNDS</b>								
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	380	170	170	200	690	170	170	1,570
Private Sources								
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>380</b>	<b>170</b>	<b>170</b>	<b>200</b>	<b>690</b>	<b>170</b>	<b>170</b>	<b>1,570</b>

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**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 provided for enhanced public service capabilities within the lobby and a state of the art emergency communications center. Further renovations, including those needed for the Planning and Codes office area and locker rooms, have been placed on hold pending the outcome of the Police Department's headquarters space needs/site suitability analysis.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>15</b>
<b>Debt Service</b>	

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

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Park Operations Facility	<b>Account #</b>	311-45200-5029
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
<b>DESCRIPTION</b>	This project provides for site selection, design, and construction of a Park Operations Facility to house all Parks Department staff. Priority sites will be centrally located within the City and close to (or within) the City's larger parks.		
<b>STATUS</b>	FY 2018 funding provided for architecture/engineering services to assist with site selection, prepare cost estimates, and preliminary design for the new facility (\$35,000). Assuming a suitable site is identified and approved by the City Commission, full design is anticipated in FY 2020 (\$100,000), with construction in FY 2021 (\$2,050).		

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Planning/Engineering	35		100	50				150
Buildings, Facilities, etc.				1,900				1,900
Furniture/Equipment				100				100
Landscaping/Trees								
<b>TOTAL EXPENDITURES</b>	<b>35</b>	<b>-</b>	<b>100</b>	<b>2,050</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,150</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	35		100	2,050				2,150
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								
<b>TOTAL FUNDS</b>	<b>35</b>	<b>-</b>	<b>100</b>	<b>2,050</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,150</b>

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**JUSTIFICATION**

The Parks Department operations are currently split between two facilities. The administrative offices and main staff functions, including vehicle storage, etc. are at the Service Center on General George Patton Drive, while most park equipment (mowers, etc.) is stored in an unheated maintenance shed at Crockett Park. Having all Parks Department functions more centrally located within a park creates more efficiency for the department and also frees up needed office and yard space at the Service Center.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	45
Debt Service	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<u>45</u>
(Building operation costs including utilities, maintenance, etc.)	

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	<b>Police Headquarters</b>	<b>Account #</b>	<b>311-45200-5028</b>
<b>PROGRAM</b>	<b>General Facilities &amp; Equipment</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Police</b>

**DESCRIPTION** This project provides for the possible design and construction of a new headquarters facility for the Police Department on property owned by the City of Brentwood located at 940 Heritage Way. It is anticipated that all department operations would relocate the new facility.

**STATUS** Funding was provided in FY 2018 (\$300,000) for a detailed space-needs analysis, preliminary site investigations, and a more refined cost estimate for the possible new facility in order to provide the City Commission with sufficient information to make a final decision about moving forward with the project. This work is expected to be completed by the end of FY 2018. Preliminary estimates indicate a \$20,050,000 project cost, inclusive of architectural design services. If the project proceeds, plans will be prepared in FY 2019 with construction beginning late in the fiscal year. Funding anticipates a combination of a \$12M G.O. bond issue in FY 2020, use of 4.75M in excess General Fund revenues transferred to the Capital Projects Fund between 2018 and 2020, and utilization of \$3.3M in unrestricted fund balance from the General Fund.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Construction		1,000	16,300	1,000				18,300
Design Services	300	1,300	300	150				1,750
Consultant Services								
<b>TOTAL EXPENDITURES</b>	<b>300</b>	<b>2,300</b>	<b>16,600</b>	<b>1,150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,050</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	300	2,300						2,300
General Fund			1,300	1,150				2,450
General Fund (Unrestricted Balance)			3,300					3,300
G O Bond Proceeds			12,000					12,000
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>300</b>	<b>2,300</b>	<b>16,600</b>	<b>1,150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,050</b>

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**JUSTIFICATION**

When the Municipal Center 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. Though the renovation projects completed in FY 2012 improved space utilization and layout within the building, long-term storage and office space needs for all departments will be severely challenged. Police operations are currently split, with patrol functions on the east end of the building and all other functions on the west end of the building. Security for police functions is severely lacking. Consolidation of Police department operations in a new facility would provide operational efficiencies for the department and alleviate space constraints at the Municipal Center.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	-
Operating Expenditures	400
Debt Service	920

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b><u>1,320</u></b>
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(Operating costs are generalized estimates and will be further identified during the next planning phase)

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Safety Center East	<b>Account #</b>	311-45200-5014 (Safety Center East CIP) 312-42200-89600 (Facilities Maintenance)
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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** FY 2018 funding (\$70,000) provided for construction of a covered storage facility at the northeast corner of the training grounds. In FY 2019 and future years, Facilities Maintenance funding in the amount of \$25,000 is programmed annually for extraordinary repair projects that may arise during the year.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Design Services								
Construction	70							
Facility Maintenance	25	25	25	25	25	25	25	150
<b>TOTAL EXPENDITURES</b>	<b>95</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>150</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	70							
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								
<b>TOTAL FUNDS</b>	<b>95</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>150</b>



<b>PROJECT</b>	Service Center	Account #	311-45200-5005 312-43170-89600 (Facilities Maintenance)
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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 2018 funding provided for repaving of the maintenance and storage yard (\$150,000), which is expected to be complete by fiscal year end. Funding in FY 2022 (\$500,000) is provided for interior renovations subsequent to the Parks Department relocating to a newly constructed facility. For FY's 2019 - 2024, funding is provided for extraordinary repairs and maintenance as may be required for this 25 year old facility.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Design Services					35			35
Construction	150				465			465
Facility Maintenance		50	50	50	50	50	50	300
<b>TOTAL EXPENDITURES</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>550</b>	<b>50</b>	<b>50</b>	<b>800</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund					500			500
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	150	50	50	50	50	50	50	300
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>550</b>	<b>50</b>	<b>50</b>	<b>800</b>

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**JUSTIFICATION**

**This 25 year-old facility requires periodic repairs and improvements to ensure effective operation and to protect the City's investment.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	<b>0</b>
<b>Operating Expenditures</b>	<b>0</b>
<b>Debt Service</b>	

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

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<b>PROJECT</b>	Town Center Improvements	<b>Account #</b>	311-45200-5013
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
<b>DESCRIPTION</b>	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.		
<b>STATUS</b>	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 2019. FY 2020 funding is programmed to reflect these funds being reserved should an appropriate project in the Town Center area be identified.		

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Land Acquisition								
Construction			1,300					1,300
<b>TOTAL EXPENDITURES</b>	-	-	1,300	-	-	-	-	1,300
<b>SOURCE OF FUNDS</b>								
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								
<b>TOTAL FUNDS</b>	-	-	1,300	-	-	-	-	1,300

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	
<b>Debt Service</b>	<b>0</b>

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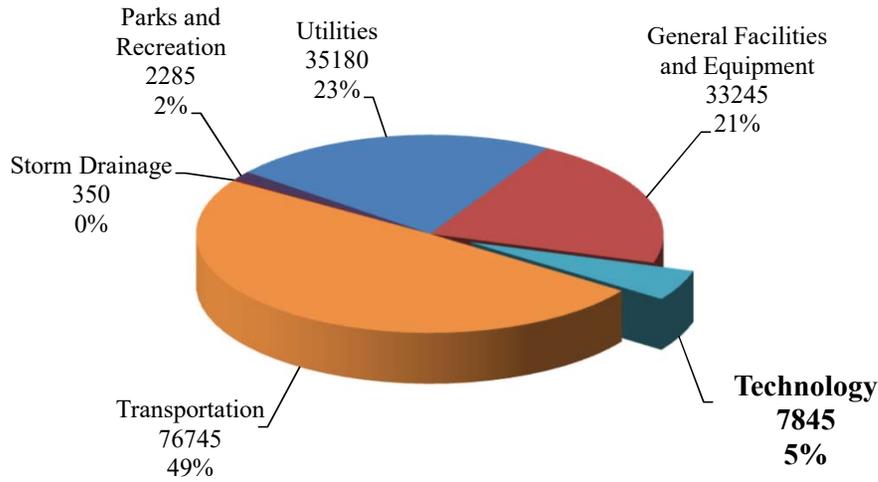
**OFFSETTING REVENUE:**

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**TECHNOLOGY**

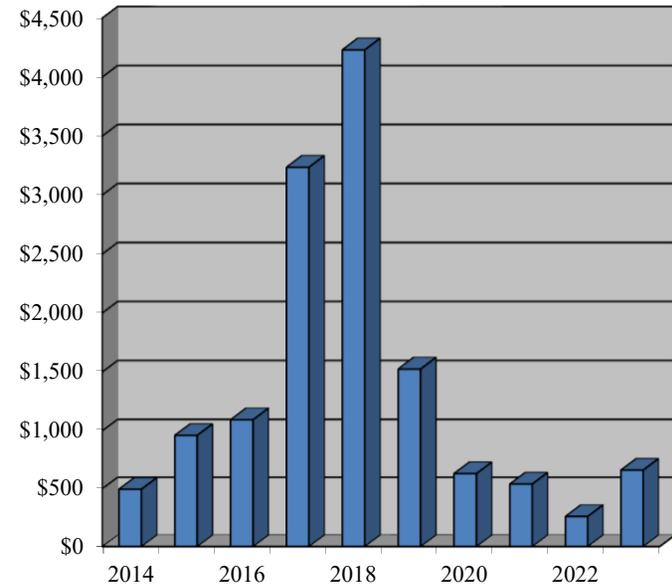
# TECHNOLOGY

## FISCAL YEARS 2019-2024



Amounts in 000's

### Technology Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Technology Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-24</b>
Computer Equipment	405	675	570	460	480	245	550	2,980
Emergency Communications Center	155	-	-	-	-	-	-	-
Fiber Optic Network	65	35	-	85	-	-	-	120
GIS	70	-	-	45	-	-	75	120
Radio System	2,500	3,000	-	-	-	-	-	3,000
Security System	-	400	100	-	-	-	-	500
Software Systems	40	120	820	40	25	15	-	1,020
Warning Sirens	-	-	35	-	35	-	35	105
<b>Grand Total</b>	<b>3,235</b>	<b>4,230</b>	<b>1,525</b>	<b>630</b>	<b>540</b>	<b>260</b>	<b>660</b>	<b>7,845</b>

**Source of Funds**

Capital Projects Fund	2,800	3,595	80	20	-	-	-	3,695
General Fund	-	-	910	100	35	-	80	1,125
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	405	575	535	500	505	260	550	2,925
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	60	-	-	-	-	-	60
Water and Sewer Fund	30	-	-	10	-	-	30	40
ECD Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>3,235</b>	<b>4,230</b>	<b>1,525</b>	<b>630</b>	<b>540</b>	<b>260</b>	<b>660</b>	<b>7,845</b>

