



Hanford Village, an east side neighborhood on the National Register of Historic Places, was settled in 1909. Four decades later, the area was marketed to returning African-American military veterans of WWII and their families, including members of the Tuskegee Airmen. However, much of the 1940s and 1950s development, consisting of cape cod style homes, was destroyed with the construction of I-70. What remains has been declared a historic district.

CAPITAL IMPROVEMENTS PROGRAM

The Capital Improvements Program (CIP) is a six-year planning document for future capital projects throughout the city. The CIP does not authorize spending, but rather is a resolution passed by City Council.

The Capital Improvements Budget (CIB) serves as the basis for all budgeting and spending related to capital projects throughout the city for the ensuing year. The CIB is a one-year budget that is authorized by an ordinance passed by City Council. The CIB is also included as the first year within the six-year CIP. Both the CIB and the CIP provide a breakdown of the various capital projects by department and by source of funding.

To be eligible for capital improvements funding (i.e. from the issuance of debt), a capital project must result in the acquisition of an asset with a useful life of at least five years and be considered non-operational in nature. The asset should have a cost of \$5,000 or more. In addition to acquisition, capital funding can be used for projects that will improve an existing asset or that which will extend the useful life of an asset.

Some examples of capital improvements projects include the purchase of major equipment items, street lighting improvements, street and highway improvements, land acquisition, recreational trail improvements, building construction, facility rehabilitation, and improvements to the public utilities systems throughout the city.

The Capital Planning Process

In accordance with City Code Section 333.05, each city department shall submit to the Director of Finance and Management all proposed capital projects to be given consideration for the CIB and the six-year CIP no later than September 15th each year. All projects submitted must meet the eligibility requirements for capital funding.

Based on assumptions at the time of submission, the proposed CIB and proposed CIP are submitted to City Council no later than November 15th of each year. After the close of the fiscal year, the capital funding assumptions are updated and finalized. These updated figures serve as the total funding available for the CIB and the CIP.

The Department of Finance and Management, in consultation with the Mayor's office and the other administrative departments of the city, will analyze and recommend an updated CIB and CIP for consideration before City Council after the fiscal year has officially closed.



Road being resurfaced with new asphalt as a continued part of the city's resurfacing commitment.

Types of Capital Funding

The CIP is funded mainly by the issuance of debt in the form of general obligation bonds. The city utilizes both voted debt and unvoted debt, also called councilmanic debt, when issuing general obligation bonds. Voted debt is authorized by a popular vote of the electorate and is not subject to the same debt limitations as unvoted debt. Voter approval provides the city with the ability to levy an *ad valorem* property tax to service the debt. This property tax is based upon the assessed value of a property. While the city solicits voter approval from time to time, it has never exercised its taxing authority for this purpose and does not intend to do so; however, its ability to do so gives potential investors assurance their investments in the city are secure.

Because of this security, voted debt typically carries a lower interest expense than unvoted debt. This results in additional savings for the city.

The city typically requests voter approval for the issuance of voted debt through bond packages every 3-5 years. A bond package normally consists of several issues that will be placed on the ballot for a popular vote. Seeking voter approval every few years allows the city to solicit voter input and participation in the capital project prioritization process. At the time of printing, the city was seeking voter approval for a 2016 bond package. Four separate issues will appear on the November 8, 2016 ballot for the purposes of Safety & Health, Recreation & Parks, Public Service, and Public Utilities. The 2016 bond package totals \$950 million between all four issues.

The most recently approved bond package was on the November 5, 2013 ballot. The voters approved four separate bond issues totaling \$842 million. These issues were intended to accommodate planned capital improvements for non-enterprise and enterprise agencies. The package provided voted authority for the purposes of Safety & Health, Recreation & Parks, Public Service, and Public Utilities. The city has utilized \$552 million of the 2013 voted authority. In addition, the city also has \$124 million of remaining authority from the 2008 voted bond package. The tables below show the remaining voted authority, by purpose, as of October 31, 2016.

2008 Voted Bond Package		
(000's omitted)		
Purpose	Amount Authorized	Amount Remaining
Safety & Health	\$ 86,170	\$ -
Recreation & Parks	124,215	-
Streets & Highways	345,630	-
Refuse Collection	32,205	-
Water	524,700	-
Sanitary	551,970	124,115
Total	\$ 1,664,890	\$ 124,115

2013 Voted Bond Package		
(000's omitted)		
Purpose	Amount Authorized	Amount Remaining
Safety & Health	\$ 52,500	\$ -
Recreation & Parks	123,910	18,605
Public Service	220,300	-
Public Utilities	445,295	271,155
Total	\$ 842,005	\$ 289,760

In addition to utilizing voted debt in order to ensure lower interest rates, the city also seeks a credit rating on each bond issue. The national rating agencies, Standard & Poor's Corporation, Moody's Investors Service, and Fitch Ratings, rate the security of Columbus for investors. The three agencies currently give the City of Columbus their highest and most sought after long-term

Capital Improvements Program

credit rating – AAA, Aaa, and AAA, respectively. These ratings allow the city to realize interest savings when issuing debt because investors can be confident of timely repayment.

Unvoted debt is a debt issuance that has been authorized by City Council, but not by a vote of the electorate. Unvoted debt is subject to additional limits set forth in the Ohio Revised Code. Unvoted debt typically carries a higher interest rate than voted debt.

The city may also utilize other types of funding for the CIP. These include, but are not limited to the following:

- **State Infrastructure Bank (SIB) Loans** – Authorized by the Ohio Revised Code, Chapter 5531, the SIB issues direct loans for the purpose of developing transportation facilities and infrastructure throughout Ohio. SIB loans are low interest rate loans granted to various municipal agencies. The funds originate from Federal sources and are subject to all Federal regulations. Projects which utilize SIB loans must go through a selection and approval process within the Ohio Department of Transportation before funds would be available.
- **Ohio Public Works Commission (OPWC) Loans and Grants** – Created in 1987, OPWC provides capital funding to municipalities through the State Capital Improvement Program (SCIP) and the Local Transportation Improvement Program (LTIP). Applications for funding are submitted to OPWC and go through a selection and approval process. If approved, loans can be made through these programs that have low interest rates and can be used to partially or fully fund a project. Grants are also available to partially fund capital projects that meet the criteria established by OPWC.
- **Ohio Environmental Protection Agency (OEPA) Loans** – The OEPA provides loans through the Ohio Water Development Authority (OWDA). Created by the State Legislature in 1968, OWDA administers and directs funds from the OEPA to local governments through loan and grant programs. The city may utilize available funding through the Water Pollution Control Loan Fund (WPCLF) and the Water Supply Revolving Loan Account (WSRLA). These fixed, below market-rate loans can be used for wastewater infrastructure projects such as improvements to collection and treatment systems, and for construction related to public water systems. Projects must be submitted to OEPA and approved through an evaluation process.



Newly renovated Hanford Village Park playground, shelter house, and basketball court. Construction was completed during summer 2016.

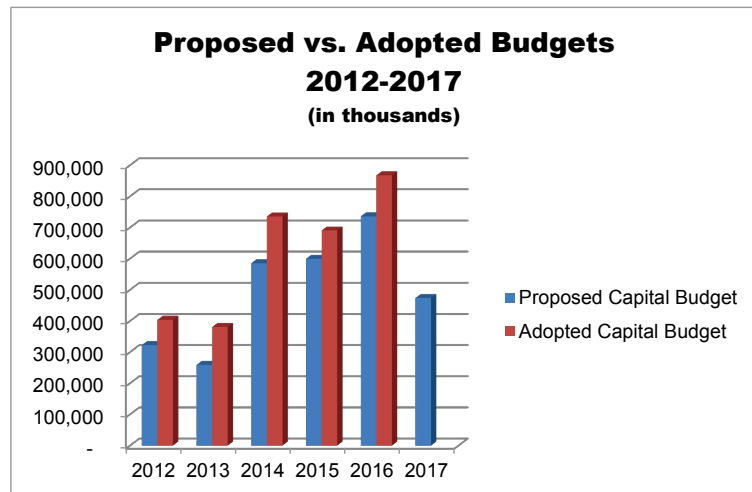
Funding the Capital Improvement Program

The city deposits twenty-five percent of the City of Columbus' two and one-half percent income tax to the special income tax (SIT) fund to service debt, primarily for non-enterprise agencies. In 2017, SIT income tax deposits are currently projected at nearly \$210.9 million. This amount will be revised when the final 2016 income tax proceeds are collected and deposited into the SIT fund. Non-enterprise agencies primarily represent operations funded by the general fund or the street construction, maintenance, and repair fund that do not have separate revenue sources. Non-enterprise projects include construction and improvements of expressways, parks, fire stations and equipment, police facilities, and streets and traffic control. In addition, the SIT fund services debt on the Capitol South redevelopment projects as well as the tipping fees for solid waste disposal. Currently, tipping fees are budgeted at \$17.3 million for 2017.

The SIT analysis does include some debt service associated with storm sewers, primarily those projects authorized in the 1991 voted bond package, which totaled \$25 million. Based on the current debt service schedules, the SIT supported debt associated with storm sewers will fully mature in 2018. All other debt service for storm sewers is paid from the storm maintenance fund. Debt service that relates to enterprise agencies is primarily paid through user fees.

Income tax growth is the most important determinant of the city's capacity to issue additional debt. The SIT analysis shows the projected debt service requirements from the SIT fund for 2016 to 2025.

Capital projects for enterprise agencies are funded primarily through user fees. The determination of the ability to fund enterprise projects is done at the department level. These debt service projections are included in the individual department pro formas.

