



2017-2021 Adopted Capital Improvement Plan

City of Topeka, Kansas

Proposed March 8, 2016

Adopted April 19, 2016

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CIP Introduction and Process

The City's Capital Improvement Plan (CIP) approval process historically runs consecutively to the development of the annual City operating budget. Historically, the City Council has approved a five-year Capital Improvement Plan, which includes a two-year Capital Improvement Budget (CIB) comprised of the first two years of the plan. Beginning with the 2015 CIP, the Council was asked to adopt the CIP *before* the annual budget process, and to approve a three-year budget. This gives departments a three-year picture for capital project planning. It is noted that appropriations can only be made on an annual basis.

The following pages represent a summary of those projects scheduled to commence during the 2017 - 2019 budget years along with tables showing the adopted five-year Capital Improvement Plan. The Council's action in approving the Capital Budget authorizes staff to begin preliminary work on these projects. Included in this year's adoption of the Capital Improvement Plan are individual project sheets. If the CIP and corresponding resolution is approved, then expenditures for the projects included in this document are truly authorized, and construction work can begin when the revenue source is available. For projects financed with general obligation bonds, the project budget, bond resolution and bond ordinance provide the legal authority to issue bonds.

General Obligation (G.O.) bonds have been the primary method of financing for most projects outside of the enterprise operations. Beginning with the 2006 -2010 CIP , the City Manager recommended a citywide target of \$9,000,000 for G.O. bond projects each year, which had been roughly equivalent to the amount of principal paid each year. The City Council has continued to follow this philosophy.

Project Definition

Capital improvement projects meeting one of the following criteria shall be included in the CIP Process:

- Real property acquisition.
- Construction of new facilities and addition to existing facility costing a minimum of \$50,000.
- Remodeling/ repair of the interior/ exterior of any facility exceeding \$25,000.
- Infrastructure project.



Impact of Capital Improvement Projects on the Operating Budget

The projects approved for 2017-2021 are a mixture of new construction or expansion and projects that involve maintenance or rehabilitation and repair of existing facilities.

The majority falls into the rehabilitation and repair category. In these cases, the impact on the operating budget comes from a reduction in the demand for maintenance. However, these savings are not easily quantified as the remaining infrastructure is another year older and in need of increased maintenance.

Certain projects will have an impact on future operating budgets by either increasing or decreasing overhead costs like utilities, etc. For example, improving neighborhood infrastructure should decrease operations and maintenance costs in the operating public works budget by improving the existing infrastructure.

Project Prioritization Process

There are far more needed projects than funds available. In order to present a CIP in line with City priorities, staff conducts a prioritization activity as needed which prioritized requested projects based on a number of criteria.

The prioritization criteria used in the CIP process include: Fiscal Impact, Health, Safety, and Environment, Economic Viability and Return on Investment, and Comprehensive Plan and Smart Growth. The full prioritization process was completed for the 2015-2019 CIP, and updated for the 2016-2020 and 2017-2021 CIPs as necessary. Results from the exercise were available to staff when prioritizing CIP projects.

The recommended CIP is considered by the Planning Commission for compliance with the City's Comprehensive Plan, and the City Manager reviews the CIP for compliance with City strategic goals.

Completed CIP Projects

In January 2015, City staff compiled a 10 year CIP history capturing completed projects from 2004-2014. This was updated in early 2016 and is intended to be updated on an annual basis.

Item	Date
Staff Submits 2017-2021 CIP Requests	Dec. 2015
CIP Approved by Planning Commission	2/15/2016
CIP Presented to City Council	3/8/2016
Resolution and Project Budgets approved by Council	4/19/2016

TYPES OF PROJECTS



Types of Projects

Capital projects in the CIP are sorted by type of project to align with City priorities. Some projects may fit into several categories, so the dominant type is represented below. For example, bike lanes may be considered both Streets and Quality of Life but is included in “Streets” below. Types of projects include:

Neighborhoods 2017-2021 CIP: \$10,750,000

Projects to improve infrastructure within neighborhoods including streets, curbs, gutters, alleys and sidewalks; neighborhood projects are selected annually to leverage Stages of Resource Targeting (SORT), Community Development Block Grant (CDBG), and HOME Investment Partnership funds.

Funding source - G.O. Bonds, Federal Grants, and Utility funds.

Public Safety 2017-2021 CIP: \$13,380,232

Projects which improve Public Safety including purchase of Fire Apparatus and Fire Stations.

Funding source - G.O. Bonds and Cash

Traffic 2017-2021 CIP: \$3,485,000

Projects to improve traffic signal and traffic safety.

Funding source - G.O. Bonds.

Facilities 2017-2021 CIP: \$8,819,463

Projects to improve City facilities.

Funding source - G.O. Bonds and Cash

Streets 2017-2021 CIP: \$90,851,350

Includes maintenance of existing streets, construction of new streets, sidewalk maintenance, snow removal, bike lanes, streetscape improvements, alley repair, and curb and gutter repair.

Funding sources - G.O. Bonds, Federal Funds, Citywide Half-Cent Street Sales Tax, and Countywide Half-Cent Sales Tax.

Quality of Life 2017-2021 CIP: \$18,405,306

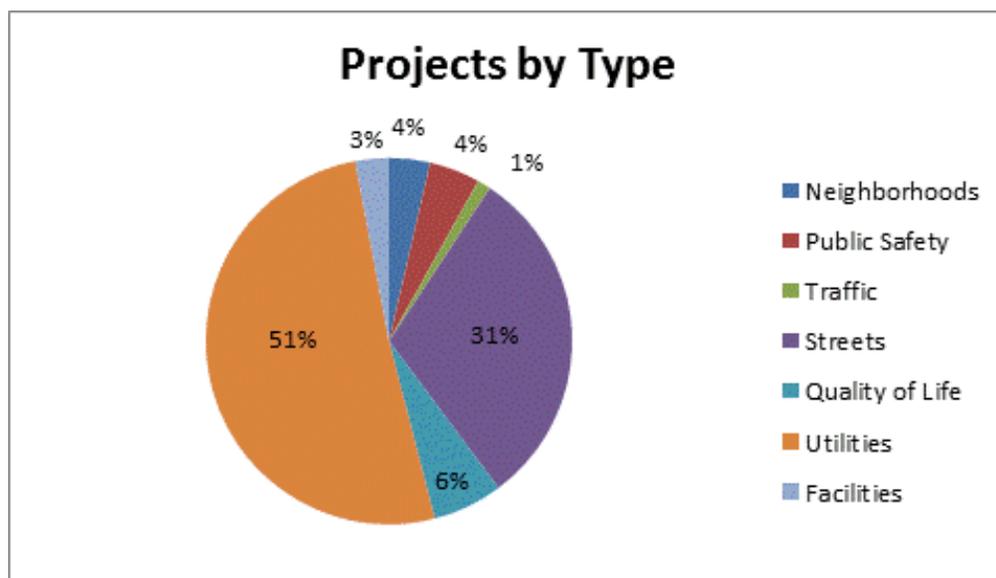
Projects that benefit quality of life including improvements to the Topeka Zoo.

Funding source - G.O. Bonds, Countywide Half-Cent Sales Tax, and Cash.

Utilities 2017-2021 CIP: \$152,009,965

Projects to improve or expand utility infrastructure.

Funding Source - cash from the Water, Wastewater, and Stormwater funds, in addition to Revenue Bonds.



HIGHLIGHTED PROJECTS



Non- Recurring Capital Projects

Detailed project sheets for all projects can be found in the CIP document. Highlighted non-recurring major projects in the 2017-2021 CIP include:

- **SW Arvonía Place/Huntoon Street/I-470 Ramps:** This project will improve traffic operations, safety, and level of service in the area of SW Arvonía Place, SW Huntoon Street, SW Winding Road, I-470 Ramps, and SW Wanamaker Road
- **Construction of South Fire Station (Station 14):** Design will begin in 2016 for a Fire Station in the Southern part of the city, location to be determined.
- **Municipal Building System Renovations:** Upgrades to City Hall including HVAC, Electrical, and Mechanical.
- **Oakland Wastewater Treatment Plant Solids Handling/Facility Upgrades Phase II:** This project will include final design and rehabilitation of the Oakland Wastewater Treatment Plant Solids Processing facility, including replacement and/or installation of all applicable appurtenant equipment and mechanical and electrical controls.
- **Zoo Master Plan:** The zoo master plan will be completed with the second round of Countywide Half-Cent Sales Tax funds. Combined with private donations, funds will include elements of the plan including Tiger Trails, Elephant Reserve, and Giraffe Canopy. This project also includes Camp Cowabunga.
- **Upstream River Weir:** Retrofit the current dam in order to enhance public safety, provide reasonable fish passage, maintain adequate upstream pool elevation for the intake and pumps, and provide navigation through the weir.
- **SW 10th Avenue -- SW Fairlawn Road to SW Wanamaker Road:** This project will widen SW 10th Avenue between SW Fairlawn Road and SW Wanamaker Road. The new roadway will include curb & gutter, sidewalks, street lighting, and a drainage system.

Recurring Capital Projects

Some projects are ongoing and reoccur every year. Highlighted recurring major projects in the 2017-2021 CIP include:

- **Neighborhood Infrastructure:** Annual project which targets certain neighborhoods and includes improvements such as rebuilding deteriorated streets, curb/gutter, alley and sidewalks.
- **Water Main Replacement Program:** Replace deteriorated water main that have a history of water main breaks. First priority is given to half-cent sales tax street projects.
- **Storm Conveyance System Rehab Program:** Replacement and rehabilitation of stormwater conveyance system components (inlets, pipes, channels, etc) to ensure continued operation, reduce maintenance and support other infrastructure improvements. First priority is given to half-cent sales tax street projects.
- **Wastewater Replacement & Rehab Program:** Replacement and Rehabilitation of sewer lining and/or replacement of conduits and manholes as well as address EPA required inflow and infiltration elimination.
- **Ongoing Half-Cent Sales Tax Maintenance and Improvement of Existing Streets:** This project will repair existing deteriorated streets at various locations city-wide.





Funding Source Definitions

Traditionally the Capital Improvement Plan utilizes a variety of funding sources. Major funding sources include:

G.O. Bond 2017-2021 CIP: \$48,751,033

General Obligation (G.O.) bonds are used to finance major capital projects with an expected life of 10 or more years. A general obligation bond is secured by the City's pledge to use any legally available resources, including tax revenue, to repay bond holders. The City used a portion of the property tax levy to finance the debt service payments.

Revenue Bonds 2017-2021 CIP: \$138,059,965*

The Water, Water Pollution Control, and Stormwater funds are enterprise funds, which are supported by fees for service rather than by taxes. Revenue bonds are a type of loan in which the loan is repaid with revenues from the enterprise, not by contributions from the General Fund. These loans are used to increase plant capacity and modernize the system.

**Will not bond full amount if cash is available.*



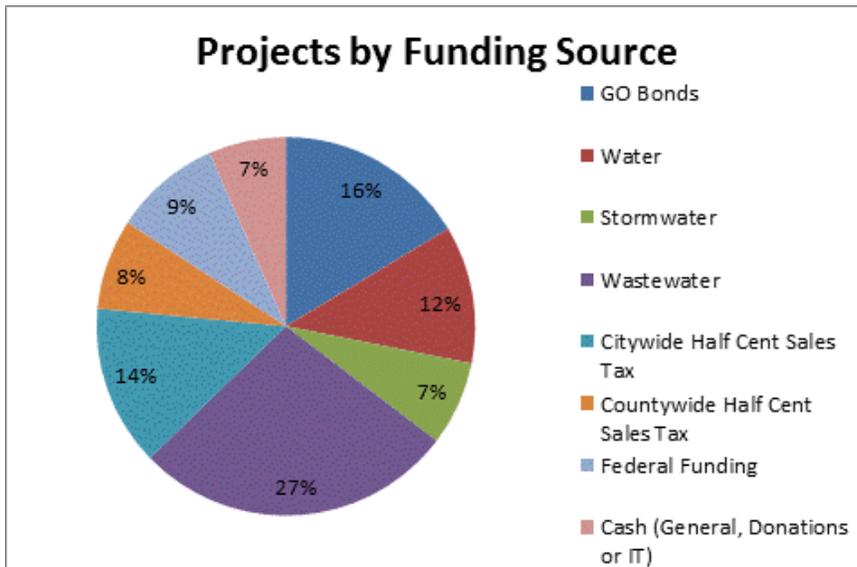
Citywide Half-Cent Street Sales Tax 2017-2021 CIP: \$40,906,350

This is funded by a voter approved half-cent sales tax initiative. It is dedicated to maintenance and repair and cannot be used for new street construction. The tax sunsets in 2019 and collects approximately \$14.7m per year.

Countywide Half-Cent Street Sales Tax 2017-2021 CIP: \$23,040,000 This is funded by a voter approved half-cent sales tax initiative. These projects represent what is proposed to be completed with the second round of funds collected from 2017-2031.

Federal Funds 2017-2021 CIP: \$27,305,000
Funds received from the Federal government.

Cash 2017-2021 CIP: \$19,638,968
When available and appropriate, the General Fund and enterprise funds pay for capital projects directly out of the operating budgets.



SUMMARY OF PROJECTS BY FUNDING SOURCE



Below is a summary of projects by Funding Source. The CIP document also includes detailed sheets for each project including project definition, Department, location, and impact on operating budgets.

UPDATED 4/19/16

Project Number	Capital Improvement Budget			Capital Improvement Plan			5 Year Total
	Proposed 2017	Proposed 2018	Proposed 2019	Proposed 2020	Proposed 2021		
General Obligation Bond Projects							
Neighborhoods							
Neighborhood Infrastructure	T-601056.00	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$7,000,000
Subtotal Citywide		\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$7,000,000
Public Safety							
South Fire Station (FS #14)	T-131037.00	\$1,768,407	\$1,636,007				\$3,404,413
Secure Staging Facility	T-801002.00				\$750,000		\$750,000
Purchase 1 Truck Apparatus (Truck 10)	T-801003.00	\$750,375					\$750,375
Purchase Two Engine Apparatus (Engines 1 & 12)	T-801004.00		\$1,345,500				\$1,345,500
Purchase One Aerial Apparatus (Aerial 8)	T-801005.00			\$1,345,500			\$1,345,500
Purchase Two Engine Apparatus (Engines 8 & 10)	T-801006.00				\$1,345,500		\$1,345,500
Purchase 2 Trucks (Trucks 3 & 9)	T-801007.00					\$1,552,500	\$1,552,500
Subtotal Fire Department		\$2,518,782	\$2,981,507	\$1,345,500	\$2,095,500	\$1,552,500	\$10,493,788
Traffic							
Traffic Safety Projects	T-601057.00	\$185,000	\$185,000	\$185,000	\$185,000	\$185,000	\$925,000
Traffic Signal Replacement	T-141020.00		\$640,000	\$640,000	\$640,000	\$640,000	\$2,560,000
Subtotal Traffic		\$185,000	\$825,000	\$825,000	\$825,000	\$825,000	\$3,485,000
Streets							
Complete Streets	T-601058.00	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Citywide Infrastructure	T-601059.00	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
SE California Ave. -- 29th St. to 33rd St.	T-701011.00	\$2,200,000	\$500,000				\$2,700,000
Bike Lanes on SE 6th & SE 10th Ave Bridges over I-70	T-861009.00					\$500,000	\$500,000
SW Arvon Place/Huntoon Street/I-470 Ramps	T-701014.00	\$1,125,000	\$1,125,000				\$2,250,000
Infill Sidewalks/Pedestrian Master Plan	T-241034.00	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,000,000
SW 10th Avenue -- SW Fairlawn Road to SW Wanamaker Road	T-701015.00	\$400,000	\$240,000	\$2,360,000	\$3,000,000		\$6,000,000
SW Wanamaker Rd/SW Huntoon/ I470 Ramps	T-701018.00			\$200,000	\$1,000,000	\$1,000,000	\$2,200,000
NW Tyler St, NW Lyman Rd to NW Beverly St	T-701019.00				\$150,000	\$1,650,000	\$1,800,000
SE 29th Street/KTA Interchange	T-701017.00				\$500,000		\$500,000
Subtotal Streets		\$4,625,000	\$2,765,000	\$3,460,000	\$5,550,000	\$4,050,000	\$20,450,000
Quality of Life							
Zoo Parking Lot Resurfacing and Enlargement	T-301052.00			\$396,267			\$396,267
Zoo Tropical Rain Forest HVAC Replacement	T-301053.00			\$194,040			\$194,040
Zoo Discovering Apes Roof Replacement	T-301054.00				\$181,913		\$181,913
Kay's Garden	T-301049.00	\$2,233,086					\$2,233,086
Subtotal Quality of Life		\$2,233,086	\$0	\$590,307	\$181,913	\$0	\$3,005,306
City Facilities							
Municipal Buildings Systems Renovation (Elec, HVAC, Mech)	T-131039.00	\$261,164					\$261,164
Municipal Building Renovations (abatement, plumbing)	T-131036.00	\$175,000	\$859,125	\$859,125	\$859,125		\$2,752,375
Sustainability Initiative: High Efficiency LEDs	T-131043.00			\$400,000	\$451,700	\$451,700	\$1,303,400
Subtotal Facilities		\$436,164	\$859,125	\$1,259,125	\$1,310,825	\$451,700	\$4,316,939
TOTAL GO Bond Projects		\$11,398,032	\$8,830,632	\$8,879,932	\$11,363,238	\$8,279,200	\$48,751,033
Total Annual Target		\$9,000,000	\$9,000,000	\$9,000,000	\$9,000,000	\$9,000,000	\$45,000,000
Difference Target to Subtotal		(\$2,398,032)	\$169,369	\$120,068	(\$2,363,238)	\$720,800	(\$3,751,033)
Difference Target to Subtotal, excluding Kay's Garden*		(\$164,946)	\$169,369	\$120,068	(\$2,363,238)	\$720,800	(\$1,517,947)

*The city is bonding the project cost, but Friends of the Zoo (FOTZ) will pay \$250,000 annually to cover the full debt payment.



Project Number	Capital Improvement Budget			Capital Improvement Plan			5 Year Total
	Proposed 2017	Proposed 2018	Proposed 2019	Proposed 2020	Proposed 2021		
Utility Funded Projects							
Utilities/Wastewater Fund							
Wastewater Lining & Replacement Program	T-291042.00	\$1,000,000	\$1,000,000				\$2,000,000
Adams Street Interceptor Sewer Rehabilitation	T-291041.00	\$1,550,000					\$1,550,000
Lining Repairs - NTWWTP and Wanamaker PS	T-291043.00	\$321,586	\$1,178,414				\$1,500,000
Eastside IS-Relief-CSO#3 to Ash St PS	T-291050.00		\$900,000	\$7,448,760			\$8,348,760
NTWWTP Nutrient Removal	T-291052.00				\$6,363,627		\$6,363,627
Oakland WWTP - UV Expansion	T-291062.00			\$2,703,750			\$2,703,750
Wastewater Plant Operations Equipment & Fleet Maint. & Replacement Program		\$300,000	\$100,000	\$300,000	\$100,000	\$300,000	\$1,100,000
WPC Inflow & Infiltration Program	T-291063.00	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
Oakland Wastewater Treatment Plant Solids Handling/Facility Upgrades Phase II	T-291018.02	\$8,098,274					\$8,098,274
Neighborhood Infrastructure	T-601056.00	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
Combined Sewer Overflow Management Plan**	T-291046.00	\$391,000					\$391,000
WPC Facility Rehabilitation Program	T-291064.00	\$1,000,000	\$1,000,000				\$2,000,000
ADS System Meter Upgrade & Maint. Program		\$200,000	\$200,000	\$200,000	\$200,000	\$315,000	\$1,115,000
Small WW Pump Station Rehab & Repl Program.	T-291065.00	\$1,500,000	\$1,500,000				\$3,000,000
Sanitary Sewer Interceptor Maint & Rehab	T-291066.00	\$1,500,000	\$1,500,000				\$3,000,000
SCADA System Upgrade	T-291055.00	\$406,000					\$406,000
Wanamaker Force Main Rehab Repl	T-291056.00	\$125,000	\$8,500,000				\$8,625,000
Ash St Force Main Replacement	T-291057.00	\$2,500,000	\$2,500,000				\$5,000,000
Shunga Pump Station Rehab	T-291058.00	\$300,000	\$6,500,000				\$6,800,000
WW Pump Station VFD Replacement	T-291059.00	\$1,000,000					\$1,000,000
Oakland Aerator & Mixing Replacement	T-291060.00	\$2,500,000	\$2,500,000				\$5,000,000
Grant/Jefferson Pump Station Rehab	T-291061.00		\$1,321,000	\$9,000,000			\$10,321,000
Subtotal Wastewater		\$23,341,860	\$29,349,414	\$20,302,510	\$7,313,627	\$1,265,000	\$81,572,411
Utilities/Stormwater Fund							
Storm Conveyance System Rehab	T-501025.00	\$2,500,000	\$1,000,000				\$3,500,000
Kansas River Levee System Rehabilitation - Ph. II	T-831000.01	\$3,600,000	\$2,700,000				\$6,300,000
Levee Repairs / Replacement Program	T-501012.00	\$4,726,700					\$4,726,700
Adams St IS SW Removal - KS River to 10th St.**	T-501024.00	\$2,456,828					\$2,456,828
Stormwater Operations Equipment & Fleet Mant. & Replacement Program		\$100,000	\$300,000	\$100,000	\$300,000	\$100,000	\$900,000
Drainage Correction Program	T-151028.00	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
Levee Asset Repair / Rehab		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
BMP Development & Construction Program		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Shunga Flood Mitigation Study	T-151000.01	\$560,000					\$560,000
Subtotal Stormwater		\$14,543,528	\$4,600,000	\$700,000	\$900,000	\$700,000	\$21,443,528
Utilities/Water Fund							
Water Main Replacement Program	T-281088.00	\$3,000,000	\$3,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$10,500,000
Water Plant Rehabilitation Program	T-281110.00	\$1,300,000	\$1,000,000	\$500,000	\$200,000	\$200,000	\$3,200,000
18" on Indian Hills Rd., SW 29th to 21st St.	T-281090.00	\$539,100	\$1,288,250				\$1,827,350
2.2-MGD Meriden Booster Pump Station	T-281091.00	\$788,826					\$788,826
East High Service Pumping Motor Control and Electrical Switch Gear	T-281107.00		\$2,689,950				\$2,689,950
2.0-MG West Elevated Tank - Indian Hills Road	T-281055.00		\$4,744,300				\$4,744,300
Water Plant Operations Equipment & Fleet Maint. & Replacement Program		\$300,000	\$200,000	\$100,000	\$100,000	\$100,000	\$800,000
24" on Crane - NW Harrison to NE Branner; 24" on Jefferson - NE Crane to SE 2nd	T-281086.00	\$491,100					\$491,100
Annual Valve & hydrant Exercising Repl Program		\$200,000					\$200,000
Meter Replacement / AMR Upgrade Program		\$200,000	\$200,000	\$250,000	\$250,000	\$250,000	\$1,150,000
Water Storage Tank Maint (Inspect-Repair-Painting)		\$200,000	\$200,000	\$250,000	\$250,000	\$250,000	\$1,150,000
Rehab East Filters at the Water Treatment Plant	T-281102.00	\$1,600,000					\$1,600,000
Water Treatment Plant Master Plan Update	T-281103.00	\$200,000					\$200,000
Water Distribution Master Plan Update	T-281105.00	\$150,000					\$150,000
24" NE Strait from NE Seward to SE 6th Ave	T-281104.00	\$2,700,000					\$2,700,000
Phase II Layne High Service Pump Rehabilitation	T-281032.01	\$1,402,500					\$1,402,500
Utility Billing and Customer Service System	T-801013.00	\$500,000	\$650,000				\$1,150,000
Upstream River Weir	T-281058.01	\$300,000					\$300,000
Subtotal Water		\$13,871,526	\$13,972,500	\$2,600,000	\$2,300,000	\$2,300,000	\$35,044,026
Total Utility Fund		\$51,756,914	\$47,921,914	\$23,602,510	\$10,513,627	\$4,265,000	\$138,059,965