<b>PROJECT</b>	<b>Computer Equipment</b>	<b>Account #</b>	<b>310-41640-89540 &amp; 83540 (Hardware &amp; Hardware N/C) 434-00000-16400 (Equipment)</b>
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<b>PROGRAM</b>	<b>Technology</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Technology</b>
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**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 2018 funding included a variety of replacement items: 23 laptops, a server, external storage, a smartboard, and network storage. FY 2019 funding includes 24 computers in Fire (\$29,000); 82 computers in the Library (\$90,000); 9 blade servers with a new chassis (\$231,000); a physical domain controller server (\$10,000); and switches and uninterrupted power supplies (\$86,000). A/V equipment in the Commission Chambers will also be replaced (\$60,000), a backup server added at the Service Center (\$25,000), and public safety in-car wireless equipment will be replaced (\$85,000). Funding for the backup sever and in-car equipment is contingent upon a 2018 fiscal year-end transfer from the General Fund to the Capital Projects Fund. Some items scheduled for replacement in FY 2019 may be delayed to FY 2020 or later if the item's performance is satisfactory.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Computer/Hardware/Equipment	405	530	495	460	480	245	550	2,760
Mobile Data/GPS Equipment		85	75					160
Commission Chambers A/V		60						60
<b>TOTAL EXPENDITURES</b>	<b>405</b>	<b>675</b>	<b>570</b>	<b>460</b>	<b>480</b>	<b>245</b>	<b>550</b>	<b>2,980</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		110						110
General Fund			75					75
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	405	505	495	460	480	245	550	2,735
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund		60						60
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>405</b>	<b>675</b>	<b>570</b>	<b>460</b>	<b>480</b>	<b>245</b>	<b>550</b>	<b>2,980</b>

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**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.**

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**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:**

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<b>PROJECT</b>	Emergency Communications Center	<b>Account #</b>	450-13080
<b>PROGRAM</b>	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	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** The majority of the CAD system replacement (\$750,000) was completed in FY 2017. Of that amount, \$155,000 is still retained by the City pending final acceptance of the CAD-to-CAD functionality. The project was funded through a transfer of ECD retained earnings to the Capital Projects Fund. CAD is the Computer Aided Dispatch system that enables dispatchers to electronically coordinate public safety resources in response to emergency calls for service. The City now utilizes the same vendor (TriTech) used by the consolidated Williamson County/City of Franklin dispatch center.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Architecture/Engineering								
Electrical/Generator								
Computer Equipment								
Communication Equipment								
Computer Software	155							
Construction								
<b>TOTAL EXPENDITURES</b>	<b>155</b>	<b>-</b>						
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	155							
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								
<b>TOTAL FUNDS</b>	<b>155</b>	<b>-</b>						

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures (ECD Fund)</b>	<b>0</b>
<b>Debt Service</b>	

**(Annual ECD maintenance contract = \$75,000)**

**0**

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Fiber Optic Network	<b>Account #</b>	311-45300-6005
<b>PROGRAM</b>	Technology	<b>RESPONSIBLE DEPARTMENT</b>	Technology
<b>DESCRIPTION</b>	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.		
<b>STATUS</b>	FY 2018 originally did not have funding included for the Northern Loop due to the difficulty identifying a viable route. The City worked with TDOT and was able to establish a route utilizing existing conduit along I-65 from Church Street to Moores Lane. The project is expected to cost \$100,000, versus the previously anticipated \$270,000. Funding is shown in both FY 2018 and 2019 in the event construction is not complete by June 30, 2018. FY 2021 funding provides for extension of the fiber network along Franklin Road between Concord Road and Moore's Lane following completion of the Franklin Road widening project (\$85,000). Installation of conduit for underground routing of the fiber is part of the Franklin Road widening project.		

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	5	10		10				20
Construction	60	25		75				100
<b>TOTAL EXPENDITURES</b>	<b>65</b>	<b>35</b>	<b>-</b>	<b>85</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>120</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	65	35		20				55
General Fund				65				65
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>65</b>	<b>35</b>	<b>-</b>	<b>85</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>120</b>

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**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 is providing for exchange of CAD, GIS, traffic camera video, and is a vital link from Williamson County to Nashville's existing 800MHz radio system. This connects the two systems and will allow the new radio system to communicate all over Middle Tennessee.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures (net)	10
Debt Service	

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

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	<b>GIS</b>	<b>Account #</b>	<b>311-45300-6008</b>
<b>PROGRAM</b>	<b>Technology</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Technology</b>

**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 FY 2018 was provided for an orthophotography fly-over and system update, complete with lidar/planimetrics. Due to coordination with the City of Franklin, the project cost was reduced from \$150,000 to \$70,000. Funding is provided in 2021 for an interim update of aerial photography, and in 2024 for a flyover similar to that done in 2018.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
GIS	70			45			75	120
<b>TOTAL EXPENDITURES</b>	<b>70</b>	<b>-</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>-</b>	<b>75</b>	<b>120</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	40							
General Fund				35			45	80
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund	30			10			30	40
ECD Fund								
<b>TOTAL FUNDS</b>	<b>70</b>	<b>-</b>	<b>-</b>	<b>45</b>	<b>-</b>	<b>-</b>	<b>75</b>	<b>120</b>

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**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.**

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

**Personnel Services  
Operating Expenditures  
Debt Service**

**ANNUAL OPERATING BUDGET IMPACT (000'S):**

**0**

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Radio System	Account #	311-45300-6004
<b>PROGRAM</b>	Technology	<b>RESPONSIBLE DEPARTMENT</b>	Technology
<b>DESCRIPTION</b>	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 is provided for development of a regional interoperable 700 MHz radio system that 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. Cost projections show Brentwood's share of the system cost to be approximately \$4.8 million, including a portion of the cost for a county tower in the Nolensville area that is needed to provide sufficient coverage in the eastern portion of Brentwood. A system contract with Motorola was approved by the Williamson County Joint Communications Network Authority in FY 2017, allowing implementation work to begin. Special year-end transfers from 2013 to 2017 pre-funded the \$4,800,000 needed for this project. Funding in FY 2019 will provide an additional \$150,000 contingency to cover any change orders that may occur during project implementation, and \$550,000 will replace the City's legacy non-public safety radios with Motorola radios using pricing provided in the Authority's contract. This funding is subject to a 2018 fiscal year-end transfer of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Equipment	2,500	3,000						3,000
Construction								
<b>TOTAL EXPENDITURES</b>	<b>2,500</b>	<b>3,000</b>	-	-	-	-	-	<b>3,000</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	2,500	3,000						3,000
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								
<b>TOTAL FUNDS</b>	<b>2,500</b>	<b>3,000</b>	-	-	-	-	-	<b>3,000</b>

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**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.

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	400
Debt Service	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b>400</b>
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(New system would require annual maintenance fees, beginning in FY 2019 plus replacement reserves for radio units)

**OFFSETTING REVENUE:**

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**PROJECT** Security System Account # 311-45300-6016

**PROGRAM** Technology RESPONSIBLE DEPARTMENT Technology

**DESCRIPTION** This project provides for the replacement of the City's 15 year-old access card security system, as well as other improvements to the City's security systems. The card system provides ID card-swipe access to the Municipal Center, Service Center, Library, Safety Center East, Fire Station #2, and Smith Park. This programmable system allows the City to authorize individual employees to access those facilities and work areas necessary to perform their job functions. This legacy system is no longer supported by the manufacturer and spare parts are becoming difficult to acquire.

**STATUS** Funding in FY 2019 is provided for replacement of the software system and all card-swipe hardware (\$300,000). This will include 99 swipe pads at various city facilities. Parking lot security improvements (\$200,000) are proposed to be phased-in over FY 2019 and FY 2020 for the City's most-used parks, which will include cameras and other security systems. These projects are subject to a 2018 fiscal year-end transfer of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Card-Swipe Secure Access System		300						300
Park Entrance Security Cameras		100	100					200
<b>TOTAL EXPENDITURES</b>	-	400	100	-	-	-	-	500
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		400						400
General Fund			100					100
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								
<b>TOTAL FUNDS</b>	-	400	100	-	-	-	-	500

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**JUSTIFICATION**

**Access security to City facilities is a necessity of municipal operations. Having card-swipe access available at key locations provides greater efficiency and accountability than could be provided with any other system. Because the current system is no longer supported by the manufacturer, replacement is required.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>20</b>
<b>Debt Service</b>	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b><u>20</u></b>
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**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Software Systems	<b>Account #</b>	311-45300-6002(GEMS), 6006 (specialized software), 6011 (Website), 310-41640-89550 (ERF)
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<b>PROGRAM</b>	Technology	<b>RESPONSIBLE DEPARTMENT</b>	Technology
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**DESCRIPTION** This project provides for the implementation and/or replacement of basic software required for city-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** Final payment on the Locution station alerting project (\$38,000) was the only expenditure in FY 2018. FY 2019 funding provides for replacement of Blade server and PC operating systems (\$45,000) and a work order system (\$50,000) for the Public Works Department. Blade server OS's will be replaced over a 3-year period. Funding in 2020 is provided for potential replacement of the City's enterprise accounting software package known as GEMS (\$700,000), as well as acquisition of online plans review software in Planning and Codes (\$80,000). The actual cost of that software will depend on whether the system can be upgraded by the current vendor, or a new software package must be acquired. Future funding is provided for miscellaneous software licensing.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Miscellaneous Software		25	15	15	25	15		95
Specialized Department Software	40	50	80					130
Finance Software			700					700
Blade Server Operating Systems		45	25	25				95
<b>TOTAL EXPENDITURES</b>	<b>40</b>	<b>120</b>	<b>820</b>	<b>40</b>	<b>25</b>	<b>15</b>	<b>-</b>	<b>1,020</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	40	50	80					130
General Fund			700					700
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division		70	40	40	25	15		190
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
<b>TOTAL FUNDS</b>	<b>40</b>	<b>120</b>	<b>820</b>	<b>40</b>	<b>25</b>	<b>15</b>	<b>-</b>	<b>1,020</b>

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**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 for replacement station alerting software will provide an improved tone-out process at all Brentwood fire stations.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>15</b>
<b>Debt Service</b>	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b><u>15</u></b>
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**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Warning Sirens	<b>Account #</b>	311-45300-6001
<b>PROGRAM</b>	Technology	<b>RESPONSIBLE DEPARTMENT</b>	Technology
<b>DESCRIPTION</b>	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.		
<b>STATUS</b>	No new locations for additional sirens 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 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Warning Siren			35		35		35	105
<b>TOTAL EXPENDITURES</b>	-	-	35	-	35	-	35	105
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund			35		35		35	105
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								
<b>TOTAL FUNDS</b>	-	-	35	-	35	-	35	105

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**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.**