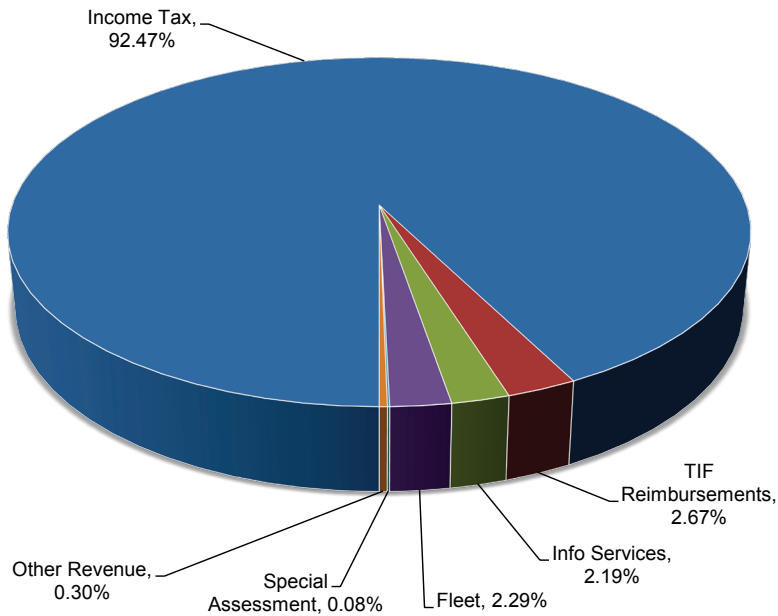


Coverage Factor

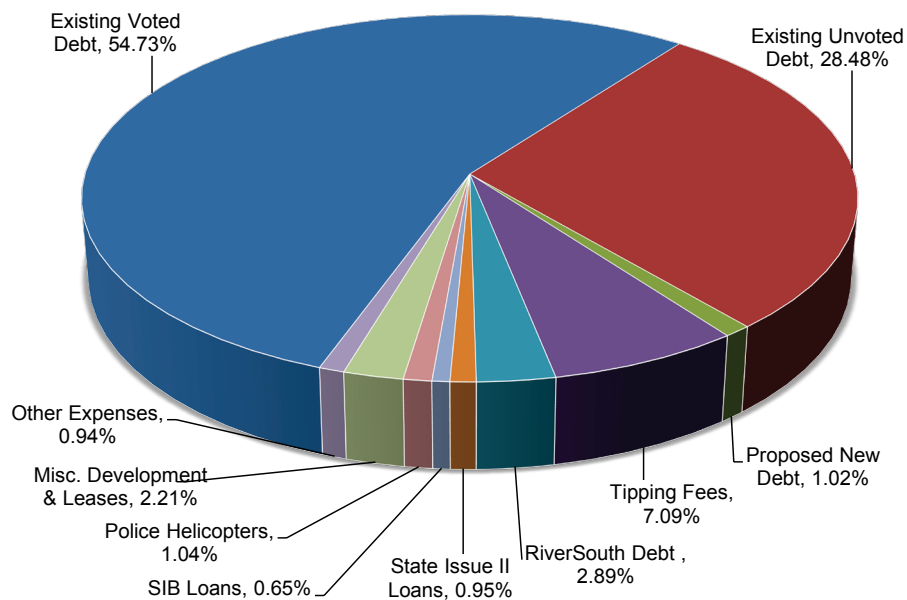
The SIT fund's available capacity for new debt, and its ability to service existing debt, is expressed as its coverage factor. Coverage, depicted within the SIT analysis, is a ratio of revenue to expenditures and provides a minimum level at which a fund balance should be maintained for contingency purposes. Coverage levels are goals, not absolute minimum levels of acceptance. "Current year coverage" shows the degree to which current revenues will meet current expenditures. "Total coverage" is similar, but also includes the prior year-end fund balance as revenue. At present, the targeted level is to maintain 50 percent surplus capacity (a 1.5 total coverage factor). This surplus level means that for every dollar projected to be expended from the SIT, there must be an additional dollar-and-a-half of projected revenue deposited into the SIT.

SPECIAL INCOME TAX ANALYSIS PROPOSED 2017 BUDGET

REVENUES



EXPENDITURES



Debt Limitations and Obligations

The following explanation of “Debt Limitations” has been extracted from the city’s Official Statement dated August 4, 2016.

Direct Debt Limitations

Section 133.05, Ohio Revised Code, provides that the net unvoted general obligation debt of the city, excluding certain “exempt debt,” (as further discussed below) shall never exceed five and one half percent (5.50%) of the total value of all property in the city as listed and assessed for taxation. Section 133.05 further provides that the net general obligation debt of the city, including all voted and unvoted general obligation debt, but excluding exempt debt, shall never exceed ten and one half percent (10.50%) of such total assessed valuation. The two limitations, referred to as the “direct debt limitations” may be amended from time to time by the General Assembly.

Ohio law provides that certain forms of municipal debt are exempt from the direct debt limitations (“exempt debt”). Exempt debt includes, among others, general obligation debt, to the extent that such debt is “self supporting” (that is, revenues from the facilities financed are sufficient to pay applicable operating and maintenance expenses and related debt service and other requirements); bonds issued in anticipation of the collection of special assessments; revenue bonds; unvoted debt to the extent that the authorizing legislation includes covenants to appropriate annually from lawfully available municipal income taxes in amounts necessary to pay debt service charges on the obligations; notes issued in anticipation of the collection of current revenues or in anticipation of the proceeds of a specific tax levy; notes issued for certain emergency purposes; and bonds issued to pay final judgments. Notes issued in anticipation of such bonds are also exempt from the direct debt limitations.

Indirect Debt Limitations; The Ten Mill Tax Limitation

Ohio law requires that general obligation bonded indebtedness cannot be incurred or renewed unless provision is made in the legislation authorizing such debt for the levy of an ad valorem property tax in an amount sufficient to pay the principal of and interest on such indebtedness when due. Ohio law also provides that the aggregate amount of such taxes that can be levied for all purposes without a vote of the electors cannot exceed ten mills per one dollar of assessed valuation.

With respect to unvoted general obligation debt, these two requirements – the requirement that provision be made for the levy of taxes to support such debt and the requirement that the total amount of unvoted property taxes which can be levied cannot exceed ten mills per one dollar of valuation – have been construed by the Ohio Supreme Court to create an indirect debt limitation on the issuance by a political subdivision of unvoted general obligation debt.

The ten mills, which may be levied without a vote of the electors, are allocated among the overlapping political subdivisions of the State pursuant to a statutory formula. This “inside” millage allocated to each political subdivision is required to be used first for the payment of debt service on unvoted general obligation debt of the subdivision, unless provision has been made for payment of the debt from other sources; second for partial police and fire pension requirements; and, the balance for other general fund purposes. To the extent this millage is required for debt service, the amount that would otherwise be available for general fund purposes is reduced.

A subdivision’s allocation of inside millage can be increased by action of the County Budget Commission pursuant to statute only

in the event additional millage is required for the payment of debt service on its unvoted general obligation debt and, in that case, the inside millage allocated to the other overlapping subdivisions would be reduced to bring the aggregate levies of inside millage within the ten mill limitation.

The ten mill limitation applies even if the debt service on tax-supported obligations is expected to be paid from special assessments, utility earnings or other sources. However, revenue bonds and notes, payable solely from specifically pledged revenues, are not included in calculating debt subject to this limitation since neither the general revenue nor the full faith and credit of the issuer is pledged for their payment.

In determining whether or not unvoted general obligation debt to be issued by the city is within the ten mill limitation, it is first necessary to determine how much millage has already been committed for the outstanding unvoted general obligation debt of the city and how much millage has been committed by each overlapping political subdivision for its outstanding unvoted general obligation debt. The amount of such committed millage for each political subdivision is that which will be required for all of such subdivision's outstanding

unvoted general obligation debt for that fiscal year in which the debt service charges of that subdivision for such debt will be the highest. In the case of notes issued in anticipation of bonds, the debt service requirements estimated for the bonds anticipated by the notes are used to calculate the millage required.

The city overlaps several political subdivisions and it is therefore necessary to determine, with respect to each such subdivision, how much millage that subdivision has committed for its outstanding unvoted general obligation debt. The aggregate millage that has been committed by that combination of overlapping subdivisions that yields the highest total of committed millage thus determines the millage within the ten mill limitation which is available and can be committed to service additional unvoted general obligation debt.

Such determinations are made by the County Auditor who has certified to the city that there is sufficient uncommitted millage within the ten mill limitation to service the city's unvoted general obligation debt. The following table represents the estimated inside millage for the city and its overlapping subdivisions as of August 4, 2016.

Political Subdivision of State of Ohio	Mills Required		
	Franklin County	Fairfield County	Delaware County
Direct			
City of Columbus	5.7952	5.7952	5.7952
Overlapping			
County	0.9174	1.7915	0.5129
School District	0.4404	--	--
Joint Vocational School District	--	0.0521	--
Solid Waste Authority of Central Ohio	0.4099	0.4125	0.4124
Township	2.1701	--	--
Total Millage Required	9.7330	8.0513	6.7205
Maximum Millage Permitted	10.0000	10.0000	10.0000
Remaining Millage Capacity	0.2670	1.9487	3.2795

Debt Service Payments

During fiscal year 2016, the city will have retired approximately \$240.2 million in principal of general obligation debt and issued an additional \$481.4 million in general obligation bonds and notes. Along with new debt, the city refunds existing debt to try and achieve the maximum amount of savings possible. As of October 16, 2016, beginning with fiscal year 2017, approximately 65.9% of the principal payments on the city's outstanding general obligation and revenue bonds will fully mature within the next 10 years. The table below demonstrates the debt service schedule for existing general obligation bonds and revenue bonds.

EXISTING DEBT SERVICE GENERAL OBLIGATION AND REVENUE BONDS			
<u>Period Ending</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2017	\$ 234,160,176	\$ 126,556,328	\$ 360,716,504
2018	247,045,825	116,713,437	363,759,262
2019	229,237,821	106,986,740	336,224,561
2020	218,507,821	98,203,876	316,711,697
2021	209,002,820	90,060,748	299,063,568
2022	199,707,820	81,265,218	280,973,038
2023	189,600,000	73,180,815	262,780,815
2024	188,495,000	64,710,745	253,205,745
2025	194,855,000	56,414,066	251,269,066
2026	169,930,000	48,032,371	217,962,371
2027	156,385,000	40,301,943	196,686,943
2028	167,680,000	33,147,036	200,827,036
2029	172,435,000	25,811,453	198,246,453
2030	163,480,000	18,891,078	182,371,078
2031	154,185,000	12,171,143	166,356,143
2032	133,990,000	7,069,353	141,059,353
2033	47,755,000	4,145,153	51,900,153
2034	27,425,000	2,658,966	30,083,966
2035	23,110,000	1,669,225	24,779,225
2036	18,475,000	951,875	19,426,875
2037	11,435,000	343,050	11,778,050
Total	<u>\$ 3,156,897,283</u>	<u>\$ 1,009,284,619</u>	<u>\$ 4,166,181,902</u>
Note: Interest payments associated with variable rate debt are not included.			

Of the existing outstanding debt service, the funding breakdown over the next five years is listed below. These amounts include both principal and interest payments.