** This effort is part of a Consent Order Agreement by and between KDHE and the City of Topeka

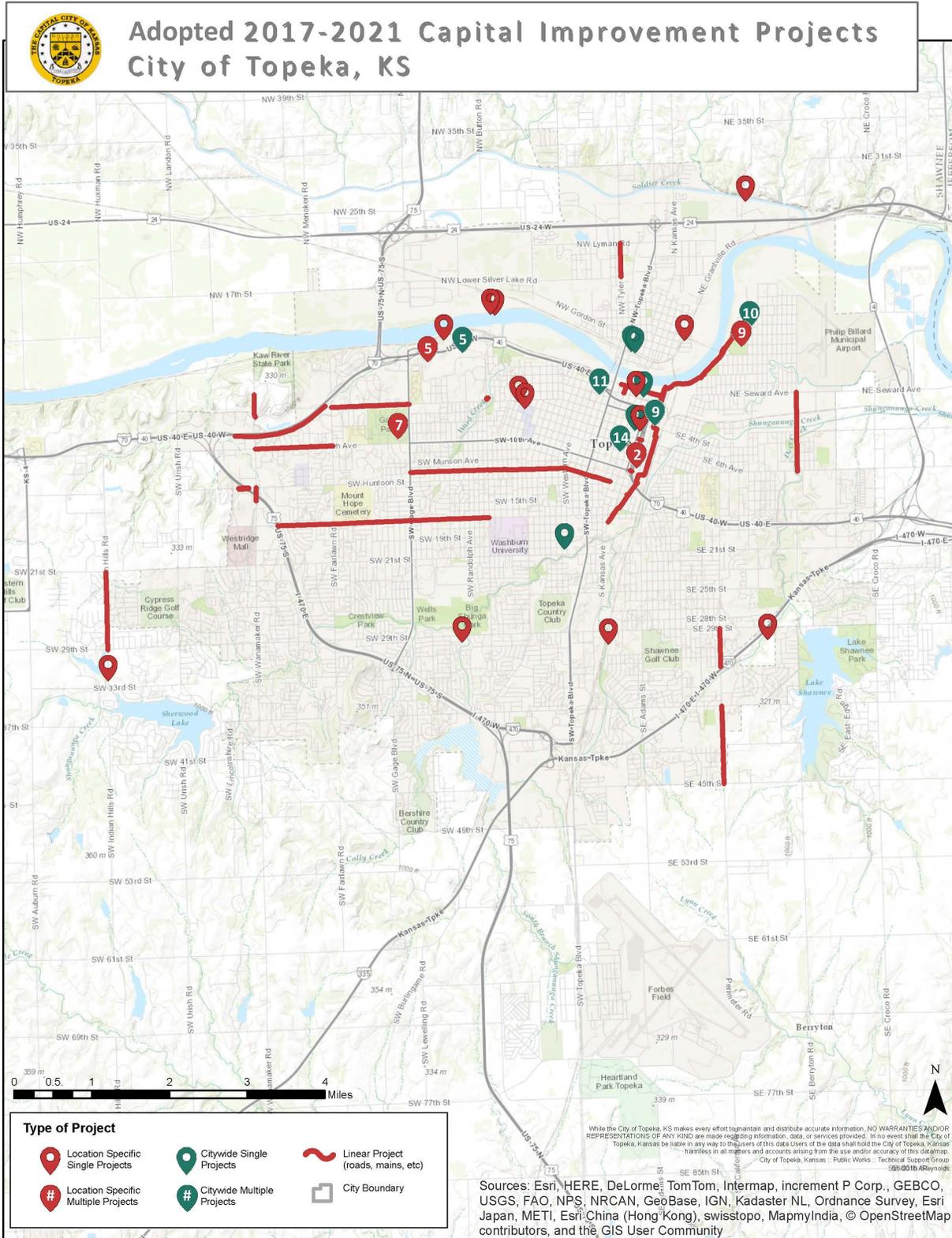


		Capital Improvement Budget			Capital Improvement Plan		
		Proposed 2017	Proposed 2018	Proposed 2019	Proposed 2020	Proposed 2021	5 Year Total
Other Funding Sources							
City Half-Cent Sales Tax Street Repair							
Maintain & Improve Existing Streets 2017	T-841017.00	\$9,350,000					\$9,350,000
Maintain & Improve Existing Streets 2018	T-841017.01		\$9,485,000				\$9,485,000
Maintain & Improve Existing Streets 2019	T-841017.02			\$9,621,350			\$9,621,350
ADA Sidewalk Ramp Repair	T-241036.00	\$300,000	\$300,000	\$300,000			\$900,000
Curbs, Gutters & Street Repair	T-841034.00	\$1,500,000	\$1,500,000	\$1,500,000			\$4,500,000
Alley Repair	T-841041.00	\$250,000	\$250,000	\$250,000			\$750,000
Sidewalk Repair Program	T-241037.00	\$100,000	\$100,000	\$100,000			\$300,000
Street Maintenance and Repair: Local Streets	T-841040.00	\$2,000,000	\$2,000,000	\$2,000,000			\$6,000,000
Subtotal Half-Cent Sales Tax		\$13,500,000	\$13,635,000	\$13,771,350	\$0	\$0	\$40,906,350
Federal Funds							
Bridge on SW Cherokee St over Ward Cr.	T-121001.00	\$50,000	\$730,000				\$780,000
Bridge on SW 3rd St over Ward Cr.	T-121003.00	\$75,000	\$50,000	\$750,000			\$875,000
Bridge on SE 29th Street over Butcher Creek	T-121005.00		\$80,000	\$70,000	\$850,000		\$1,000,000
Neighborhoods Infrastructure	T-601056.00	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,000,000
Kansas River Levee System Rehabilitation - Ph. II	T-831000.01	\$10,000,000	\$5,000,000				\$15,000,000
Upstream River Weir (Federal Portion)	T-281058.01	\$500,000					\$500,000
Bridge Deck Patching and Polymer Overlay	T-121006.00					\$1,200,000	\$1,200,000
SW Arvon Place/Huntoon Street/I-470 Ramps	T-701014.00	\$1,375,000	\$1,375,000				\$2,750,000
SW Wanamaker Rd/SW Huntoon/ I470 Ramps	T-701018.00				\$1,100,000	\$1,100,000	\$2,200,000
Subtotal Fed Funds		\$12,600,000	\$7,835,000	\$1,420,000	\$2,550,000	\$2,900,000	\$27,305,000
General Fund/Debt Service Cash							
Fire Stations Renovations	T-131035.00	\$170,000	\$230,000				\$400,000
Police Department Fleet Replacement		\$550,000	\$550,000	\$250,000	\$250,000	\$250,000	\$1,850,000
Heritage Foundation Grant for TPAC & City Hall (City Portion)	T-131042.00	\$383,800					\$383,800
Zoo - Fire Hydrants	T-301050.00	\$150,000					\$150,000
Municipal Buildings Roof Replacement	T-131040.00	\$73,000					\$73,000
Law Enforcement Center Parking Garage	T-131041.00	\$887,000					\$887,000
Zoo Service Road Repair	T-301051.00		\$206,724				\$206,724
Self Contained Breathing Apparatus (SCBA) - Fire	T-801009.00		\$159,111	\$159,111	\$159,111	\$159,111	\$636,444
City4 TV Equipment Replacement	T-861011.00	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000
Subtotal General Fund Cash		\$2,283,800	\$1,215,835	\$479,111	\$479,111	\$479,111	\$4,936,968
IT Fund Cash							
Telephone System Replacement		\$137,000	\$137,000				\$274,000
Desktop Computer Replacement		\$83,250	\$83,250	\$83,250	\$83,250		\$333,000
Security System Replacement		\$52,500	\$52,500	\$52,500	\$52,500		\$210,000
Data Back-up System Replacement		\$62,500	\$62,500	\$62,500	\$62,500		\$250,000
Citywide Single Payment Portal	T-801011.00	\$200,000	\$190,000				\$390,000
Citywide Asset Management Upgrade	T-801012.00		\$360,000	\$300,000			\$660,000
Data Center Construction	T-801010.00	\$245,000					\$245,000
Subtotal IT Fund Cash		\$780,250	\$885,250	\$498,250	\$198,250	\$0	\$2,362,000
Donations/Outside Funding Sources							
Zoo Masterplan	T-301047.00		\$1,600,000	\$1,500,000	\$3,000,000	\$5,000,000	\$11,100,000
Heritage Foundation Grant for TPAC & City Hall	T-131042.00	\$90,000					\$90,000
SW Wanamaker -- SW 4th to SW 6th	T-701020.00	\$650,000					\$650,000
Kay's Garden	T-301049.00	\$500,000					\$500,000
Subtotal Donations		\$1,240,000	\$1,600,000	\$1,500,000	\$3,000,000	\$5,000,000	\$12,340,000
Countywide Sales Tax Proposal (2017-2031)							
SW 6th-Gage to Fairlawn	T-701013.00	\$500,000	\$5,100,000				\$5,600,000
Zoo Masterplan	T-301047.00		\$1,500,000	\$1,500,000			\$3,000,000
Bikeway Master Plan	T-861010.00		\$500,000		\$500,000		\$1,000,000
12th Street (2 lanes) - Gage Blvd to Kansas Ave	T-701016.00			\$500,000	\$400,000	\$6,140,000	\$7,040,000
SE California Avenue -- SE 37th Street to SE 45th Street	T-701021.00		\$400,000	\$200,000	\$5,000,000		\$5,600,000
S.W. 17th Street, MacVicar to Interstate 470						\$800,000	\$800,000
Subtotal Countywide Sales Tax		\$500,000	\$7,500,000	\$2,200,000	\$5,900,000	\$6,940,000	\$23,040,000
Total Other Sources		\$30,904,050	\$32,671,085	\$19,868,711	\$12,127,361	\$15,319,111	\$110,890,318
Total Capital Improvements		\$ 94,058,996	\$ 89,423,631	\$ 52,351,153	\$ 34,004,226	\$ 27,863,311	\$ 297,701,316

MAP OF PROJECTS



Capital Improvement Plan projects occur throughout the City. Below is a map showing where the 2017-2021 projects will occur. Note that Citywide projects, like half-cent sales tax projects, will occur in multiple locations but are represented by a single blue point.



DEBT SERVICE OBLIGATIONS



Debt Summary

The City of Topeka debt management policy is to maintain the City's ability to incur present and future debt at the most beneficial rates in amounts needed for financing the adopted Capital Improvement Plan without adversely affecting the City's ability to finance essential services.

Review and analysis of the City's debt position is required to provide a capital financing plan for infrastructure and other improvements. Long-term projected financing is linked with economic development, demographic and financial resources expected to be available to repay debt. City debt ratios are examined as well as the impact of future debt financing on those ratios.

Funding sources for debt payments include property taxes, sales taxes, special assessments, fees for services and water, wastewater, and stormwater fees.

Debt Policy

On November 23, 2004, the governing body of Topeka approved resolution number 7554 that established debt management policy. The policy set forth guiding principles for debt issuance in the following areas:

1) Definition of a capital project

2) Benchmarks desired to achieve

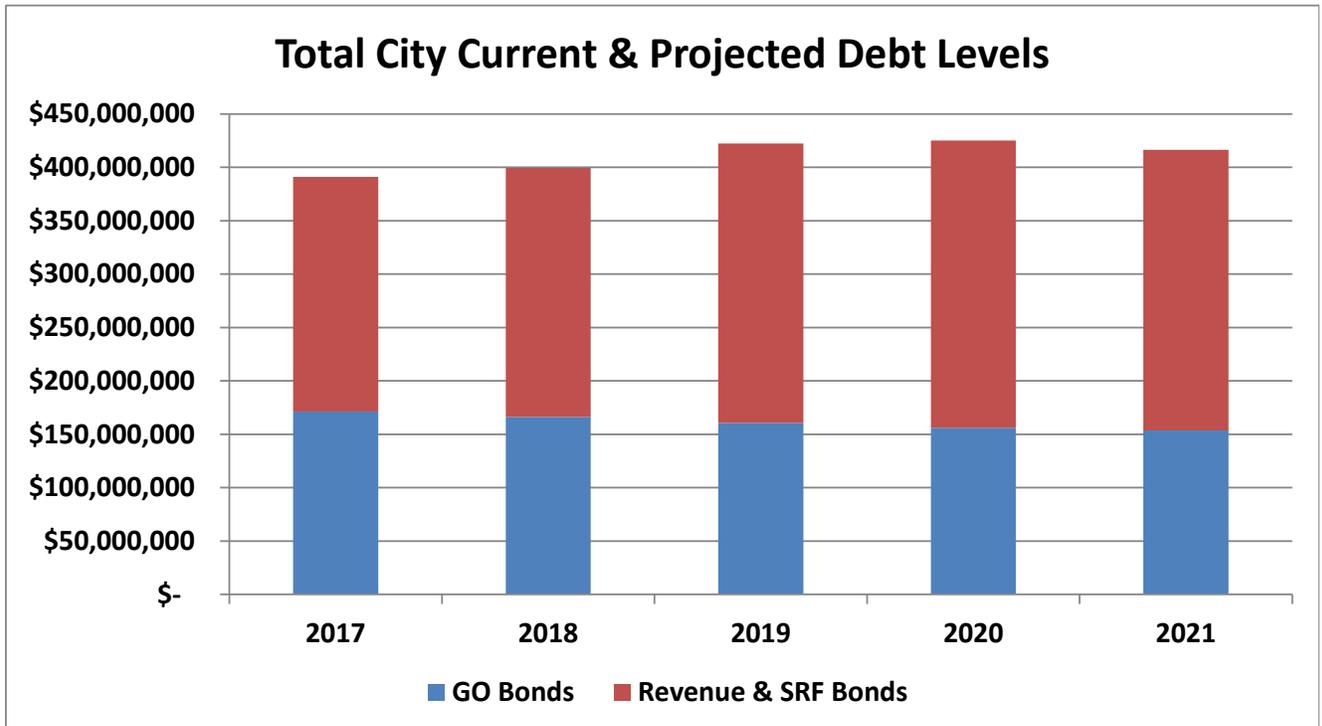
3) Characteristics of debt issuance

4) Debt administration and financing

This policy was created to enhance the creditworthiness and prudent financial management of the City's resources and assist in creating a systematic capital plan. This policy is located in the policies section of the budget book for more detailed information.

Several benchmarks are included in the City's debt policy that serve as a guidance for staff on debt issuance. The benchmarks are as follows:

- Net debt per capita should remain under \$950
- Net debt as a % of assessed valuation should not exceed 13%
- Ratio of debt payments as a % of governmental fund expenditures should not exceed 14%
- Debt per capita as a % of personal income per capita should not exceed 5%
- Maintain a General Fund balance equal to no less than 10% of revenue for the preceding year
- Maintain a bond credit rating of
 - a. General Obligation Bonds rate "Aa3"



DEBT SERVICE OBLIGATIONS



- a. Revenue Bonds rated "A2"
- b. General Obligation Temporary Notes rated "Mig-1"
- Maintain a minimum ratio of Combined Utility Fund revenues to annual total revenue bond debt service requirements of 125%, and maintain operating reserves of 90 days.

Note current bond ratings can be found at Topeka.org.

Debt Capacity

Finance staff oversee all debt issued by the City, which includes General Obligation (GO), revenue backed, revolving loan funds, temporary notes and special assessment debt. As of December 31, 2015 the City had \$387,604,808 in total debt, compared to \$388,463,077 on December 31, 2014 or a .22% decrease. According to K.S.A. 10-308, the City is limited to general obligation debt that cannot be greater than 30% of the tangible assessed valuation of the City. Certain debt is then not subject to the debt limitation and is subsequently backed out of the calculation. As of December 31, 2015, the City had \$282,393,004 of its remaining bonding authority available, an increase of approximately .04% over the December 31, 2014 amount of \$281,148,740. The City is currently utilizing 18% of the debt authority as authorized by State statute.

Statement of Legal Debt Limit as of December 31, 2015

A	Tangible Assessed Valuation	1,150,524,542
B	Debt Limit - 30% of Assessed Valuation (A*.3=B)	345,157,363
	Bonded Indebtedness	158,385,000
	Temporary Notes	49,620,000
C	Total Net Debt	208,005,000
D	Less Exemptions Allowed by Law	145,240,642
E	Legal Debt Applicable to Debt Margin (C-D=E)	62,764,358
F	Debt Authority Remaining (B-E=F)	282,393,004

DEBT SERVICE OBLIGATIONS



Projected General Obligation Debt

The level of City GO at-large debt will decrease in the duration of the CIP. City debt levels will continue to decrease over time.

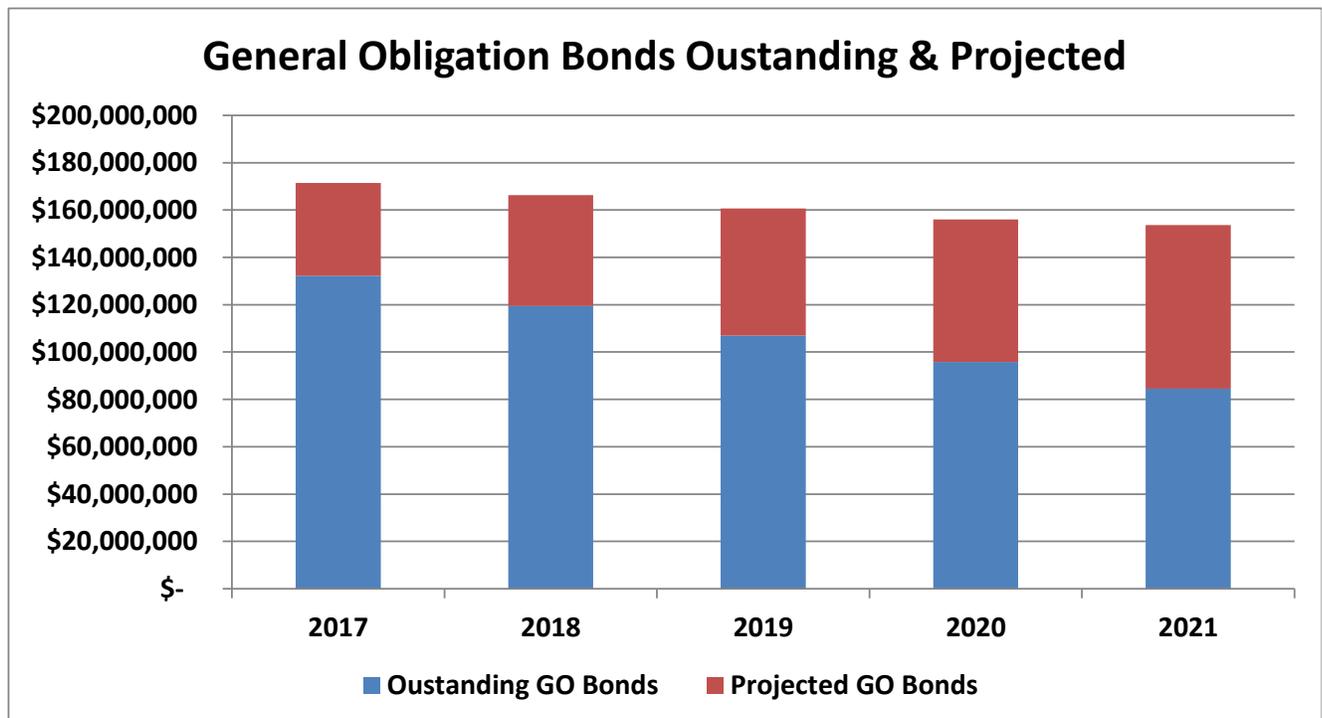
At the end of the current planning period, GO debt is projected to decrease to \$153,700,637 in 2021 from \$171,460,447 in 2017. This represents a 10% decrease from the 2017 projected levels to the 2021 projected levels. Current outstanding bonds are projected to decrease from \$132,215,000 in 2017 to \$84,580,000 in 2021, this represents a 36% decrease. Projected new general obligation debt is expected to increase by \$39,245,447 in 2017 and increase to \$69,120,637 in 2021, a 76% increase, minus any expected principal payments to occur during those years.

The City of Topeka in 2015 shifted from a 20 year debt cycle, down to a 15 year cycle. This downward trend will continue to assist the City in paying down debt at a faster pace than before.

In addition, the City Council has implemented a policy practice to assist in decreasing the amount of debt by limiting the amount of debt in the planning period to approximately \$9 million. This policy has decreased the amount of debt outstanding for the City over the planning period.

Projected GO Debt Issuance		
Year	Amount	Total Outstanding Debt
2017	\$11,615,073	\$171,460,447
2018	\$9,164,946	\$166,341,722
2019	\$8,830,632	\$160,620,797
2020	\$8,879,932	\$155,984,187
2021	\$11,763,268	\$153,700,637

The debt service fund is projected to maintain a flat mill levy over the planning period. In addition it is projected to maintain a 15% fund balance in case of any emergencies to have a sufficient reserve balance.



DEBT SERVICE OBLIGATIONS



Projected Utility Revenue Bonds & SRF Loans

The level of City Revenue Bonds will increase in the duration of the CIP. City revenue and state revolving loan funds will increase over time, due to new issuance of revenue bonds.

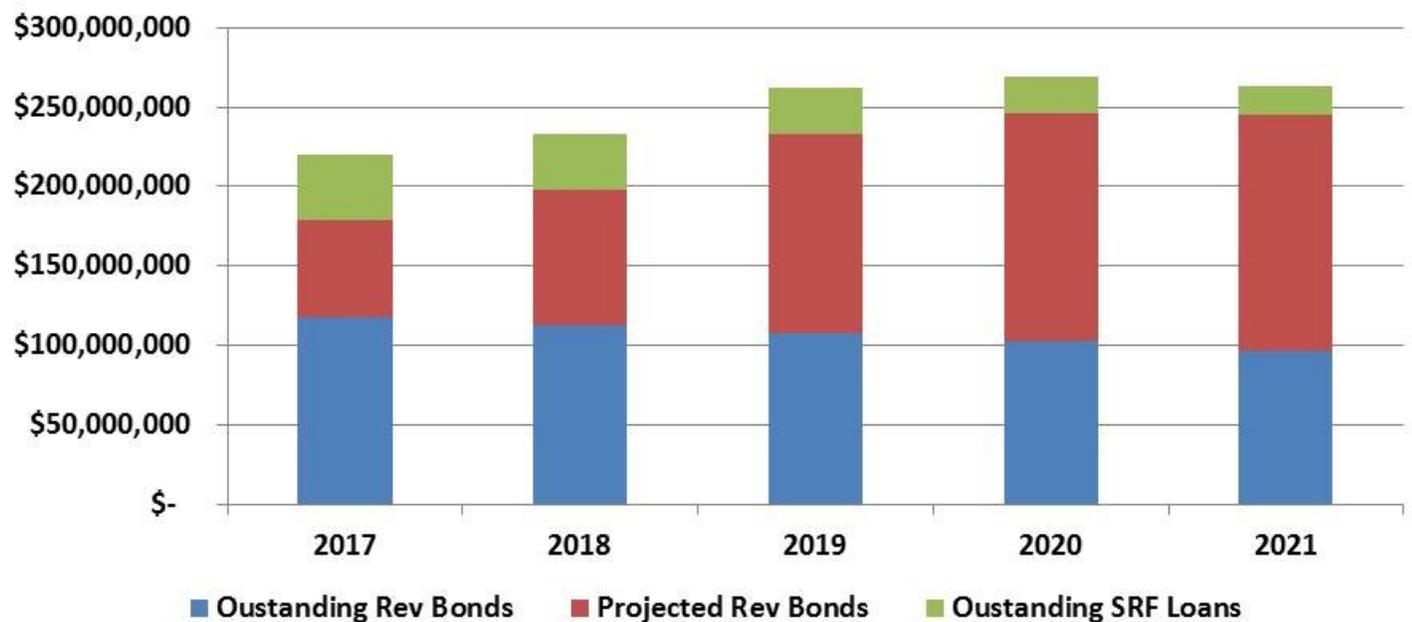
At the end of the current planning period, total utility debt is projected to increase to \$262,769,126 in 2021 from \$219,607,048 in 2017. This decrease represents a 24% increase from the 2017 projected levels to the 2021 projected levels. Current revenue bonds are projected to decrease from \$118,105,000 in 2017 to \$96,505,000 in 2021, this represents a 19% decrease. Current State Revolving Loan funds (SRF) are projected to decrease from \$40,931,607 in 2017 to \$18,086,214 in 2021, this represents a 65% decrease.

Projected new revenue bond debt is expected to increase by \$60,570,440 in 2017 and increase to \$148,177,912 in 2021, a 145% increase, minus any expected principal payments to occur during those years.

The pro forma included in the financial section of the CIP does not include any rate increases at this time. However, rate increases will need to be considered starting in 2018 and moving forward in order to maintain the financial viability of the funds moving forward.

Projected Revenue Bond Debt Issuance		
Year	Amount	Total Outstanding Rev & SRF Debt
2017	\$31,093,774	\$219,607,048
2018	\$25,574,012	\$233,049,969
2019	\$41,621,914	\$261,833,424
2020	\$20,652,510	\$269,122,367
2021	\$7,563,627	\$262,769,126

Utility Revenues Bonds & SRF Outstanding & Projected





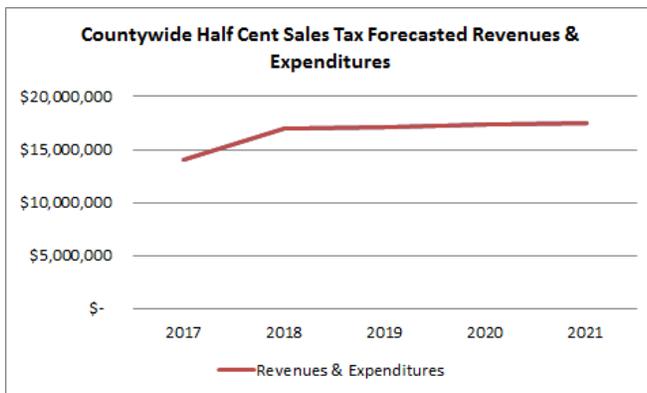
Other Fund Impacts

In addition to the Debt Service and Utility Funds, several other funds are impacted by the adoption of the Capital Improvement Plan.

Countywide Half Cent Sales Tax Fund

This fund tracks the Countywide Half Cent Sales Tax being received from the state and transferred over to the Joint Economic Development Organization (JEDO) for the funding for economic development and countrywide infrastructure development as authorized by voters in August 2004, and renewed in November 2014. It is governed by interlocal agreements. The fund also tracks the transfers back to the City for projects and the bridge payment as well as the City's shared costs such as audit and bank fees.