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>1</b>
<b>Debt Service</b>	

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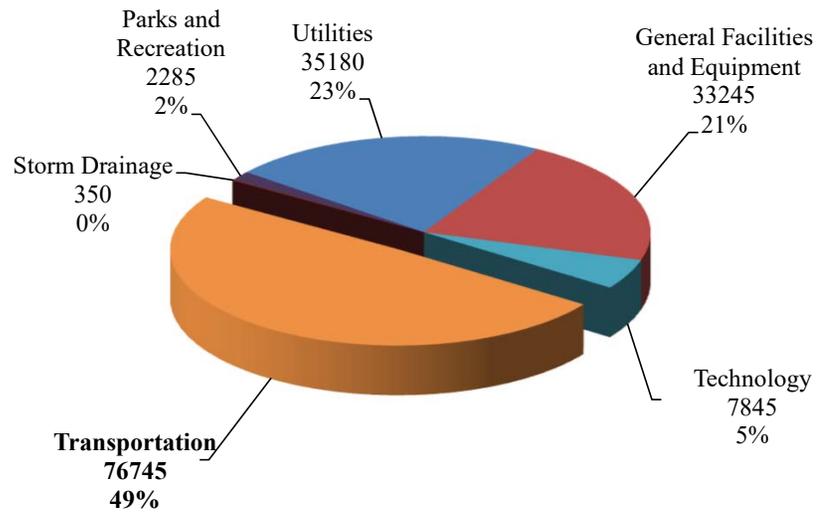
**OFFSETTING REVENUE:**

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**TRANSPORTATION**

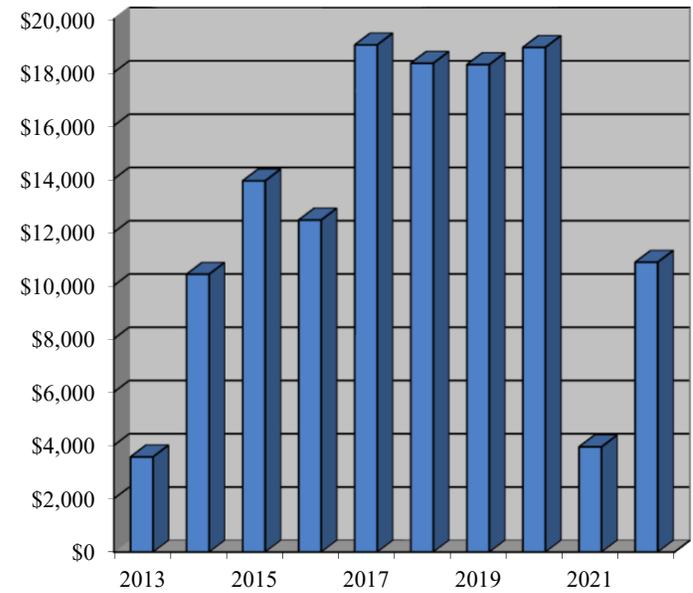
# TRANSPORTATION

## FISCAL YEARS 2019-2024



Amounts in 000's

Transportation Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Transportation - Summary**  
**(000's)**

<b>Projects</b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
ADA Retrofits	-	-	100	200	200	-	-	500
Bike and Pedestrian Projects	280	950	350	350	350	350	350	2,700
Bridges	-	200	-	-	-	-	-	200
Crockett Road	975	-	-	-	-	-	-	-
Franklin Road (south section)	8,565	11,160	10,500	6,835	-	-	-	28,495
Mallory Lane	75	-	500	-	-	-	-	500
McEwen Drive	-	-	-	8,960	-	630	-	9,590
Ragsdale Road	-	-	-	-	700	7,100	3,100	10,900
Split Log Road	140	345	-	-	-	-	-	345
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,200	2,300	2,300	2,400	2,500	2,600	2,700	14,800
Sunset Road	340	2,145	4,350	-	-	-	-	6,495
Sunset-Ragsdale Realignment	6,120	1,075	-	-	-	-	-	1,075
Traffic Signal Upgrades	340	170	175	175	175	175	175	1,045
<b>Grand Total</b>	<b>19,035</b>	<b>18,345</b>	<b>18,295</b>	<b>18,940</b>	<b>3,945</b>	<b>10,875</b>	<b>6,345</b>	<b>76,745</b>

**Source of Funds**

Capital Projects Fund	2,825	4,795	1,000	3,200	-	-	-	8,995
General Fund	760	760	1,495	1,495	2,195	3,495	4,395	13,835
General Fund - Unrestricted Balance	1,400	-	-	5,760	-	-	-	5,760
G O Bond Proceeds	3,500	-	-	-	-	4,900	-	4,900
Facilities Maintenance Division	-	50	50	50	50	50	50	300
Private Sources	25	-	-	-	-	630	-	630
Public Works Project Fund	600	1,000	3,750	-	-	-	-	4,750
Inter-Governmental Sources	8,450	10,500	10,500	6,835	-	-	-	27,835
State Street Aid Fund	1,140	1,240	1,500	1,600	1,700	1,800	1,900	9,740
Water and Sewer Fund	335	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>19,035</b>	<b>18,345</b>	<b>18,295</b>	<b>18,940</b>	<b>3,945</b>	<b>10,875</b>	<b>6,345</b>	<b>76,745</b>

<b>PROJECT</b>	<b>ADA Retrofits</b>	<b>Account #</b>	<b>311-43100-1043</b>
<b>PROGRAM</b>	<b>Transportation</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Public Works</b>

**DESCRIPTION** This project provides for modifications to intersection curb ramps, pedestrian signals, sidewalks, municipal parking lots, and other facilities that may be identified as needing improvement by the City's Americans with Disabilities Act Transition Plan. The goal of the Transition Plan is to maximize the safety and usability of Brentwood's pedestrian facilities for those with disabilities.

**STATUS** The ADA Transition Plan is being developed now. New retrofit projects will begin on a highest-priority-first basis in FY 2020 and will continue until all infrastructure projects on the list have been completed. Tentative funding (\$500,000) is shown in FY 2020 - FY 2022 for implementation of the identified improvements.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction			100	200	200			500
<b>TOTAL EXPENDITURES</b>	-	-	100	200	200	-	-	500
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund			100	200	200			500
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								
<b>TOTAL FUNDS</b>	-	-	100	200	200	-	-	500



<b>PROJECT</b>	<b>Bike and Pedestrian Projects</b>	<b>Account #</b>	<b>311-43100-1001</b>
<b>PROGRAM</b>	<b>Transportation</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Parks/Recreation</b>

**DESCRIPTION** This project provides for the extension of off-road bikeways and sidewalks 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. This project also provides for the periodic repaving of older trail sections.

**STATUS** FY 2018 funding included a developer funded trail connection along Crockett Rd. from the Witherspoon subdivision across the front of the Somerset subdivision (\$25,000). FY 2018 also included funding for sidewalk replacement in the Montclair subdivision (\$30,000), an east-west trail connectivity route study as recommended by the Bike/Ped committee (\$65,000), system expansion (\$100,000) including a short trail extension south of Split Log road along Wilson Pike.

Funding (\$600,000) for the Maryland Farms Greenway Trail, is provided in FY 2019, \$350,000 of which is subject to a FY 2018 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. FY 2019 also includes \$300,000 for other system expansion trails, and \$50,000 for asphalt overlays. Similar funding is provided in future years for expansion and overlays.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	115	50	20	20	20	20	20	150
Right of Way Acquisition								
Utility Relocation								
Construction	165	900	330	330	330	330	330	2,550
<b>TOTAL EXPENDITURES</b>	<b>280</b>	<b>950</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>2,700</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	255	900						900
General Fund			300	300	300	300	300	1,500
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		50	50	50	50	50	50	300
Private Sources	25							
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>280</b>	<b>950</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>350</b>	<b>2,700</b>

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**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. The ultimate goal is to have a City-wide bikeway system consisting of both off-road trails and on-road bike lanes as well as an expanded sidewalk network.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	5
Debt Service	

(When fully completed)

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

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<b>PROJECT</b>	<b>Bridges</b>	<b>Account #</b>	<b>311-43100-0000-1052</b>
<b>PROGRAM</b>	<b>Transportation</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Public Works</b>

**DESCRIPTION** This project provides for substantial repairs and maintenance to roadway and pedestrian bridges owned by the City of Brentwood.

**STATUS** Visual inspection of the bridge on Wildwood Valley Drive over the Little Harpeth River revealed exposed rebar in the bridge deck and TDOT's last inspection identified minor erosion around the abutments. While said conditions appear minor, further evaluation by a structural engineer is underway. FY 2019 funding (\$200,000) is allocated for any necessary structural repairs that may be identified by the engineering evaluation. Funding for this project is subject to a 2018 fiscal year-end appropriation of excess revenues from the General Fund to the Capital Projects Fund.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering		25						25
Right of Way Acquisition								
Utility Relocation								
Construction		175						175
<b>TOTAL EXPENDITURES</b>	-	200	-	-	-	-	-	200
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		200						200
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								
<b>TOTAL FUNDS</b>	-	200	-	-	-	-	-	200

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**JUSTIFICATION**

**The structural integrity of the City's roadway and pedestrian bridges is of paramount importance to public safety. Additionally, many of the City's bridges support water and/or sewer utility mains that are attached to the underside. As these facilities age, periodic inspection and maintenance is required to ensure the structures are sound and to extend the life of the assets.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	
<b>Debt Service</b>	<b>0</b>

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

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<b>PROJECT</b>	Crockett Road	<b>Account #</b>	311-43100-1042
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for improvements to Crockett Road, an arterial road that serves as the primary access route for several subdivisions, two schools, and Crockett Park. The currently programmed project is installation of a roundabout at the intersection with Green Hill Blvd. and Raintree Parkway.

**STATUS** Construction of the roundabout began in the fall of 2017 and is expected to be complete by late spring 2018. Funding in the amount of \$660,000 was previously reserved in the Capital Projects Fund for this project. Additional funds of \$120,000 from the Capital Projects Fund and \$102,000 from the Water/Sewer Fund were authorized concurrent with the award of the construction contract to the low-bid contractor for \$955,025 in August 2017. The contract includes \$47,000 for water service repairs (if needed) and a \$50,000 contingency.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	15							
Right of Way Acquisition								
Utility Relocation	240							
Construction	720							
<b>TOTAL EXPENDITURES</b>	<b>975</b>	-	-	-	-	-	-	-
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	735							
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	240							
<b>TOTAL FUNDS</b>	<b>975</b>	-	-	-	-	-	-	-

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**JUSTIFICATION**

**Crockett Road is an arterial road that serves residential subdivisions, schools, churches, and parks. Peak-hour traffic volumes create congestion at various intersections. Improvements at these intersections are needed to allow traffic to flow better and improve safety.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures (landscape maint. And utility costs)</b>	<b>2</b>
<b>Debt Service</b>	<b>0</b>

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b>2</b>
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**OFFSETTING REVENUE:**

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

**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 paid for engineering and a portion of ROW acquisition with TDOT paying for utility relocations and construction cost. Construction began in fall of 2017 and is expected to be complete late 2020 or early 2021. City funding (\$660,000) continues to be reflected as a reserve for future settlement of the few remaining ROW condemnation cases. City utility relocation costs will be approximately \$2.4 million, of which about 85% should be reimbursed from TDOT.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Right of Way Acquisition	200	660						660
Utility Relocation	2,365							
Construction	6,000	10,500	10,500	6,835				27,835
<b>TOTAL EXPENDITURES</b>	<b>8,565</b>	<b>11,160</b>	<b>10,500</b>	<b>6,835</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>28,495</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	200	660						660
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	8,270	10,500	10,500	6,835				27,835
State Street Aid Fund								
Water and Sewer Fund	95							
<b>TOTAL FUNDS</b>	<b>8,565</b>	<b>11,160</b>	<b>10,500</b>	<b>6,835</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>28,495</b>

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**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 2030 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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>10</b>
<b>Debt Service</b>	

(Expected ROW mowing and trail maintenance expenses)

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

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<b>PROJECT</b>	Mallory Lane	<b>Account #</b>	311-43100-1043
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for intersection improvements along Mallory Lane to address traffic congestion and safety concerns given the expected increase in traffic from build out of the Mallory Park office park and the opening of the Flagpole Park.