DEBT SERVICE BY FUND						
GENERAL OBLIGATION AND REVENUE BONDS						
Non-Enterprise Funds	2017	2018	2019	2020	2021	Total
SIT Fund Supported	191,085,958	190,241,337	175,983,835	167,006,883	156,549,909	880,867,922
Non-Enterprise Sub Total	\$ 191,085,958	\$ 190,241,337	\$ 175,983,835	\$ 167,006,883	\$ 156,549,909	\$ 880,867,922
Enterprise Funds						
Water	78,020,427	76,757,042	70,065,008	65,123,076	61,445,651	351,411,204
Sanitary Sewer	63,479,326	69,449,822	65,494,256	62,596,846	61,446,017	322,466,267
Storm	14,634,461	14,667,176	13,824,471	12,638,038	11,401,762	67,165,908
Electricity	1,588,144	1,053,775	582,275	561,525	544,275	4,329,994
Enterprise Sub Total	\$ 157,722,358	\$ 161,927,815	\$ 149,966,010	\$ 140,919,485	\$ 134,837,705	\$ 745,373,373
Internal Service Funds						
Fleet Management	5,483,674	5,458,598	5,281,497	4,569,915	4,355,775	25,149,459
Information Services	6,424,514	6,131,512	4,993,219	4,215,414	3,320,179	25,084,838
Internal Service Sub Total	\$ 11,908,188	\$ 11,590,110	\$ 10,274,716	\$ 8,785,329	\$ 7,675,954	\$ 50,234,297
Total	\$ 360,716,504	\$ 363,759,262	\$ 336,224,561	\$ 316,711,697	\$ 299,063,568	\$ 1,676,475,592

Note: Interest payments associated with variable rate debt are not included.

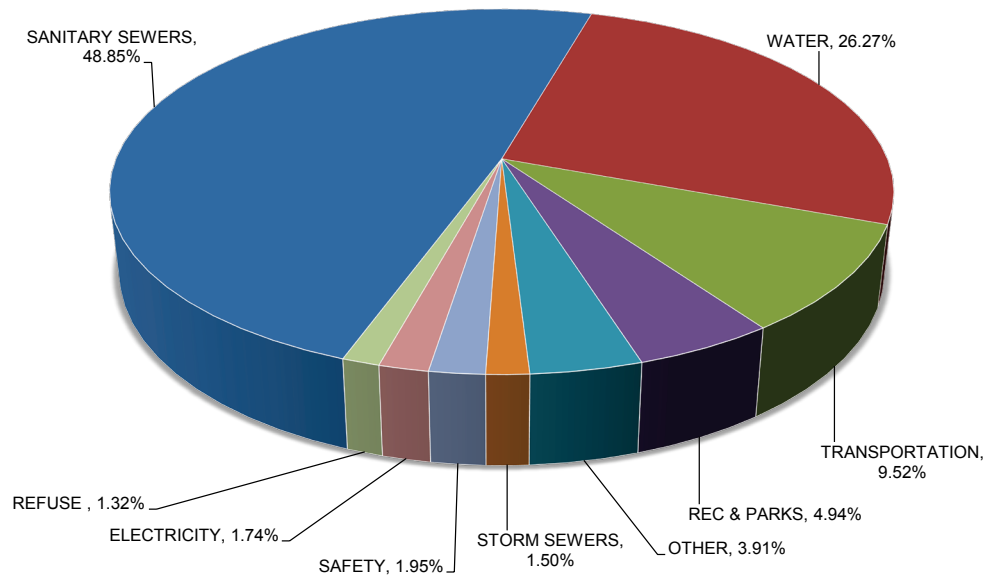
The Proposed 2017-2022 Capital Improvement Program

The proposed Capital Improvement Program provides approximately \$2.77 billion in funding for various capital improvements for the period of 2017-2022. Of this amount, \$567.36 million is to be supported by the SIT while \$2.17 billion will be supported by the enterprise agencies of the city. The proposed 2017-2022 CIP represents a slight 0.2% decrease over the adopted 2016-2021 CIP. The proposed 2017 CIB totals approximately \$473.88 million.

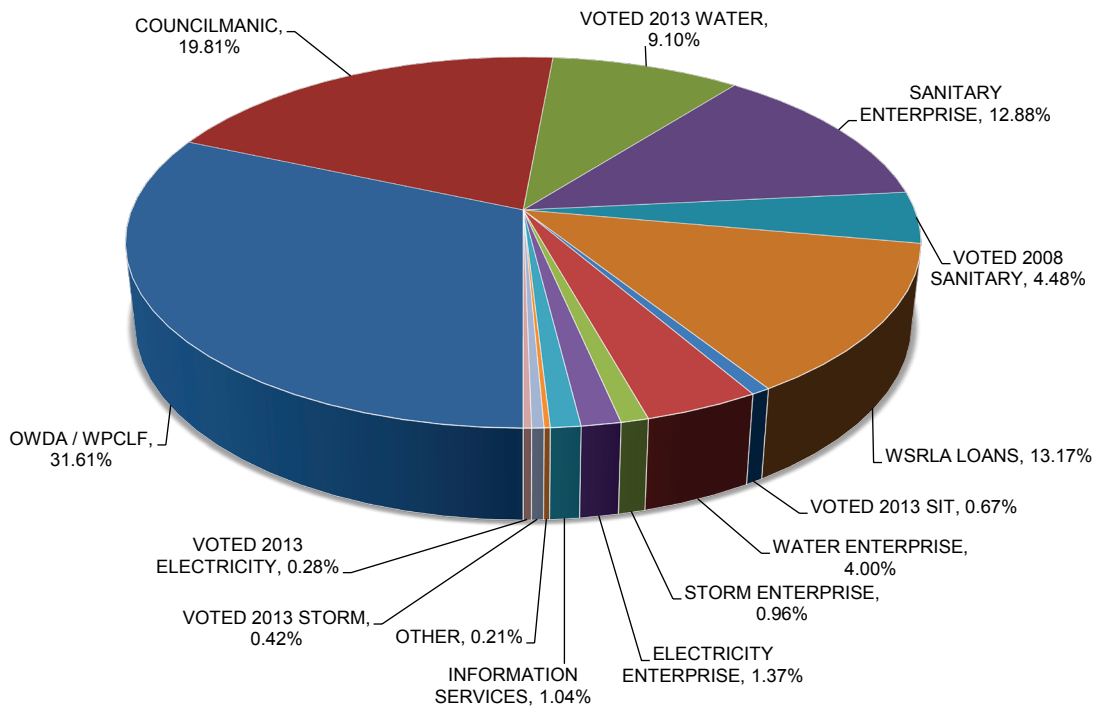
The administration intends to continue to review the proposed CIP through the end of the year. It is possible that adjustments to the proposed plan could occur to accommodate changes in priorities and financial assumptions. Based on the results of the November 8, 2016 election, the funding sources listed in the proposed 2017-2022 CIP on the following pages are subject to change.

PROPOSED 2017-2022 CAPITAL IMPROVEMENTS PROGRAM

PERCENT BY DIVISION



PERCENT BY FUNDING SOURCE



Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
PUBLIC SAFETY								
POLICE 30- 03								
30-03 Police Facility Renovation	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	10,080,000	Councilmanic SIT Supported
Subtotal - POLICE 30-03	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 10,080,000	
FIRE 30-04								
Fire Facility Renovation	1,320,000	1,320,000	1,320,000	1,320,000	1,320,000	1,320,000	7,920,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Medics	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Platform Ladders	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Engines	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	Councilmanic SIT Supported
Subtotal - FIRE 30-04	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 43,920,000	
DEVELOPMENT								
ADMINISTRATION 44-01								
Green Columbus Fund	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	Councilmanic SIT Supported
Economic & Community Development	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	Councilmanic SIT Supported
44-10 Housing Preservation	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	Councilmanic SIT Supported
44-10 Emergency Shelter Repair	350,000	350,000	350,000	350,000	350,000	350,000	2,100,000	Councilmanic SIT Supported
Subtotal - ADMINISTRATION 44-01	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 21,600,000	
FINANCE AND MANAGEMENT								
CONSTRUCTION MANAGEMENT 45-27								
Facility Renovations - Project cost Allocation	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	Councilmanic SIT Supported
Facility Renovations - Various	1,248,000	2,748,000	2,748,000	2,748,000	2,748,000	2,748,000	14,988,000	Councilmanic SIT Supported
Construction Management - Design Services	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	Councilmanic SIT Supported
Construction Management - Project Management	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	Councilmanic SIT Supported
City Hall Renovations - Various	542,000	2,642,000	2,642,000	2,642,000	2,642,000	2,642,000	13,752,000	Councilmanic SIT Supported
Municipal Court - Phased Renovations	2,300,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	13,300,000	Councilmanic SIT Supported
CSB Elevator Modernization	2,000,000	-	-	-	-	-	2,000,000	Councilmanic SIT Supported
77 North Front St Renovations	500,000	-	-	-	-	-	500,000	Councilmanic SIT Supported
1111 E. Broad Street Renovations	500,000	-	-	-	-	-	500,000	Councilmanic SIT Supported
1111 E. Broad Street Renovations - Elevator Modernization	500,000	-	-	-	-	-	500,000	Councilmanic SIT Supported
Subtotal - CONSTRUCTION MANAGEMENT 45-27	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 52,140,000	
FLEET MANAGEMENT 45- 05								
Fleet Automated Fuel Location Upgrades	-	100,000	100,000	100,000	100,000	100,000	500,000	Fleet Management (Unvoted)
Fleet Equipment Replacement	100,000	100,000	100,000	100,000	100,000	100,000	600,000	Fleet Management (Unvoted)
Fuel Tank Management	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	Fleet Management (Unvoted)
Fleet Smart Cities Infrastructure	1,000,000	-	-	-	-	-	1,000,000	Fleet Management (Unvoted)
Subtotal - FLEET MANAGEMENT 45-05	\$ 1,700,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 5,700,000	
TECHNOLOGY								
DOT ADMINISTRATION 47- 01								
47-02 Data Center Facility Upgrades	200,000	-	100,000	200,000	1,200,000	100,000	1,800,000	Information Services
City Hall Data Center Facility Upgrades	-	30,000	30,000	-	30,000	40,000	130,000	Information Services
47-02 Disaster Recovery Project	100,000	-	100,000	-	325,000	100,000	625,000	Information Services
47-02 Connectivity Project Fiber/Wireless	750,000	750,000	1,250,000	1,250,000	1,250,000	1,250,000	6,500,000	Information Services
47-02 CTSS Fiber Purchase B,C,D	-	800,000	-	800,000	-	1,000,000	2,600,000	Information Services
Routing Equipment Upgrade	300,000	300,000	300,000	300,000	300,000	500,000	2,000,000	Information Services
Uninterruptable Power Supply (UPS)	90,000	50,000	50,000	50,000	50,000	50,000	340,000	Information Services
Wireless LAN	80,000	80,000	80,000	50,000	50,000	80,000	420,000	Information Services
47-02 Enterprise System Upgrades	375,000	1,700,000	425,000	400,000	375,000	1,000,000	4,275,000	Information Services
Enterprise System Upgrades - Security Program	250,000	190,000	290,000	200,000	200,000	100,000	1,230,000	Information Services
Asset Management	190,000	190,000	100,000	200,000	200,000	-	880,000	Information Services