The Countywide Half Cent Sales Tax was extended through 2031, at which point voters will decide whether or not to continue the special sales tax. Money will be expended until projects are complete and the fund is depleted.

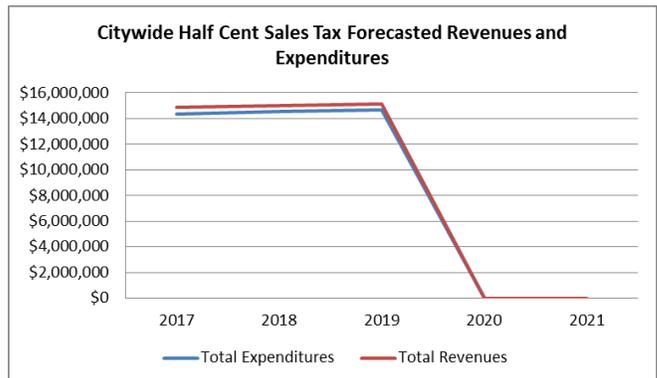


Citywide Half Cent Sales Tax Fund

The City levies a half cent sales tax for street, curb, gutter, sidewalk replacement. The fund receives the sales tax and monitors the expenses for the repair projects. Specific programs in this fund include: Street Projects, Alley Projects, Sidewalk Projects, 50/50 Sidewalk Projects, and Curb and Gutter Projects.

This sales tax will continue to collect until 2019, and revenues are projected to grow 1% per year. Revenues are heavily contingent on the economy and spending patterns. The majority of this fund's expenditures support projects in the Capital

Improvement Plan, as well as some staff support costs. The high fund balance accumulated at the end of 2014 allowed the City to increase spending in 2016 to create a one-time influx of money to improve neighborhood streets. The remaining cash balance is spent in year 2020 as the tax ends in 2019.

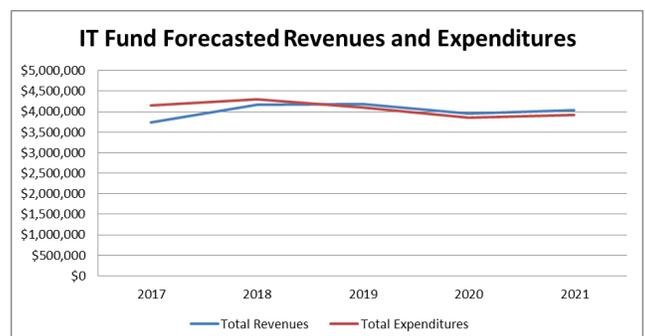


Information Technology Fund

The technology needs of the City are funded through this internal service fund, supported by fees from Departments. Programs included in this fund are Telecom, Computing and Business Systems, and 14 employees are budgeted in this fund.

Revenues are generated from Departments based on anticipated technological needs. Expenditures vary year to year: Some purchases are annual and others are infrequent, one-time technology purchases. IT projects are included starting with the 2017 CIP; it is important that future CIP's continue to capture capital projects in this fund as technology is constantly changing and capital needs will need to be revised regularly.

A cash balance allows for several significant projects to be implemented between 2017-2020.



OTHER FUND FORECASTS



Debt Service Fund

The major source of revenue in the Debt Service fund is property tax. Additionally the fund receives revenues for special purposes such as transfers for Countywide Half Cent Sales Tax projects, sales tax generated for Heartland Park, and special assessments. The majority of expenses in the Debt Service fund are for principle and interest payments which are based on a pay schedule. The City's goal is to transition from a 20-year payback schedule to 15-year payback schedule.

The adoption of this CIP would maintain a constant mill levy, while also building flexibility to spend cash on several projects rather than financing.

Debt Service Fund Pro Forma					
	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast	2021 Forecast
Cash Balance January 1	\$ 3,496,983	\$ 3,068,631	\$ 3,015,417	\$ 2,964,425	\$ 3,154,854
Budgeted Revenues					
Ad Valorem Taxes	\$ 14,614,734	\$ 14,856,252	\$ 15,135,612	\$ 15,453,299	\$ 15,783,650
Sales Tax	\$ 20,000	\$ 80,000	\$ 130,000	\$ 150,000	\$ 170,000
Motor Vehicle	\$ 1,330,103	\$ 1,343,404	\$ 1,356,838	\$ 1,370,406	\$ 1,384,110
Licenses & Permits	\$ -	\$ -	\$ -	\$ -	\$ -
Intergovernmental	\$ 40,000	\$ 200,000	\$ 240,000	\$ 270,000	\$ 270,000
Special Assessments	\$ 2,711,759	\$ 2,711,759	\$ 2,634,799	\$ 2,634,799	\$ 2,594,279
Miscellaneous	\$ 840,862	\$ 846,142	\$ 601,514	\$ 606,981	\$ 612,544
PILOTS	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
Total Budgeted Revenues	\$ 19,597,457	\$ 20,077,557	\$ 20,138,762	\$ 20,525,486	\$ 20,854,583
Budgeted Expenditures					
Contractual	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000
Other Payments	\$ 19,980,809	\$ 20,085,771	\$ 20,144,754	\$ 20,290,057	\$ 20,785,775
Total Expenditures	\$ 20,025,809	\$ 20,130,771	\$ 20,189,754	\$ 20,335,057	\$ 20,830,775
Over/Under	\$ (428,352)	\$ (53,214)	\$ (50,992)	\$ 190,429	\$ 23,808
Cash Balance - December 31	\$ 3,068,631	\$ 3,015,417	\$ 2,964,425	\$ 3,154,854	\$ 3,178,662
Fund Balance	15.66%	15.02%	14.72%	15.37%	15.24%

Future Funding List

In addition to the funded projects in the debt service fund and other funds, there is also a list of future funding projects on page 140. These projects are intended to be initiated when funding becomes available, but are not currently included in the individual fund forecasts. The total estimated costs for the unfunded streets projects is \$75m. It is expected that the funding sources for these projects will be a combination of general obligation bonds, Citywide Half Cent Sales Tax, cash, or other funding sources.

OTHER FUND FORECASTS



The Combined Utility Pro Forma below assumes no rate increases in 2018-2021. As has been mentioned, in order to improve debt coverage ratios and days cash, revenues must increase or expenditures must decrease.

Combined Utilities Pro Forma					
	2017	2018	2019	2020	2021
Cash Balance January 1	\$ 26,408,266	\$ 28,347,355	\$ 28,659,521	\$ 29,164,420	\$ 26,861,745
Budgeted Revenues:	5.0%	0.0%	0.0%	0.0%	0.0%
Permits	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Fees for Service	\$ 68,405,750	\$ 68,405,750	\$ 68,405,750	\$ 68,405,750	\$ 68,405,750
Interest	\$ 480,000	\$ 480,000	\$ 480,000	\$ 480,000	\$ 480,000
Surcharges	\$ 318,150	\$ 318,150	\$ 318,150	\$ 318,150	\$ 318,150
Miscellaneous	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000
Other	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
Total Budgeted Revenues	\$ 70,138,900	\$ 70,138,900	\$ 70,138,900	\$ 70,138,900	\$ 70,138,900
Budgeted Expenditures					
Personnel	\$ 15,643,550	\$ 15,878,203	\$ 16,116,376	\$ 16,358,122	\$ 16,603,494
Contractual	\$ 22,815,701	\$ 23,495,937	\$ 22,681,126	\$ 23,021,343	\$ 23,366,663
Commodities	\$ 7,459,466	\$ 7,571,358	\$ 7,684,928	\$ 7,800,202	\$ 7,917,205
Other Payments	\$ 18,280,094	\$ 19,931,236	\$ 21,351,570	\$ 23,461,908	\$ 24,541,920
Capital Outlay	\$ 4,001,000	\$ 2,950,000	\$ 1,800,000	\$ 1,800,000	\$ 1,800,000
Total Expenditures	\$ 68,199,812	\$ 69,826,734	\$ 69,634,001	\$ 72,441,575	\$ 74,229,282
Over/Under	\$ 1,939,088	\$ 312,166	\$ 504,899	\$ (2,302,675)	\$ (4,090,382)
Cash Balance - December 31	\$ 28,347,355	\$ 28,659,521	\$ 29,164,420	\$ 26,861,745	\$ 22,771,363
Fund Balance	40.42%	40.86%	41.58%	38.30%	32.47%

Future Funding List

In addition to the funded projects in utilities, there is also a list of future funding projects on page 140. These projects are intended to be initiated when funding becomes available, but are not currently included in the pro forma. The total estimated costs for the unfunded utility projects is \$126m.



Combined Utility Funds

For the purposes of revenue bonds and bond ratings, the Water, Stormwater and Wastewater Funds are combined into a Combined Utility Fund. However it's important to understand each fund separately.

Water Fund: The Water Utility supplies drinking water to Topeka, Shawnee County and surrounding counties. The Utility is operated, maintained, and improved entirely by fees for services.

Revenues in the water fund are dependent on both usage and rates. Usage varies year to year based on customer needs and weather, and rates are set by the Governing Body. In 2015, the city incorporated rate increases for the first time since 2011 to cover rising costs.

Stormwater Fund: The Stormwater Utility serves approximately 47,000 customers through the operation and maintenance of the Topeka flood protection and drainage systems. The Utility is operated, maintained, and improved entirely by user fees.

Revenues in the Stormwater fund are generated by fees, which are based on the amount of impervious area a property contains. The Stormwater fund supports both personnel to complete projects in-house and contractual services for projects. Revenues and expenditures are projected to remain relatively steady.

Wastewater Fund: Wastewater Utility collects and treats approximately 18 million gallons of wastewater per day from the City of Topeka and Shawnee County. The Utility is operated, maintained, and improved entirely by fees for service.

Revenues in the wastewater fund are dependent on both usage and rates. Usage varies year to year based on customer demand and rates are set by the Governing Body. In 2015 the city incorporated budget increases for the first time since 2011.

Financial Analysis

From a bond rating perspective, Days Cash and Debt Service Coverage are important indicators. Days Cash represents how many days the utility could operate with its cash balance, and coverage ratio is the ratio of cash available for debt servicing to interest, principal, and lease payments.

The proposed 2017-2021 CIP would result in the following days cash and debt service coverage ratios. While all years meet minimum standards, it is not a best practice to decrease either indicator.

Projected Revenue Bonds		
Year	Days Cash	Debt Service Coverage
2017	206	2.22
2018	203	1.85
2019	206	1.71
2020	187	1.43
2021	162	1.32



General Obligation Bond Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Neighborhood Infrastructure 2. Project #: T-601056
 3. Dept/Div: Public Works/Engineering/Neighborhood Relations 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace x 6. Project Location Various Locations
 7. Contact Name: Shawn Bruns/Sasha Haehn 8. Contact Phone: 368-3033 & 368-4484

9. Project Description: This project is a component of the Stages of Resource Targeting program (SORT). The City generally targets a majority of Neighborhood Relation's resources in two redevelopment areas or neighborhoods per year, those being North Topeka West and Hi-Crest in 2016 and 2017. The neighborhood infrastructure piece includes improvements such as rebuilding deteriorated streets, curb/gutters, alleys and sidewalks. These funds are leveraged with the Community Development Block Grant (CDBG) and HOME Investment Partnerships (HOME) funds utilized for housing rehab and construction.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost
	Year	Amount	
a. Design/Administrative Fees		\$ 100,000	<u>Basis for Cost Estimate and Funding Source:</u> The funding source for street repair work is primarily Motor Fuel Tax. This project should provide a net reduction in operating costs by improving deteriorated infrastructure elements.
b. Right-of Way		\$ -	
c. Construction/Service Fees		\$ 1,910,000	
d. Contingency		\$ 50,000	
e. Technology		\$ -	
f. Financing Costs (Temp Notes)		\$ 60,000	
g. Cost of Issuance (Rev/GO Bonds)		\$ 30,000	
h. Debt Reserve Fund (Rev Bonds)		\$ -	
i. Capitalized Interest		\$ -	
Project Total		\$ 2,150,000	
Estimated Life of Item (years):	<u>30</u>		
Source of Estimate/Year:	<u>2012</u>		

12. Amount by source of financing

	1. G.O. Bonds	2. Federal Funding	3. Wastewater Cash	4.	5.	TOTAL
2017	1,400,000	600,000	150,000			\$2,150,000
2018	1,400,000	600,000	150,000			\$2,150,000
2019	1,400,000	600,000	150,000			\$2,150,000
2020	1,400,000	600,000	150,000			\$2,150,000
2021	1,400,000	600,000	150,000			\$2,150,000
TOTAL	\$7,000,000	\$3,000,000	\$750,000	\$0	\$0	\$10,750,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: South Fire Station 2. Project #: T-131037.00
 3. Dept/Div: Fire 4. Project Year(s): 2016-2018
 5. Type: New x Repair/Replace 6. Project Location South Topeka Area
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: Funds will be used for the acquisition of land, design and construction of a fire station in the South part of the City (Station # 14). Location and operating costs are to be determined.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ 50,132
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 2,955,835
d. Contingency		\$ 250,655
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 88,675
g. Cost of Issuance (Rev/GO Bonds)		\$ 59,117
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 3,404,414
Estimated Life of Item (years):	<u>30</u>	
Source of Estimate/Year:	<u>2012</u>	

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source: To be determined

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	\$1,768,407					\$1,768,407
2018	\$1,636,007					\$1,636,007
2019	\$0					\$0
2020	\$0					\$0
2021	\$0					\$0
TOTAL	\$3,404,414		\$0	\$0	\$0	\$3,404,414



City of Topeka

Capital Improvement Project Summary

1. Project Title: Secure Staging Facility 2. Project #: T-801002.00
 3. Dept/Div: Fire 4. Project Year(s): 2020
 5. Type: New x Repair/Replace 6. Project Location 324 SE Jefferson (station 3 area)
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: The secure staging facility would be located on the training grounds at 300 SE Jefferson. It would be a 70' x 100' Morton style insulated, climate controlled (heat), 5 bay structure. The facility would be used to stage / secure reserve apparatus, rehabilitation trailer, antique apparatus, public education trailer and other high value items currently stored outside.

10. Project Schedule and Estimate		
	Year	Amount
a. Design/Administrative Fees	2020	\$ 25,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 451,757
d. Contingency		\$ 250,655
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 13,553
g. Cost of Issuance (Rev/GO Bonds)		\$ 9,035
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 750,000

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Utilities charges and routine maintenance expenses associated with maintaining the building.

Estimated Life of Item (years): 30 Years
 Source of Estimate/Year: Staff estimates using standard life expectancy for prefabricated structures

12. Amount by source of financing						
	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020	750,000					\$750,000
2021						\$0
TOTAL	\$750,000		\$0	\$0	\$0	\$750,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: One Truck Apparatus (Truck 10) 2. Project #: T-81003.00
 3. Dept/Div: Fire 4. Project Year(s): 2017
 5. Type: New Repair/Replace x 6. Project Location Station 10
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: This truck company will replace truck 10. The department's goal is to upgrade front line truck companies to ensure no engine company is older than twelve years of age

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017	\$ 725,000
d. Contingency		\$ -
e. Technology		
f. Financing Costs (Temp Notes)		\$ 10,875
g. Cost of Issuance (Rev/GO Bonds)		\$ 14,500
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 750,375

Estimated Life of Item (years): 12 Years
 Source of Estimate/Year: Staff estimate using recent apparatus purchases

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	750,375					\$750,375
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$750,375		\$0	\$0	\$0	\$750,375



City of Topeka

Capital Improvement Project Summary

1. Project Title: Two Engine Apparatuses (Engines 1 and 12) 2. Project #: T-801004.00
 3. Dept/Div: Fire 4. Project Year(s): 2018
 5. Type: New Repair/Replace x 6. Project Location Station 1 and 12
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: These engines will replace engine 1 and 12. The department's goal is to upgrade front line engine companies to ensure no engine company is older than twelve years of age.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2018	\$ 1,300,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 19,500
g. Cost of Issuance (Rev/GO Bonds)		\$ 26,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,345,500

Estimated Life of Item (years): 12 years
 Source of Estimate/Year: Staff estimate using recent apparatus purchases

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018	1,345,500					\$1,345,500
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,345,500		\$0	\$0	\$0	\$1,345,500



City of Topeka
 Capital Improvement Project Summary

1. Project Title: One Aerial Apparatus (Aerial 8) 2. Project #: T-801005.00
 3. Dept/Div: Fire 4. Project Year(s): 2019
 5. Type: New Repair/Replace x 6. Project Location Station 8
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: The department's goal is to upgrade front line aerial companies to ensure no aerial company is older than twelve years of age.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2019	\$ 1,300,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 19,500
g. Cost of Issuance (Rev/GO Bonds)		\$ 26,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,345,500

Estimated Life of Item (years): 15 Years
 Source of Estimate/Year: Staff estimate using recent apparatus purchases

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	1,345,500					\$1,345,500
2020						\$0
2021						\$0
TOTAL	\$1,345,500		\$0	\$0	\$0	\$1,345,500



City of Topeka
 Capital Improvement Project Summary

1. Project Title: Engines 8 and 10 2. Project #: T-801006.00
 3. Dept/Div: Fire 4. Project Year(s): 2020
 5. Type: New Repair/Replace x 6. Project Location Station 8 and 10
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: These engines will replace engine 8 and 10. The department's goal is to upgrade front line engine companies to ensure no engine company is older than twelve years of age.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2020	\$ 1,300,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 19,500
g. Cost of Issuance (Rev/GO Bonds)		\$ 26,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,345,500

Estimated Life of Item (years): 12 Years
 Source of Estimate/Year: Staff estimate using recent apparatus purchases

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020	1,345,500					\$1,345,500
2021						\$0
TOTAL	\$1,345,500		\$0	\$0	\$0	\$1,345,500



City of Topeka
Capital Improvement Project Summary

1. Project Title: Truck 3 & 9 2. Project #: T-801007.00
 3. Dept/Div: Fire 4. Project Year(s): 2021
 5. Type: New Repair/Replace x 6. Project Location Stations 3 and 9
 7. Contact Name: Fire Administration 8. Contact Phone: 368-4000

9. Project Description: These trucks will replace truck 3 and 9. The department's goal is to upgrade front line truck companies to ensure no truck company is older than twelve years of age.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2021	\$ 1,500,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 22,500
g. Cost of Issuance (Rev/GO Bonds)		\$ 30,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,552,500

Estimated Life of Item (years): 12 Years
 Source of Estimate/Year: Staff estimate using recent apparatus purchases

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020						\$0
2021	1,552,500					\$1,552,500
TOTAL	\$1,552,500	\$0	\$0	\$0	\$0	\$1,552,500



City of Topeka

Capital Improvement Project Summary

1. Project Title: Traffic Safety Projects 2. Project #: T-601057.00
 3. Dept/Div: Public Works - Transportation Operations 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace x 6. Project Location Various
 7. Contact Name: Ron raines / Shwn Bruns 8. Contact Phone: 368-0929 or 368-3033

9. Project Description: These projects improve traffic safety at various locations within the City's transportation network. The types of projects include installation of a new traffic signal, equipment to synchronize a series of traffic signals, removal of a free-flowing right turn lane, construction of additional turn lanes or medians, and installation of pedestrian flashers at a crosswalk.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ 15,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 155,000
d. Contingency		\$ 8,700
e. Technology		\$ 2,700
f. Financing Costs (Temp Notes)		\$ 3,600
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 185,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The funding source for these costs is primarily Motor Fuel Tax. This project will provide a net reduction in operating costs for existing pavement. The project may also provide a savings in fuel costs by providing a more efficient operation of intersections.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	185,000					\$185,000
2018	185,000					\$185,000
2019	185,000					\$185,000
2020	185,000					\$185,000
2021	185,000					\$185,000
TOTAL	\$925,000		\$0	\$0	\$0	\$925,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Traffic Signal Replacement 2. Project #: T-141020.00
 3. Dept/Div: Public Works -- Transportation Operations 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace x 6. Project Location Various
 7. Contact Name: Ron Raines / Shawn Bruns 8. Contact Phone: 368-0929 or 368-3033

9. Project Description: This project provides a replacement program for the 183 existing traffic signals located throughout the City. Three to four traffic signals are generally replaced annually allowing older, outdated traffic signals to be replaced with new systems having modern technology and meeting the Manual on Uniform Traffic Control Devices (MUTCD). Having a continuous replacement program allows the costs of replacing the signals to be spread out over time. In this CIP, one year (2017) is not proposed to be funded to allow for resources to be concentrated on the traffic signal communication system upgrade project

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ 50,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 530,000
d. Contingency		\$ 39,000
e. Technology		\$ 9,000
f. Financing Costs (Temp Notes)		\$ 12,000
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 640,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Division -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: This project will provide a net reduction in annual operating costs by replacing outdated signals. The primary funding source is the General Fund (Traffic Operations Section of the Street Division).

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017		0				\$0
2018		640,000				\$640,000
2019		640,000				\$640,000
2020		640,000				\$640,000
2021		640,000				\$640,000
TOTAL		\$2,560,000	\$0	\$0	\$0	\$2,560,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Complete Streets 2. Project #: T-601058.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace x 6. Project Location Various
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides for the addition of complete street elements to existing streets to better serve all users of the transportation system. Common complete street elements include sidewalks, bike lanes, crosswalks/pedestrian flashers, accessible curb ramps, pedestrian refuge medians, bus stop access to adjacent trails. Complete street elements may be constructed with projects funded from other sources like Citywide sales tax projects or this project may provide matching funds for grant projects.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	<u>Year</u>	<u>Amount</u>	<u>Basis for Cost Estimate and Funding Source:</u>	
a. Design/Administrative Fees		\$ 8,000	Operating costs will be minimal.	
b. Right-of Way		\$ -		
c. Construction/Service Fees		\$ 82,000		
d. Contingency		\$ 6,700		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ 1,400		
g. Cost of Issuance (Rev/GO Bonds)		\$ 1,900		
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 100,000		
Estimated Life of Item (years): <u>30 years</u>				
Source of Estimate/Year: <u>Eng. Div. -- 2015</u>				

12. Amount by source of financing						
	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	100,000					\$100,000
2018	100,000					\$100,000
2019	100,000					\$100,000
2020	100,000					\$100,000
2021	100,000					\$100,000
TOTAL	\$500,000	\$0	\$0	\$0	\$0	\$500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Citywide Infrastructure 2. Project #: T-601059.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2021
 5. Type: New x Repair/Replace 6. Project Location Various
 7. Contact Name: Shwn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides for the construction of new infrastructure elements by providing the required matching funds for grant projects or providing additional funds for projects where funding for new infrastructure is needed as with citywide sales tax projects. The improvements can include such elements as sidewalks, bikeways or street widening.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ 16,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 168,000
d. Contingency		\$ 9,200
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 2,900
g. Cost of Issuance (Rev/GO Bonds)		\$ 3,900
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 200,000

Estimated Life of Item (years): 15-30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs will depend upon the type of infrastructure but should be minimal.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	200,000					\$200,000
2019	200,000					\$200,000
2020	200,000					\$200,000
2021	200,000					\$200,000
TOTAL	\$1,000,000		\$0	\$0	\$0	\$1,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SE California Ave. -- 29th St. to 33rd St. 2. Project #: T-701011.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace x 6. Project Location SE Calif. Ave. -- 29th to 33rd
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will widen SE California Avenue between SE 29th Street and SE 33rd Street. The new roadway will include curb & gutter, sidewalks, street lighting and a drainage system. Design started in 2015 with utility relocation in 2016 and construction in 2017.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2018	\$ 2,500,000
d. Contingency		\$ 109,000
e. Technology		\$ 39,000
f. Financing Costs (Temp Notes)		\$ 52,000
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 2,700,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for a new pavement versus the existing deteriorated pavement.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	2,200,000					\$2,200,000
2018	500,000					\$500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,700,000		\$0	\$0	\$0	\$2,700,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Bike Lanes on SE 6th & SE 10th Ave Bridges over I-70 2. Project #: T-861009.00
3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2021
5. Type: New x Repair/Replace 6. Project Location SE 6th & SE 10th Bridges over I-70
7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will fund widening of the SE 6th Avenue and SE 10th Avenue bridges over I-70 for bike lanes when the bridges are replaced with the Kansas Department of Transportation's Polk-Quincy Realignment Project. The Topeka Bikeways Master Plan recommends a 5' bike lane on both sides of 6th Avenue (Bike Route 1) and 10th Avenue (Bike Route 7) in future replacements of these roadways. An exact timeframe for the realignment project is unknown until KDOT receives full funding for construction. The project is being placed in the last year of the 5 year Capital Improvement Program (CIP) and will likely keep moving back to the fifth year of subsequent CIPs until a more exact construction timeframe is known.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2021	\$ 483,000
d. Contingency		\$ -
e. Technology		\$ 7,000
f. Financing Costs (Temp Notes)		\$ 10,000
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 500,000

Estimated Life of Item (years): 30 years

Source of Estimate/Year: Eng. Div. 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs to the City are minimal as these bridges are maintained by the Kansas Department of Transportation.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020						\$0
2021	500,000					\$500,000
TOTAL	\$500,000	\$0	\$0	\$0	\$0	\$500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW Arvonias Place/Huntoon Street/I-470 Ramps 2. Project #: T-701014.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace x 6. Project Location SW Arvonias Pl./SW Huntoon/I-470
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will improve traffic operations, safety, and level of service in the area of SW Arvonias Place, SW Huntoon Street, SW Winding Road, I-470 Ramps, and SW Wanamaker Road. The existing roadway network serving the area bounded on the north by SW Huntoon Street, on the west by SW Urish Road, on the south by SW 17th Street, and on the east by SW Wanamaker Road is operating at or near capacity at several locations. Both the City and Kansas Department of Transportation have determined that additional development in the area should be closely reviewed so that a roadway network is provided with acceptable capacity for the additional development. Recent traffic impact studies for proposed developments in the area have revealed that geometric and traffic operation deficiencies in the existing roadway network are so significant that further development would cause traffic operations failure of several intersections.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ -
b. Right-of Way	2017	\$ 200,000
c. Construction/Service Fees	2017-2018	\$ 4,500,000
d. Contingency		\$ 223,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 33,000
g. Cost of Issuance (Rev/GO Bonds)		\$ 44,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 5,000,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax.