**STATUS** Funding was provided in FY 2018 for the Commerce Way intersection improvements (\$75,000), subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. Construction is to be completed by the end of the FY 2018 subject to property owner cooperation. Funding is provided in FY 2020 (\$500,000) for the addition of one southbound left turn lane at Moore's Lane. Construction of the southbound turn lane at Moore's Lane will be dependent upon traffic demand.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	10		50					50
Right of Way Acquisition								
Utility Relocation								
Construction	65		450					450
<b>TOTAL EXPENDITURES</b>	75	-	500	-	-	-	-	500
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	75		500					500
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								
<b>TOTAL FUNDS</b>	75	-	500	-	-	-	-	500



<b>PROJECT</b>	McEwen Drive	<b>Account #</b>	311-43100-1033
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for the City's payment to the City of Franklin for Brentwood's proportionate share of design engineering and construction of the proposed extension of McEwen Drive in Franklin from Wilson Pike to the Taramore subdivision, pursuant to the 2011 amended agreement between the cities of Brentwood and Franklin and subsequent litigation with adjacent developers. The City of Franklin is to complete the construction within 24 months of receipt of the required funds from Brentwood. Extension of the road through the Taramore subdivision will be undertaken by the City and funded via a developer contribution.

**STATUS** Timing of this project is contingent upon McEwen Drive improvements in the City of Franklin from the intersection of Cool Springs Blvd east to Wilson Pike. Proposed funding sources at this time include \$3.2 million in available funds within the Capital Projects Fund that were previously allocated for the Sunset Road/Ragsdale Road intersection project and an approximately \$5.8 million draw down from the undesignated General Fund reserve balance.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Right of Way								
Utility Relocation								
Construction				8,960		630		9,590
<b>TOTAL EXPENDITURES</b>	-	-	-	8,960	-	630	-	9,590
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund				3,200				3,200
General Fund				5,760				5,760
General Fund (Unreserved Balance)				5,760				5,760
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources						630		630
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	-	-	8,960	-	630	-	9,590

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**JUSTIFICATION**

The extension of McEwen Drive has been identified as a priority in the Brentwood 2030 Plan. Completion of this roadway section in the future would provide a direct link from the new I-65 interchange to the Taramore subdivision. When this section is built, it opens the possibility of further extension to Pleasant Hill Road and Clovercroft Road, providing an alternative east/west route for traffic from Nolensville & Smyrna to reach the Cool Springs area. Such an extension would help relieve traffic flow on Brentwood streets such as Concord Road, Crockett Road, Moores Lane, Split Log Road, etc.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services  
Operating Expenditures

**ANNUAL OPERATING BUDGET IMPACT (000'S):**                     0

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	<b>Ragsdale Road</b>	<b>Account #</b>	<b>311-43100-1050</b>
<b>PROGRAM</b>	<b>Transportation</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Public Works</b>

**DESCRIPTION** This project provides for the widening of Ragsdale Road between the intersection with Split Log Road and the Glen Ellen subdivision. The widened roadway would be 3-lane curb and gutter road with a center turn lane and intermittent raised median. A 10-foot bike/pedestrian path behind a 5-foot grass strip would also be included.

**STATUS** The cost of this project is currently programmed at \$10.9 million. Funding is planned in FY 2022 for design of this project (\$1.0 million), with right-of-way acquisition (\$1.0 million) and construction (\$8.9 million) beginning in FY 2023. Project completion is expected by the end of FY 2024. Funding is provided by a combination of annual General Fund excess revenues being transferred to the Capital Projects Fund in fiscal years 2022 through 2024, and a proposed \$4.9 million general obligation bond issue in FY 2023. Note that this project is conceptual only at this point with no engineering work completed, so costs will likely need to be adjusted as project implementation begins.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering					700	200	100	1,000
Right of Way Acquisition						1,000		1,000
Utility Relocation								
Construction						5,900	3,000	8,900
<b>TOTAL EXPENDITURES</b>	-	-	-	-	700	7,100	3,100	10,900
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund					700	2,200	3,100	10,900
General Fund (Unrestricted Balance)								
G O Bond Proceeds						4,900		
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	-	-	-	700	7,100	3,100	10,900

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**JUSTIFICATION**

**Increasing traffic in southeast Brentwood, both from developments within city limits and from areas east and south of Brentwood, is causing this previously low-volume rural roadway to become more heavily traveled. The current design of the roadway in terms of right-of-way width, shoulders, and horizontal/vertical curves necessitates eventual improvements to accommodate the increased volume and provide for safe passage of motorists.**

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

**Personnel Services  
Operating Expenditures  
Debt Service  
(If funded with bonds, then debt service payments would be required)**

**ANNUAL OPERATING BUDGET IMPACT (000'S):** 0

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Split Log Road	<b>Account #</b>	311-43100-1044
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for improvements to the three-way intersection at Split Log Road and Ragsdale Road. This intersection currently experiences delays during peak traffic periods, which will only be exacerbated by the fall 2018 opening of Jordan Elementary, as well as the eventual opening of a middle school at the same location. Phase 1 of the needed improvements will be signalization of the intersection, with Phase 2 adding a second westbound turn lane with a westbound merge lane added south of the intersection.

**STATUS** The contract for Phase 1, which includes signalization of the intersection (\$410,000), was let in February 2018 and will be completed by the time school opens in the fall of 2018. Phase 1 funding is split between FY 2018 and 2019 accordingly. The timing of Phase 2, which includes the new westbound turn and merge lanes, will be determined once Jordan Elementary is open and the effect of the Phase 1 improvements on traffic congestion in the peak hours is known.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	50	10						10
Right of Way Acquisition	15							
Utility Relocation								
Construction	75	335						335
<b>TOTAL EXPENDITURES</b>	<b>140</b>	<b>345</b>	-	-	-	-	-	<b>345</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	140	345						345
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								
<b>TOTAL FUNDS</b>	<b>140</b>	<b>345</b>	-	-	-	-	-	<b>345</b>

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**JUSTIFICATION**

**Split Log Rd. is an important east/west arterial road in the southeast section of the City. This area is experiencing significant residential development and will also be impacted by the new schools planned at the intersection with Pleasant Hill Road. This road is becoming an alternative route to Moores Lane in reaching the Cool Springs area via McEwen Drive (from Wilson Pike west to Cool Springs Blvd and I-65).**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures (electricity minor signal maintenance)</b>	<b>1</b>
<b>Debt Service</b>	

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

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<b>PROJECT</b>	Street Lighting	<b>Account #</b>	110-43160-89505 311-43100-1030
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	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 2019. 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 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Construction			20	20	20	20	20	100
<b>TOTAL EXPENDITURES</b>	-	-	20	20	20	20	20	100
<b>SOURCE OF FUNDS</b>								
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								
<b>TOTAL FUNDS</b>	-	-	20	20	20	20	20	100

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**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.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services  
Operating Expenditures  
Debt Service

**ANNUAL OPERATING BUDGET IMPACT (000'S):** 0

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Street Resurfacing	<b>Account #</b>	121-43120-82640
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	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** With the gas tax increase included in the passage of the IMPROVE Act during the 2017 session of the TN General Assembly, local governments will see an increase in state shared gas tax revenues. Brentwood's share, when the gas tax increase is fully implemented in FY 2020, is estimated at approximately \$400,000 annually. Added to this will be approximately an additional \$100,000 annually due to the projected 2018 special census. This additional revenue will provide a much needed funding boost towards the City's street resurfacing program over the next 6 years without continued one-time transfers from the General Fund.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Professional Services								
Construction	2,200	2,300	2,300	2,400	2,500	2,600	2,700	14,800
<b>TOTAL EXPENDITURES</b>	<b>2,200</b>	<b>2,300</b>	<b>2,300</b>	<b>2,400</b>	<b>2,500</b>	<b>2,600</b>	<b>2,700</b>	<b>14,800</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	300	300						300
General Fund	760	760	800	800	800	800	800	4,760
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund	1,140	1,240	1,500	1,600	1,700	1,800	1,900	9,740
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>2,200</b>	<b>2,300</b>	<b>2,300</b>	<b>2,400</b>	<b>2,500</b>	<b>2,600</b>	<b>2,700</b>	<b>14,800</b>

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**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. Unfortunately, without a funding increase from the state, the City will be forced to either maintain a level funding plan for the next six years or increase the General Fund contribution to this program. At present, there are over 430 lane miles of City maintained streets. This excludes state routes maintained by TDOT.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	10
Debt Service	

(annual resurfacing helps reduce routine maintenance expenses)

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

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<b>PROJECT</b>	Sunset Road (Concord to Ragsdale)	<b>Account #</b>	311-43100-1051
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for the widening of Sunset Road from Concord Road to the new bridge north of Ragsdale Road. The improvements would include a 3-lane curb and gutter cross-section with a 10-foot wide multi-use path on the west side.

**STATUS** The Sunset Road widening project is programmed at \$6,835,000, to be funded primarily with Public Works Project Fees (\$4,750,000). The balance of the funding will come from transfers of excess annual revenues from the General Fund to the Capital Projects Fund (\$1,585,000) and an appropriation of Capital Projects Fund fund balance (\$500,000) resulting from savings on other projects. The engineering design contract (\$485,000) was awarded in June 2017. Construction is anticipated to begin in the spring of 2019 and to be complete by summer of 2020.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	340	145	100					245
Right of Way Acquisition		1,000						1,000
Utility Relocation								
Construction		1,000	4,250					5,250
<b>TOTAL EXPENDITURES</b>	<b>340</b>	<b>2,145</b>	<b>4,350</b>	-	-	-	-	<b>6,495</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	340	1,145	500					1,645
General Fund			100					100
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund		1,000	3,750					4,750
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>340</b>	<b>2,145</b>	<b>4,350</b>	-	-	-	-	<b>6,495</b>

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**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. With the 2018 completion of the Sunset Road/Ragsdale Road intersection realignment project, this section of Sunset Road up to Concord Road is the next needed widening project.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services  
Operating Expenditures  
Debt Service

**ANNUAL OPERATING BUDGET IMPACT (000'S):** 0

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Sunset-Ragsdale Realignment	<b>Account #</b>	311-43100-1027
<b>PROGRAM</b>	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works

**DESCRIPTION** This project provides for realignment of the dangerous intersection with Ragsdale Road which is the site of frequent vehicular accidents.