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Enterprise System Upgrades - GIS	50,000	50,000	250,000	200,000	70,000	70,000	690,000	Information Services
Enterprise System Upgrades - Applications	150,000	150,000	150,000	150,000	-	150,000	750,000	Information Services
E-Gov Initiatives	-	270,000	100,000	450,000	-	250,000	1,070,000	Information Services
E-Gov Initiatives - Mobile Application	-	-	150,000	250,000	-	250,000	650,000	Information Services
E-Gov Initiatives - SharePoint	100,000	100,000	100,000	100,000	-	150,000	550,000	Information Services
CS Telephony Upgrade - VOIP	370,000	875,000	340,000	325,000	200,000	200,000	2,310,000	Information Services
IVR Telephony Enhancements-Upgrades	40,000	40,000	100,000	100,000	100,000	100,000	480,000	Information Services
Media Services - Control Room Equipment	-	-	-	-	-	150,000	150,000	Information Services
Media Services - Studio Equipment	-	-	150,000	-	-	-	150,000	Information Services
Media Services - Field Camera System	-	-	50,000	25,000	-	-	75,000	Information Services
Media Services - NLE Editor Purchases	-	-	-	25,000	-	-	25,000	Information Services
Unified Communications	600,000	150,000	-	150,000	-	200,000	1,100,000	Information Services
Subtotal - DOT ADMINISTRATION 47- 01	\$ 3,645,000	\$ 5,725,000	\$ 4,115,000	\$ 5,225,000	\$ 4,350,000	\$ 5,740,000	\$ 28,800,000	
RECREATION AND PARKS								
RECREATION AND PARKS 51- 01								
51 Urban Infra.- Rec & Parks	-	753,200	753,200	753,200	753,200	753,200	3,766,000	Councilmanic SIT Supported
51 Urban Infra.- Rec & Parks	753,200	-	-	-	-	-	753,200	Voted 2013 Debt SIT Supported
51-01 Swimming Facilities	-	2,318,000	2,318,000	2,318,000	2,318,000	2,318,000	11,590,000	Councilmanic SIT Supported
51-01 Swimming Facilities	2,318,000	-	-	-	-	-	2,318,000	Voted 2013 Debt SIT Supported
51-01 Park & Playground Development	-	856,000	856,000	856,000	856,000	856,000	4,280,000	Councilmanic SIT Supported
51-01 Park & Playground Development	856,000	-	-	-	-	-	856,000	Voted 2013 Debt SIT Supported
Park and Playgrounds - Misc.	-	200,000	200,000	200,000	200,000	200,000	1,000,000	Councilmanic SIT Supported
Park and Playgrounds - Misc.	200,000	-	-	-	-	-	200,000	Voted 2013 Debt SIT Supported
Hard Surface Improvements: Yearly Improvements	-	800,000	800,000	800,000	800,000	800,000	4,000,000	Councilmanic SIT Supported
Hard Surface Improvements: Yearly Improvements	800,000	-	-	-	-	-	800,000	Voted 2013 Debt SIT Supported
Park & Playground - Project Cost Allocation	-	225,000	225,000	225,000	225,000	225,000	1,125,000	Councilmanic SIT Supported
Park & Playground - Project Cost Allocation	225,000	-	-	-	-	-	225,000	Voted 2013 Debt SIT Supported
51-01 Facility Renovations	-	6,085,000	6,085,000	6,085,000	6,085,000	6,085,000	30,425,000	Councilmanic SIT Supported
51-01 Facility Renovations	1,585,000	-	-	-	-	-	1,585,000	Voted 2013 Debt SIT Supported
Facility Imps - Contingencies	-	340,000	340,000	340,000	340,000	340,000	1,700,000	Councilmanic SIT Supported
Facility Imps - Contingencies	340,000	-	-	-	-	-	340,000	Voted 2013 Debt SIT Supported
HVAC Improvements: various facilities	-	3,150,000	3,150,000	3,150,000	3,150,000	3,150,000	15,750,000	Councilmanic SIT Supported
HVAC Improvements: various facilities	3,150,000	-	-	-	-	-	3,150,000	Voted 2013 Debt SIT Supported
Facility Improvements - Project Cost Allocation	-	225,000	225,000	225,000	225,000	225,000	1,125,000	Councilmanic SIT Supported
Facility Improvements - Project Cost Allocation	225,000	-	-	-	-	-	225,000	Voted 2013 Debt SIT Supported
Facility: Roof Improvements Various	-	800,000	800,000	800,000	800,000	800,000	4,000,000	Councilmanic SIT Supported
Facility: Roof Improvements Various	800,000	-	-	-	-	-	800,000	Voted 2013 Debt SIT Supported
Street Trees: Green Initiative	-	400,000	400,000	400,000	400,000	400,000	2,000,000	Councilmanic SIT Supported
Street Trees: Green Initiative	400,000	-	-	-	-	-	400,000	Voted 2013 Debt SIT Supported
Maintenance Equipment-Parks	-	250,000	250,000	250,000	250,000	250,000	1,250,000	Councilmanic SIT Supported
Maintenance Equipment-Parks	250,000	-	-	-	-	-	250,000	Voted 2013 Debt SIT Supported
Maintenance Equipment-Sports	-	50,000	50,000	50,000	50,000	50,000	250,000	Councilmanic SIT Supported
Maintenance Equipment-Sports	50,000	-	-	-	-	-	50,000	Voted 2013 Debt SIT Supported
51-01 Park Acquisition	-	774,000	774,000	774,000	774,000	774,000	3,870,000	Councilmanic SIT Supported
51-01 Park Acquisition	774,000	-	-	-	-	-	774,000	Voted 2013 Debt SIT Supported
Central Maintenance Zone Headquarters	3,055,000	-	-	-	-	-	3,055,000	Councilmanic SIT Supported
Central Maintenance Zone Headquarters	1,445,000	-	-	-	-	-	1,445,000	Voted 2013 Debt SIT Supported
Bikeway Trail Safety - General	-	433,800	433,800	433,800	433,800	433,800	2,169,000	Councilmanic SIT Supported
Bikeway Trail Safety - General	433,800	-	-	-	-	-	433,800	Voted 2013 Debt SIT Supported
51-01 Greenways Projects	-	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000	Councilmanic SIT Supported
51-01 Greenways Projects	3,000,000	-	-	-	-	-	3,000,000	Voted 2013 Debt SIT Supported
Watercourse Bike Path Development & Connection Improvements	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	Councilmanic SIT Supported
Watercourse Bike Path Development & Connection Improvements	1,000,000	-	-	-	-	-	1,000,000	Voted 2013 Debt SIT Supported

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
51-01 Safe Playgrounds	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	Councilmanic SIT Supported
Golf: Equipment Replacements	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	Councilmanic SIT Supported
Golf: Hard Surface Improvements	70,000	70,000	70,000	70,000	70,000	70,000	420,000	Councilmanic SIT Supported
Golf Improvements - Miscellaneous	50,000	50,000	50,000	50,000	50,000	50,000	300,000	Councilmanic SIT Supported
Golf Improvements: General Golf Facility Improvements	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	Councilmanic SIT Supported
Subtotal - RECREATION AND PARKS 51- 01	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 136,680,000	
Public Service								
TRANSPORTATION 59-12								
UIRF - Urban Infrastructure Recovery Fund (59-12)	5,651,813	5,651,813	5,651,813	5,651,813	5,651,813	5,651,813	33,910,878	Councilmanic SIT Supported
Street Equipment - Traffic Management	428,397	428,397	428,397	428,397	428,397	428,397	2,570,382	Councilmanic SIT Supported
Street Equipment - Infrastructure Management	428,397	428,397	428,397	428,397	428,397	428,397	2,570,382	Councilmanic SIT Supported
NCR-TBD	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	15,000,000	Councilmanic SIT Supported
Alley Rehabilitation - Misc.	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	Councilmanic SIT Supported
Roadway Improvements - SCMRP reimbursements	2,550,000	2,550,000	2,550,000	2,550,000	2,550,000	2,550,000	15,300,000	Councilmanic SIT Supported
Roadway Improvements - Utility Relocation Reimbursements	100,000	100,000	100,000	100,000	100,000	100,000	600,000	Councilmanic SIT Supported
Roadway Improvements - Miscellaneous Construction Inspection	100,000	100,000	100,000	100,000	100,000	100,000	600,000	Councilmanic SIT Supported
Roadway Improvements - Miscellaneous Right of Way Acquisition	100,000	100,000	100,000	100,000	100,000	100,000	600,000	Councilmanic SIT Supported
Curb Reconstruction - Qwik Curb Commodity	50,000	50,000	50,000	50,000	50,000	50,000	300,000	Councilmanic SIT Supported
Resurfacing - Pavement Management Services	-	-	1,000,000	-	-	-	1,000,000	Councilmanic SIT Supported
Resurfacing - Resurfacing Projects	15,101,000	14,298,800	15,500,000	16,500,000	16,500,000	16,500,000	94,399,800	Councilmanic SIT Supported
Resurfacing - Urban Paving - SR33 Dublin Rd/Spring Street (PID 86651)	440,000	-	-	-	-	-	440,000	Councilmanic SIT Supported
Resurfacing - Preventive Surface Treatments - Crack Seal	750,000	750,000	750,000	750,000	750,000	750,000	4,500,000	Councilmanic SIT Supported
Resurfacing - Preventive Surface Treatments - Slurry Seal	750,000	1,000,000	1,250,000	1,250,000	1,250,000	1,250,000	6,750,000	Councilmanic SIT Supported
Resurfacing - Urban Paving - SR315 (PID 76420)	350,000	-	-	-	-	-	350,000	Councilmanic SIT Supported
Resurfacing - West Broad Street Urban Paving (PID 86645)	643,000	-	-	-	-	-	643,000	Councilmanic SIT Supported
Resurfacing - Urban Paving US 33 - Livingston Ave and Third Street (PID 86652)	-	625,000	-	-	-	-	625,000	Councilmanic SIT Supported
Resurfacing - Urban Paving SR317 Hamilton Rd-PID91490	-	926,200	-	-	-	-	926,200	Councilmanic SIT Supported
Resurfacing - Urban Paving US33 Riverside Drive-PID93136	66,000	-	-	-	-	-	66,000	Councilmanic SIT Supported
Resurfacing - Resurfacing Coordination with future DPU projects	400,000	900,000	-	-	-	-	1,300,000	Councilmanic SIT Supported
Bridge Rehabilitation	55,000	-	-	-	-	3,371,393	3,426,393	Councilmanic SIT Supported
Bridge Rehabilitation - Godown Road Bridge	500,000	-	-	-	-	-	500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Broad Street Bridge Lighting	220,000	-	-	-	-	-	220,000	Councilmanic SIT Supported
Bridge Rehabilitation - Annual Citywide Contract	1,846,393	921,393	1,771,393	871,393	871,393	-	6,281,965	Councilmanic SIT Supported
Bridge Rehabilitation - General Engineering	-	300,000	-	200,000	-	-	500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Second Avenue RR Bridge Replacement	-	-	-	-	1,000,000	-	1,000,000	Councilmanic SIT Supported
Bridge Rehabilitation - 5th Avenue under Conrail and Norfolk Southern RR	750,000	-	-	-	-	-	750,000	Councilmanic SIT Supported
Bridge Rehabilitation - Front Street over Railroad South of Nationwide	-	-	-	-	1,000,000	-	1,000,000	Councilmanic SIT Supported
Bridge Rehabilitation - Joyce Avenue Bridge Rehabilitation	-	-	-	800,000	-	-	800,000	Councilmanic SIT Supported
Bridge Rehabilitation - Sixpoint Court Over Stream West of I-71 South of Park	-	450,000	-	-	-	-	450,000	Councilmanic SIT Supported
Bridge Rehabilitation - Cleveland Avenue Culvert Lining	-	400,000	-	-	-	-	400,000	Councilmanic SIT Supported
Bridge Rehabilitation - Independence Village Culvert Replacements	-	500,000	-	-	-	-	500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Roberts Road over Conrail	-	-	-	1,500,000	-	-	1,500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Overbrook Drive over Adena Brook #3 East of High Street	-	-	500,000	-	-	-	500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Calumet over Walhalla	-	-	-	-	500,000	-	500,000	Councilmanic SIT Supported
Bridge Rehabilitation - Abbeyfield Drive Culvert Replacement	-	-	300,000	-	-	-	300,000	Councilmanic SIT Supported
Bridge Rehabilitation - Brentnell Boulevard Over Ditch	-	-	800,000	-	-	-	800,000	Councilmanic SIT Supported
Bridge Rehabilitation - Lehman Road	-	800,000	-	-	-	-	800,000	Councilmanic SIT Supported
Housing Initiatives - Roadway	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000	Councilmanic SIT Supported
Bikeway Development	-	-	800,000	-	-	-	800,000	Councilmanic SIT Supported
Bikeway Development - Olentangy River Road Shared Use Path - Kinnear to Lane	523,535	-	-	-	-	-	523,535	Councilmanic SIT Supported
Bikeway Development - Cleveland Avenue Shared Use Path - Community Park Drive to Interstate 270	121,000	-	-	-	-	-	121,000	Councilmanic SIT Supported