12. Amount by source of financing

	1. G.O. Bonds	2. Federal Funds	3.	4.	5.	TOTAL
2017	1,125,000	1,375,000				\$2,500,000
2018	1,125,000	1,375,000				\$2,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,250,000	\$2,750,000		\$0	\$0	\$5,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Infill Sidewalks/Pedestrian Master Plan 2. Project #: T-241034.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2017-2021
 5. Type: New x Repair/Replace 6. Project Location Various
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project constructs new sidewalks to provide continuous pedestrian access as identified in the Pedestrian Master Plan or through requests from the public. The project will improve connectivity by extending the network of pedestrian routes in the community and adding to the City's multi-modal transportation system. Priority areas will focus on those areas identified in the Pedestrian Master Plan.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 45,000
b. Right-of Way		\$ -
c. Construction/Service Fees	Annual	\$ 500,000
d. Contingency		\$ 34,000
e. Technology		\$ 9,000
f. Financing Costs (Temp Notes)		\$ 12,000
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 600,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Operating costs will be minimal.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	600,000					\$600,000
2018	600,000					\$600,000
2019	600,000					\$600,000
2020	600,000					\$600,000
2021	600,000					\$600,000
TOTAL	\$3,000,000		\$0	\$0	\$0	\$3,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW 10th Avenue -- SW Fairlawn Road to SW Wanamaker Road 2. Project #: T-701015.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace x 6. Project Location SW 10th Ave. Fairlawn to Wanamaker
 7. Contact Name: Shawn Brun 8. Contact Phone: 368-3033

9. Project Description: This project will widen SW 10th Avenue between SW Fairlawn Road and SW Wanamaker Road. The new roadway will include curb & gutter, sidewalks, street lighting, and a drainage system. Design is scheduled to start in 2017 with utility relocation in 2018 and construction in 2019.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017-2019	\$ 495,000
b. Right-of Way	2018-2019	\$ 200,000
c. Construction/Service Fees	2017-2020	\$ 5,000,000
d. Contingency		\$ 102,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 87,000
g. Cost of Issuance (Rev/GO Bonds)		\$ 116,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 6,000,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	400,000					\$400,000
2018	240,000					\$240,000
2019	2,360,000					\$2,360,000
2020	3,000,000					\$3,000,000
2021						\$0
TOTAL	\$6,000,000		\$0	\$0	\$0	\$6,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW Wanamaker Road/SW Huntoon Street/ I-470 Ramps 2. Project #: T-701018.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2019-2021
 5. Type: New Repair/Replace X 6. Project Location SW Wanamaker/SW Huntoon/I-470
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will improve traffic operations, safety and level of service in the SW Wanamaker Road, SW Huntoon Street, I-470/Wanamaker Exit Ramp, and I-470/Winding Road Entrance Ramp areas.
 -
 The existing roadway network serving the area bounded by SW Huntoon Street, SW Urish Road, SW 17th Street, and SW Wanamaker Road is operating at or near capacity at several locations. Recent traffic impact studies for proposed developments in the area have indicated further development will cause traffic operation failures of several intersections. City staff has worked with the Kansas Department of Transportation and a consultant on a Traffic Impact Study to determine geometric and intersection improvements and access control necessary to accommodate anticipated traffic from future developments and traffic growth in the area. This project will provide recommended geometric improvements to the intersection of SW Wanamaker Road and SW Huntoon Street and along SW Wanamaker Road at the I-470 Exit Ramp and I-470/Winding Road Entrance Ramp. This area is experiencing congestion and a low level of service under existing conditions. Design is expected to start in 2019 with construction to follow in 2020-21.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2019-20	\$ 350,000
b. Right-of Way	2019-20	\$ 50,000
c. Construction/Service Fees	2020-21	\$ 3,720,000
d. Contingency		\$ 206,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 32,000
g. Cost of Issuance (Rev/GO Bonds)		\$ 42,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 4,400,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax.

12. Amount by source of financing

	1. G.O. Bonds	2. Federal Funds	3.	4.	5.	TOTAL	
2017						\$0	
2018						\$0	
2019	200,000					\$200,000	
2020	1,000,000	1,100,000				\$2,100,000	
2021	1,000,000	1,100,000				\$2,100,000	
TOTAL	\$2,200,000	\$2,200,000		\$0	\$0	\$0	\$4,400,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: NW Tyler Street -- NW Lyman Road to NW Beverly Street 2. Project #: T-701019.00
3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2020-2021
5. Type: New Repair/Replace X 6. Project Location NW Tyler St. -- Lyman to Beverly
7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides funding for widening NW Tyler Street between NW Lyman Road and NW Beverly Street to three lanes in conjunction with a city-wide sales tax project. The new roadway will include curb & gutter, sidewalks and a drainage system. NW Tyler Street is a minor arterial street. Design is expected to start in 2020 with construction to follow in 2021.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2020	\$ 150,000
b. Right-of Way	2021	\$ 50,000
c. Construction/Service Fees	2021	\$ 1,525,000
d. Contingency		\$ 47,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 12,000
g. Cost of Issuance (Rev/GO Bonds)		\$ 16,000
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,800,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for new pavement versus existing deteriorated pavement.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020	150,000					\$150,000
2021	1,650,000					\$1,650,000
TOTAL	\$1,800,000	\$0	\$0	\$0	\$0	\$1,800,000



City of Topeka

Capital Improvement Project Summary

This project previously included partial funding from G.O. bonds but is now funded exclusively by Citywide Half Cent Sales Tax as shown on page 136.

1. Project Title: 12th Street (2 lanes) -- Gage Boulevard to Kansas Avenue 2. Project #: T-701016.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2019-2021
 5. Type: New Repair/Replace x 6. Project Location 12th Street -- Gage to Kansas
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides funding for replacing 12th Street between Gage Blvd. and Kansas Avenue. The new roadway will include curb & gutter, sidewalks, and a drainage system. The project will be funded from the extension of the Countywide Half Cent sales tax to take effect January 1, 2017. The project is expected to be constructed in 2021-2022 with additional funding of \$6,140,000 provided in Year 2022.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2019-2020	\$ 600,000
b. Right-of Way	2020	\$ 200,000
c. Construction/Service Fees	2021	\$ 6,000,000
d. Contingency	2020-2021	\$ 240,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 7,040,000
Estimated Life of Item (years):	<u>30 years</u>	
Source of Estimate/Year:	<u>Eng. Div. -- 2015</u>	

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing						
	1. Countywide Half Cent Sales Tax	2. G.O. Bond	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	500,000					\$500,000
2020	400,000					\$400,000
2021	6,140,000					\$6,140,000
TOTAL	\$7,040,000	\$0	\$0	\$0	\$0	\$7,040,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Zoo Parking Lot Resurfacing and Enlargement 2. Project #: T-301052.00
 3. Dept/Div: Zoo 4. Project Year(s): 2019
 5. Type: New Repair/Replace x 6. Project Location Topeka Zoological Park
 7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: This project will mill and overlay the existing parking lot. It will also extend the lot North and South to make room for 36 additional spots. This project will also benefit the Helen Hocker Theatre, Mini Train and the Big Gage Shelter House.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2019	\$ 24,016
b. Right-of Way		\$ -
c. Construction/Service Fees	2019	\$ 343,088
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 20,585
g. Cost of Issuance (Rev/GO Bonds)		\$ 8,577
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 396,266

Estimated Life of Item (years): 20 years
 Source of Estimate/Year: 2014 quote + 5%

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: This project will not increase annual operating costs.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	396,287					\$396,287
2020						\$0
2021						\$0
TOTAL	\$396,287	\$0	\$0	\$0	\$0	\$396,287



City of Topeka

Capital Improvement Project Summary

1. Project Title: Zoo Tropical Rain Forest HVAC Replacement 2. Project #: T-301053.00
 3. Dept/Div: Zoo 4. Project Year(s): 2019
 5. Type: New Repair/Replace x 6. Project Location Topeka Zoological Park
 7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: This project will replace 30 tons of air conditioning units installed in 2007. Because of heavy usage, these air conditioning units are expected to be at the end of their life cycle around this time.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2019	\$ 11,760
b. Right-of Way		\$ -
c. Construction/Service Fees	2019	\$ 168,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 10,080
g. Cost of Issuance (Rev/GO Bonds)		\$ 4,200
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 194,040

Estimated Life of Item (years): 12 years
 Source of Estimate/Year: 2014 bid for similar work plus 5%

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: This project will not increase annual operating costs.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	194,040					\$194,040
2020						\$0
2021						\$0
TOTAL	\$194,040	\$0	\$0	\$0	\$0	\$194,040



City of Topeka

Capital Improvement Project Summary

1. Project Title: Zoo Discovering Apes Building Roof Replacement 2. Project #: T-301054.00

3. Dept/Div: Zoo 4. Project Year(s): 2020

5. Type: New Repair/Replace x 6. Project Location Topeka Zoological Park

7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: This project will replace the roof on the Discovering Apes Building that was built in 1985. The roof is expected to be at the end of its life around this year.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2020	\$ 11,025
b. Right-of Way		\$ -
c. Construction/Service Fees	2020	\$ 157,500
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 9,450
g. Cost of Issuance (Rev/GO Bonds)		\$ 3,938
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 181,913

Estimated Life of Item (years): 30 years

Source of Estimate/Year: 2014 bid for similar work plus 5%

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: This project will not increase annual operating costs.

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020	181,913					\$181,913
2021						\$0
TOTAL	\$181,913	\$0	\$0	\$0	\$0	\$181,913



City of Topeka

Capital Improvement Project Summary

1. Project Title: Kay's Garden - Zoo 2. Project #: T-301049.00
 3. Dept/Div: Topeka Zoo 4. Project Year(s): 2016-2018
 5. Type: New x Repair/Replace 6. Project Location SW side of Zoo
 7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: This project, made possible through a bequest will construct a world class Asian garden with a strolling path around a water feature. Also constructed with this project will be a building to support the garden through event rental, special exhibits and a museum area dedicated to the donor and her family.
Note: The city is bonding the project cost, but Friends of the Zoo (FOTZ) will pay \$250,000 annually to cover the full debt payment.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2016	\$ 349,700
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 2,689,300
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ 53,786
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 3,092,786

Estimated Life of Item (years): 30-50 years
 Source of Estimate/Year: 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: The construction and operating costs for this project will be supported through a living trust designated for the project.

12. Amount by source of financing

	1. G.O. Bonds paid by FOTZ	2. Donations	3.	4.	5.	TOTAL
2017	2,233,086	500,000				\$2,733,086
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,233,086	\$500,000	\$0	\$0	\$0	\$2,733,086



City of Topeka

Capital Improvement Project Summary

1. Project Title: Municipal Buildings Systems Renovation 2. Project #: T-131039.00
3. Dept/Div: Public Works 4. Project Year(s): 2017
5. Type: New Repair/Replace X 6. Project Location: Various
7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

This project consists of three major upgrades to municipal buildings. There will be electrical, HVAC, and mechanical work done. The electrical work will include generator work, light installation, prowatch upgrade, light replacement and other upgrades. The HVAC upgrades will include pump and hydrolic flex work, heater and treatment controls, mechanical controls and air handler motor, as well as other upgrades. The mechanical systems upgrades will include sewer pump replacement, air compressor replacement, sewer dump replacement, and other upgrades.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	201,050
d. Contingency	\$	29,050
e. Technology	\$	-
f. Financing Costs (Temp Notes)	\$	3,452
g. Cost of Issuance (Rev/GO Bonds)	\$	4,602
h. Debt Reserve Fund (Rev Bonds)	\$	23,010
i. Capitalized Interest	\$	-
Project Total	\$	261,164

Estimated Life of Item (years): 5 to 20
 Source of Estimate/Year: Fac. Div. 2015

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	261,164					\$261,164
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$261,164	\$0	\$0	\$0	\$0	\$261,164



City of Topeka

Capital Improvement Project Summary

1. Project Title: Municipal Buildings Major Renovations 2. Project #: Updating Soon
 3. Dept/Div: Public Works 4. Project Year(s): 2017 - 2020
 5. Type: New Repair/Replace X 6. Project Location: City Hall
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: This project will include fixing of the City Hall Sewer gas venting issue on the 2nd floor east side. This will include asbestos removal. There is also domestic plumbing leaking through the building that need replaced. Asbestos presents challenges to this project as well. Upgrades will also be made to the fire suppressant system to make them code compliant.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	175,000
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	2,000,000
d. Contingency	\$	250,000
e. Technology	\$	-
f. Financing Costs (Temp Notes)	\$	36,375
g. Cost of Issuance (Rev/GO Bonds)	\$	48,500
h. Debt Reserve Fund (Rev Bonds)	\$	242,500
i. Capitalized Interest	\$	-
Project Total	\$	2,752,375

Estimated Life of Item (years): 40-50
 Source of Estimate/Year: Facilities/2014 -2015

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017	175,000					\$175,000
2018	859,125					\$859,125
2019	859,125					\$859,125
2020	859,125					\$859,125
2021						\$0
TOTAL	\$2,752,375		\$0	\$0	\$0	\$2,752,375



City of Topeka

Capital Improvement Project Summary

1. Project Title: Sustainability Initiative High Efficiency LEDs 2. Project #: T-131043.00
 3. Dept/Div: Public Works 4. Project Year(s): 2017 - 2019
 5. Type: New Repair/Replace X 6. Project Location: Various
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: Replace current lamps and ballast, and other inefficient lighting equipment with high efficiency LED's on both interior and exterior lighting fixtures on City of Topeka buildings. Topeka Fire Department Fire stations will not be part of this upgrade except that Topeka Fire Department Fleet and Administration Buildings are included. Also, the Law Enforcement Center building and the Holliday building is not part of this scope. The City of Topeka parking garages are included in this scope.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	1,137,000
d. Contingency	\$	11,370
e. Technology	\$	-
f. Financing Costs (Temp Notes)	\$	17,226
g. Cost of Issuance (Rev/GO Bonds)	\$	22,968
h. Debt Reserve Fund (Rev Bonds)	\$	114,837
i. Capitalized Interest	\$	-
Project Total	\$	1,303,400

Estimated Life of Item (years): 10
 Source of Estimate/Year: Johnson Controls/2015

12. Amount by source of financing

	1. G.O. Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	400,000					\$400,000
2020	451,700					\$451,700
2021	451,700					\$451,700
TOTAL	\$1,303,400	\$0	\$0	\$0	\$0	\$1,303,400



Wastewater Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Wastewater Lining & Replacement Program 2. Project #: T-291042.00 (2017)
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: Sanitary sewer main lining and replacement projects focus on sewer lining and/or replacement of conduits and manholes deemed to have the most extensive cleaning, foaming, and repair histories in an effort to reduce the need for costly repairs and maintenance of failing wastewater mains, as well as address EPA required inflow and infiltration elimination. This comprehensive replacement program improves the integrity of our sanitary infrastructure as well as ensures the required regulatory compliance. Individual projects may be combined in groups or administered separately as deemed necessary. Topeka's wastewater conveyance system consists of roughly 880 miles of sewer mains, 81 pump stations and 13,000 manholes. The process of lining sewer assets protects them from becoming inundated with inflow and infiltration from ground water, tree roots and other erosive materials that can cause sewer line breaks, sewage backups, and SSOs (wastewater flows into Storm water conveyance system). This type of lining also prevents corrosion of these assets, thus increasing their estimated life span. This initiative is a regulatory requirement by the Kansas Department of Health and Environment and the Environmental Protection Agency for the elimination and reduction of inflow and infiltration and SSO activity. The program will also reduce City wastewater utility operation and maintenance costs associated with these assets.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2017-2021	\$ 200,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 1,400,000
d. Contingency		\$ 162,115
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 26,431
g. Cost of Issuance (Rev/GO Bonds)		\$ 35,242
h. Debt Reserve Fund (Rev Bonds)		\$ 176,212
i. Capitalized Interest		\$ -
Project Total		\$ 2,000,000
Estimated Life of Item (years): <u>40-80</u>		
Source of Estimate/Year: <u>WPC/2013</u>		

11. Estimated Annual Operating Cost	\$500,000
Basis for Cost Estimate and Funding Source:	
WPC I&I Program includes annual preventative and corrective maintenance cost of sanitary sewer mains	
WPC 2013 Prevention Maintenance - cost per foot: \$0.52	
WPC 2013 Corrective Maintenance - cost per foot: \$1.31	

12. Amount by source of financing					
	1. Revenue Bonds	2.	4.	5.	TOTAL
2017	1,000,000				\$1,000,000
2018	1,000,000				\$1,000,000
2019					\$0
2020					\$0
2021					\$0
TOTAL	\$2,000,000	\$0	\$0	\$0	\$2,000,000



City of Topeka

Capital Improvement Project Summary

- 1. Project Title: Adams Street Interceptor Sewer Rehabilitation 2. Project #: T-291041.00
- 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2016-2017
- 5. Type: New X Repair/Replace 6. Project Location KS River to 10th St., I-70
- 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes necessary system evaluations to determine preliminary design and potential rehabilitation strategies to implement for the Adams street sanitary interceptor sewer. This effort may include but not limited to cleaning, inspection, design, and rehabilitation. These actions will support compliance with Federal and State regulatory standards for CSO impact removal of source (storm) water from sanitary sewer system(s) through the identification and planning effort for mitigating or eliminating inflow of storm water, ground water and root infiltration. This project also supports related efforts for the Storm Water Removal Project associated with this interceptor. The Adams Street sanitary interceptor sewer is approximately 50 years old and in some sections, conceivably older. This interceptor is part of a combined sewer system and is a major conveyor of both wastewater and storm water. Formerly, combined sewer systems were common and reasonable in some municipalities, including Topeka, to collect both wastewater and storm water in a single system. However, combined City expansion and aging infrastructure has decreased the structural and performance reliability of such a system. When system capacity is exceeded, excess flows are discharged, untreated, directly into the Kansas River, the source of drinking water for Topeka and many other communities. Compromise of the structural integrity could potentially have a large economic and environmental impact on the City of Topeka.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Adopted 2016	\$ 300,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2017	\$ 1,312,115
d. Contingency	Adopted 2016	\$ 150,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 26,432
g. Cost of Issuance (Rev/GO Bonds)		\$ 35,242
h. Debt Reserve Fund (Rev Bonds)		\$ 176,211
i. Capitalized Interest		\$ -
Project Total		\$ 2,000,000

Estimated Life of Item (years): 50 - 100 Yrs.
 Source of Estimate/Year: PEC Eng. - 2011

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Cost estimates are based on Consultants study provided in 2011.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,550,000					\$1,550,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,550,000	\$0	\$0	\$0	\$0	\$1,550,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Lining Repairs - North Topeka Plant and Wanamaker PS 2. Project #: T-291043.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace X 6. Project Location 1600 N Button Rd & 6305 SW 9th
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project will include design and rehabilitation of the protective pipe lining in the North Topeka Wastewater Treatment Plant sludge holding tanks and the wet wells at Wanamaker Pump Station. This project will prevent costly repair and replacement of these assets and also decrease cost associated with maintaining each asset. Both the North Topeka Wastewater Treatment Plant and the Wanamaker Pump Station are approximately 30 years old. The T-lock lining system is failing and causing deterioration to concrete wall and corrosion of the steel reinforcement leading to structural integrity concerns. Failure of these assets would adversely impact the wastewater treatment processes. The process of lining sewer piping interior with a protective coating, guards these assets from becoming inundated with inflow and infiltration from storm water, tree roots and other erosive materials that can cause sewer line breaks, sewage backups, and SSOs (wastewater flows into Storm water conveyance system). This type of lining also prevents corrosion of these assets. This initiative is a regulatory requirement by the Kansas Department of Health and Environment and the Environmental Protection Agency for the elimination and reduction of inflow and infiltration and SSO activity. The project will also reduce City Wastewater Utility operation and maintenance costs associated with these efforts.

10. Project Schedule and Estimate			
	<u>Year</u>	<u>Amount</u>	
a. Design/Administrative Fees	2017	\$	90,096
b. Right-of Way		\$	-
c. Construction/Service Fees	2018	\$	1,000,000
d. Contingency		\$	231,490
e. Technology		\$	-
f. Financing Costs (Temp Notes)		\$	19,824
g. Cost of Issuance (Rev/GO Bonds)		\$	26,432
h. Debt Reserve Fund (Rev Bonds)		\$	132,159
i. Capitalized Interest		\$	-
Project Total		\$	1,500,000
Estimated Life of Item (years): <u>25-50 years</u>			
Source of Estimate/Year: <u>PEC/2015</u>			

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Cost estimates provided are based on the City's available economic ability at this time.

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	321,586					\$321,586
2018	1,178,414					\$1,178,414
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Eastside Interceptor-Relief-Combined Sewer Overflow#3 to Ash Street Pump Station 2. Project #: T-291050.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2018-2019
 5. Type: New X Repair/Replace 6. Project Location Along River Rd, Hills-Ash Street PS
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project is for the design of a new parallel interceptor relief sewer between Combined Sewer Overflow #3 and the Ash Street Pump Station. This project would include environmental assessment, survey, land acquisition, permitting, design and construction. The cost estimate shown here is an estimate. Better cost estimates will be available after completion of the Oakland Basin Combined Sewer Overflow Reduction Phase I project. The project is intended to reduce and or eliminate Combined Sewer Overflow and Sanitary Sewer Overflow activities and to stay within the Rehabilitation and Combined Sewer Overflow initiative as approved by state and federal regulations.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2018	\$ 600,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2019	\$ 6,455,736
d. Contingency		\$ 300,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 110,336
g. Cost of Issuance (Rev/GO Bonds)		\$ 147,115
h. Debt Reserve Fund (Rev Bonds)		\$ 735,574
i. Capitalized Interest		\$ -
Project Total		\$ 8,348,760

Estimated Life of Item (years): 25-50
 Source of Estimate/Year: PEC/2012

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Cost estimates are based on Consultants study provided in 2011.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018	900,000					\$900,000
2019	7,448,760					\$7,448,760
2020						\$0
2021						\$0
TOTAL	\$8,348,760	\$0	\$0	\$0	\$0	\$8,348,760



City of Topeka

Capital Improvement Project Summary

1. Project Title: North Topeka Waste Water Treatment Plant Nutrient Removal 2. Project #: T-291052.00

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2020

5. Type: New Repair/Replace X 6. Project Location 1600 N Button Rd.

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: Rehabilitate and update sewage treatment plant equipment including required nutrient removal upgrade options. The North Topeka Plant has been on line for close to 20 years and is starting to deteriorate. Some of the processes that the North Topeka Plant performs are becoming obsolete and will need to be updated along with the Plant rehabilitation. The current capabilities of the treatment plant do not meet the new, more stringent, State and Federal regulatory requirements.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2020	\$ 600,000
b. Right-of Way		
c. Construction/Service Fees	2020	\$ 4,581,720
d. Contingency		\$ 425,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 84,101
g. Cost of Issuance (Rev/GO Bonds)		\$ 112,134
h. Debt Reserve Fund (Rev Bonds)		\$ 560,672
i. Capitalized Interest		\$ -
Project Total		\$ 6,363,627

Estimated Life of Item (years): 25-50

Source of Estimate/Year: WPC/2005

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Costs estimates are based on operation and maintenance estimates from 2005.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020	6,363,627					\$6,363,627
2021						\$0
TOTAL	\$6,363,627	\$0	\$0	\$0	\$0	\$6,363,627



City of Topeka

Capital Improvement Project Summary

- 1. Project Title: Oakland Wastewater Treatment Plant UV Expansion 2. Project #: T-291062.00
- 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2019
- 5. Type: New X Repair/Replace 6. Project Location 1115 NE Poplar
- 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes but not limited to the installation of an additional UV system to provide the required disinfection of peak wet weather flow prior to discharge into the Kansas River. This project will also include all necessary modifications to the existing wet weather conveyance structure to accommodate upgrades including geometrical, electrical and instrumentation in the currently available UV equipment. This project is a regulatory requirement to meet upcoming changes in required permit mandates.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2019	\$ 300,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2019	\$ 1,932,159
d. Contingency		\$ 150,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 35,732
g. Cost of Issuance (Rev/GO Bonds)		\$ 47,643
h. Debt Reserve Fund (Rev Bonds)		\$ 238,216
i. Capitalized Interest		\$ -
Project Total		\$ 2,703,750

Estimated Life of Item (years): 50 - 100 Yrs.
 Source of Estimate/Year: PEC Engrs - 2011

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Cost estimates are based on 2011 Consultant study and Water Pollution Control Operations estimates.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	2,703,750					\$2,703,750
2020						\$0
2021						\$0
TOTAL	\$2,703,750	\$0	\$0	\$0	\$0	\$2,703,750



City of Topeka

Capital Improvement Project Summary

1. Project Title: Wastewater Plant Operations Equipment & Fleet Maintenance & Replacement Program 2. Project #: Annual Operations Program

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: The purpose of this program is to establish a capital equipment plan for the repair and replacement of City Wastewater Plant equipment and vehicles. This program will limit unexpected large capital expenditures and control the overall cost of operating and maintaining this equipment. This program also ensures that equipment does not become outdated and is maintained in a manner that extends the useful life of these assets and reduces maintenance costs through improved equipment reliability.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017-2021	\$ 125,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 975,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,100,000

Estimated Life of Item (years): N/A

Source of Estimate/Year: WPC/2014

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
This is an annual O&M program. Estimated operating cost is the total cost for this program.