**STATUS** 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. Construction began spring of 2017 and should be complete by the end of calendar year 2018. Funding for the estimated \$9.9 million project includes \$3.4 million from unrestricted General Fund reserves in FY 2016, \$1.6 million in Public Works Project Fees (\$1 million in FY 2017 and \$600,000 in FY 2018), \$1.4 million from the General Fund's unassigned FY 2018 fund balance, and \$3.5 million from Capital Outlay Notes issued in FY 2018.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	110	25						25
Right of Way Acquisition	185	325						325
Utility Relocation								
Construction	5,825	725						725
<b>TOTAL EXPENDITURES</b>	<b>6,120</b>	<b>1,075</b>	-	-	-	-	-	<b>1,075</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	620	1,075						1,075
General Fund								
General Fund (Unreserved Balance)	1,400							
G O Bond Proceeds / Cap. Outlay Notes	3,500							
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund	600							
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>6,120</b>	<b>1,075</b>	-	-	-	-	-	<b>1,075</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	
<b>Debt Service</b>	<b>355</b>

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b>355</b>
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**OFFSETTING REVENUE:**

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

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

**STATUS** Funding in FY 2018 was provided for completion of the signal timing study, video detection equipment at Concord/Knox Valley, signal head replacement at the schools on Murray Lane, replacement of 25 out of 47 Ethernet switches, and battery backups on Maryland Way.

FY 2019 funding is proposed to finish the Ethernet switch replacement (\$54,000), replacement of video detection at Wilson Pike and Crockett Road and acquisition of a spare system (\$44,000), battery backups at seven intersections (\$60,000), and a new school zone signal at Granny White and Foxland Hall (\$12,000). Future funding is allocated for equipment repairs and upgrades (signal heads, video detection, cabinets, electronics, etc.) as may be needed from year to year (\$175,000). Funding in 2019 is subject to a 2018 fiscal year-end appropriation of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	180							
Equipment Upgrades	160	170	175	175	175	175	175	1,045
Extraordinary Repairs								
Construction								
<b>TOTAL EXPENDITURES</b>	<b>340</b>	<b>170</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>1,045</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	160	170						170
General Fund			175	175	175	175	175	875
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	180							
State Street Aid Fund								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>340</b>	<b>170</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>1,045</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>10</b>
<b>Debt Service</b>	

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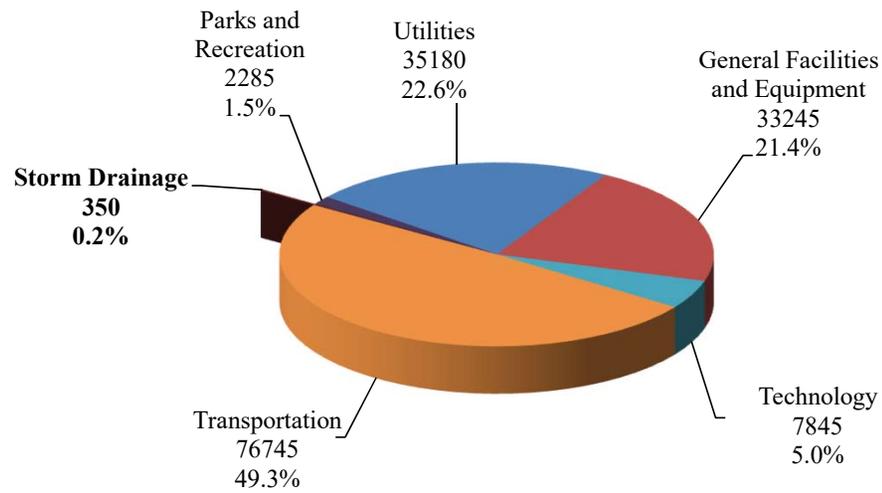
**OFFSETTING REVENUE:**

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**STORM DRAINAGE**

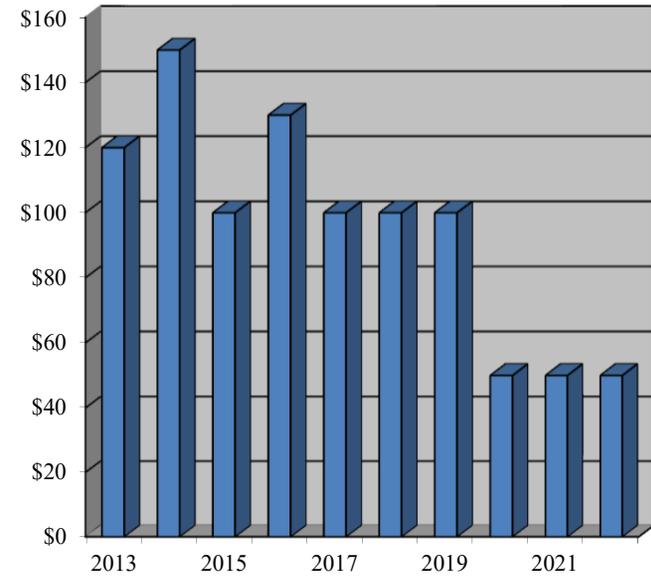
# STORM DRAINAGE

## FISCAL YEARS 2019-2024



Amounts in 000's

### Storm Drainage Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Storm Drainage Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Johnson Chapel Road	50	-	-	-	-	-	-	-
Shenandoah Drive	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
<b>Grand Total</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>350</b>

<b><u>Source of Funds</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Capital Projects Fund	50	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>350</b>

<b>PROJECT</b>	<b>Johnson Chapel Road</b>	<b>Account #</b>	<b>311-43150-2013</b>
<b>PROGRAM</b>	<b>Storm Drainage</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Public Works</b>

**DESCRIPTION**                      **This project will replace 60 feet of 30"x 45" metal pipe with reinforced concrete pipe adjacent to Deerwood Lane. The current pipe has deteriorated beyond repair, necessitating replacement of the pipe and headwall.**

**STATUS**                                      **Funding was provided in FY 2018 for this project (\$50,000). Drainage work will typically be scheduled for the drier, summer months. This work is expected to be complete in late spring of 2018.**

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering Services								
Construction	50							
<b>TOTAL EXPENDITURES</b>	<b>50</b>	<b>-</b>						
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	50							
General Fund								
G O Bond Proceeds								
<b>TOTAL FUNDS</b>	<b>50</b>	<b>-</b>						

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**JUSTIFICATION**

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

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**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:**

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<b>PROJECT</b>	<b>Shenandoah Drive</b>	<b>Account #</b>	<b>311-43150-2014-000</b>
<b>PROGRAM</b>	<b>Storm Drainage</b>	<b>RESPONSIBLE DEPARTMENT</b>	<b>Public Works</b>

**DESCRIPTION**                      **This project will rebuild approximately 45 feet of retaining wall on the north side of 701 Shenandoah Drive. Work will also restore the integrity of the concrete footing supporting the remainder of the wall, approximately 535 feet in length, between Shenandoah Drive and Davis Drive. Approval will be required through the Tennessee Department of Environment and Conservation through an Aquatic Resource Alteration Permit, which may require specific timing, methods, or materials to be used.**

**STATUS**                                      **Drainage work will typically be scheduled for the drier, summer months. This work is expected to be complete in late spring of 2019.**

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2016</b>	<b>Proposed FY 2017</b>	<b>Proposed FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Total FY 2017-2022</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering Services		5						5
Construction		45						45
<b>TOTAL EXPENDITURES</b>	-	50	-	-	-	-	-	50
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		50						50
General Fund								
G O Bond Proceeds								
<b>TOTAL FUNDS</b>	-	50	-	-	-	-	-	50

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**JUSTIFICATION**

**Repair of this collapsed retaining wall is necessary to avoid erosion and potential damage to the adjacent residential properties.**

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**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:**

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<b>PROJECT</b>	Subdivision Drainage	<b>Account #</b>	110-43150-89440
<b>PROGRAM</b>	Storm Drainage	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
<b>DESCRIPTION</b>	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.		
<b>STATUS</b>	In order to minimize property damage and clean up/restoration efforts, this work is typically done in the drier, summer months.		

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Engineering Services								
Construction	50	50	50	50	50	50	50	300
<b>TOTAL EXPENDITURES</b>	50	50	50	50	50	50	50	300
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds								
<b>TOTAL FUNDS</b>	50	50	50	50	50	50	50	300

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**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.**

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**PROGRAM AND FACILITY COSTS:**