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Bikeway Development - Bikeway Resurfacing Contributions	54,745	100,000	180,000	300,000	300,000	300,000	1,234,745	Councilmanic SIT Supported
Bikeway Development - Audubon-Woodward Connector	-	300,000	20,000	1,500,000	-	-	1,820,000	Councilmanic SIT Supported
Bikeway Development - Britton Parkway Shared Use Path	-	-	-	200,000	25,000	850,000	1,075,000	Councilmanic SIT Supported
Bikeway Development - CORR Rd Lockbourne Rd Bike Lanes	-	-	-	-	250,000	850,000	1,100,000	Councilmanic SIT Supported
Bikeway Development - Georgesville Road SUP	-	100,000	500,000	-	-	-	600,000	Councilmanic SIT Supported
Bikeway Development - Morse Rd at Big Walnut Trail Connector	-	25,000	-	-	-	-	25,000	Councilmanic SIT Supported
Bikeway Development - Morse Road Bike Lanes	-	200,000	-	-	-	-	200,000	Councilmanic SIT Supported
Bikeway Development - Norton Road Shared Use Path	130,000	655,000	-	-	-	-	785,000	Councilmanic SIT Supported
Bikeway Development - Olentangy River Rd SUP-N Broadway to Garrett	-	220,000	-	-	800,000	-	1,020,000	Councilmanic SIT Supported
Bikeway Development - South Linden Area Bikeways	-	300,000	-	-	-	-	300,000	Councilmanic SIT Supported
Bikeway Development - Weinland-Shepard Connector	-	100,000	500,000	-	-	-	600,000	Councilmanic SIT Supported
Bikeway Development - Williams Road Paved Shoulders	-	-	-	-	625,000	-	625,000	Councilmanic SIT Supported
School Flashers - 20 MPH - Commodities	50,000	50,000	50,000	50,000	50,000	50,000	300,000	Councilmanic SIT Supported
Traffic Signal Installation - Commodities	950,000	950,000	950,000	950,000	950,000	950,000	5,700,000	Councilmanic SIT Supported
Sign Upgrading/Streetname Signs - Commodities	325,000	325,000	325,000	325,000	325,000	325,000	1,950,000	Councilmanic SIT Supported
Permanent Pavement Markings	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Sidewalk Program	-	627,600	2,448,099	3,250,000	2,850,000	3,300,000	12,475,699	Councilmanic SIT Supported
Pedestrian Safety Improvements - Waggoner Road Shared Use Path-Broad Street to Chapel Stone Road	1,170,720	-	-	-	-	-	1,170,720	Councilmanic SIT Supported
Pedestrian Safety Improvement - Mound Street Sidewalks - Binns Boulevard to Wayne Avenue	1,420,000	-	-	-	-	-	1,420,000	Councilmanic SIT Supported
Pedestrian Safety Improvement - Sidewalk Replacement	559,400	600,000	400,000	400,000	400,000	400,000	2,759,400	Councilmanic SIT Supported
Pedestrian Safety Improvement - Eakin Road Sidewalks - Salisbury to Hague	860,000	-	-	-	-	-	860,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Sidewalk NOV	600,000	600,000	300,000	300,000	300,000	300,000	2,400,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Refugee Road - Winchester Pike to Hamilton Road	160,000	-	851,901	-	-	-	1,011,901	Councilmanic SIT Supported
Pedestrian Safety Improvements - SRTS Sidewalks-McGuffey and Duxberry	-	50,000	-	-	-	-	50,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Third Avenue Sidewalks	150,000	-	-	50,000	450,000	-	650,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Worthington Woods Blvd Sidewalks	250,600	1,002,400	-	-	-	-	1,253,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Stormwater Detention	-	750,000	-	-	-	-	750,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Binns Burroughs SRTS (HCMP)	-	370,000	-	-	-	-	370,000	Councilmanic SIT Supported
Subtotal - PUBLIC SERVICE/12 - TRANSPORTATION 59-12	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 263,430,000	
REFUSE COLLECTION 59- 02								
Mechanized Collection Equipment - 96-Gallon Containers	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	Councilmanic SIT Supported
Mechanized Collection Equipment - 300 Gallon Containers	725,000	755,000	725,000	725,000	725,000	725,000	4,380,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Automated Side Loader Trucks	3,000,000	3,000,000	2,500,000	3,000,000	3,000,000	3,000,000	17,500,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Front-Box Loader Trucks	900,000	-	1,380,000	900,000	900,000	900,000	4,980,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Rear Loading Packer Trucks	-	1,000,000	-	-	-	-	1,000,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Semi-Automated Trucks	550,000	-	600,000	550,000	550,000	550,000	2,800,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Flatbed Trucks	230,000	-	-	230,000	230,000	230,000	920,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Compactor Trucks	250,000	-	450,000	250,000	250,000	250,000	1,450,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Knuckle Boom Trucks	-	1,000,000	-	-	-	-	1,000,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Dumpsters	25,000	25,000	25,000	25,000	25,000	25,000	150,000	Councilmanic SIT Supported
Alum Creek Remediation - Facility Improvements	100,000	-	100,000	100,000	100,000	100,000	500,000	Councilmanic SIT Supported
Subtotal - PUBLIC SERVICE/REFUSE COLLECTION 59- 02	\$ 6,080,000	\$ 6,080,000	\$ 6,080,000	\$ 6,080,000	\$ 6,080,000	\$ 6,080,000	\$ 36,480,000	
Public Utilities								
STORM SEWER 60-15								
Livingston Ave Storm Sewer Replacement	-	5,200,000	-	-	-	-	5,200,000	Storm Sewer Enterprise (Unvoted)
Storm Sewer Large Diameter Condition Assessment Phase 1	-	-	1,500,000	-	-	-	1,500,000	Storm Sewer Enterprise (Unvoted)
60-15 Petzinger Rd Stormwater Imps	1,250,000	-	-	-	-	-	1,250,000	Voted 2013 Debt - Storm
General Engineering Svcs - Storm	-	200,000	200,000	200,000	-	2,000,000	2,600,000	Storm Sewer Enterprise (Unvoted)
General Engineering Svcs - Storm	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Storm
60-15 Linworth Rd/Meeklyn Dr Storm Sewer	500,000	500,000	-	-	-	-	1,000,000	Storm Sewer Enterprise (Unvoted)