12. Amount by source of financing

	1. WW Op Fund	2.	3.	4.	5.	TOTAL
2017	300,000					\$300,000
2018	100,000					\$100,000
2019	300,000					\$300,000
2020	100,000					\$100,000
2021	300,000					\$300,000
TOTAL	\$1,100,000		\$0	\$0	\$0	\$1,100,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: WPC Inflow & Infiltration Program 2. Project #: T-291063.00 (2017)
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location City Wide
 7. Contact Name: Sylvia Davis 8. Contact Phone: 368-4239

9. Project Description: Inflow and Infiltration (I & I) projects are designed to clean, repair, and/or replace damaged or inoperative manholes and sewer lines in order to prevent ground water and tree roots from infiltrating the Sanitary Sewer System. This program aids in the elimination of excess water in the system that can cause overflows, sewer line backups, and contamination of waterways. This program provides preventative maintenance of the sewer lines that helps to extend the life of the assets, decrease operations and maintenance costs, and identify system assets that may be close to imminent failure and in need of a larger scale replacement. Projects in this program have a total project cost of less than \$100,000.

10. Project Schedule and Estimate		
	Year	Amount
a. Design/Administrative Fees	Annual	\$ 50,000
b. Right-of Way		\$ -
c. Construction/Service Fees	Annual	\$ 450,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 500,000
Estimated Life of Item (years): <u>40-80</u>		
Source of Estimate/Year: <u>WPC/2014</u>		

11. Estimated Annual Operating Cost \$500,000
 Basis for Cost Estimate and Funding Source:
 This is an annual O&M program. Estimated operating cost is the total cost for this program.
 WPC 2013 Prevention Maintenance - cost per foot: \$0.52
 WPC 2013 Corrective Maintenance - cost per foot: \$1.31

12. Amount by source of financing						
	1. WW Op Fund	2.	3.	4.	5.	TOTAL
2017	500,000					\$500,000
2018	500,000					\$500,000
2019	500,000					\$500,000
2020	500,000					\$500,000
2021	500,000					\$500,000
TOTAL	\$2,500,000		\$0	\$0	\$0	\$2,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Oakland Wastewater Treatment Plant Solids Handling/Facility Upgrades Phase II 2. Project #: T-291018.02

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2016-2017

5. Type: New Repair/Replace X 6. Project Location 1115 NE Poplar

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project will include final design and rehabilitation of the Oakland Wastewater Treatment Plant Solids Processing Facility, including replacement and/or installation of all applicable appurtenant equipment, mechanical and electrical controls necessary to improve the process of removing and drying solid matter, in the treatment of wastewater, so that it can be more easily disposed of. Currently this process involves the cost of shipping the dried solids to a land fill. Newer technologies will improve this process and lower operating costs. Additionally, an improved system would permit re-use of the methane produced, as an alternative to natural gas, at the Oakland Wastewater Treatment Plant. The current solids processing facility and equipment are between the ages of 30-60 years. An assessment of the facility was performed by an engineering consulting firm as part of the Oakland Wastewater Treatment Plant Facility and Equipment plan. This assessment shows that the facility and equipment are in poor condition, due to years of service and chemical build-up in the operating environment, and have reached their useful life. Structural problems have also been noted in the dewatering area. A more in-depth structural assessment is planned in Phase I of this project to identify the necessary structural repairs/upgrades needed to accommodate the new equipment and processes that would allow for more efficient and environmentally sound methods of drying the solid matter and turning it into a reusable methane fuel source.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Adopted 2016	\$ 775,000
b. Right-of Way		
c. Construction/Service Fees	2017	\$ 6,965,550
d. Contingency	Adopted 2016	\$ 650,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 125,858
g. Cost of Issuance (Rev/GO Bonds)		\$ 167,811
h. Debt Reserve Fund (Rev Bonds)		\$ 839,055
i. Capitalized Interest		\$ -
Project Total		\$ 9,523,274

Estimated Life of Item (years): 20-30

Source of Estimate/Year: WPC/2010

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Project estimates are based on the best estimates at the time this project was submitted. More accurate information will be provided from data in the Phase I effort.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	8,098,274					\$8,098,274
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$8,098,274	\$0	\$0	\$0	\$0	\$8,098,274



City of Topeka

Capital Improvement Project Summary

1. Project Title: Combined Sewer Overflow Management Plan* 2. Project #: T-291046.00

3. Dept/Div: Water Pollution Control 4. Project Year(s): 2016-2017

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project will include evaluation and revision of the City's Combined System Overflow (CSO) Long Term Control Plan (LTCP) for the reduction/elimination of CSOs. Previously, combined sewer systems were common and reasonable in certain municipalities, including Topeka, to collect both wastewater and stormwater in a single system. However, combined City expansion and aging infrastructure has decreased the structural and performance reliability of such a system.

It is anticipated that this effort will include further evaluation of the sanitary sewer collection system hydrologic and hydraulic model and levels of service and control for the combined sanitary and storm sewer system. This effort will enable the City to identify further projects needed to accomplish the required CSO reduction/elimination. Amendments to the LTCP will consider feasibility and financial capability of the City and will allow the City flexibility in the assessment of additional modifications of the LTCP as necessary. The City is obligated to reduce/eliminate CSOs under Kansas Department of Health and Environment (KDHE) regulations.

**This effort is part of a Consent Order Agreement by and between KDHE and the City of Topeka.*

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Adopted 2016	\$ 300,000
b. Right-of Way	2017	\$ 391,000
c. Construction/Service Fees		\$ -
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 691,000

Estimated Life of Item (years): _____

Source of Estimate/Year: _____

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
Engineering Consultant Estimation

12. Amount by source of financing

	1. WW Op Fund	2.	3.	4.	5.	TOTAL
2017	391,000					\$391,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$391,000		\$0	\$0	\$0	\$391,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Pollution Control Facility Rehabilitation Program 2. Project #: T-291064.00 (2017)
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project comprises repair and/or replacement of aged and failing structures and equipment that are critical in the overall operation of the wastewater treatment process and includes rehabilitation and or repair including but not limited to safety and structural integrity concerns such as roofs, HVAC/Mechanical equipment, structural facades, stairs, railings, and other wastewater facility rehabilitation and repair as needed to ensure the safety and overall operation of the sanitary facilities. Project efforts will reduce maintenance procedures and costs and prolong the useful life of existing WPC Treatment Plant facilities in order to continue to meet state and federal regulations and ensure system reliability and public health and safety.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 100,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 900,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,000,000

Estimated Life of Item (years): N/A
 Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,000,000					\$1,000,000
2018	1,000,000					\$1,000,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,000,000		\$0	\$0	\$0	\$2,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: ADS System Meters Upgrade & Maintenance Program 2. Project #: _____
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes yearly quarterly monitoring and maintenance of flow meters in certain locations within the City's Wastewater collection system, specific plant meters, six CSO (combined sewer overflows) and four SSO (Sanitary Sewer Overflow), and two rain gauges within the City. The information collected is critical in regulatory reporting and in the development of other capital improvement projects.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 1,115,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,115,000

Estimated Life of Item (years): N/A
 Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Costs are based on Consultants estimates provided in 2015

12. Amount by source of financing

	1. WW Op Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	200,000					\$200,000
2019	200,000					\$200,000
2020	200,000					\$200,000
2021	315,000					\$315,000
TOTAL	\$1,115,000		\$0	\$0	\$0	\$1,115,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Small Wastewater Pump Station Rehabilitation & Replacement Program 2. Project #: T-291065.00 (2017)

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes but is not limited to complete or partial replacement and or rehabilitation of all required appurtenances of the wastewater pump station to provide the complete safe and consistent functionality of these assets within the City.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 150,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 1,350,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,500,000

Estimated Life of Item (years): N/A

Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Cost estimates are based on historical cost documentation.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,500,000					\$1,500,000
2018	1,500,000					\$1,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$3,000,000		\$0	\$0	\$0	\$3,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Sanitary Sewer Interceptor Maintenance & Rehabilitation Program 2. Project #: T-291066.00 (2017)

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This program includes necessary system evaluations to determine preliminary design and potential rehabilitation strategies to implement for the sanitary interceptor sewer system. These actions will support compliance with Federal and State regulatory standards for Combined Sewer Overflow impact removal of source (storm) water from sanitary sewer system(s) through the identification and planning effort for mitigating or eliminating inflow of stormwater, ground water and root infiltration.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 150,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 1,350,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,500,000

Estimated Life of Item (years): N/A

Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Cost estimates are based on historical cost documentation.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,500,000					\$1,500,000
2018	1,500,000					\$1,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$3,000,000		\$0	\$0	\$0	\$3,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SCADA System Upgrade 2. Project #: T-291055.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location WPC Locations
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: The WPC control system will be updated and combined along with the Water Treatment Plant data acquisition system to improve the process of acquiring information about the status of remote equipment across multiple sites, and large distances. The new system will allow communication between WPC and Water Treatment Plant interceptors and sites. The data acquisition server software will provide access to data from field devices using standard communications protocols. Operators can monitor and interact with the system, thus allowing the City to receive notifications and respond quicker to system emergencies. The SCADA System is in need of updating. Parts of the system hardware and software have exceeded manufacturer's life cycle. Regulations and orders by KDHE have necessitated more reliable communication and reporting of Wastewater operations. This project will change control computers and software systems as needed in all collection pump stations and wastewater treatment plants. The impact to the community is to support the goal of reducing major events and notifying key personnel in all out of band conditions.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017	\$ 406,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 406,000

Estimated Life of Item (years): _____
 Source of Estimate/Year: _____

11. Estimated Annual Operating Cost \$1,500
 Basis for Cost Estimate and Funding Source:
 Annual Operating Cost Estimate based on researched approximation provided by WPC O&M Management Staff.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	406,000					\$406,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$406,000		\$0	\$0	\$0	\$406,000



City of Topeka

Capital Improvement Project Summary

- 1. Project Title: Wanamaker Force Main Rehabilitation Replacement
- 2. Project #: T-291056.00
- 3. Dept/Div: Public Works - Wastewater
- 4. Project Year(s): 2017-2018
Approx. par. S of I-70 at SW 9th St. E
- 5. Type: New Repair/Replace X
- 6. Project Location to SW Westchester Rd.
- 7. Contact Name: Michelle Neiswender
- 8. Contact Phone: 368-4251

9. Project Description: Project will include preliminary investigation, design, and construction to repair and or rehabilitate the force main. This force main is approximately sixty years old and four miles in length and serves the sanitary needs of the Wanamaker corridor. Its integrity has been compromised at least three times. The current structural condition of the pipe is of concern to the City as well as KDHE.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 125,000
b. Right-of Way		
c. Construction/Service Fees	2017-2018	\$ 7,474,119
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 113,987
g. Cost of Issuance (Rev/GO Bonds)		\$ 151,982
h. Debt Reserve Fund (Rev Bonds)		\$ 759,912
i. Capitalized Interest		\$ -
Project Total		\$ 8,625,000

Estimated Life of Item (years): 40-80
Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	125,000					\$125,000
2018	8,500,000					\$8,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$8,625,000		\$0	\$0	\$0	\$8,625,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Ash Street Force Main Replacement 2. Project #: T-291057.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace X 6. Project Location River Road to Oakland Treatment Plant
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project will consist of all necessary efforts to provide for the preliminary and final design, and construction of a new force main from the Ash Street PS to the influent of Oakland Wastewater Treatment Plant. Currently there are two force mains serving this station. One approximately eighty years old the other fifty years old. The newer pipe failed in 2015 causing a sanitary overflow into the Kansas River. It was discovered at that time the integrity of the remaining pipe was of possible concern. In addition this area is being analyzed as part of the City's Combined Sewer Overflow Management Plan Project for possible increase in the sanitary sewer conveyance ability to assist in the mitigation of combined sewer overflows. This is a regulatory mandate from KDHE.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 300,000
b. Right-of Way		
c. Construction/Service Fees	2017-2018	\$ 4,000,286
d. Contingency		\$ 105,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 66,079
g. Cost of Issuance (Rev/GO Bonds)		\$ 88,106
h. Debt Reserve Fund (Rev Bonds)		\$ 440,529
i. Capitalized Interest		\$ -
Project Total		\$ 5,000,000

Estimated Life of Item (years): WPC staff
 Source of Estimate/Year: WPC/2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	2,500,000					\$2,500,000
2018	2,500,000					\$2,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$5,000,000		\$0	\$0	\$0	\$5,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Shunga Pump Station Rehabilitation 2. Project #: T-291058.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace X 6. Project Location 2810 SW 29th Street
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: Project will include the planning, design and construction rehabilitation efforts required to rehab and or replace the wet well, pumps, bar screens, controls and electrical service for the Shunga Pump Station as necessary. Including required regulatory upgrades associated with sanitary and combined sewer overflows. The project may also include the addition of flow monitoring of incoming interceptors, and possible installation of a new and improved odor control appurtenances. Implementation of corrective measures to minimize and or eliminate overflows is a regulatory mandate.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 600,000
b. Right-of Way		
c. Construction/Service Fees	2017-2018	\$ 5,391,189
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 89,868
g. Cost of Issuance (Rev/GO Bonds)		\$ 119,824
h. Debt Reserve Fund (Rev Bonds)		\$ 599,119
i. Capitalized Interest		\$ -
Project Total		\$ 6,800,000

Estimated Life of Item (years): _____
 Source of Estimate/Year: _____

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Operating Cost Estimate based on researched approximation provided by WPC O&M Management Staff.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	300,000					\$300,000
2018	6,500,000					\$6,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$6,800,000		\$0	\$0	\$0	\$6,800,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Wastewater Pump Station VFD Replacement 2. Project #: T-291059.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project will include the replacement of the individual VFD (variable frequency drive) equipment in the city's large sanitary Pump Stations. This electrical equipment ensures the most economical and operational efficiency of the overall pumping system. Failure of this equipment will result in an emergency replacement as parts are increasingly difficult to locate and are no longer supported by the manufacturer. In addition failure to perform this rehabilitation may cause sanitary overflows. Implementation of corrective measures to minimize and or eliminate overflows is a regulatory mandate.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount		\$1,500
a. Design/Administrative Fees	2017	\$ 100,000	Basis for Cost Estimate and Funding Source: Annual Operating Cost Estimate based on researched approximation provided by WPC O&M Management Staff.	
b. Right-of Way				
c. Construction/Service Fees		\$ 781,057		
d. Contingency		\$ -		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ 13,216		
g. Cost of Issuance (Rev/GO Bonds)		\$ 17,621		
h. Debt Reserve Fund (Rev Bonds)		\$ 88,106		
i. Capitalized Interest		\$ -		
Project Total		\$ 1,000,000		
Estimated Life of Item (years): _____				
Source of Estimate/Year: _____				

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,000,000					\$1,000,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Oakland Aerator & Mixing Replacement 2. Project #: T-291060.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace X 6. Project Location 1115 NE Poplar
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes the planning, design and rehabilitation and or replacement of the gear box equipment and appurtenances associated with the Oakland Wastewater Treatment Plant aeration basins. The existing equipment is failing and is outside of the warranty period. This project will allow the city to determine the best design and implementation for the appropriate corrective action. This equipment is essential to the biological treatment of the treatment plant and is required as part of the City's federal permit.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount		\$1,500
a. Design/Administrative Fees	2017	\$ 300,000	Basis for Cost Estimate and Funding Source: Annual Operating Cost Estimate based on researched approximation provided by WPC O&M Management Staff.	
b. Right-of Way				
c. Construction/Service Fees	2017-2018	\$ 4,000,286		
d. Contingency		\$ 105,000		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ 66,079		
g. Cost of Issuance (Rev/GO Bonds)		\$ 88,106		
h. Debt Reserve Fund (Rev Bonds)		\$ 440,529		
i. Capitalized Interest		\$ -		
Project Total		\$ 5,000,000		
Estimated Life of Item (years): _____				
Source of Estimate/Year: _____				

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	2,500,000					\$2,500,000
2018	2,500,000					\$2,500,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$5,000,000		\$0	\$0	\$0	\$5,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Grant/Jefferson Pump Station Rehabilitation 2. Project #: T-291061.00
 3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2018-2019
 5. Type: New Repair/Replace X 6. Project Location Grant Street and Jefferson Street
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: Rehabilitation of the Grant/Jefferson Pump Station will include, but is not limited to, the planning, design and construction required to replace the wet well, pumps, bar screen, controls and electrical service for the Grant/Jefferson Pump Station, as necessary. Data compiled from flow monitoring and flow studies of the North Topeka Sanitary Sewers that flow to the Grant/Jefferson Pump Station demonstrated the need for improvements to ensure continued service. This project is consistent with the reliability improvements contract of 1994 that reviewed WPC existing pump stations to determine necessary improvements to ensure continued service. This will allow WPC to provide more reliable service to our customers within this drainage area. Meaning less chance of a failure of the pump station and backing up sewage into customers private lines and basements. It meets one of the Land Use and Growth Management Plan goals by planning for greater efficiencies and better utilization of existing infrastructure.

10. Project Schedule and Estimate		
	Year	Amount
a. Design/Administrative Fees	2018	\$ 1,321,000
b. Right-of Way		
c. Construction/Service Fees	2019	\$ 7,772,392
d. Contingency		
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 136,401
g. Cost of Issuance (Rev/GO Bonds)		\$ 181,868
h. Debt Reserve Fund (Rev Bonds)		\$ 909,339
i. Capitalized Interest		\$ -
Project Total		\$ 10,321,000

Estimated Life of Item (years): 50-75 years
 Source of Estimate/Year: Bartlett & West 2008

11. Estimated Annual Operating Cost \$1,500
 Basis for Cost Estimate and Funding Source: Annual Operating Cost Estimate based on researched approximation provided by WPC O&M Management Staff.

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018	1,321,000					\$1,321,000
2019	9,000,000					\$9,000,000
2020						\$0
2021						\$0
TOTAL	\$10,321,000		\$0	\$0	\$0	\$10,321,000



Stormwater Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Storm Conveyance System Rehabilitation Program 2. Project #: T-501025.00 (2017)
 3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: This is an on-going, systematic program to rehabilitate or replace existing storm water conveyance system assets (inlets, pipes, channels, etc.) to ensure continued operation, reduce maintenance and support other infrastructure improvements. Nearly all the assets targeted by this program are anticipated to be in the range of 50-100 years old unless damage by outside forces has led to a reduced life-span. The general exception to this rule regards metal piping which often has a lesser life-span. This program is designed solely to maintain the existing storm water conveyance system at a steady, City-wide level of service. In isolated cases small improvements may be made in order to meet modern-day standards or to address a localized problem not worthy of a capital project. Anticipate about \$1M annually used directly in support of citywide half cent sales tax roadway projects. Remaining funds to be utilized as needs/projects are developed. Rehabilitation or replacement of these assets is necessary to ensure protection of life and property throughout the City. Rehabilitation through innovative methods such as plastic or cement pipe lining will be pursued when possible and financially beneficial.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017-2021	\$ 258,401
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 2,409,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 92,511
g. Cost of Issuance (Rev/GO Bonds)		\$ 123,348
h. Debt Reserve Fund (Rev Bonds)		\$ 616,740
i. Capitalized Interest		\$ -
Project Total		\$ 3,500,000

Estimated Life of Item (years): 100
 Source of Estimate/Year: staff 2013

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	2,500,000					\$2,500,000
2018	1,000,000					\$1,000,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$3,500,000		\$0	\$0	\$0	\$3,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Kansas River Levee System Rehabilitation - Phase II 2. Project #: T-831000.01
3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2016-2018
5. Type: New Repair/Replace X 6. Project Location Throughout the levee system
7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project includes rehabilitation efforts for four levee units within the City as required by the United States Army Corps of Engineers (USACE) 2009 Kansas Flood Damage Reduction Feasibility Study. This study indicates that the levee system does not provide the authorized level of flood protection to the city and recommends the following improvements: installation of an earth stability berm on the landside of the floodwall to protect against the wall sliding at the Waterworks levee unit, located at the Topeka Water Treatment Plant; replacement of 1900 feet of the South Topeka levee unit floodwall east of Kansas Ave. to improve foundation stability and the installation of an earth berm or relief wells for under seepage 2,600 feet west of Topeka Blvd.; improvements to the Oakland levee unit including, installation of an earth berm or relief wells for under seepage 1,600 feet along the Oakland Wastewater Treatment Plant and the installation of an earth stability berm for 500 feet along Shunganunga Creek near S.E. 6th St. and Branner St.; and installation of an earth berm or relief wells for under seepage 2,400 feet west of the North Topeka Wastewater Treatment Plant for the North Topeka levee unit. The project was recommended for construction funding (through inclusion in the Water Resources Development Act (WRDA)) by the USACE. Total project cost is estimated to be \$24,200,000 with the City to provide a minimum of 35% of the total project costs. The design phase was initiated in 2009. Ordinance 19848 authorized the design budget of \$650,000.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2016-2018	\$ 21,300,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 21,300,000

Estimated Life of Item (years): 25-50

Source of Estimate/Year: USACE/2009

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. SW Ops Fund	2. Federal Funds	3.	4.	5.	TOTAL
2017	3,600,000	10,000,000				\$13,600,000
2018	2,700,000	5,000,000				\$7,700,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$6,300,000	\$15,000,000		\$0	\$0	\$21,300,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Levee Repairs / Replacement Program 2. Project #: T-501012.00
 3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2016-2017
 5. Type: New Repair/Replace X 6. Project Location Throughout the levee system
 7. Contact Name: Michelle Neiswender 8. Contact Phone: 368-4251

9. Project Description: This project encompasses repairs to the four levee units within the City as required by the United States Army Corps of Engineers (USACE) 2010 Periodic Inspection. Repairs include removal of trees infringing on the levee right of way, levee bank stabilization, testing and potential repair or replacement of the well units, control system, and piezometers in the Waterworks, Auburndale, South Topeka and Oakland levee unit relief wells, pump station gate structure repairs, and levee sanitary isolation valve replacement and/or reconfiguration, and possible replacement of sanitary pipes connected to these valves. These sanitary pipes run under or through the levee system and their isolation valves, on the land side of the levee, isolate the sanitary system from flood water within the levee system. These valves operate in a highly corrosive environment and most all of these valves are past their useful life and no longer operate. The valves were identified as deficient in the Periodic Inspection and must be replaced to ensure proper flood protection. Internal staff will perform most of the repairs that are within our equipment and time constraints but there are many repairs that are beyond the scope of City maintenance staff. There are also some privately owned parcels along the levee that encroach on the City's ability to maintain the levee system. These parcels need to be purchased to ensure the proper maintenance can be performed.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2016	\$ 573,800
b. Right-of Way		\$ -
c. Construction/Service Fees	2017	\$ 4,096,244
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 70,051
g. Cost of Issuance (Rev/GO Bonds)		\$ 93,401
h. Debt Reserve Fund (Rev Bonds)		\$ 467,004
i. Capitalized Interest		\$ -
Project Total		\$ 5,300,500

Estimated Life of Item (years): 25-50
 Source of Estimate/Year: Corps of Engineers/2010

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	4,726,700					\$4,726,700
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$4,726,700	\$0	\$0	\$0	\$0	\$4,726,700



City of Topeka

Capital Improvement Project Summary

1. Project Title: Adams St. Interceptor Sewer Storm water Removal - KS River to 10th St* 2. Project #: T-501024.00
 3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2016-2017
 5. Type: New X Repair/Replace 6. Project Location KS River to 10th St
 7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: This program is designed to remove stormwater from the combined sewer system in older areas of the city which is in conformance with the requirements of Combined Sewer Overflow (CSO) Consent Order from the Kansas Department of Health and Environment. Removal could come through infiltration-based Best Management Practices but will primarily consist of the construction of separate storm sewers.
**This effort is part of a Consent Order Agreement by and between KDHE and the City of Topeka.*

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2016	\$ 322,000
b. Right-of Way		
c. Construction/Service Fees	2017	\$ 2,100,000
d. Contingency		\$ 221,172
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 39,648
g. Cost of Issuance (Rev/GO Bonds)		\$ 52,863
h. Debt Reserve Fund (Rev Bonds)		\$ 264,317
i. Capitalized Interest		\$ -
Project Total		\$ 3,000,000

Estimated Life of Item (years): 100
 Source of Estimate/Year: Staff 2014

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Staff (2014); Storm water Utility Enterprise Fund

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	2,456,828					\$2,456,828
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,456,828	\$0	\$0	\$0	\$0	\$2,456,828



City of Topeka

Capital Improvement Project Summary

1. Project Title: Storm water Operations Equipment & Fleet Maintenance & Replacement Program 2. Project #: Annual SW Operations & Maintenance Program

3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: The purpose of this program is to establish a capital equipment plan for the repair and replacement of City stormwater equipment and vehicles. This program will limit unexpected large capital expenditures and control the overall cost of operating and maintaining this equipment. This program also ensures that equipment does not become outdated and is maintained in a manner that extends the useful life of these assets and reduces maintenance costs through improved equipment reliability.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017-2021	\$ 125,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 775,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 900,000

Estimated Life of Item (years): N/A

Source of Estimate/Year: WPC/2014

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
This is an annual O&M program. Estimated operating cost is the total cost for this program.