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

**ANNUAL OPERATING BUDGET IMPACT (000'S):**

**0**

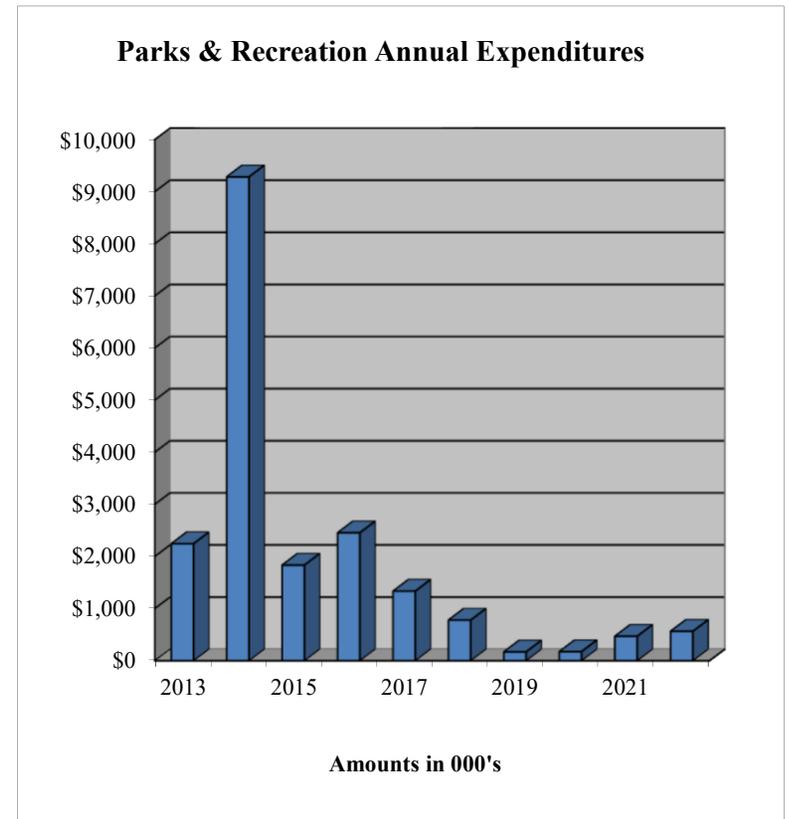
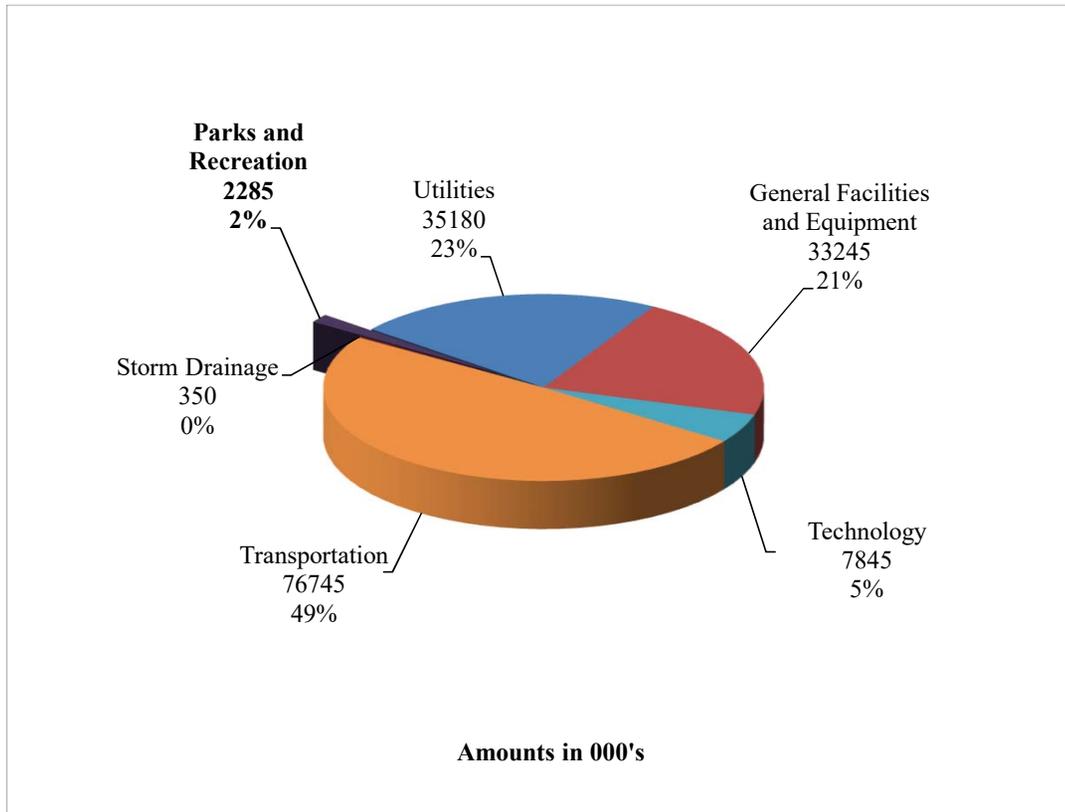
**OFFSETTING REVENUE:**

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**PARKS and RECREATION**

# PARKS AND RECREATION

## FISCAL YEARS 2019-2024



**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Parks and Recreation Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b>Projected FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Total 6 Years 2019-2024</b>
Crockett Park	115	215	90	75	250	475	75	1,180
Deerwood Arboretum	-	-	40	-	-	-	-	40
Flagpole & Wikle Parks	20	-	-	-	-	-	-	-
Granny White Park	-	15	35	100	145	30	50	375
Marcella Vivrette Smith Park	1,190	325	-	-	75	-	-	400
Maryland Way Park	-	150	-	-	-	-	-	150
Owl Creek Park	-	75	-	-	-	60	-	135
River Park	10	-	5	-	-	-	-	5
<b>Grand Total</b>	<b>1,335</b>	<b>780</b>	<b>170</b>	<b>175</b>	<b>470</b>	<b>565</b>	<b>125</b>	<b>2,285</b>
<b><u>Source of Funds</u></b>								
Capital Projects Fund	1,305	610	-	-	-	-	-	610
General Fund	-	-	-	-	250	400	-	650
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Facilities Maintenance Division	10	170	170	175	220	165	125	1,025
Private Sources	20	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>1,335</b>	<b>780</b>	<b>170</b>	<b>175</b>	<b>470</b>	<b>565</b>	<b>125</b>	<b>2,285</b>

<b>PROJECT</b>	Crockett Park	<b>Account #</b>	311-44400-3001
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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 2018 funding included trail improvements and installation of a small playground at the picnic shelter. FY 2019 funding provides for a new restroom near the amphitheater (\$110,000), expansion of the concrete apron in front of the amphitheater (\$25,000), replacement of dugout covers (\$35,000), painting of parking lot lights (\$20,000), and replacement of the wood decking on the footbridge (\$25,000). Funding for the restroom and concrete apron are subject to a 2018 fiscal year-end appropriation of excess revenues from the General Fund to the Capital Projects Fund.

Funding in future years is shown to ensure the facilities are maintained at the current high standards. Two large future projects include tentative replacement of the community playground in FY 2022 (\$175,000) and replacement of the amphitheater roof (\$400,000) in FY 2023.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Fields, Courts etc.								
Buildings, Facilities, etc.	115	215	90	75	250	475	75	1,180
Furniture/Equipment								
Landscaping/Trees								
Utilities								
<b>TOTAL EXPENDITURES</b>	<b>115</b>	<b>215</b>	<b>90</b>	<b>75</b>	<b>250</b>	<b>475</b>	<b>75</b>	<b>1,180</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	115	135						135
General Fund					175	400		575
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		80	90	75	75	75	75	470
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>115</b>	<b>215</b>	<b>90</b>	<b>75</b>	<b>250</b>	<b>475</b>	<b>75</b>	<b>1,180</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>0</b>
<b>Debt Service</b>	

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

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<b>PROJECT</b>	Deerwood Arboretum	<b>Account #</b>	311-44400-3008
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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. Bridge decking replacement is tentatively scheduled for FY 2020 (\$40,000).

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.			40					40
Furniture/Equipment								
Landscaping/Trees								
<b>TOTAL EXPENDITURES</b>	-	-	40	-	-	-	-	40
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division			40					40
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	-	40	-	-	-	-	40

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**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.**

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**PROGRAM AND FACILITY COSTS:**

**Personnel Services  
Operating Expenditures  
Debt Service**

**ANNUAL OPERATING BUDGET IMPACT (000'S):** 0

**OFFSETTING REVENUE:**

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**JUSTIFICATION**

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

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	20
Debt Service	98

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

**OFFSETTING REVENUE:**

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

**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 2017 funding included repairs and painting of the pavilion ceiling (\$10,000), renovation of 2 volleyball courts (\$10,000), and replacement of two gazebos (\$30,000). No Improvements were scheduled FY 2018. FY 2019 improvements will include painting of the dugout roofs (\$10,000) and basketball court resurfacing (\$5,000). Funding in future years is shown to ensure the facilities are maintained at the current high standards. Two of the larger planned future projects include lighting replacements at the tennis center in FY 2021 (\$100,000) and resurfacing of the parking lot (\$145,000) in FY 2022.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Fields, Courts etc.								
Buildings, Facilities, etc.		15	35	100	145	30	50	375
Furniture/Equipment								
Landscaping/Trees								
<b>TOTAL EXPENDITURES</b>	-	15	35	100	145	30	50	375
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		15	35	100	145	30	50	375
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	15	35	100	145	30	50	375

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**JUSTIFICATION**

**Extraordinary repairs and improvements are needed periodically to keep this 25 year old park in a safe and attractive condition and to reduce on-going maintenance repairs and associated manpower requirements. Lighting at the tennis center will require upgrades and parking with require resurfacing within the planning period to maintain standards.**

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**LOCATION MAP**

**PROGRAM AND FACILITY COSTS:**

**Personnel Services  
Operating Expenditures  
Debt Service**

**ANNUAL OPERATING BUDGET IMPACT (000'S):**                                           **0**

**(Extraordinary repairs help reduce on-going maintenance cost)**

**OFFSETTING REVENUE:**                                          

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

**DESCRIPTION** This 400 acre park includes open pastures, wooded hillsides, the historic Ravenswood home and associated historic outbuildings. 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 80 acres in the rear of the property will be determined in the future.

**STATUS** Phase 2 improvements, completed in FY 2018, included 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 was also provided for installation of sod in lieu of seed on the fields (\$60,000), and a paver patio at Ravenswood Mansion (\$70,000).

FY 2019 includes funding carried forward from FY 2018 for the replacement of the maintenance barn (\$150,000). New projects for FY 2019 include stabilization work on the two slave cabins (\$150,000), subject to a FY 2018 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. Also programmed for FY 2019 are landscape improvements along the Loop Road (\$25,000) to help screen Ravenswood Mansion. Master planning for potential Phase 3 improvements on the back 80 acres is scheduled for 2022 (\$75,000). Design and construction of Phase 3 improvements are not proposed to begin within the CIP planning horizon.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Planning/Engineering					75			75
Park Land Acquisition								
Construction/Development	1,190	175						175
Historic Structure Renovation		150						150
<b>TOTAL EXPENDITURES</b>	<b>1,190</b>	<b>325</b>	<b>-</b>	<b>-</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>400</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund	1,170	325						325
General Fund					75			75
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources	20							
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>1,190</b>	<b>325</b>	<b>-</b>	<b>-</b>	<b>75</b>	<b>-</b>	<b>-</b>	<b>400</b>

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**JUSTIFICATION**

Smith Park now provides a significant opportunity for residents to enjoy both passive and active recreation in a natural setting. The vast majority of the park's 400 acres are disturbed only by hiking trails, allowing users to experience the beauty of Brentwood's rolling hills and the wildlife that live there. Preservation of the historic assets (Ravenswood Mansion and slave cabins) on the property has been a priority since the land was acquired in 2010. Replacement of the maintenance barn will provide parks staff with a safer and more suitable facility from which to conduct daily operations.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	90
Operating Expenditures	150
Debt Service	910

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

<b>OFFSETTING REVENUE:</b>	105
(Historic House Rental)	

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<b>PROJECT</b>	Maryland Way Park	<b>Account #</b>	311-44400-3011
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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 improvements to the eastern edge of this park to provide an appropriate pedestrian gateway connection to the Hill Center Brentwood redevelopment project (\$150,000). The exact timing of improvements in the park will be dependent on the timing of construction at the Hill Center.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Fields, Courts etc.								
Buildings, Facilities, etc.		150						150
Furniture/Equipment								
Landscaping/Trees								
Repaving/Repairs Trail								
<b>TOTAL EXPENDITURES</b>	-	150	-	-	-	-	-	150
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund		150						150
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	150	-	-	-	-	-	150

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>1</b>
<b>Debt Service</b>	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<u>1</u>
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<b>OFFSETTING REVENUE:</b>	<u>          </u>
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<b>PROJECT</b>	Owl Creek Park	<b>Account #</b>	311-44400-3006
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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**                                Prior improvements in Owl Creek Park included FY 2017's installation of four-board fencing along Concord Road, an entrance feature, and conversion to energy efficient T-8 lights in the restroom building. No improvements were scheduled FY 2018. FY 2019 funding includes replacement of the main boardwalk across the wetlands adjacent to Concord Road (\$75,000). Funding in future years will be programmed as needed to ensure the facilities are maintained to high standards.