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Lehnert Farms/Bolton Field Stormwater System Improvements	1,000,000	-	-	-	-	-	1,000,000	Voted 2013 Debt - Storm
Woodward Avenue Detention Basin Modifications	650,000	-	-	-	-	-	650,000	WPCLF/OWDA
Summit View Detention Basin Modifications	650,000	-	-	-	-	-	650,000	Voted 2013 Debt - Storm
Detention Basin Modifications III	-	350,000	-	-	-	-	350,000	Storm Sewer Enterprise (Unvoted)
Detention Basin Modifications IV	-	-	350,000	-	-	-	350,000	Storm Sewer Enterprise (Unvoted)
Detention Basin Modifications IV	100,000	-	-	-	-	-	100,000	Voted 2013 Debt - Storm
Detention Basin Modifications V	-	100,000	-	350,000	-	-	450,000	Storm Sewer Enterprise (Unvoted)
Detention Basin Modifications VI	-	-	100,000	-	350,000	-	450,000	Storm Sewer Enterprise (Unvoted)
Olde Beechwood Area Stormwater System Improvements	-	50,000	-	-	-	-	50,000	Storm Sewer Enterprise (Unvoted)
Olde Beechwood Area Stormwater System Improvements	250,000	-	-	-	-	-	250,000	Voted 2013 Debt - Storm
Olde Beechwood Area Stormwater System Improvements	-	2,500,000	-	-	-	-	2,500,000	WPCLF/OWDA
60-15 Storm Sewer Contingencies	-	2,000,000	1,500,000	1,500,000	-	-	5,000,000	Storm Sewer Enterprise (Unvoted)
60-15 Storm Sewer Contingencies	1,700,000	-	-	-	-	-	1,700,000	Voted 2013 Debt - Storm
Storm Sewer Contingencies-Joint Projects with DPS	1,000,000	1,000,000	1,000,000	1,000,000	-	-	4,000,000	Storm Sewer Enterprise (Unvoted)
Woodward, Wildwood, and Woodnell Avenue Storm System	2,750,000	-	-	-	-	-	2,750,000	Voted 2013 Debt - Storm
Joyce Avenue Improvements	7,145	-	-	-	-	-	7,145	Storm Sewer Enterprise (Unvoted)
Joyce Avenue Improvements	800,000	-	-	-	-	-	800,000	Voted 2013 Debt - Storm
Stormwater Master Plan	1,000,000	-	-	-	-	-	1,000,000	Voted 2013 Debt - Storm
Holton Park and Eureka Avenue Green Infrastructure Improvements	350,000	-	-	-	-	-	350,000	WPCLF/OWDA
ST-21, ST-22, ST-23 Improvements	-	-	50,000	-	2,000,000	-	2,050,000	Storm Sewer Enterprise (Unvoted)
ST-21, ST-22, ST-23 Improvements	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Storm
Stormwater Strategic Plan, Phase 2	-	150,000	100,000	-	-	-	250,000	Storm Sewer Enterprise (Unvoted)
Stormwater Strategic Plan, Phase 2	250,000	-	-	-	-	-	250,000	Voted 2013 Debt - Storm
Central Avenue Underpass Stormwater System Improvements	-	-	-	300,000	-	-	300,000	Storm Sewer Enterprise (Unvoted)
Central Avenue Underpass Stormwater System Improvements	80,000	-	-	-	-	-	80,000	Voted 2013 Debt - Storm
Windsor Ave Stormwater System Improvements	-	912,500	-	-	-	-	912,500	Storm Sewer Enterprise (Unvoted)
Windsor Ave Stormwater System Improvements	100,000	-	-	-	-	-	100,000	Voted 2013 Debt - Storm
SMOC SCADA Modernization at Remote Stormwater Facilities	-	2,000,000	-	-	-	-	2,000,000	Storm Sewer Enterprise (Unvoted)
SMOC SCADA Modernization at Remote Stormwater Facilities	950,000	-	-	-	-	-	950,000	Voted 2013 Debt - Storm
Subtotal - PUBLIC UTILITIES/STORM SEWER 60-15	\$ 14,087,145	\$ 14,962,500	\$ 4,800,000	\$ 3,350,000	\$ 2,350,000	\$ 2,000,000	\$ 41,549,645	
PUBLIC UTILITIES/SANITARY SEWERS 60- 05								
Poindexter Village Phase II	1,000,000	-	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
Public Information Outreach	-	-	100,000	100,000	100,000	100,000	400,000	Sanitary Sewer Enterprise (Unvoted)
Public Information Outreach	100,000	100,000	-	-	-	-	200,000	Voted 2008 Debt-Sanitary Sewer
Blueprint 4 Pillars Video Project	1,000,000	500,000	-	-	-	-	1,500,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Columbus Public Information Outreach	1,000,000	500,000	-	-	-	-	1,500,000	Voted 2008 Debt-Sanitary Sewer
Real Time Control - TBD	-	-	-	-	1,000,000	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
Real Time Control - Alum Creek Storm Tanks	-	-	-	1,000,000	-	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
Real Time Control - Alum Creek Storm Tanks	50,000	-	-	-	-	-	50,000	Voted 2008 Debt-Sanitary Sewer
Real Time Control - Sewer System Optimization	-	-	500,000	-	-	-	500,000	Sanitary Sewer Enterprise (Unvoted)
Real Time Control - Sewer System Optimization	500,000	500,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
DOSD Security & Emergency Preparedness	-	-	100,000	100,000	-	-	200,000	Sanitary Sewer Enterprise (Unvoted)
DOSD Security & Emergency Preparedness	100,000	100,000	-	-	-	-	200,000	Voted 2008 Debt-Sanitary Sewer
SSSES Overall Engineering Consultant (OEC) Services	-	-	300,000	300,000	300,000	300,000	1,200,000	Sanitary Sewer Enterprise (Unvoted)
SSSES Overall Engineering Consultant (OEC) Services	300,000	300,000	-	-	-	-	600,000	Voted 2008 Debt-Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	-	-	-	6,000,000	1,000,000	-	7,000,000	Sanitary Sewer Enterprise (Unvoted)
Big Walnut Sanitary Trunk Extension, Phase 2	-	1,000,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	-	-	-	68,200,000	-	-	68,200,000	WPCLF/OWDA
Central College Subtrunk Extension Phase 3	-	-	3,000,000	-	-	-	3,000,000	Sanitary Sewer Enterprise (Unvoted)
Central College Subtrunk Extension Phase 3	350,000	-	-	-	-	-	350,000	Voted 2008 Debt-Sanitary Sewer
Central College Subtrunk Extension Phase 3	-	-	25,000,000	-	-	-	25,000,000	WPCLF/OWDA

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
60-05 Blacklick Creek Interceptor	1,000,000	1,000,000	-	-	-	-	2,000,000	Voted 2008 Debt-Sanitary Sewer
60-05 Blacklick Creek Sanitary Interceptor Sewer CA/CI	6,000,000	2,000,000	-	-	-	-	8,000,000	Voted 2008 Debt-Sanitary Sewer
60-05 General Engineering Svcs Contract	400,000	400,000	-	-	-	-	800,000	Voted 2008 Debt-Sanitary Sewer
Shadeville Sanitary Interceptor	-	-	-	-	-	2,000,000	2,000,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Primary Clarifiers Electrical Upgrades	573,000	-	-	-	-	-	573,000	Voted 2008 Debt-Sanitary Sewer
JPWWTP Primary Clarifiers Electrical Upgrades	7,166,735	-	-	-	-	-	7,166,735	WPCLF/OWDA
Roof Replacement for DPU Facilities	2,990,000	2,000,000	-	-	-	-	4,990,000	Voted 2008 Debt-Sanitary Sewer
Roof Replacement for DPU Facilities #2	-	-	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000	Sanitary Sewer Enterprise (Unvoted)
Roof Replacement for DPU Facilities #2	-	195,000	-	-	-	-	195,000	Voted 2008 Debt-Sanitary Sewer
Roof Replacement for DPU Facilities #3	-	-	-	-	-	250,000	250,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Biosolids Land Application Improvements	1,200,000	-	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
JPWWTP Biosolids Land Application Improvements	15,000,000	-	-	-	-	-	15,000,000	WPCLF/OWDA
JPWWTP Digester Cover Rehab	-	1,895,000	1,895,000	1,895,000	-	-	5,685,000	WPCLF/OWDA
JPWWTP Cogeneration Facility	855,000	888,000	-	-	-	-	1,743,000	Voted 2008 Debt-Sanitary Sewer
JPWWTP Cogeneration Facility	-	11,104,000	-	-	-	-	11,104,000	WPCLF/OWDA
6005 Facilities & Equip Upgrade for WSST	1,228,000	-	-	-	-	-	1,228,000	Voted 2008 Debt-Sanitary Sewer
6005 Facilities & Equip Upgrade for WSST	15,353,000	-	-	-	-	-	15,353,000	WPCLF/OWDA
DPU General Engineering Consultant Services (GEC) #2	500,000	500,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #3	-	-	500,000	500,000	-	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
DPU General Engineering Consultant Services (GEC) #3	500,000	500,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #4	-	-	500,000	500,000	500,000	500,000	2,000,000	Sanitary Sewer Enterprise (Unvoted)
DPU General Engineering Consultant Services (GEC) #5	-	-	-	-	500,000	500,000	1,000,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Small Capital Projects	-	-	400,000	400,000	400,000	400,000	1,600,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Small Capital Projects	700,000	400,000	-	-	-	-	1,100,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Small Capital Projects	-	-	400,000	400,000	400,000	400,000	1,600,000	Sanitary Sewer Enterprise (Unvoted)
SWWTP Small Capital Projects	350,000	400,000	-	-	-	-	750,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Building Heating Improvements - Boiler Revisions (RFP 011A)	1,227,020	-	-	-	-	-	1,227,020	Voted 2008 Debt-Sanitary Sewer
SWWTP Building Heating Improvements - Fuel Oil UST Closure (RFP)	359,000	-	-	-	-	-	359,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Boiler System Operational Improvements (S81 Boiler TSFs) (RFP 015)	1,295,000	-	-	-	-	-	1,295,000	Voted 2008 Debt-Sanitary Sewer
Compost Facility Small Capital Projects	-	-	-	200,000	200,000	200,000	600,000	Sanitary Sewer Enterprise (Unvoted)
SMOC Small Capital Projects	-	-	200,000	200,000	200,000	200,000	800,000	Sanitary Sewer Enterprise (Unvoted)
SMOC Small Capital Projects	450,000	200,000	-	-	-	-	650,000	Voted 2008 Debt-Sanitary Sewer
Fairwood Building Facilities Small Capital Projects	-	-	50,000	50,000	50,000	50,000	200,000	Sanitary Sewer Enterprise (Unvoted)
Fairwood Building Facilities Small Capital Projects	50,000	50,000	-	-	-	-	100,000	Voted 2008 Debt-Sanitary Sewer
Fairwood Fueling Station Compliance Upgrade	250,000	-	-	-	-	-	250,000	Voted 2008 Debt-Sanitary Sewer
WWTFs Professional Construction Management Services #2	-	-	9,929,000	5,201,000	1,648,000	1,440,000	18,218,000	Sanitary Sewer Enterprise (Unvoted)
WWTFs Professional Construction Management Services #2	-	7,411,000	-	-	-	-	7,411,000	Voted 2008 Debt-Sanitary Sewer
WWTFs Professional Construction Management Services #3	-	-	-	-	-	1,000,000	1,000,000	Sanitary Sewer Enterprise (Unvoted)
WWTFs Professional Construction Management for Small Capital	-	250,000	250,000	250,000	-	-	750,000	Sanitary Sewer Enterprise (Unvoted)
WWTFs Professional Construction Management for Small Capital	250,000	-	-	-	-	-	250,000	Voted 2008 Debt-Sanitary Sewer
WWTFs Professional Construction Management for Small Capital	-	-	-	-	250,000	250,000	500,000	Sanitary Sewer Enterprise (Unvoted)
DPU Hazardous Energy Control	-	50,000	200,000	50,000	50,000	50,000	400,000	Sanitary Sewer Enterprise (Unvoted)
DPU Hazardous Energy Control	150,000	-	-	-	-	-	150,000	Voted 2008 Debt-Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming	-	-	500,000	500,000	-	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
WWTFs Instrumentation and Control (I&C) Integration and Programming	500,000	500,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming	-	-	-	-	500,000	500,000	1,000,000	Sanitary Sewer Enterprise (Unvoted)
60-05 WWTFs Renovations and Rehabilitations	-	-	500,000	500,000	500,000	500,000	2,000,000	Sanitary Sewer Enterprise (Unvoted)
60-05 WWTFs Renovations and Rehabilitations	500,000	500,000	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Digestion Process Expansion	-	1,200,000	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Digestion Process Expansion	-	14,996,940	-	-	-	-	14,996,940	WPCLF/OWDA
SWWTP Cogeneration Facility	-	-	610,000	-	-	-	610,000	Sanitary Sewer Enterprise (Unvoted)
SWWTP Cogeneration Facility	587,000	-	-	-	-	-	587,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Cogeneration Facility	-	-	7,626,000	-	-	-	7,626,000	WPCLF/OWDA