12. Amount by source of financing

	1. SW Ops Fund	2.	3.	4.	5.	TOTAL
2017	100,000					\$100,000
2018	300,000					\$300,000
2019	100,000					\$100,000
2020	300,000					\$300,000
2021	100,000					\$100,000
TOTAL	\$900,000		\$0	\$0	\$0	\$900,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Drainage Correction Program 2. Project #: T-151028.00 (2017)
 3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: This is an on-going program to create solutions for existing drainage problems. This program, established by Council Resolution No. 6833 in 1999, funds 3-4 stormwater improvement projects per year where drainage problems affect at least three private properties or where defects or obstructions hinder function of an existing facility within the right-of-way or dedicated easement. Individual project budgets are limited to \$100,000.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 50,000
b. Right-of Way		\$ -
c. Construction/Service Fees	Annual	\$ 250,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 300,000

Estimated Life of Item (years): _____
 Source of Estimate/Year: _____

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. SW Ops Fund	2.	3.	4.	5.	TOTAL
2017	300,000					\$300,000
2018	300,000					\$300,000
2019	300,000					\$300,000
2020	300,000					\$300,000
2021	300,000					\$300,000
TOTAL	\$1,500,000		\$0	\$0	\$0	\$1,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Levee Asset Repair & Rehabilitation Program 2. Project #: Annual SW Operations & Maintenance Program

3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Throughout the Levee System

7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: This program is designed for the regular replacement or major rehabilitation of stormwater pump stations. Stormwater pump stations are high-volume, emergency facilities. Of the 11 owned by the City, 10 of them are located on, and integral to, proper function of the Kansas River levee system while the other one serves an isolated subdivision with no other means of drainage. Funds may be "banked" for several years before undertaking a major project. The goal is to proactively rehabilitate and replace these facilities.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 200,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 200,000

Estimated Life of Item (years): _____

Source of Estimate/Year: _____

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. SW Ops Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	200,000					\$200,000
2019	200,000					\$200,000
2020	200,000					\$200,000
2021	200,000					\$200,000
TOTAL	\$1,000,000		\$0	\$0	\$0	\$1,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: BMP Development & Construction Program 2. Project #: Annual SW Operations & Maintenance Program

3. Dept/Div: WPC / Stormwater Utility 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Stephen Miller 8. Contact Phone: 368-1640

9. Project Description: This on-going program is for the purpose of developing and implementing stormwater Best Management Practices (BMP) throughout the city. Development and implementation of BMP is in conformance with the requirements of Federal Permit No. KS0093327 (KS Permit No. M-KS72-So01), National Pollutant Discharge Elimination System (NPDES), Municipal Separate Storm Sewer System (MS4) permit. Said BMP may consist of construction of physical systems (e.g. rain gardens or baffle boxes) or be programmatic (e.g. education programs or facilities). Land acquisition for BMP facilities may be included.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees		\$ 7,000
b. Right-of Way		
c. Construction/Service Fees		\$ 70,000
d. Contingency		\$ 11,106
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 1,322
g. Cost of Issuance (Rev/GO Bonds)		\$ 1,762
h. Debt Reserve Fund (Rev Bonds)		\$ 8,811
i. Capitalized Interest		\$ -
Project Total		\$ 100,000

Estimated Life of Item (years): _____

Source of Estimate/Year: _____

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. SW Ops Fund	2.	3.	4.	5.	TOTAL
2017	100,000					\$100,000
2018	100,000					\$100,000
2019	100,000					\$100,000
2020	100,000					\$100,000
2021	100,000					\$100,000
TOTAL	\$500,000		\$0	\$0	\$0	\$500,000



Water Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Main Replacement Program 2. Project #: T-281088.00 (2017)
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2021
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The Water Main Replacement Program focuses on restoring mains located in areas with extensive break and repair histories. In recent years, water main breaks have become more prevalent due to the aging infrastructure. Based on historic studies and experience in the United States, the average useful life for water mains ranges between 75-100 years, depending upon local (soil & environmental) conditions. Beyond this period, failure is imminent. Topeka's water distribution system consists of nearly 861 miles of transmission and neighborhood distribution water mains ranging in size from 2 to 48 inches in diameter. Assuming the optimal asset life span of 100 years, an annual replacement program approaching eight plus (8.0 +) miles per year is required to mitigate continued progressive water main break rates. Replacement program efforts will also focus on needed replacements associated with half-cent sales tax and other priority street improvement projects to be implemented by the City Engineering Division. This comprehensive replacement program has been implemented to reduce the destructive and costly impact of water main breaks and aging water main infrastructure on Topeka neighborhoods, local businesses and future developments. The continuation of this program reduces the likelihood of higher failure rates, and increasing operations and maintenance costs associated with aging water mains.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2017-2021	\$ 910,000
b. Right-of Way		\$ 300,573
c. Construction/Service Fees	2017-2021	\$ 7,200,000
d. Contingency		\$ 840,528
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 138,767
g. Cost of Issuance (Rev/GO Bonds)		\$ 185,022
h. Debt Reserve Fund (Rev Bonds)		\$ 925,110
i. Capitalized Interest		\$ -
Project Total		\$ 10,500,000
Estimated Life of Item (years): <u>75 -100</u>		
Source of Estimate/Year: <u>Water/2013</u>		

11. Estimated Annual Operating Cost	\$753
<u>Basis for Cost Estimate and Funding Source:</u>	
Estimated Annual Operating Cost increase breakdown funded by annual operating budgets:	
2016 - 3,844 ft. @ \$0.14 =	\$538
2017 - 4613 ft. @ \$0.14 =	\$646
2018 - 5381 ft. @ \$0.14 =	\$753
2019 - 6150 ft. @ \$0.14 =	\$861
2020 - 6919 ft. @ \$0.14 =	\$969
5 Year CIP Annual Average = \$753	

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	3,000,000					\$3,000,000
2018	3,000,000					\$3,000,000
2019	1,500,000					\$1,500,000
2020	1,500,000					\$1,500,000
2021	1,500,000					\$1,500,000
TOTAL	\$10,500,000	\$0	\$0	\$0	\$0	\$10,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Treatment Plant Rehabilitation Program 2. Project #: T-281110.00 (2017)
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2021
 5. Type: New X Repair/Replace X 6. Project Location WT Plant;3245 NW Waterworks Dr.
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: This project comprises repair and/or replacement of aged and failing structures and equipment that are critical in the overall operation of the water treatment process and includes rehabilitation of six filters, correcting deficiencies in motor control centers and electrical equipment, correcting deficiencies in mechanical equipment, repairing concrete deterioration, repairing leaky roofs at the Water Treatment Plant buildings, replacement of inoperative valves on high-lift pumping and other water facility rehabilitation and repair. Project efforts will reduce maintenance procedures and costs and prolong the useful life of existing Water Treatment Plant facilities in order to continue to meet state and federal regulations for safe drinking water and ensure the City's ability to provide an adequate and reliable supply for city residents, commercial and private developments, and committed wholesale customers.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017-2021	\$ 400,301
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 2,219,082
d. Contingency		\$ 200,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 42,291
g. Cost of Issuance (Rev/GO Bonds)		\$ 56,388
h. Debt Reserve Fund (Rev Bonds)		\$ 281,938
i. Capitalized Interest		\$ -
Project Total		\$ 3,200,000

Estimated Life of Item (years): 20 - 40
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Proposed rehabilitation will replace outdated and inefficient electrical, mechanical, and chemical handling equipment, and will not have an impact on annual operating costs.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,300,000					\$1,300,000
2018	1,000,000					\$1,000,000
2019	500,000					\$500,000
2020	200,000					\$200,000
2021	200,000					\$200,000
TOTAL	\$3,200,000		\$0	\$0	\$0	\$3,200,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: 18" on SW Indian Hills - SW 29th to SW 21st 2. Project #: T-281090.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2018
 5. Type: New X Repair/Replace 6. Project Location Indian Hills Rd, SW 29th to 21st St
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: This project consists of installing 5300-ft of 18-inch main to reinforce the water transmission capacity in the West Pressure Zone (generally west of SW Wanamaker Road south of the Kansas River to SW 45th Street) area for domestic and fire flows to support existing and continued growth and development in the westerly portion of Topeka. This project is part of an overall plan to assure the capability of the transmission and distribution system to meet both existing and future peak day and fire protection requirements in this portion of the city water service area. This main will improve the reliability of the supply to portions of west Topeka and is part of the improvements needed to provide connectivity between within the West Pressure Zone water storage tanks and booster pump stations for reliability of supply. This project was identified as part of the Water Distribution System Master Plan prepared in February 2002.

10. Project Schedule and Estimate		
	Year	Amount
a. Design/Administrative Fees	2017	\$ 270,100
b. Right-of Way	2017	\$ 50,000
c. Construction/Service Fees	2017-2018	\$ 1,070,900
d. Contingency		\$ 219,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 24,150
g. Cost of Issuance (Rev/GO Bonds)		\$ 32,200
h. Debt Reserve Fund (Rev Bonds)		\$ 161,000
i. Capitalized Interest		\$ -
Project Total		\$ 1,827,350
Estimated Life of Item (years): <u>75 -100</u>		
Source of Estimate/Year: <u>Water/2013</u>		

11. Estimated Annual Operating Cost \$742
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	539,100					\$539,100
2018	1,288,250					\$1,288,250
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,827,350		\$0	\$0	\$0	\$1,827,350



City of Topeka

Capital Improvement Project Summary

Revised March 2016

- 1. Project Title: 2.2-MGD Meriden Booster Pump Station 2. Project #: T-281091.00
- 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017
- 5. Type: New Repair/Replace X 6. Project Location 2700 NE Meriden Rd; 434 SE Norwood
- 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: This project includes major rehabilitation of the Meriden Water Booster Pump Station (BPS) including construction of a small structure on top of the existing below-ground pump chamber, moving all electric panels and control systems above ground, upgrading all piping and station valves and associated piping, and installation of new auxiliary standby power at this site to improve operational reliability for the North Pressure Zone. Meriden BPS was constructed in the 1970's to boost water pressures to provide improved service the north Topeka area, referred to as the North Pressure Zone. The electrical switch gear and SCADA controls are all located in the below-ground pump chamber which is subject to flooding in event of pipe or pump failure. The below-ground chamber is also subjected to an environment of high temperatures during summer time operation when large motors are running which generate significant amounts of heat and results in electrical and control equipment malfunction and premature aging with resulting failure. The project also includes the addition of auxiliary power at the existing Norwood BPS to improve operational reliability for the Southeast Pressure Zone in times of power supply outage and emergency conditions.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 34,581
b. Right-of Way		
c. Construction/Service Fees		\$ 450,000
d. Contingency		\$ 210,419
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 10,426
g. Cost of Issuance (Rev/GO Bonds)		\$ 13,900
h. Debt Reserve Fund (Rev Bonds)		\$ 69,500
i. Capitalized Interest		\$ -
Project Total		\$ 788,826

Estimated Life of Item (years): 25 - 30
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Projects in this program will serve to reduce annual operating costs included in the operations budget for maintaining these structures.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	788,826					\$788,826
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$788,826	\$0	\$0	\$0	\$0	\$788,826



City of Topeka

Capital Improvement Project Summary

1. Project Title: East High Service Pumping Motor Control and Electrical Switch Gear 2. Project #: T-281107.00

3. Dept/Div: Public Works - Water 4. Project Year(s): 2018

5. Type: New X Repair/Replace 6. Project Location WT Plant;3245 NW Waterworks Dr

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The East High Service Station was constructed in 1968 and is the peak day and back-up pump station that supplies water from Water Treatment Plant to the entire City of Topeka. It is critically important that these pumps, flow meters, valves and electrical controls-switchgear operate during normal operation and any emergency condition such as a break in one of the major water transmission mains at the Water Treatment Plant that convey water to the City mains. The pump station is critical for the process of reliable supply to customers for fire and domestic needs especially during Layne Station equipment failure or being out of service for maintenance.

10. Project Schedule and Estimate		Year	Amount
a. Design/Administrative Fees	2018	\$	230,000
b. Right-of Way			
c. Construction/Service Fees	2018	\$	1,940,000
d. Contingency		\$	200,000
e. Technology		\$	-
f. Financing Costs (Temp Notes)		\$	35,550
g. Cost of Issuance (Rev/GO Bonds)		\$	47,400
h. Debt Reserve Fund (Rev Bonds)		\$	237,000
i. Capitalized Interest		\$	-
Project Total		\$	2,689,950
Estimated Life of Item (years):		<u>75 -100</u>	
Source of Estimate/Year:		<u>Water/2013</u>	

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018	2,689,950					\$2,689,950
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,689,950	\$0	\$0	\$0	\$0	\$2,689,950



City of Topeka

Capital Improvement Project Summary

1. Project Title: 2.0-MG West Elevated Tank - Indian Hills Road (13) 2. Project #: T-281055.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2018
 5. Type: New Repair/Replace X 6. Project Location Indian Hills between 29th and 33rd
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: This project involves land acquisition and construction of a 2.0 M gallon elevated water storage located on Indian Hills between 29th and 33rd St. This elevated water storage tank is needed to replace the existing 750k gallon elevated tank located at Indian Hills and 17th St. The existing elevated tank is inadequate for current and future fire and domestic water storage needs within this pressure zone. This tank is also part of the phased improvement needed to allow for creation of the new East and new South Pressure Zones out of the existing Southeast and West Zones. This project was identified as part of the Water Distribution System Master Plan (February 2002). This plan was established to assess deficiencies and system capacity needs for transmission mains and system storage requirements based on the then current master plan for the City of Topeka for growth and land use. The report concludes that additional storage is needed to maintain domestic service and fire flows and to provide operational equalization for pumps and booster stations. Additional storage will also assist in reducing broken mains in this area.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2018	\$ 237,500
b. Right-of Way		\$ 150,000
c. Construction/Service Fees	2018	\$ 3,630,000
d. Contingency		\$ 162,500
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 62,700
g. Cost of Issuance (Rev/GO Bonds)		\$ 83,600
h. Debt Reserve Fund (Rev Bonds)		\$ 418,000
i. Capitalized Interest		\$ -
Project Total		\$ 4,744,300

Estimated Life of Item (years): 50 to 100
 Source of Estimate/Year: Bartlett & West/2003

11. Estimated Annual Operating Cost \$1,500
 Basis for Cost Estimate and Funding Source: 2013 costs for electrical, routine weekly inspections paid in annual operating and maintenance budget. This replacement project will not increase annual operating cost.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017						\$0
2018	4,744,300					\$4,744,300
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$4,744,300		\$0	\$0	\$0	\$4,744,300



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Plant Operations Equipment & Fleet Maintenance & Replacement Program 2. Project #: Annual SW Operations & Maintenance Program

3. Dept/Div: Public Works - Wastewater 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location City Wide

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The purpose of this program is to establish a capital equipment plan for the repair and replacement of City Water Plant equipment and vehicles. This program will limit unexpected large capital expenditures and control the overall cost of operating and maintaining this equipment. This program also ensures that equipment does not become outdated and is maintained in a manner that extends the useful life of these assets and reduces maintenance costs through improved equipment reliability and productivity. This program will minimize annual operating cost increases associated with fleet and plan equipment assets.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2017-2021	\$ 85,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 715,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 800,000

Estimated Life of Item (years): N/A

Source of Estimate/Year: O&M 2014

11. Estimated Annual Operating Cost: \$400,000

Basis for Cost Estimate and Funding Source: This is an annual O&M program. Estimated operating cost is the total cost for this program.

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	300,000					\$300,000
2018	200,000					\$200,000
2019	100,000					\$100,000
2020	100,000					\$100,000
2021	100,000					\$100,000
TOTAL	\$800,000		\$0	\$0	\$0	\$800,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: 24" on Crane - NW Harrison to NE Branner; 24" on Jefferson - NE Crane to SE 2nd 2. Project #: T-281086.00

3. Dept/Div: Public Works - Water 4. Project Year(s): 2016-2017

5. Type: New X Repair/Replace X 6. Project Location Crane; NE Harrison-Jefferson-2nd

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The project includes installation of 6150 linear feet of new 18-24" main to reinforce the water transmission capacity in the area for domestic and fire flows to support existing and continued growth and development in the central city and central-east segments of Topeka. This project is part of an overall plan to assure the capability and improved reliability of the transmission and distribution system to meet both existing and future peak day (highest water use day of the year) and fire protection requirements in this area (Central Pressure Zone) and supply booster pumping capacities for the Southeast Pressure Zone. This main supplements necessary improvements that provide the foundation for the new East and South Zones. Continued re-development and expansion in these areas will require the additional water supplied by this water main. The project timing is driven as a result of the proposed improvements to SE Seward Avenue from Branner to Rice Road to provide the source water connectivity for that transmission main. This project was identified as part of the Water Distribution System Master Plan (February 2002). This project will include construction of approximately. 2000 ft. of 24" main across BNSF railroad property to connect with NE Seward Ave (2015 CIP Project).

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2016	\$ 363,500
b. Right-of Way		\$ -
c. Construction/Service Fees	2016-2017	\$ 2,500,000
d. Contingency		
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 42,953
g. Cost of Issuance (Rev/GO Bonds)		\$ 57,270
h. Debt Reserve Fund (Rev Bonds)		\$ 286,350
i. Capitalized Interest		\$ -
Project Total		\$ 3,250,073
Estimated Life of Item (years):	<u>75 -100</u>	
Source of Estimate/Year:	<u>Water/2013</u>	

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing						
	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	491,100					\$491,100
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$491,100	\$0	\$0	\$0	\$0	\$491,100



City of Topeka

Capital Improvement Project Summary

1. Project Title: Annual Valve and Hydrant Exercising/Replacement Program 2. Project #: Annual Water Operations & Maintenance Program

3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: A systematic approach to exercise all the valves and hydrants in order to maintain an asset management system. A maintenance schedule will be implemented to exercise valves throughout the city. Valves that are not exercised periodically may become inoperable. When a water main break occurs, the area of impact would increase when trying to isolate the break as a result of inoperable valves and thereby affecting more services.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount	Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.	
a. Design/Administrative Fees		\$ -		
b. Right-of Way		\$ -		
c. Construction/Service Fees	Annual	\$ 200,000		
d. Contingency		\$ -		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ -		
g. Cost of Issuance (Rev/GO Bonds)		\$ -		
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 200,000		
Estimated Life of Item (years): <u>20 - 40</u>				
Source of Estimate/Year: <u>Water/2013</u>				

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$200,000		\$0	\$0	\$0	\$200,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Meter Replacement / AMR Upgrade Program 2. Project #: Annual Water Operations & Maintenance Program

3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2021

5. Type: New Repair/Replace X 6. Project Location Citywide

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: Replacing old and inaccurate meters throughout the city. AMR Upgrade to existing and new meters throughout the system to allow recording of water usage data remotely. The City will be able to monitor water use and data collection instantaneously, and thereby reducing man power and making the system more efficient.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 1,150,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,150,000

Estimated Life of Item (years): _____

Source of Estimate/Year: _____

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	200,000					\$200,000
2019	250,000					\$250,000
2020	250,000					\$250,000
2021	250,000					\$250,000
TOTAL	\$1,150,000		\$0	\$0	\$0	\$1,150,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Storage Tank Maintenance (Inspection-Repairs-Paint) 2. Project #: Annual Water Operations & Maintenance Program

3. Dept/Div: Public Works - Water 4. Project Year(s): 2017-2021

5. Type: New X Repair/Replace X 6. Project Location Citywide

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: Identifying an inspection schedule that allows the city to develop an asset management plan that would include the water storage tanks. Inspections might reveal certain maintenance activities such as cleaning, sandblasting and painting the water storage tanks. Inspections will include evaluation of cathodic protection systems and SCATA systems. The design lifecycle of the appurtenance would be extended through closely monitored inspection and maintenance.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2021	\$ 1,150,000
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,150,000

Estimated Life of Item (years): 20 - 40

Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	200,000					\$200,000
2019	250,000					\$250,000
2020	250,000					\$250,000
2021	250,000					\$250,000
TOTAL	\$1,150,000		\$0	\$0	\$0	\$1,150,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Rehabilitation of East Filters at the Water Treatment Plant 2. Project #: T-281102.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017
 5. Type: New X Repair/Replace X 6. Project Location Water Treatment Plant
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The rehabilitation includes replacement of the dual media, air wash and underdrain system. The design lifecycle of the media has been exceeded and there are a number of particular agglomerates that can foul the filter. By replacing the media, the agglomeration that has occurred will be removed from the filter. An updated air wash system can help eliminate agglomeration and extend the design lifecycle of the new media.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 310,192
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 800,000
d. Contingency		\$ 299,500
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 21,145
g. Cost of Issuance (Rev/GO Bonds)		\$ 28,194
h. Debt Reserve Fund (Rev Bonds)		\$ 140,969
i. Capitalized Interest		\$ -
Project Total		\$ 1,600,000

Estimated Life of Item (years): 75 -100
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,600,000					\$1,600,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,600,000	\$0	\$0	\$0	\$0	\$1,600,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Treatment Plant Master Plan Update 2. Project #: T-281103.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017
 5. Type: New X Repair/Replace X 6. Project Location WT Plant 3245 NW Waterworks Dr.
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The study will present an assessment of Topeka's water supply and treatment plant facilities. The study will evaluate existing appurtenances of the plant and determine their adequacy in order to meet present and projected water quality requirements. The water demand requirements will be addressed through the treatment processes. This report will provide the City of Topeka with a comprehensive Water Treatment Plant Master Plan and a phased improvement plan. Future water quality and treatment plant requirements will be evaluated.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 176,212
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ -
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 2,643
g. Cost of Issuance (Rev/GO Bonds)		\$ 3,524
h. Debt Reserve Fund (Rev Bonds)		\$ 17,621
i. Capitalized Interest		\$ -
Project Total		\$ 200,000

Estimated Life of Item (years): 75 -100
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$200,000		\$0	\$0	\$0	\$200,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Water Distribution Master Plan Update 2. Project #: T-281105.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017
 5. Type: New X Repair/Replace 6. Project Location Citywide
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The last Water Distribution Master Plan was completed in 2002. A new study is needed to include to various improvements that have been made as well as reevaluating break history and new demands throughout the city. The study will prioritize the water system improvements based on projected system demands and maintaining system reliability. The Pressure Zones will be reevaluated for adequate distribution pressure and minimizing water breaks.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 150,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ -
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 150,000

Estimated Life of Item (years): 75 -100
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. W Ops Fund	2.	3.	4.	5.	TOTAL
2017	150,000					\$150,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$150,000		\$0	\$0	\$0	\$150,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: 24" NE Strait from NE Seward to SE 6th Ave 2. Project #: T-281104.00
 3. Dept/Div: Public Works - Water 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Strait from Seward to 6th
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: This main supplements necessary improvements that provide the foundation for the new East and South Zones. Continued re-development and expansion in these areas will require the additional water supplied by this water main. The project timing is driven as a result of the proposed improvements to SE Seward Avenue from Branner to Rice Road to provide the source water connectivity for that transmission main. This project was identified as part of the Water Distribution System Master Plan (February 2002). The alignment is going on NE Strait from NE Seward to SE 2nd St, continuing parallel to Deer Creek Park to SE 6th Ave. The 2002 Water Distribution System Master Plan determined that this project among others will improve the delivery of potable water and fire protection throughout the city.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 320,000
b. Right-of Way		
c. Construction/Service Fees	2017	\$ 1,900,000
d. Contingency		\$ 158,855
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 35,683
g. Cost of Issuance (Rev/GO Bonds)		\$ 47,577
h. Debt Reserve Fund (Rev Bonds)		\$ 237,886
i. Capitalized Interest		\$ -
Project Total		\$ 2,700,000

Estimated Life of Item (years): 75 -100
 Source of Estimate/Year: Water/2013

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	2,700,000					\$2,700,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Phase II Layne High Service Pump Rehabilitation and Related Appurtenances 2. Project #: T-281032.01

3. Dept/Div: Public Works - Water 4. Project Year(s): 2017

5. Type: New X Repair/Replace X 6. Project Location 3245 Water Works Drive

7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: The Phase II is for Layne High Service Pump Station and distribution piping. This project comprises repair and/or replacement of aged and failing infrastructure including piping, pumps, valving, ventilation, roofing, building improvements and related appurtenances. The equipment that is critical in the overall operation of the high service pump station includes rehabilitation of five pumps and motors, correcting deficiencies in equipment, repairing concrete deterioration, repairing leaky roofs, replacement of inoperative valves and other rehabilitation and repair. Project efforts will reduce maintenance procedures and costs and prolong the useful life of the existing high service pump station in order to continue to deliver water throughout the distribution system. This project will compliment and enhance the existing project underway.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017	\$ 1,235,683
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ 18,535
g. Cost of Issuance (Rev/GO Bonds)		\$ 24,714
h. Debt Reserve Fund (Rev Bonds)		\$ 123,568
i. Capitalized Interest		\$ -
Project Total		\$ 1,402,500

Estimated Life of Item (years): 35

Source of Estimate/Year: Water/2017

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source: Annual estimated operating cost will be included in operating budget.