<b>PROJECT BUDGET (000'S)</b>	<b>Projected FY 2018</b>	<b>Proposed FY 2019</b>	<b>Proposed FY 2020</b>	<b>Proposed FY 2021</b>	<b>Proposed FY 2022</b>	<b>Proposed FY 2023</b>	<b>Proposed FY 2024</b>	<b>Total FY 2019-2024</b>
<b>EXPENDITURE ALLOCATION</b>								
Planning/Engineering								
Buildings, Facilities, etc.		75				60		135
Furniture/Equipment								
Landscaping/Trees								
<b>TOTAL EXPENDITURES</b>	-	75	-	-	-	60	-	135
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		75				60		135
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	-	75	-	-	-	60	-	135



<b>PROJECT</b>	River Park	<b>Account #</b>	311-44400-3002
<b>PROGRAM</b>	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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 2018 included funding for replacement of bridge wood decking (\$10,000). Only minor improvements are expected to be needed in the next few years, with none scheduled for FY 2019. Basketball court resurfacing (\$5,000) is programmed for FY 2020.

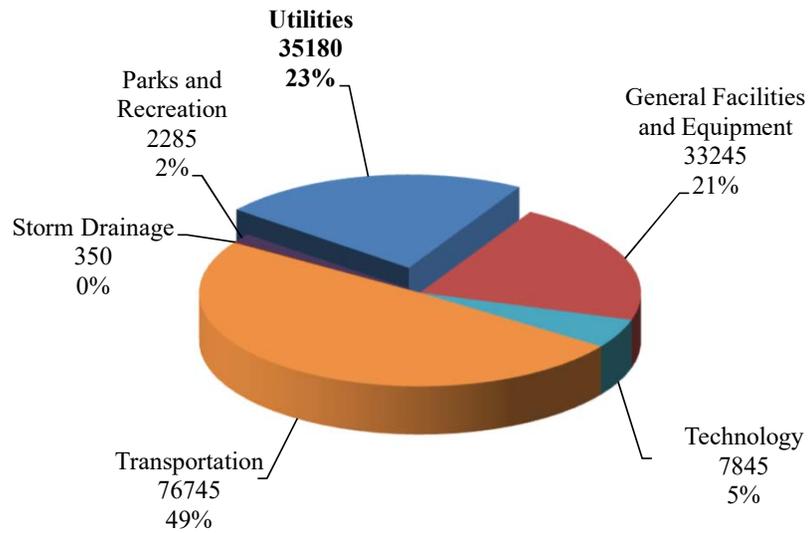
PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Buildings, Facilities, etc.	10		5					5
Furniture/Equipment								
Landscaping/Trees								
<b>TOTAL EXPENDITURES</b>	<b>10</b>	<b>-</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>
<b>SOURCE OF FUNDS</b>								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	10		5					5
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
<b>TOTAL FUNDS</b>	<b>10</b>	<b>-</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>



## **UTILITIES**

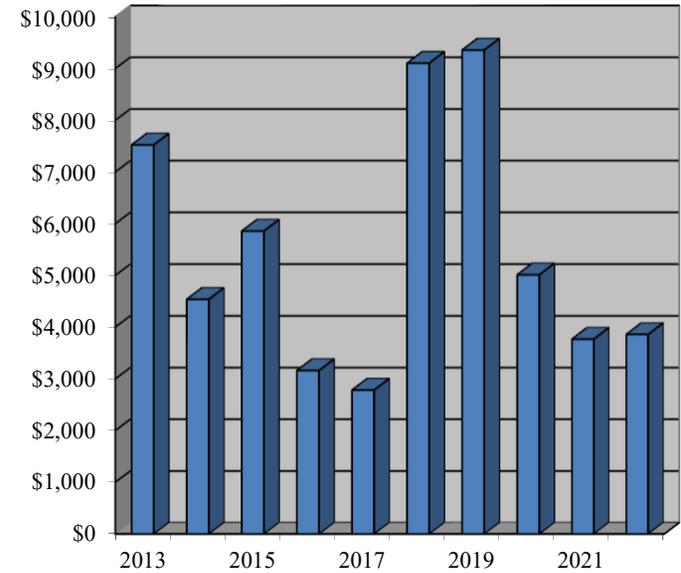
# UTILITIES

## FISCAL YEARS 2019-2024



Amounts in 000's

Utilities Annual Expenditures



Amounts in 000's

**City of Brentwood, Tennessee**  
**Capital Improvements Program**  
**Fiscal Year 2019 - 2024**  
**Water and Sewer Program - Summary**  
**(000's)**

<b><u>Projects</u></b>	<b><u>Projected FY 2018</u></b>	<b><u>FY 2019</u></b>	<b><u>FY 2020</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024</u></b>	<b><u>Total 6 Years 2019-2024</u></b>
Meter Reading Program Upgrade	220	2,235	-	-	-	-	-	2,235
Miscellaneous Sewer Service Additions	-	45	105	455	45	45	45	740
Miscellaneous Sewer System Improvements	75	930	235	110	110	110	110	1,605
Miscellaneous Water System Improvements	190	175	110	110	110	110	110	725
Sewer Rehabilitation Program	1,910	2,035	575	575	575	575	575	4,910
Sewer System Capacity Improvements	-	1,100	6,400	575	-	40	300	8,415
Sewer Lift Station Rehabilitation	35	410	230	-	-	-	-	640
Water Line Replacement Program	50	1,415	265	910	835	580	580	4,585
Water System Capacity Improvements	305	760	1,440	2,280	2,095	2,400	2,350	11,325
<b>Grand Total</b>	<b>2,785</b>	<b>9,105</b>	<b>9,360</b>	<b>5,015</b>	<b>3,770</b>	<b>3,860</b>	<b>4,070</b>	<b>35,180</b>

**Source of Funds**

Water and Sewer Fund	570	5,165	1,415	1,705	1,630	2,975	3,375	16,265
Water Tap Fees and NCGUD Grove Tap Fees	305	760	1,440	2,280	2,095	800	350	7,725
Sewer Tap Fees	1,910	3,175	6,500	930	40	80	340	11,065
Private Sources	-	5	5	100	5	5	5	125
Water and Sewer Bond/Note Proceeds	-	-	-	-	-	-	-	-
<b>Grand Total</b>	<b>2,785</b>	<b>9,105</b>	<b>9,360</b>	<b>5,015</b>	<b>3,770</b>	<b>3,860</b>	<b>4,070</b>	<b>35,180</b>

<b>PROJECT</b>	Meter Reading System	Account #	412-16700-8051
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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** To date, there are approximately 1,500 updated meter sites currently reading remotely from the Flexnet (tower read) system. Work in FY 2018 included installation of the third tower and equipment at the Skyline water tank site. FY 2019 work includes awarding a contract to install radio units at all the remaining meter sites to get full meter reading coverage as well as around 4,000 meters to get all residential meters upgraded. Large meters at commercial sites will be upgraded as needed. This project is funded via available funds in the Water and Sewer Fund.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	15	35						35
Construction	205	2,200						2,200
<b>TOTAL EXPENDITURES</b>	<b>220</b>	<b>2,235</b>	-	-	-	-	-	<b>2,235</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund	220	2,235						2,235
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>220</b>	<b>2,235</b>	-	-	-	-	-	<b>2,235</b>

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**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.

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**PROGRAM AND FACILITY COSTS (000's):**

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

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

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<b>PROJECT</b>	Miscellaneous Sewer Service Additions	Account #	412-16700-8033
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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** The next planned large scale project is associated with the Franklin Rd. widening project in FY 2020-21 and will include about 15-20 homes located in that area that are currently served by septic systems. The extension of sewer in coordination with the Franklin Road widening project is proposed if there is sufficient support among residents, as per City 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 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering		5	65	5	5	5	5	90
Construction		40	40	450	40	40	40	650
Property/Easement Acquisition								
<b>TOTAL EXPENDITURES</b>	-	45	105	455	45	45	45	740
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund								
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees		40	100	355	40	40	40	615
Private Sources		5	5	100	5	5	5	125
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	-	45	105	455	45	45	45	740

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**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.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>5</b>
<b>Debt Service</b>	

<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<u><u><b>5</b></u></u>
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<b>OFFSETTING REVENUE:</b>	<b>60</b>
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**(Each home will pay a \$5,000 tap fee)**

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<b>PROJECT</b>	Miscellaneous Sewer System Improvements	<b>Account #</b>	412-16700-8039
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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. An engineering evaluation of the 8 inch sewer force main which is located along Moore's Lane determined the pipeline to be in very poor condition and in need of replacement. Funding in FY 2019 provides for the replacement of approximately 4,600 feet of sewer force main between Carothers and the entrance to the Nashville Golf Club. This project will include installing a new 8 inch pipe from the City property located at the intersection of Moores Ln. and Carothers east along Suzanne Dr. in Eldarodo Estates, then crossing Rue De Grande to the Moore's Ln. right-of-way and continuing eastward in the south right-of-way of Moore's Ln. to just past Crockett Springs Tr. The route selected took into consideration traffic flow along Moores Ln and existing utility conflicts and was determined to be the least disruptive and economical for the project. Funding in FY2020 includes upgrades to a sewer line along Wilson Pk. Circle.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	75	55	10	10	10	10	10	105
Construction		850	200	100	100	100	100	1,450
Property/Easement Acquisition		25	25					50
<b>TOTAL EXPENDITURES</b>	75	930	235	110	110	110	110	1,605
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund	75	930	235	110	110	110	110	1,605
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	75	930	235	110	110	110	110	1,605

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**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.

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**PROGRAM AND FACILITY COSTS:**

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

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

<b>PROJECT</b>	Miscellaneous Water System Improvements	<b>Account #</b>	412-16700-8040
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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 smaller projects that may arise each year. FY 2019 includes installing a small section of new pipe to connect the Belle Rive water line, installed in 2015, to the Deerwood Lane water line. The Deerwood Ln. residents are served by a water line coming from Harpeth River Drive and under the river, which was installed in the late 1970's. This line would allow for the older water line coming from Harpeth River Dr. to be abandoned and provide better service to the area off the Belle Rive line. This work has moved from FY 2018 CIP to FY 2019. The department is also proposing to abandon a small, 4 inch PVC water line serving customers on the north side of Crockett Rd. between Hampton Reserve Dr. and Arrowhead Dr. This water line was acquired by the City in 2007 from the Nolensville/College Grove Utility District under the terms of the service area transfer agreement. The project scope includes disconnecting 9 customer service lines from the older 4 inch line and reconnecting them to a larger, existing 12 inch water line which will provide better service. There are additional services along the older 4 inch water line that have either been removed via alternate projects (i.e. Raintree Round-a-bout) or will be removed during replacement of the 12 inch Crockett Rd. water line project also scheduled for FY 2019.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	15	10	10	10	10	10	10	60
Construction	175	165	100	100	100	100	100	665
Property/Easement Acquisition								
<b>TOTAL EXPENDITURES</b>	<b>190</b>	<b>175</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>725</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund	190	175	110	110	110	110	110	725
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>190</b>	<b>175</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>110</b>	<b>725</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	0
Debt Service	0

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

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

**DESCRIPTION** This comprehensive, multi-year project began in 2006 and 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 must continue rehabilitation efforts through CY2018. Once the rehabilitation work associated with the State CAP/ER is completed, the City is required to prepare an updated progress report to the State, summarizing the work and results of the City's efforts. The report will be reviewed by the State and they will respond accordingly. 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 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering/Inspection	435	285	75	75	75	75	75	660
Construction	1,475	1,750	500	500	500	500	500	4,250
Land Acquisition								
<b>TOTAL EXPENDITURES</b>	<b>1,910</b>	<b>2,035</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>4,910</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund			575	575	575	575	575	2,875
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees	1,910	2,035						2,035
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>1,910</b>	<b>2,035</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>575</b>	<b>4,910</b>

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**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.