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
WWTF Upgrade - General Program #4	-	-	1,894,000	1,894,000	1,894,000	-	5,682,000	Sanitary Sewer Enterprise (Unvoted)
WWTF Upgrade - General Program #4	2,700,000	1,894,000	-	-	-	-	4,594,000	Voted 2008 Debt-Sanitary Sewer
WWTF Upgrade - General Program #5	-	-	-	-	-	1,894,000	1,894,000	Sanitary Sewer Enterprise (Unvoted)
60-05 SWWTP Chemically Enhanced Primary Treatment: Preliminary Treatment	3,000,000	-	-	-	-	-	3,000,000	Voted 2008 Debt-Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment: Preliminary Treatment	37,000,000	-	-	-	-	-	37,000,000	WPCLF/OWDA
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT):	3,018,000	-	-	-	-	-	3,018,000	Voted 2008 Debt-Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT):	36,400,000	-	-	-	-	-	36,400,000	WPCLF/OWDA
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT):	1,880,000	-	-	-	-	-	1,880,000	Voted 2008 Debt-Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT):	23,500,000	-	-	-	-	-	23,500,000	WPCLF/OWDA
60-05 Compost Facility Odor Control Improvements	-	660,000	-	-	-	-	660,000	Sanitary Sewer Enterprise (Unvoted)
60-05 Compost Facility Odor Control Improvements	834,687	-	-	-	-	-	834,687	Voted 2008 Debt-Sanitary Sewer
60-05 Compost Facility Odor Control Improvements	-	8,250,000	-	-	-	-	8,250,000	WPCLF/OWDA
2018 Annual Lining Contract	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
2019 Annual Lining Contract	-	-	5,000,000	-	-	-	5,000,000	WPCLF/OWDA
2020 Annual Lining Contract	-	-	-	5,000,000	-	-	5,000,000	WPCLF/OWDA
2021 Annual Lining Contract	-	-	-	-	5,000,000	-	5,000,000	WPCLF/OWDA
2022 Annual Lining Contract	-	-	-	-	-	5,000,000	5,000,000	WPCLF/OWDA
Sewer System Capacity Model update 2012	1,500,000	2,166,252	-	-	-	-	3,666,252	Voted 2008 Debt-Sanitary Sewer
Sewer System Capacity Model update 2018	-	333,748	1,500,000	1,500,000	1,500,000	1,500,000	6,333,748	Sanitary Sewer Enterprise (Unvoted)
Big Walnut/Rickenbacker Sanitary Interceptor	1,000,000	-	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
Lockbourne Subtrunk Air Quality Improvements	-	3,200,000	-	-	-	-	3,200,000	WPCLF/OWDA
Big Walnut Augmentation / Rickenbacker Interceptor (BWARI) Lockbourne	-	-	-	-	-	-	-	-
Subtrunk CA/CI	-	2,000,000	-	-	-	-	2,000,000	Voted 2008 Debt-Sanitary Sewer
Intermodal Sanitary Subtrunk Extension	-	150,000	-	-	-	-	150,000	Voted 2008 Debt-Sanitary Sewer
Intermodal Sanitary Subtrunk Extension	1,500,000	-	-	20,000,000	-	-	21,500,000	WPCLF/OWDA
Upper Scioto West Subtrunk, Hayden Run Area, West of Cosgray Rd	-	-	-	-	-	3,000,000	3,000,000	WPCLF/OWDA
Upper Scioto West Shaft	1,500,000	-	-	-	-	-	1,500,000	WPCLF/OWDA
Franklinton East Sewer Improvements	-	3,000,000	-	-	-	-	3,000,000	WPCLF/OWDA
Woodward Avenue Sanitary Sewers	525,000	-	-	-	-	-	525,000	Voted 2008 Debt-Sanitary Sewer
Joyce Ave Sanitary Sewer Improvements	70,000	-	-	-	-	-	70,000	Voted 2008 Debt-Sanitary Sewer
Franklin Main Interceptor Rehabilitation, Sec. 6	-	2,000,000	-	-	-	-	2,000,000	WPCLF/OWDA
60-05 Big Run/Hellbranch Subtrunk (Extension Reimbursement)	1,009,671	-	-	-	-	-	1,009,671	Voted 2008 Debt-Sanitary Sewer
Big Walnut Outfall Rehabilitation	-	-	1,400,000	-	-	-	1,400,000	Sanitary Sewer Enterprise (Unvoted)
Big Walnut Outfall Rehabilitation	-	-	-	14,000,000	-	-	14,000,000	WPCLF/OWDA
60-05 OSIS Augment Relief Sewer, Henry St.-JPWWTP OARS	500,000	-	-	-	-	-	500,000	Voted 2008 Debt-Sanitary Sewer
Lower Olentangy River Ecosystem Restoration, Fifth Ave. Dam Removal	-	20,000	70,000	-	-	-	90,000	Sanitary Sewer Enterprise (Unvoted)
Lower Olentangy River Ecosystem Restoration, Fifth Ave. Dam Removal	50,000	-	-	-	-	-	50,000	Voted 2008 Debt-Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	-	-	-	-	1,000,000	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
Lower Olentangy Tunnel - Phase 1	5,524,000	5,524,000	-	-	-	-	11,048,000	Voted 2008 Debt-Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	-	-	-	-	-	185,000,000	185,000,000	WPCLF/OWDA
Large Diameter Sewer Rehabilitation - Alum Creek Trunk North	-	-	-	-	-	-	-	-
Section/Alum Creek Subtrunk Sewer	5,500,000	-	-	-	-	-	5,500,000	WPCLF/OWDA
Large Diameter Sewer Rehabilitation - Alum Creek Trunk Middle	-	-	-	-	-	-	-	-
Section/Alum Creek Interceptor Sewer	8,500,000	-	-	-	-	-	8,500,000	WPCLF/OWDA
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South	-	-	-	-	-	-	-	-
Section/Deshler Tunnel-Alum Creek Interceptor Sewer/Truro Sewers	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Big Walnut Trunk Sewer - North	300,000	100,000	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
Big Walnut Trunk Sewer - North	-	7,500,000	-	-	-	-	7,500,000	WPCLF/OWDA
Sewer	300,000	100,000	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
Large Diameter Sewer Rehabilitation - Big Walnut Middle Trunk Section	-	7,500,000	-	-	-	-	7,500,000	WPCLF/OWDA
Big Walnut Trunk Sewer - South	300,000	100,000	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
Big Walnut Trunk Sewer - South	-	7,600,000	-	-	-	-	7,600,000	WPCLF/OWDA
OSIS Large Diameter Sewer Rehabilitation	-	1,200,000	1,200,000	-	-	-	2,400,000	Sanitary Sewer Enterprise (Unvoted)
OSIS Large Diameter Sewer Rehabilitation	-	-	-	-	5,000,000	-	5,000,000	WPCLF/OWDA
Center Large Diameter Rehabilitation	250,000	-	-	-	-	-	250,000	Voted 2008 Debt-Sanitary Sewer