12. Amount by source of financing

	1. Revenue Bonds	2.	3.	4.	5.	TOTAL
2017	1,402,500					\$1,402,500
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,402,500	\$0	\$0	\$0	\$0	\$1,402,500



City of Topeka

Capital Improvement Project Summary

1. Project Title: Utility Billing and Customer Service System 2. Project #: T-801013.00
 3. Dept/Div: Water Customer Service 4. Project Year(s): 2017-2018
 5. Type: New X Repair/Replace 6. Project Location Various
 7. Contact Name: Doug Gerber, Sherry Schoonover 8. Contact Phone: 785-368-2578

9. Project Description:
 This project is for a Customer Information System (CIS) to replace the current AS400 Utility Billing system. The primary goals driving this change include:
 1. Replace an aging Utility Billing application architecture and technology which is becoming more and more difficult to operate, maintain, and enhance.
 2. Implement a CIS with emphasis on the Customer rather than a billing system with emphasis on the premise.
 3. Accommodate future products, programs, and services which the City wants to offer its customers.
 4. Streamline and align manual and automated business processes to facilitate more efficient business operations.
 5. Support integration between the City's automated systems to provide for a single system of record for customer data and information and eliminate redundancy across systems.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	900,000
d. Contingency	\$	100,000
e. Technology	\$	150,000
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	1,150,000
Estimated Life of Item (years):	<u>8</u>	
Source of Estimate/Year:	<u> </u>	

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source:
Annual SAAS pricing, approx \$150,000

12. Amount by source of financing						
	1. Utilities - Water	2.	3.	4.	5.	TOTAL
2017	500,000					\$500,000
2018	650,000					\$650,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$1,150,000		\$0	\$0	\$0	\$1,150,000



Citywide Half-Cent Sales Tax Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Maintain and Improve Existing Streets - 2017 2. Project #: T-841017.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Various Locations
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will provide maintenance and improvements to existing city streets, curbs, gutters, and sidewalks. Maintenance and improvements will be limited to elements which are already in place and in need of maintenance, repair or replacement. Projects will be administered by the Engineering Division. Proposed 2017 projects include:

- NW Tyler Street from Lyman Road to Hwy 24
- SE Fremont Street from 29th Street to 31st Street
- SE Golf Park Blvd. between Adams Street and Fremont Street
- SW 25th Street from Arrowhead Road to Fairlawn Road
- SW Oakley Avenue from 10th Street to 12th Street
- N. Kansas Avenue from Curtis Street to Norris Street
- SE 10th Avenue and Rice Road
- SW Wanamaker Road from 4th Street to 10th Street
- Local Street Repair Program in Central Park
- Street Restoration with Utility Work

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Annual	\$ 700,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 8,500,000
d. Contingency		\$ 150,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 9,350,000

Estimated Life of Item (years): 10 to 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement maintenance and pavement markings. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs of the existing deteriorated pavement.

12. Amount by source of financing

	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	9,350,000					\$9,350,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$9,350,000	\$0	\$0	\$0	\$0	\$9,350,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Maintain and Improve Existing Streets -2018 2. Project #: T-841017.01
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2018
 5. Type: New Repair/Replace X 6. Project Location Various Locations
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will provide maintenance and improvements to existing city streets, curbs, gutters, and sidewalks. Maintenance and improvements will be limited to elements which are already in place and in need of maintenance, repair or replacement. Projects will be administered by the Engineering Division. The tentative list of 2018 projects include the following projects. Each year's projects will be reassessed and resources reallocated based on updated street conditions and needs.

- SE Adams Street from 29th Street to 33rd Street
- SW Gage Blvd. from 21st Street to 25th Street
- SW 29th Street & Burlingame Road
- S. Kansas Avenue from 19th Street to 21st Street
- N. Vail Avenue from Gordon Street to Hwy 24 Frontage Road
- Bridge Repair Program - As identified in Bi-Annual Bridge Inspections
- Local Street Repair Program in Central Park
- Street Restoration with Utility Projects

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Annual	\$ 715,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 8,620,000
d. Contingency		\$ 150,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 9,485,000
Estimated Life of Item (years):	<u>10 to 30 years</u>	
Source of Estimate/Year:	<u>Eng. Div. -- 2015</u>	

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement maintenance and pavement markings. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs of the existing deteriorated pavement.

12. Amount by source of financing						
	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017						\$0
2018	9,485,000					\$9,485,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$9,485,000	\$0	\$0	\$0	\$0	\$9,485,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Maintain and Improve Existing Streets - 2019 2. Project #: T-841017.02
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2019
 5. Type: New Repair/Replace X 6. Project Location Various Locations
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will provide maintenance and improvements to existing city streets, curbs, gutters, and sidewalks. Maintenance and improvements will be limited to elements which are already in place and in need of maintenance, repair or replacement. Projects will be administered by the Engineering Division. The tentative list of 2019 projects include the following projects. Each year's projects will be reassessed and resources reallocated based on updated street conditions and needs.

- SE Adams Street from 33rd Street to 37th Street
- SW Gage Blvd. from 25th Street to 29th Street
- N. Kansas Avenue from Morse Street to Old Soldier Creek
- Bridge Repair Program - As identified in Bi-Annual Bridge Inspections
- Local Street Repair Program in Chesney Park
- Street Restoration with Utility Projects

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	Annual	\$ 730,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 8,741,350
d. Contingency		\$ 150,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 9,621,350

Estimated Life of Item (years): 10 to 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement maintenance and pavement markings. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs of the existing deteriorated pavement.

12. Amount by source of financing

	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	9,621,350					\$9,621,350
2020						\$0
2021						\$0
TOTAL	\$9,621,350	\$0	\$0	\$0	\$0	\$9,621,350



City of Topeka

Capital Improvement Project Summary

1. Project Title: Curbs, Gutters & Street Repair 2. Project #: T-841034.00
 3. Dept/Div: Public Works / Transportation Operations 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace X 6. Project Location Various Locations City wide
 7. Contact Name: Darrin Coffland 8. Contact Phone: 785-368-0125

9. Project Description: This project will replace curb and gutter sections reported by citizens City wide. It also provides funding for materials for the Transportation Operations Division to perform maintenance on streets throughout the City, including snow plowing and deicing services.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 5,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 1,470,000
d. Contingency		\$ 25,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,500,000

Estimated Life of Item (years): 10 to 30 years
 Source of Estimate/Year: 2016

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include maintenance costs. This project will provide a net reduction in operating costs due to the continued maintenance costs necessary for work on the deteriorated curb and gutter.

12. Amount by source of financing

	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	1,500,000					\$1,500,000
2018	1,500,000					\$1,500,000
2019	1,500,000					\$1,500,000
2020						\$0
2021						\$0
TOTAL	\$4,500,000	\$0	\$0	\$0	\$0	\$4,500,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Alley Repair 2. Project #: T-841041.00
 3. Dept/Div: Public Works / Transportation Operations 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace X 6. Project Location Various City wide
 7. Contact Name: Darrin Coffland 8. Contact Phone: 785-368-0125

9. Project Description: This project is approved to rehabilitate alleys City wide that are requested by constituents as determined by the Transportation Operation Division's inspection and assessment decisions. Due to varying costs related to the project work, funding will allow for two to four alleys to be rehabilitated as part of the project.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount	Basis for Cost Estimate and Funding Source:	
a. Design/Administrative Fees	Annual	\$ 42,500	Operating costs include maintenance costs. This project will provide a net reduction in operating costs due to the continued maintenance costs necessary for work on the deteriorated alleys.	
b. Right-of Way				
c. Construction/Service Fees	Annual	\$ 202,500		
d. Contingency		\$ 5,000		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)				
g. Cost of Issuance (Rev/GO Bonds)				
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 250,000		
Estimated Life of Item (years):	<u>10 to 30 years</u>			
Source of Estimate/Year:	<u>2016</u>			

12. Amount by source of financing						
	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	250,000					\$250,000
2018	250,000					\$250,000
2019	250,000					\$250,000
2020						\$0
2021						\$0
TOTAL	\$750,000	\$0	\$0	\$0	\$0	\$750,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Sidewalk Repair Program 2. Project #: T-241037.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace X 6. Project Location Various Locations throughout the City
 7. Contact Name: Shawn Bruns 8. Contact Phone: 785-368-3033

9. Project Description: This project will repair existing deteriorated sidewalks at various locations throughout the City. The project provides matching funds to allow property owners to repair sidewalks that are out of compliance with current codes.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	<u>Year</u>	<u>Amount</u>	<u>Basis for Cost Estimate and Funding Source:</u>	
a. Design/Administrative Fees	Annual		Operating costs are minimal but by City Code, sidewalk maintenance is the responsibility of the abutting property owner.	
b. Right-of Way				
c. Construction/Service Fees	Annual	\$ 100,000		
d. Contingency				
e. Technology		\$ -		
f. Financing Costs (Temp Notes)				
g. Cost of Issuance (Rev/GO Bonds)				
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 100,000		
Estimated Life of Item (years):	<u>30 years</u>			
Source of Estimate/Year:	<u>Eng. Div. -- 2015</u>			

12. Amount by source of financing

	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	100,000					\$100,000
2018	100,000					\$100,000
2019	100,000					\$100,000
2020						\$0
2021						\$0
TOTAL	\$300,000	\$0	\$0	\$0	\$0	\$300,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Street Maintenance and Repair: Local Streets 2. Project #: T-841040.00
 3. Dept/Div: Public Works / Transportation Operations 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace X 6. Project Location Various Locations City Wide
 7. Contact Name: Darrin A Coffland 8. Contact Phone: 785-368-0125

9. Project Description: This project will provide maintenance to local and collector streets, as needed to prevent the deterioration of existing streets beyond the point at which preventative maintenance efforts will no longer be effective. This project is focused toward residential neighborhoods which encompass most of the City's local streets. Locations or areas will be selected using Pavement Quality Index (PQI) from a 2006 pavement rating project, compiled by the Stantec Corporation. The 10 year old PQIs will be tempered by known pavement conditions today to select locations. Local streets with PQI ratings above 20 and below 70 which can be brought back to a PQI of 70 or above will be considered for this project. Typical maintenance and repair measures will be mill and overlay, full depth pavement repairs and replacement of concrete curb and gutter. Without preventative maintenance, asphalt pavement needs complete reconstruction after 20 to 30 years.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	Annual	\$ 150,000
b. Right-of Way		
c. Construction/Service Fees	Annual	\$ 1,750,000
d. Contingency		\$ 100,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 2,000,000
Estimated Life of Item (years):	<u>10-15 years</u>	
Source of Estimate/Year:	<u>2015</u>	

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. This project will provide a net reduction in operating costs by reducing the maintenance needs of the existing deteriorated pavement. The primary funding source for maintenance is Motor Fuel Tax.

12. Amount by source of financing

	1. Citywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	2,000,000					\$2,000,000
2018	2,000,000					\$2,000,000
2019	2,000,000					\$2,000,000
2020						\$0
2021						\$0
TOTAL	\$6,000,000	\$0	\$0	\$0	\$0	\$6,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW Wanamaker Road -- SW 4th Street to SW 6th Street 2. Project #: T-701020.00
3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2017
5. Type: New Repair/Replace X 6. Project Location SW Wanamaker Rd. -- 4th to 6th
7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides for widening SW Wanamaker Road between SW 4th Street and SW 6th Street to three lanes with funding from Go Topeka in conjunction with a city-wide half cent sales tax project. City-wide half cent sales tax funds can only pay for the replacement of existing features of the roadway. The funding from Go Topeka is provided as an incentive for the Federal Home Loan Bank to build an 80,000 square foot building in this area. The new roadway will include curb & gutter, sidewalks and a drainage system. **Note: The Citywide Half Cent Sales Tax portion of this project is contained in Maintain and Improve Existing Streets 2017. The stand-alone project sheet exists because the project also has a secondary funding source.**

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 100,000
b. Right-of Way		
c. Construction/Service Fees	2017	\$ 1,100,000
d. Contingency		\$ 100,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,300,000

Estimated Life of Item (years): 30 years

Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for new pavement versus existing deteriorated pavement.

12. Amount by source of financing

	1. Go Topeka	2. City Half Cent Sales Tax	3.	4.	5.	TOTAL
2017	650,000	650,000				\$1,300,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$650,000	\$650,000	\$0	\$0	\$0	\$1,300,000



Federal Fund Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Bridge on SW Cherokee Street over Ward Creek 2. Project #: T-121001.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace x 6. Project Location SW Cherokee over Ward Creek
 7. Contact Name: Shawn Brun 8. Contact Phone: 368-3033

9. Project Description: This project will replace the aging bridge structure on SW Cherokee Street over Ward Creek. Design is expected to get underway in 2016 with utility relocation in 2017 and construction in 2018. The existing structure was constructed in 1930.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way	2017	\$ 50,000
c. Construction/Service Fees	2018	\$ 700,000
d. Contingency		\$ 30,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 780,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Replacement of the existing bridge structure will reduce the expenditure of annual bridge maintenance funds.

12. Amount by source of financing

	1. Federal Funds	2.	3.	4.	5.	TOTAL
2017	50,000					\$50,000
2018	730,000					\$730,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$780,000		\$0	\$0	\$0	\$780,000



City of Topeka
Capital Improvement Project Summary

1. Project Title: Bridge on SW 3rd St over Ward Cr. 2. Project #: T-121003.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace x 6. Project Location SW 3rd St. over Ward Creek
 7. Contact Name: Shawn Brun 8. Contact Phone: 368-3033

9. Project Description: This project will replace the aging bridge structure on SW 3rd Street over Ward Creek. Design is expected to get underway in 2017 with utility relocation in 2018 and construction in 2019. The existing structure was constructed in 1930.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2017	\$ 75,000
b. Right-of Way	2018	\$ 50,000
c. Construction/Service Fees	1019	\$ 720,000
d. Contingency		\$ 30,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 875,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Replacement of the existing bridge structure will reduce the expenditure of annual bridge maintenance funds.

12. Amount by source of financing

	1. Federal Funds	2.	3.	4.	5.	TOTAL
2017	75,000					\$75,000
2018	50,000					\$50,000
2019	750,000					\$750,000
2020						\$0
2021						\$0
TOTAL	\$875,000		\$0	\$0	\$0	\$875,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Bridge on SE 29th Street over Butcher Creek 2. Project #: T-121005.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2019
 5. Type: New Repair/Replace x 6. Project Location SE 29th Street over Butcher Creek
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will replace the aging bridge structure on SE 29th Street over Butcher Creek. Design is expected to get underway in 2018 with utility relocation in 2019 and construction in 2020. The existing bridge was constructed in 1960.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2018	\$ 80,000
b. Right-of Way	2019	\$ 70,000
c. Construction/Service Fees	2020	\$ 800,000
d. Contingency		\$ 50,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,000,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Replacement of the existing bridge structure will reduce the expenditure of annual Bridge Maintenance Funds.

12. Amount by source of financing

	1. Federal Fund Exchange	2.	3.	4.	5.	TOTAL
2017						\$0
2018	80,000					\$80,000
2019	70,000					\$70,000
2020	850,000					\$850,000
2021						\$0
TOTAL	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Upstream River Weir 2. Project #: 281058.01
 3. Dept/Div: Public Works 4. Project Year(s): 2016-2017
 5. Type: New Repair/Replace x 6. Project Location Water Plant Weir - Kansas River
 7. Contact Name: Paul Bodner 8. Contact Phone: 368-2448

9. Project Description: Retrofit the current dam in order to eliminate the public safety threat, provide reasonable fish passage, maintain adequate upstream pool elevation for the intake and pumps, and provide navigation through the weir. The City intends to pay for the project with cash from several potential sources to be determined based on cash availability (additional federal funds, utility funds, general funds, etc).

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount	Basis for Cost Estimate and Funding Source:	
a. Design/Administrative Fees	2016	\$ 350,000		
b. Right-of Way		\$ -		
c. Construction/Service Fees	2017	\$ 1,900,000		
d. Contingency		\$ -		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ -		
g. Cost of Issuance (Rev/GO Bonds)		\$ -		
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 2,250,000		
Estimated Life of Item (years):	<u>30 years</u>			
Source of Estimate/Year:	<u>2013</u>			

12. Amount by source of financing						
	1. Federal Funds	2. Utilities	3.	4.	5.	TOTAL
2017	500,000	300,000				\$800,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$500,000	\$300,000	\$0	\$0	\$0	\$800,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Bridge Deck Patching and Polymer Overlay 2. Project #: T-121006.00
 3. Dept/Div: Public Works / Engineering 4. Project Year(s): 2021
 5. Type: New Repair/Replace X 6. Project Location SE 6th Ave. Br. & NE Sardou Bridge
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will patch the decks and install polymer overlays on the SE 6th Avenue Bridge over Shunganunga Creek and the NE Sardou Avenue Bridge over the Kansas River. These bridge decks require this major maintenance work before the deterioration becomes substantial enough to require complete removal and replacement.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2021	\$ 80,000
b. Right-of Way		
c. Construction/Service Fees	2021	\$ 1,070,000
d. Contingency		\$ 50,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		
g. Cost of Issuance (Rev/GO Bonds)		
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,200,000

Estimated Life of Item (years): 15-20 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Patching the existing bridge decks and providing a polymer overlay will reduce future expenditures from the annual bridge maintenance funds and eliminate having to spend substantially more dollars in replacing these bridge decks.

12. Amount by source of financing

	1. Federal Fund Exchange	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020						\$0
2021	1,200,000					\$1,200,000
TOTAL	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000



General Fund and Debt Service Cash Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: Fire Station Renovations 2. Project #: T-131035.00
 3. Dept/Div: Public Works 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Various
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: (1). Replace Bay door at Fire Station #10. (2). Locker room, Kitchen, and site renovations to Fire Stations #2, #3, #4, #10, and #11.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees	2017-2018	\$ 355,000
d. Contingency	2017-2018	\$ 45,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 400,000
Estimated Life of Item (years):	<u>20</u>	
Source of Estimate/Year:	<u>Fac. Div. - 2015</u>	

12. Amount by source of financing

	1. General Fund Cash	2.	3.	4.	5.	TOTAL
2017	170,000					\$170,000
2018	230,000					\$230,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$400,000	\$0	\$0	\$0	\$0	\$400,000



City of Topeka

Capital Improvement Project Summary

- 1. Project Title: Police Department Fleet Replacement
- 2. Project #: Operating budget
- 3. Dept/Div: Police Department
- 4. Project Year(s): 2017-2021
- 5. Type: New X Repair/Replace
- 6. Project Location Law Enforcement Center
- 7. Contact Name: Chief James Brown/Major Kris Kramer
- 8. Contact Phone: 368-9277

9. Project Description: The Topeka Police Department is requesting to replace front-line fleet of cars. This will allow us to replace patrol vehicles that operate 24hours a day 7 days a week and, in turn, use those vehicles to replace other vehicles in the fleet, some of which have in excess of 100,000 miles on them. This approach will allow us to roll vehicles with 50,000-60,000 miles down through the fleet to be used by our Response Team, CSI, Detectives, SRO's, Community Policing, Recruiting and Hiring and Training unit personnel. It will also allow the department to replace the vehicles we use for the Emergency Vehicle Training which is a mandatory 40 hour training course for all sworn new hires.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost
	Year	Amount	
a. Design/Administrative Fees		\$ -	Basis for Cost Estimate and Funding Source: General Fund, Police Department General Fund Budget currently has \$850,000 budgeted for fleet replacement - request would be to convert from lease purchase to buying vehicles outright. FY2017 \$300,000 current lease obligation + \$250,000 outright purchase, FY2018 \$300,000 current lease obligation + \$250,000 outright purchase, FY2019 \$250,000 outright purchase, FY2020 outright purchase, FY2021 \$250,000 outright purchase. Lease payments would be completed FY2018.
b. Right-of Way		\$ -	
c. Construction/Service Fees		\$ 1,850,000	
d. Contingency		\$ -	
e. Technology		\$ -	
f. Financing Costs (Temp Notes)		\$ -	
g. Cost of Issuance (Rev/GO Bonds)		\$ -	
h. Debt Reserve Fund (Rev Bonds)		\$ -	
i. Capitalized Interest		\$ -	
Project Total		\$ 1,850,000	
Estimated Life of Item (years): <u>5 Years</u>			
Source of Estimate/Year: <u>2016</u>			

12. Amount by source of financing							
	1. General Fund	2.	3.	4.	5.		TOTAL
	Cash						
2017	550,000						\$550,000
2018	550,000						\$550,000
2019	250,000						\$250,000
2020	250,000						\$250,000
2021	250,000						\$250,000
TOTAL	\$1,850,000		\$0	\$0	\$0	\$0	\$1,850,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Heritage Foundation Grant for TPAC & City Hall 2. Project #: T-131042.00
 3. Dept/Div: Public Works 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location TPAC & City Hall
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: (1). Repair the steps and entryway for Topeka Performing Arts Center and City Hall. 2015 is the first year that this property was qualified for this grant. If chosen, City of Topeka is required to match 20% of the cost to repair and the Heritage Foundation will cover the other 80%. Grant recipients are chosen near the end of the year for participation in the following year but we must show that we have our match in monies.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 412,000
d. Contingency		\$ 61,800
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 473,800

Estimated Life of Item (years): 70
 Source of Estimate/Year: Contractor - 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Estimate from mason contractor came in at \$400,000.00

12. Amount by source of financing

	1. Heritage Grant	2. General Fund Cash	3.	4.	5.	TOTAL
2017	90,000	383,800				\$473,800
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$90,000	\$383,800		\$0	\$0	\$473,800



City of Topeka

Capital Improvement Project Summary

1. Project Title: Municipal Buildings Roof Replacement 2. Project #: T-131040.00
 3. Dept/Div: Public Works 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Various
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: Fire Dept. Fleet Garage: A flat EPDM roof system that is near its end of life and in its condition may last one more year. Gravel and rubber membrane needs removed and replaced with new type of membrane. Zoo - Maintenance Shop: A metal roof that is at the end of its life. Coming apart at the edges, screws are loose and causing too many leaks to qualify this for repairs only.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	68,000
d. Contingency	\$	5,000
e. Technology	\$	-
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	73,000

Estimated Life of Item (years): 15-20
 Source of Estimate/Year: 2015

12. Amount by source of financing

	1. General Fund	2.	3.	4.	5.	TOTAL
	Cash					
2017	73,000					\$73,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$73,000	\$0	\$0	\$0	\$0	\$73,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Law Enforcement Center Parking Garage 2. Project #: T-131041.00
 3. Dept/Div: Public Works 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location LEC Garage
 7. Contact Name: Vince Schuetz 8. Contact Phone: 368-3934

9. Project Description: Remove all delaminated concrete. Sand blast exposed reinforcing bars or replace as required. Patch back with 4,000 psi concrete. Remove existing epoxy overlay. Install new hybrid coating system. The base coat is a urethane with the top coat of an epoxy. Restripe parking stalls after placement of traffic membrane.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	787,000
d. Contingency	\$	100,000
e. Technology	\$	-
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	887,000

Estimated Life of Item (years): 40-50
 Source of Estimate/Year: Eng. Consultant / 2015

12. Amount by source of financing

	1. Debt Service Cash	2.	3.	4.	5.	TOTAL
2017	887,000					\$887,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$887,000	\$0	\$0	\$0	\$0	\$887,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Zoo Service Road Repair 2. Project #: Coming soon

3. Dept/Div: Zoo Service Road Repair 4. Project Year(s): 2017

5. Type: New Repair/Replace X 6. Project Location Topeka Zoological Park

7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: This project will repair existing service roads on zoo property including a parking and trash storage area that have deteriorated beyond repair.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost	
	Year	Amount	Basis for Cost Estimate and Funding Source: This item will not increase annual operating costs.	
a. Design/Administrative Fees	2017	\$ 13,524		
b. Right-of Way		\$ -		
c. Construction/Service Fees	2017	\$ 193,200		
d. Contingency		\$ -		
e. Technology		\$ -		
f. Financing Costs (Temp Notes)		\$ -		
g. Cost of Issuance (Rev/GO Bonds)		\$ -		
h. Debt Reserve Fund (Rev Bonds)		\$ -		
i. Capitalized Interest		\$ -		
Project Total		\$ 206,724		
Estimated Life of Item (years): <u>30 years</u>				
Source of Estimate/Year: <u>2014 Contractor Estimate</u>				

12. Amount by source of financing

	1. Debt Service Cash	2.	3.	4.	5.	TOTAL
2017						\$0
2018	206,724					\$206,724
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$206,724	\$0	\$0	\$0	\$0	\$206,724



City of Topeka

Capital Improvement Project Summary

1. Project Title: Self Contained Breathing Apparatus (SCBA) - Fire 2. Project #: T-801009.00
 3. Dept/Div: Fire 4. Project Year(s): 2018
 5. Type: New x Repair/Replace x 6. Project Location All Stations
 7. Contact Name: Buck Breckenridge 8. Contact Phone: 368-0111

9. Project Description: Supply Self Contained Breathing Apparatus for the fire department. A 2018-2022 lease-purchase agreement will be utilized for the acquisition of this equipment.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees		\$ -
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ 636,444
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 636,444

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: 2013

12. Amount by source of financing

	1. General Fund Cash	2.	3.	4.	5.	TOTAL
2017						\$0
2018	159,111					\$159,111
2019	159,111					\$159,111
2020	159,111					\$159,111
2021	159,111					\$159,111
TOTAL	\$636,444		\$0	\$0	\$0	\$636,444



IT Fund Cash



City of Topeka
Capital Improvement Project Summary

1. Project Title: Desktop Computer Replacement 2. Project #: IS-2017-005
 3. Dept/Div: Information Technology 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location Citywide
 7. Contact Name: Mark Biswell 8. Contact Phone: 368-3718

9. Project Description: This is a project to upgrade 325-personal computers across the computing enterprise of the City.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	-
d. Contingency	\$	-
e. Technology	\$	333,000
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	333,000

Estimated Life of Item (years): 4
 Source of Estimate/Year: Decembr 2015

11. Estimated Annual Operating Cost

This upgrade is a typical technology refresh that occurs every four years and is funded through leases charged to the IT Fund. There a total of four separate leases that will become due in 2017 with a request for renewal in 2017.