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**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):** (1,050)

**OFFSETTING REVENUE:**

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

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<b>PROJECT</b>	Sewer System Capacity Improvements	Account #	412-16700-
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	Water Services

**DESCRIPTION** This project is intended to fund future sewer system improvements that are needed to assure sufficient system capacity to meet the future growth demands of Brentwood's customers and State criteria related to stormwater inflow/infiltration (I/I) for sanitary sewer system design. The Master Plan developed in 2016 for the City enables the City to identify required improvements, including system sub-basin projects and system-wide conveyance projects that address aid in addressing both wet weather peak flows and anticipated growth driven capacity improvements.

**STATUS** No projects were identified in FY 2018 to be completed. Beginning in FY 2019, funds are programmed in anticipation of initiating projects recommended from the Sewer System Master Plan prepared by Hazen and Sawyer Engineers. The first major project that has been identified in the plan includes constructing a 3 million gallon equalization (storage) facility and associated lift station near the existing Brentwood/Metro pump station to address wet weather peak flows. The storage facility and lift station are estimated to cost approximately \$7.0 million dollars. One of the biggest challenges associated with this project is finding the land for such a facility. This could require the City to consider construction of a below-grade facility, significantly increasing the cost. Funding for the storage facility would come from Sewer Tap Fees and be spread over FY 2019 - FY 2020. Funds from Sewer Tap Fees are programmed in future years for continued implementation of recommended projects in the master plan.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering		600	300	75		40		1,015
Construction			6,100	500			250	6,850
Property/Easement Acquisition		500					50	550
<b>TOTAL EXPENDITURES</b>	-	1,100	6,400	575	-	40	300	8,415
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund								
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees		1,100	6,400	575		40	300	8,415
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	-	1,100	6,400	575	-	40	300	8,415

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**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 completed the comprehensive system master plan in CY 2016.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures (storage facility operating costs)	50
Debt Service	0

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

<b>PROJECT</b>	Sewer Lift Station Rehabilitation	<b>Account #</b>	412-16700-8027
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	Water & Sewer

**DESCRIPTION**                      This project provides for an on-going, proactive program to rehabilitate the City's sewer lift stations including operating equipment that provides alternative pumping methods during an emergency. To date, nine of the eleven stations have been rehabilitated within the last eight years with two stations remaining to be rehabilitated.

**STATUS**                                FY 2018 funding provides for the design of the Edmondson Pike sewer lift station located just south of Edmondson Elementary school. Construction work associated with the rehabilitation of this station is planned for FY 2019. For FY 2020, funding is anticipated for the evaluation, design and construction to possibly abandon the Arden Woods lift station located at 6402 Fisher Ct.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	35	20	30					50
Construction		375	200					575
Property/Easement Acquisition		15						15
<b>TOTAL EXPENDITURES</b>	<b>35</b>	<b>410</b>	<b>230</b>	-	-	-	-	<b>640</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund	35	410	230					640
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>35</b>	<b>410</b>	<b>230</b>	-	-	-	-	<b>640</b>

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**JUSTIFICATION**

**The EPA's Capacity Management, Operations and Maintenance (CMOM) program requires the City to more actively monitor and increase emergency preparedness for addressing potential problems associated with the operation of sewer lift stations and their potential contribution to sewer overflows.**

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**PROGRAM AND FACILITY COSTS:**

<b>Personnel Services</b>	
<b>Operating Expenditures</b>	<b>(20)</b>
<b>Debt Service</b>	<b>0</b>
<b>(Improvements &amp; new technology should reduce operating costs)</b>	
<b>ANNUAL OPERATING BUDGET IMPACT (000'S):</b>	<b>(20)</b>

**OFFSETTING REVENUE:**

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<b>PROJECT</b>	Water System Annual Pipe Replacement Program	Account #	412-16700-8053
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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 in FY 2018 included finalizing design and bidding the Crockett Rd. water line replacement project. The project includes replacement of approximately 2,500 L.F. of 12 inch PVC water line along Crockett Road, from Raintree Pkwy. to Twelve Oaks subdivision. This section of PVC has been identified via the asset management assessment program to be in need of replacement due to multiple breaks and being a larger water main with a significant consequence if it fails. Funding in FY 2019 is provided for initiating construction of the Crockett Rd. water line project and beginning design work to replace the water main along Devens Drive, from Knox Valley to Wikle Rd. East. This includes replacing the water lines in each cul-de-sac along the way. Construction of this project is planned for spring/summer of CY 2019. Beginning in FY 2021, funding is provided to begin work in the Carondelet North area, which includes Davis Dr., Carondelet Pl., Ford Dr., and Hood Pl., to replace smaller, concrete pipe that has a high failure rate. This project is planned for FY 2021-2022. Funding is provided in future years for projects identified in the asset management program.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	50	130	30	150	75	70	70	525
Construction		1,275	225	750	750	500	500	4,000
Property/Easement Acquisition		10	10	10	10	10	10	60
<b>TOTAL EXPENDITURES</b>	<b>50</b>	<b>1,415</b>	<b>265</b>	<b>910</b>	<b>835</b>	<b>580</b>	<b>580</b>	<b>4,585</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund	50	1,415	265	910	835	580	580	4,585
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>50</b>	<b>1,415</b>	<b>265</b>	<b>910</b>	<b>835</b>	<b>580</b>	<b>580</b>	<b>4,585</b>

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**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.**

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**PROGRAM AND FACILITY COSTS:**

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

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

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<b>PROJECT</b>	Water System Capacity Improvements	Account #	412-16700-8036
<b>PROGRAM</b>	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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 FY 2018, work was completed on the Granny White Connector project. For FY 2019, construction is planned to upgrade the River Oaks water booster station which is located at the end of Ramsgate Ct. The River Oaks station was originally installed around 1975 and requires upgrade in accordance with the Master Plan. Funding is programmed over two years beginning in FY 2019 to extend a 12 inch water line from Mallory Park northward around Wikle Park to Wikle Rd. and then continue westward under the railroad tracks to Franklin Rd. connecting to a 12 inch water line that will be installed as part of the Franklin Rd. widening project. Additional projects are planned in future years as determined by the water system master plan. Funding is expected to be a combination of water tap fees and water/sewer operating revenue.

PROJECT BUDGET (000'S)	Projected FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Proposed FY 2024	Total FY 2019-2024
<b>EXPENDITURE ALLOCATION</b>								
Engineering	65	120	230	365	195	300	300	1,510
Construction	240	540	935	1,765	1,800	2,000	2,000	9,040
Property/Easement Acquisition		100	275	150	100	100	50	775
<b>TOTAL EXPENDITURES</b>	<b>305</b>	<b>760</b>	<b>1,440</b>	<b>2,280</b>	<b>2,095</b>	<b>2,400</b>	<b>2,350</b>	<b>11,325</b>
<b>SOURCE OF FUNDS</b>								
Water & Sewer Fund						1,600	2,000	3,600
Water Tap Fees and NCG Tap Fees	305	760	1,440	2,280	2,095	800	350	7,725
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
<b>TOTAL FUNDS</b>	<b>305</b>	<b>760</b>	<b>1,440</b>	<b>2,280</b>	<b>2,095</b>	<b>2,400</b>	<b>2,350</b>	<b>11,325</b>

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**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.

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**PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures	<b>0</b>

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

(Increase water sales from available water during the summer)

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

<b>Appropriation</b>	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.
<b>Budget</b>	The official enactment by the City Commission establishing the legal authority for the City staff to make expenditures.
<b>Capital Improvements</b>	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.
<b>Capital Improvements Budget</b>	The appropriation of operating funds and bond funds for capital improvements during the first year of a six-year program.
<b>Capital Improvements Program</b>	A plan, updated yearly, which provides for long-term physical improvements during the six-year plan period.
<b>Capital Projects Fund</b>	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.
<b>CMOM</b>	Capacity, Management, Operations and Maintenance program mandated by EPA and TDEC for sanitary sewer systems.
<b>Corridor Plan</b>	A concept master plan for the layout of a roadway section that will be generally followed in future design and engineering.
<b>Debt Service Fund</b>	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**

<b>Emergency Communications District</b>	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.
<b>Facilities Maintenance Division</b>	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.
<b>Federal Highway Administration (FHWA)</b>	The federal agency responsible for approving modification to the interstate highway system including interchanges.
<b>General Fund</b>	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.
<b>General Obligation Bonds</b>	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).
<b>Gravity Sewer System</b>	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.
<b>Grinder Pump Sewer System</b>	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.
<b>Metropolitan Nashville-Davidson County</b>	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**

<b>Metropolitan Planning Organization (MPO)</b>	The regional transportation planning organization responsible for prioritizing and allocating federal funds to various roads projects under the 1991 Surface Transportation Act.
<b>Operating Budget</b>	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.
<b>Private Sources</b>	Sources of funds, or other assets, received from individuals, businesses or foundations for use by the government for specific or general projects.
<b>Program and Facility Costs</b>	The anticipated ongoing annual expenditures associated with a new program or facility to be operated by the City.
<b>Public Works Project Fee Fund (PWPF)</b>	The fund set aside for the accumulation of transportation impact fees and the disbursement of those fees for improvements to the City's roadways.
<b>Right of Way (R.O.W.)</b>	An area set aside and controlled by a political subdivision for use by the public, generally for transportation facilities such as streets and highways.
<b>State of Tennessee</b>	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.
<b>State Street Aid Fund</b>	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**

<b>Tennessee Department of Environment and Conservation (TDEC)</b>	The department of the state government responsible for regulating discharges into streams and for distributing grants for park projects.
<b>Tennessee Department of Transportation (TDOT)</b>	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.
<b>Warrant Study</b>	A study required justifying the need for a traffic signal installation or modification.
<b>Water/Sewer Fund</b>	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.
<b>Water/Sewer Revenue Bonds</b>	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.
<b>Williamson County</b>	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.