12. Amount by source of financing

	1. IT Fund	2.	3.	4.	5.	TOTAL
2017	83,250					\$83,250
2018	83,250					\$83,250
2019	83,250					\$83,250
2020	83,250					\$83,250
2021						
TOTAL	\$333,000		\$0	\$0	\$0	\$333,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Security Systems Replacement 2. Project #: IS-2017-006
 3. Dept/Div: Information Technology 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location IT Server Room
 7. Contact Name: Mark Biswell 8. Contact Phone: 368-3718

9. Project Description: This is a project to upgrade 3-IT security appliances that protect the enterprise IT system from cyber attacks.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	-
d. Contingency	\$	-
e. Technology	\$	210,000
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	210,000

Estimated Life of Item (years): 4
 Source of Estimate/Year: Decembr 2015

11. Estimated Annual Operating Cost

This upgrade is a typical technology refresh that occurs every four years and is funded through leases charged to the IT Fund. There a total one lease that will become due in 2017 with a request for renewal in 2017.

12. Amount by source of financing

	1. IT Fund	2.	3.	4.	5.	TOTAL
2017	52,500					\$52,500
2018	52,500					\$52,500
2019	52,500					\$52,500
2020	52,500					\$52,500
2021						\$0
TOTAL	\$210,000		\$0	\$0	\$0	\$210,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Data Back-up System Replacement 2. Project #: IS-2017-007
 3. Dept/Div: Information Technology 4. Project Year(s): 2017
 5. Type: New Repair/Replace X 6. Project Location IT Server Room
 7. Contact Name: Mark Biswell 8. Contact Phone: 368-3718
 9. Project Description: This is a project to upgrade 6-data back-up appliances that are used to back-up data across the enterprise.

10. Project Schedule and Estimate			11. Estimated Annual Operating Cost
	Year	Amount	
a. Design/Administrative Fees		\$ -	This upgrade is a typical technology refresh that occurs every four years and is funded through a lease charged to the IT Fund. There is a total of one lease that will become due in 2017 with a request for renewal in 2017.
b. Right-of Way		\$ -	
c. Construction/Service Fees		\$ -	
d. Contingency		\$ -	
e. Technology		\$ 250,000	
f. Financing Costs (Temp Notes)		\$ -	
g. Cost of Issuance (Rev/GO Bonds)		\$ -	
h. Debt Reserve Fund (Rev Bonds)		\$ -	
i. Capitalized Interest		\$ -	
Project Total		\$ 250,000	
Estimated Life of Item (years):		<u>4</u>	
Source of Estimate/Year:		<u>Decembr 2015</u>	

12. Amount by source of financing						
	1. IT Fund	2.	3.	4.	5.	TOTAL
2017	62,500					\$62,500
2018	62,500					\$62,500
2019	62,500					\$62,500
2020	62,500					\$62,500
2021						\$0
TOTAL	\$250,000		\$0	\$0	\$0	\$250,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Citywide Single Payment Portal 2. Project #: T-801011.00
 3. Dept/Div: All 4. Project Year(s): 2017-2018
 5. Type: New X Repair/Replace 6. Project Location Various
 7. Contact Name: Brandon Kauffman, Sherry Schoonover 8. Contact Phone: 785-368-2578

9. Project Description:
 This project is for a single payment gateway which will allow for various payment types for different services in one place. The customer will be able to pay for water bills, parking tickets, police alarm, license renewal, etc within the same portal. This information is then disseminated to the different source applications.

- Gateway services and management of merchant services agreements
- Cash management by consolidating all payments into a single data repository
- Multiple destination bank accounts
- Integration to front-end and back-office systems
- Online financial reporting for research and reconciliation
- Real-time and batch payment authorizations
- Handling of refunds, chargebacks and exceptions, as applicable

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	250,000
d. Contingency	\$	80,000
e. Technology	\$	60,000
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	390,000

Estimated Life of Item (years): 8
 Source of Estimate/Year: Decembr 2015

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Annual pricing, approx \$60,000

12. Amount by source of financing

	1. IT Fund	2.	3.	4.	5.	TOTAL
2017	200,000					\$200,000
2018	190,000					\$190,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$390,000	\$0	\$0	\$0	\$0	\$390,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Data Center Construction 2. Project #: T-801010.00
 3. Dept/Div: Information Technology 4. Project Year(s): 2017
 5. Type: New x Repair/Replace 6. Project Location City Hall
 7. Contact Name: _____ 8. Contact Phone: 368-3718

9. Project Description: The purpose of this project is to build a new data center in City Hall. The current data center is 25 + years old and does not meet current needs for electrical, ceiling height, HVAC density, equipment load/weight and fire suppression. The new data center will incorporate a proper power/UPS system, added ceiling height, a hard floor, modern in-row cooling and a fire suppression system.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	\$	-
b. Right-of Way	\$	-
c. Construction/Service Fees	\$	85,000
d. Contingency	\$	-
e. Technology	\$	160,000
f. Financing Costs (Temp Notes)	\$	-
g. Cost of Issuance (Rev/GO Bonds)	\$	-
h. Debt Reserve Fund (Rev Bonds)	\$	-
i. Capitalized Interest	\$	-
Project Total	\$	245,000

Estimated Life of Item (years): 25
 Source of Estimate/Year: 2016

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source: The project estimates were provided by a data center designer, a mechanical estimator and an electrical estimator. The funding source will be the IT Fund 6131259.

12. Amount by source of financing

	1. IT Fund	2.	3.	4.	5.	TOTAL
2017	245,000					\$245,000
2018						\$0
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$245,000	\$0	\$0	\$0	\$0	\$245,000



Countywide Half-Cent Sales Tax Projects



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW 6th Avenue -- SW Gage Boulevard to SW Fairlawn Road 2. Project #: T-701013.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2017-2018
 5. Type: New Repair/Replace x 6. Project Location SW 6th Ave. --Gage to Fairlawn
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will widen SW 6th Avenue between SW Gage Blvd. and SW Fairlawn Road. The new roadway will include curb & gutter, sidewalks, street lighting, and a drainage system. The project will be funded by an extension of the Countywide Half Cent Sales Tax to take effect January 1, 2017.

10. Project Schedule and Estimate		
	Year	Amount
a. Design/Administrative Fees	2017-18	\$ 450,000
b. Right-of Way	2017-18	\$ 150,000
c. Construction/Service Fees	2017-18	\$ 4,900,000
d. Contingency	2018	\$ 100,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 5,600,000
Estimated Life of Item (years):	<u>30 years</u>	
Source of Estimate/Year:	<u>Eng. Div. -- 2015</u>	

11. Estimated Annual Operating Cost
 Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing						
	1. Countywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017	500,000					\$500,000
2018	5,100,000					\$5,100,000
2019						\$0
2020						\$0
2021						\$0
TOTAL	\$5,600,000	\$0	\$0	\$0	\$0	\$5,600,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Zoo Master Plan 2. Project #: T-301047.00
 3. Dept/Div: Topeka Zoo 4. Project Year(s): 2016-2020
 5. Type: New Repair/Replace x 6. Project Location Topeka Zoo
 7. Contact Name: Brendan Wiley 8. Contact Phone: 368-9131

9. Project Description: Implementation of the Zoo Master Plan was approved as part of the extension of the Countywide Sales Tax vote. This project sheet represents just the portion of the project which is estimated to be completed between 2016-2020, which includes the following projects: 1) Camp Cowabunga: This project will redevelop a central area in the zoo. It will feature exhibits including African lions, red patas monkeys and painted dogs. The exhibits will surround a safari camp and lodge that will allow guests up close views of the animals as well as interactive educational opportunities. The lodge will consist of four "tents" of which the last one will be known as Gary's Tent. 2) Tiger Trails: Tiger Trails is a project that will move the zoo's Sumatran Tiger exhibit to the Asian area of the zoo. This will make room for the following elephant exhibit expansion while at the same time strengthening the educational value of the tiger exhibit. Tiger Trails will be designed in a way that allows continued participation in the Sumatran Tiger breeding program and will add cultural elements to the exhibit as well. 3) Elephant Reserve: Elephant Reserve will expand both the elephant holding building and outdoor elephant exhibit. The holding building will approximately double in size and be able to hold up to eight elephants including a bull. It will allow for year round viewing and will have a community room for the elephants that will have a sand floor. The outside exhibit will cover nearly three acres that will facilitate natural elephant behavior and abundant stimulation for the elephants throughout the day and night. 4) Giraffe Canopy is a project that will move the zoo's giraffe to a new exhibit on the East side of the zoo. Giraffe Canopy will build a new modern holding facility and will add a mixed species exhibit approximately an acre and a half in size.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2016-2017	\$ 600,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2018-2020	\$ 12,090,000
d. Contingency	2018-2021	\$ 1,410,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 14,100,000
Estimated Life of Item (years):	<u>30 years</u>	
Source of Estimate/Year:	<u>Eng. Div. -- 2015</u>	

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source: All four projects will be funded through a combination of dedicated Countywide Half Cent Sales Tax funds and Donations.

12. Amount by source of financing						
	1. Countywide Half Cent Sales Tax	2. Donations	3.	4.	5.	TOTAL
2017						\$0
2018	1,500,000	1,600,000				\$3,100,000
2019	1,500,000	1,500,000				\$3,000,000
2020		3,000,000				\$3,000,000
2021		5,000,000				\$5,000,000
TOTAL	\$3,000,000	\$11,100,000	\$0	\$0	\$0	\$14,100,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: Bikeways Master Plan 2. Project #: T-861010.00
 3. Dept/Div: Public Works -- Engineering / Planning 4. Project Year(s): 2018 & 2020
 5. Type: New Repair/Replace x 6. Project Location Various
 7. Contact Name: Terry Coder 8. Contact Phone: 368-3029

9. Project Description: This project will construct bikeway routes identified in the Topeka Bikeways Master Plan. The project will improve the bicycle network across the City by providing such features as side paths, shared routes, connecting links, and bike lanes. The project will be funded by an extension of the Countywide Half Cent sales tax to take effect January 1, 2017. The project will be constructed in phases every other year starting in 2018.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2018 & 2020	\$ 75,000
b. Right-of Way		\$ -
c. Construction/Service Fees	2018 & 2020	\$ 850,000
d. Contingency	2018 & 2020	\$ 75,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 1,000,000

Estimated Life of Item (years): 10-30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include replacing pavemen markings and signs. The primary funding source is Motor Fuel Tax.

12. Amount by source of financing

	1. Countywide Half Cent Sales Tax	3.	4.	5.	TOTAL
2017					\$0
2018	500,000				\$500,000
2019					\$0
2020	500,000				\$500,000
2021					\$0
TOTAL	\$1,000,000	\$0	\$0	\$0	\$1,000,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: 12th Street (2 lanes) -- Gage Boulevard to Kansas Avenue 2. Project #: T-701016.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2019-2021
 5. Type: New Repair/Replace x 6. Project Location 12th Street -- Gage to Kansas
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project provides funding for replacing 12th Street between Gage Blvd. and Kansas Avenue. The new roadway will include curb & gutter, sidewalks, and a drainage system. The project will be funded from the extension of the Countywide Half Cent sales tax to take effect January 1, 2017. The project is expected to be constructed in 2021-2022 with additional funding of \$6,140,000 provided in Year 2022.

10. Project Schedule and Estimate		
	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2019-2020	\$ 600,000
b. Right-of Way	2020	\$ 200,000
c. Construction/Service Fees	2021	\$ 6,000,000
d. Contingency	2020-2021	\$ 240,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 7,040,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost
Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing						
	1. Countywide Half Cent Sales Tax	2. G.O. Bond	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019	500,000					\$500,000
2020	400,000					\$400,000
2021	6,140,000					\$6,140,000
TOTAL	\$7,040,000	\$0	\$0	\$0	\$0	\$7,040,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SE California Avenue -- SE 37th Street to SE 45th Street 2. Project #: T-701021.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2018-2020
 5. Type: New Repair/Replace x 6. Project Location SE California Ave. -- 37th to 45th
 7. Contact Name: Shawn Brun 8. Contact Phone: 368-3033

9. Project Description: This project will widen SE California Avenue between SE 37th Street and SE 45th Street. The new roadway will include curb & gutter, sidewalks, street lighting, and a drainage system. The project will be funded by an extension of the Countywide Half Cent sales tax to take effect January 1, 2017. The project is expected to be constructed in 2020.

10. Project Schedule and Estimate

	Year	Amount
a. Design/Administrative Fees	2018-20	\$ 450,000
b. Right-of Way	2019	\$ 150,000
c. Construction/Service Fees	2020	\$ 4,800,000
d. Contingency	2018-20	\$ 200,000
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 5,600,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing

	1. Countywide Half Cent Sales Tax	3.	4.	5.	TOTAL
2017					\$0
2018	400,000				\$400,000
2019	200,000				\$200,000
2020	5,000,000				\$5,000,000
2021					\$0
TOTAL	\$5,600,000	\$0	\$0	\$0	\$5,600,000



City of Topeka

Capital Improvement Project Summary

1. Project Title: SW 17th Street -- MacVicar Ave. to Interstate 470 2. Project #: T- 701022.00
 3. Dept/Div: Public Works -- Engineering 4. Project Year(s): 2021
 5. Type: New Repair/Replace x 6. Project Location SW 17th Street -- MacVicar to I-470
 7. Contact Name: Shawn Bruns 8. Contact Phone: 368-3033

9. Project Description: This project will replace the pavement on SW 17th Street between SW MacVicar Avenue and Interstate 470. The roadway will include curb & gutter, sidewalks, and a drainage system. The project will be funded by an extension of the Countywide Half Cent sales tax to take effect January 1, 2017. The project is expected to be constructed in three sections from 2023-25 with additional funding of \$13,800,000 provided in Years 2022-25.

10. Project Schedule and Estimate

	<u>Year</u>	<u>Amount</u>
a. Design/Administrative Fees	2021	\$ 800,000
b. Right-of Way		\$ -
c. Construction/Service Fees		\$ -
d. Contingency		\$ -
e. Technology		\$ -
f. Financing Costs (Temp Notes)		\$ -
g. Cost of Issuance (Rev/GO Bonds)		\$ -
h. Debt Reserve Fund (Rev Bonds)		\$ -
i. Capitalized Interest		\$ -
Project Total		\$ 800,000

Estimated Life of Item (years): 30 years
 Source of Estimate/Year: Eng. Div. -- 2015

11. Estimated Annual Operating Cost

Basis for Cost Estimate and Funding Source:
 Operating costs include pavement markings and crack sealing. The primary funding source is Motor Fuel Tax. This project will provide a net reduction in operating costs by reducing the maintenance needs for the new pavement versus the existing deteriorated pavement.

12. Amount by source of financing

	1. Countywide Half Cent Sales Tax	2.	3.	4.	5.	TOTAL
2017						\$0
2018						\$0
2019						\$0
2020						\$0
2021	800,000					\$800,000
TOTAL	\$800,000	\$0	\$0	\$0	\$0	\$800,000



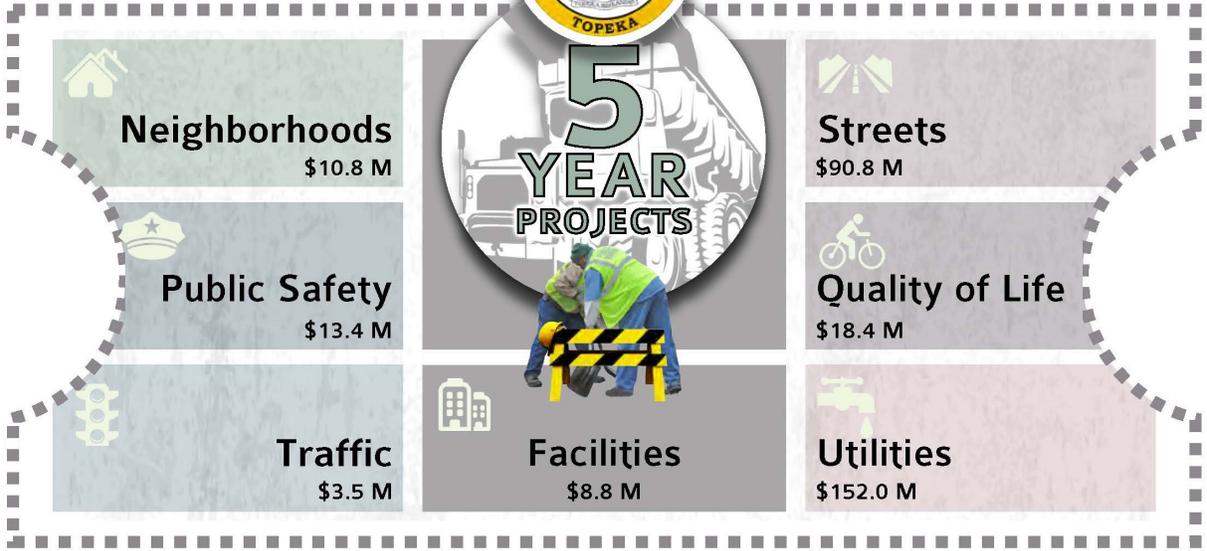
Appendix

FUTURE FUNDING PROJECT LIST



The City has far more infrastructure needs than funding available. Below is a nonexclusive list of currently unfunded projects. These are projects that have been identified as potential projects in the next 5 –10 years, but are not included in the Capital Improvement Plan due to funding constraints. Note there may be additional unfunded projects that aren't included below. This list is a "living document" which will be added to throughout the year and considered each year with the next CIP process.

2017-2021 CIP Future Funding List			
Project Title	Type	Estimated Cost	Reason
SW 10 th Avenue – SW Wanamaker Road to SW Gerald Lane	Street	2,000,000	Road Expansion, Future Comm. Development
SW Huntoon Street – SW Executive Drive to SW Urish Road	Street	3,800,000	Road Expansion, Future Residential Development
Replacement of Medians	Street	300,000	Maintenance
Union Pacific Railroad Pedestrian Crossing N. Ks Ave./NOTO	Street	1,300,000	Safety
Southwest Parkway – SW Gage Blvd. to SW Wanamaker Road	Street	11,000,000	New Road Construction, Future Development
SW Fairlawn Road – SW 37 th Street to Southwest Parkway	Street	2,800,000	New Road Construction, Future Development
SW Urish Road – SW 21 st Street to SW 29 th Street	Street	5,400,000	Road Expansion
SW Urish Road – SW 17 th Street to SW Huntoon Street	Street	3,000,000	Road Expansion, Future Development
SW 45 th Street – SW Gage Blvd. to SW Burlingame Road	Street	6,500,000	Road Expansion, Future Residential Development
SW 49 th Street – SW Topeka Blvd. to SW Wenger Road	Street	3,000,000	Road Expansion, Future Industrial Development
SW 57 th Street – SW Topeka Blvd. to Hwy 75	Street	5,200,000	Road Expansion, Future Industrial Development
SE Indiana Avenue – SE 42 nd Street to SE 45 th Street	Street	1,500,000	New Road Construction, Future Resid. Development
NW Tyler Street – NW Beverly Street to NW Paramore Street	Street	1,500,000	Road Expansion
S. Topeka Blvd. from 37 th Street to 49 th Street	Street	5,200,000	Maintain Existing Street
S. Kansas Avenue from 10 th Street to 19 th Street	Street	4,000,000	Maintain Existing Street
SW 29 th Street from Burlingame Road to Topeka Blvd.	Street	2,000,000	Maintain Existing Street
S. Topeka Blvd from 21 st Street to 29 th Street	Street	4,000,000	Maintain Existing Street
SW 21 st Street from I-470 Bridges To Fairlawn Road	Street	2,000,000	Maintain Existing Street
SE Quincy Street from 6 th Street to 10 th Street	Street	1,500,000	Maintain Existing Street
SW Gage Blvd. from I-70 to 6 th Street	Street	2,200,000	Maintain Existing Street
SW 6 th Avenue from Wanamaker Road west to Museum Drive	Street	1,500,000	Maintain Existing Street
SE 29 th Street from Kansas Avenue to Adams Street	Street	2,500,000	Maintain Existing Street
SW Fairlawn Road from 23 rd Street to 29 th Street	Street	3,000,000	Maintain Existing Street
Oakland WWTP - Headworks Generator	Wastewater	850,000	Emergency backup power at Oakland WWTP
North Topeka Pump Station Rehabilitation	Wastewater	2,846,000	Age, deterioration, inefficient operation
Wastewater Replacement Program	Wastewater	13,500,000	Improve integrity of infrastructure, regulatory compliance
WPC Facility Rehabilitation Program	Wastewater	3,000,000	Repair and/or replacement of aged and failing structures
Small WW Pump Station Rehab & Replacement Program	Wastewater	4,500,000	Improve integrity of infrastructure, regulatory compliance
Sanitary Sewer Interceptor Maint & Rehab	Wastewater	4,500,000	CSO impact removal of source (storm) water
Wastewater Plant Operations Equipment & Fleet Maint. & Replacement Program	Wastewater	400,000	Repair and replacement of equipment and vehicles
Shunga Flood Mitigation Program	Stormwater	14,000,000	Projects from the Shunga Flood Mitigation Feasibility Study
Storm Conveyance System Rehab	Stormwater	15,500,000	Improve integrity of infrastructure, regulatory compliance
Stormwater Operations Equipment & Fleet Mant. & Replacement Program	Stormwater	600,000	Repair and replacement of equipment and vehicles
Drainage Correction Program	Stormwater	1,000,000	Create solutions for existing drainage problems
Soldier Township Transmission Improvements Phase I	Water	1,299,575	Water demands have exceeded capacity
High Service Pumping Emergency Power	Water	3,143,950	Emergency backup power for Layne Station at WTP
18" on SW Fairlawn and SW 45 th - SW 41 st to SW Gage	Water	3,000,000	To meet current and future water demands
Soldier Township Transmission Improvements Phase II	Water	3,121,250	Water demands have exceeded capacity
Disinfection Modification Phase I	Water	10,000,000	Improve water quality, reduce impact of TTHMs and HAAs
16" on SW Wenger - Home Depot to SW 57 th ; 18" on SW 57 th - SW Wenger to SW Topeka	Water	2,462,950	To meet current and future water demands
24" on SW MacVicar - SW 29 th to SW 37 th	Water	2,400,525	To meet current and future water demands
Disinfection Modification Phase II	Water	12,000,000	Improve water quality, reduce impact of TTHMs and HAAs
24" to Montara Pump Station - SW 57 th to SW University	Water	2,264,325	To meet current and future water demands
Soldier Township Transmission Improvements Phase III	Water	2,258,650	Water demands have exceeded capacity
South Elevated Tank; SW 65 th Street	Water	5,360,690	Water demands have exceeded capacity
Water Main Replacement Program	Water	8,000,000	Improve integrity of infrastructure, regulatory compliance
Water Plant Rehabilitation Program	Water	7,950,000	Repair and/or replacement of aged and failing structures
Water Plant Operations Equipment & Fleet Maint. & Replacement Program	Water	1,200,000	Repair and replacement of equipment and vehicles
Meter Replacement / AMR Upgrade Program	Water	100,000	Replacing old and inaccurate meters throughout the city
Water Storage Tank Maint (Inspect-Repair-Painting)	Water	100,000	Structural maintenance, repair cathodic protection systems
Annual Valve & hydrant Exercising Repl Program	Water	800,000	Exercise valves to maintain operability
Total:		\$201,357,915	



- GO Bonds
- Water
- Stormwater
- Wastewater
- Citywide Half Cent Sales Tax
- Countywide Half Cent Sales tax
- Federal Funding
- Cash (General, Donations or IT)

WHAT IS THE CIP?

The Capital Improvement Plan (CIP) is a 5-year program for building and of paying for improvements to streets, quality of life, utility and other projects.

A GREAT PLACE TO GROW POTATOES