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Center Large Diameter Rehabilitation	-	2,000,000	3,000,000	-	-	-	5,000,000	WPCLF/OWDA
West Side Trunk Rehabilitation	-	300,000	100,000	-	-	-	400,000	Sanitary Sewer Enterprise (Unvoted)
West Side Trunk Rehabilitation	1,500,000	-	-	-	-	-	1,500,000	Voted 2008 Debt-Sanitary Sewer
West Side Trunk Rehabilitation	-	-	-	5,000,000	-	-	5,000,000	WPCLF/OWDA
Large Diameter - Blacklick Creek Main Trunk	1,200,000	-	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
Large Diameter - Blacklick Creek Main Trunk	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Large Diameter - Scioto Main Trunk	2,400,000	-	-	-	-	-	2,400,000	Voted 2008 Debt-Sanitary Sewer
Large Diameter - Scioto Main Trunk	-	-	5,000,000	-	-	-	5,000,000	WPCLF/OWDA
Large Diameter Sewer Rehabilitation	-	-	-	1,200,000	-	-	1,200,000	Sanitary Sewer Enterprise (Unvoted)
Near North & East Area Large Diameter Assessment	250,000	-	-	-	-	-	250,000	Voted 2008 Debt-Sanitary Sewer
Near North & East Area Large Diameter Assessment	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Brimfield Area Sanitary System Repair Project	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
2017 General Construction Contract	1,500,000	-	-	-	-	-	1,500,000	Voted 2008 Debt-Sanitary Sewer
2018 General Construction Contract	-	1,036,000	-	-	-	-	1,036,000	Sanitary Sewer Enterprise (Unvoted)
2018 General Construction Contract	-	464,000	-	-	-	-	464,000	Voted 2008 Debt-Sanitary Sewer
2019 General Construction Contract	-	-	1,500,000	-	-	-	1,500,000	Sanitary Sewer Enterprise (Unvoted)
2020 General Construction Contract	-	-	-	1,500,000	-	-	1,500,000	Sanitary Sewer Enterprise (Unvoted)
2021 General Construction Contract	-	-	-	-	3,000,000	-	3,000,000	Sanitary Sewer Enterprise (Unvoted)
2022 General Construction Contract	-	-	-	-	-	3,000,000	3,000,000	Sanitary Sewer Enterprise (Unvoted)
Moler Street Overflow Intercepting Sewer	-	250,000	-	-	-	-	250,000	Sanitary Sewer Enterprise (Unvoted)
Moler Street Overflow Intercepting Sewer	-	-	10,000,000	-	-	-	10,000,000	WPCLF/OWDA
Third Ave Relief Sewer, Phase 3	-	250,000	-	-	-	-	250,000	Sanitary Sewer Enterprise (Unvoted)
Third Ave Relief Sewer, Phase 3	-	-	7,500,000	-	-	-	7,500,000	WPCLF/OWDA
Rickenbacker Area Pump Station (SA-15)	344,000	-	-	-	-	-	344,000	Voted 2008 Debt-Sanitary Sewer
SMOC SCADA Modernization at Remote Sanitary Facilities	700,000	-	-	-	-	-	700,000	Voted 2008 Debt-Sanitary Sewer
SMOC SCADA Modernization at Remote Sanitary Facilities	-	1,500,000	-	-	-	-	1,500,000	WPCLF/OWDA
SMOC SCADA Communication Network Modernization	1,200,000	-	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
SMOC SCADA Communication Network Modernization	-	3,500,000	-	-	-	-	3,500,000	WPCLF/OWDA
General CA/CI	-	9,500,000	9,500,000	10,000,000	12,200,000	12,200,000	53,400,000	Sanitary Sewer Enterprise (Unvoted)
General CA/CI	12,500,000	-	-	-	-	-	12,500,000	Voted 2008 Debt-Sanitary Sewer
Lower Olentangy River Ecosystem CA/CI	-	-	70,000	-	-	-	70,000	Sanitary Sewer Enterprise (Unvoted)
Lower Olentangy River Ecosystem CA/CI	50,000	20,000	-	-	-	-	70,000	Voted 2008 Debt-Sanitary Sewer
Weisheimer/Indian Springs Integrated Solution	2,500,000	-	-	-	-	-	2,500,000	WPCLF/OWDA
Morse/Dominion Integrated Solution	3,500,000	-	-	-	-	-	3,500,000	WPCLF/OWDA
Blueprint Clintonville Professional Construction Management Services	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint Clintonville Professional Construction Management Services	1,000,000	-	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	185,000	-	-	-	-	-	185,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	-	4,600,000	-	-	-	-	4,600,000	WPCLF/OWDA
Blueprint Linden - Oakland Park / Medina	200,000	-	-	-	-	-	200,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Oakland Park / Medina	-	4,000,000	-	-	-	-	4,000,000	WPCLF/OWDA
Blueprint Linden - Agler / Berrell	134,000	-	-	-	-	-	134,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Agler / Berrell	-	4,000,000	-	-	-	-	4,000,000	WPCLF/OWDA
Blueprint Linden - Artane / Parkwood	-	4,000,000	-	-	-	-	4,000,000	WPCLF/OWDA
Blueprint Hilltop - Palmetto/Westgate	700,000	-	-	-	-	-	700,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Hilltop - Palmetto/Westgate	-	-	-	10,000,000	-	-	10,000,000	WPCLF/OWDA
Blueprint Hilltop - Eureka/Fremont	300,000	100,000	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Hilltop - Eureka/Fremont	-	-	-	10,000,000	-	-	10,000,000	WPCLF/OWDA
Blueprint Miller Kelton - Newton/Bedford	-	96,000	-	-	-	-	96,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint Miller Kelton - Newton/Bedford	250,000	-	-	-	-	-	250,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Miller Kelton - Newton/Bedford	-	-	-	15,500,000	-	-	15,500,000	WPCLF/OWDA
Blueprint Miller Kelton - Kelton/Fairwood	-	-	171,154	-	-	-	171,154	Sanitary Sewer Enterprise (Unvoted)
Blueprint Miller Kelton - Kelton/Fairwood	450,000	-	-	-	-	-	450,000	Voted 2008 Debt-Sanitary Sewer
Blueprint 2015 (5th NW, W. Franklinton, Hilltop 4)	-	-	30,000,000	-	-	-	30,000,000	WPCLF/OWDA

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Blueprint 2017 Clintonville 2	-	8,000,000	4,000,000	-	-	-	12,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint 2017 Clintonville 2	-	-	-	-	40,000,000	-	40,000,000	WPCLF/OWDA
Blueprint 2018 James Livingston 5 + Plumb Ridge	-	-	8,000,000	4,000,000	-	-	12,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint 2018 James Livingston 5 + Plumb Ridge	-	-	-	-	-	40,000,000	40,000,000	WPCLF/OWDA
Blueprint 2019 Hilltop 2	-	-	-	8,000,000	4,000,000	-	12,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	-	-	175,000	-	-	-	175,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	800,000	-	-	-	-	-	800,000	Voted 2008 Debt-Sanitary Sewer
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	-	-	-	3,700,000	-	-	3,700,000	WPCLF/OWDA
Blueprint 5th Ave by Northwest - Edgehill / Meadow	-	150,000	-	-	-	-	150,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint 5th Ave by Northwest - Edgehill / Meadow	494,370	-	-	-	-	-	494,370	Voted 2008 Debt-Sanitary Sewer
Blueprint 5th Ave by Northwest - Edgehill / Meadow	-	-	-	2,800,000	-	-	2,800,000	WPCLF/OWDA
Blueprint Olde Beechwood Area - Integrated Solutions	500,000	100,000	-	-	-	-	600,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Olde Beechwood Area - Integrated Solutions	-	1,200,000	-	-	-	-	1,200,000	WPCLF/OWDA
Blueprint Hilltop 4 - Highland / Harris	-	500,000	-	-	-	-	500,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint Hilltop 4 - Highland / Harris	-	-	-	3,500,000	-	-	3,500,000	WPCLF/OWDA
West Franklinton Sewer Improvements	-	580,000	-	-	-	-	580,000	Sanitary Sewer Enterprise (Unvoted)
Clintonville Lateral Lining / Downspout Redirect	-	4,249,077	5,750,923	-	-	-	10,000,000	Sanitary Sewer Enterprise (Unvoted)
Clintonville Lateral Lining / Downspout Redirect	-	10,000,000	-	-	-	-	10,000,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Lateral Lining / Downspout Redirect	-	-	16,000,000	30,000,000	30,000,000	30,000,000	106,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint CIPP Lining	-	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	50,000,000	WPCLF/OWDA
Blueprint Columbus: Sump Pump Program	-	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint Columbus: Sump Pump Program	3,000,000	-	-	-	-	-	3,000,000	Voted 2008 Debt-Sanitary Sewer
Blueprint I/I Reduction Monitoring	-	-	310,000	310,000	310,000	310,000	1,240,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint I/I Reduction Monitoring	310,000	310,000	-	-	-	-	620,000	Voted 2008 Debt-Sanitary Sewer
Scioto Main Sanitary Pump Stations	400,000	-	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
Scioto Main Sanitary Pump Stations	-	-	4,500,000	-	-	-	4,500,000	WPCLF/OWDA
Scioto Main Sanitary Trunk Sewer Rehabilitation	-	100,000	-	-	-	-	100,000	Sanitary Sewer Enterprise (Unvoted)
Scioto Main Sanitary Trunk Sewer Rehabilitation	-	-	7,500,000	-	-	-	7,500,000	WPCLF/OWDA
Meeklynn Drive Area Sanitary Sewer	2,000,000	-	-	-	-	-	2,000,000	WPCLF/OWDA
HSTS Elimination Program	-	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	27,500,000	Sanitary Sewer Enterprise (Unvoted)
HSTS Elimination Program	500,000	-	-	-	-	-	500,000	Voted 2008 Debt-Sanitary Sewer
Subtotal - PUBLIC UTILITIES/SANITARY SEWERS 60- 05	\$ 240,362,483	\$ 205,043,017	\$ 200,201,077	\$ 257,750,000	\$ 135,002,000	\$ 314,044,000	\$ 1,352,402,577	
PUBLIC UTILITIES/ELECTRICITY 60- 07								
60 UIRF Funded Street Lighting Projects (Urban Infrastructure Recovery	-	505,000	505,000	505,000	505,000	505,000	2,525,000	Councilmanic SIT Supported
60 UIRF Funded Street Lighting Projects (Urban Infrastructure Recovery	505,000	-	-	-	-	-	505,000	Voted 2013 Debt - Electricity
South High Street Decorative Lighting - 2126	-	405,600	-	-	-	-	405,600	Electricity Enterprise (Unvoted)
South High Street Decorative Lighting - 2140	-	241,800	-	-	-	-	241,800	Electricity Enterprise (Unvoted)
Parsons Avenue Underpass Lighting - 2125	-	46,000	-	-	-	-	46,000	Electricity Enterprise (Unvoted)
Mock Road Street Lighting - 1940	-	41,400	-	-	-	-	41,400	Electricity Enterprise (Unvoted)
North Central Standard Lighting - 1938	-	205,000	-	-	-	-	205,000	Electricity Enterprise (Unvoted)
Innis Road Standard Lighting - 1941	-	33,000	-	-	-	-	33,000	Electricity Enterprise (Unvoted)
East Fifth Avenue Decorative Street Lighting	-	-	118,750	-	-	-	118,750	Electricity Enterprise (Unvoted)
DOP Streetlight Program	-	-	-	500,000	500,000	500,000	1,500,000	Electricity Enterprise (Unvoted)
Morse Rd. (Ph. II) System Improvements, Circuit 7221	350,000	-	-	-	-	-	350,000	Voted 2013 Debt - Electricity
Morse Rd. (Ph. III & IV) System Improvements	-	3,850,000	-	-	-	-	3,850,000	Electricity Enterprise (Unvoted)
Morse Rd. (Ph. III & IV) System Improvements	350,000	-	-	-	-	-	350,000	Voted 2013 Debt - Electricity
Substation 69 & 138 KV OCB Replacement to SF6 2017	180,000	-	-	-	-	-	180,000	Voted 2013 Debt - Electricity
Substation 69 & 138KV OCB Replacement to SF6 2018	-	185,000	-	-	-	-	185,000	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2019	-	-	191,000	-	-	-	191,000	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2020	-	-	-	197,000	-	-	197,000	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2021	-	-	-	-	213,000	-	213,000	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2022	-	-	-	-	-	220,000	220,000	Electricity Enterprise (Unvoted)

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
AMI Metering	-	400,000	400,000	-	-	-	800,000	Electricity Enterprise (Unvoted)
Mobile Substation	-	-	-	-	1,858,000	-	1,858,000	Electricity Enterprise (Unvoted)
17th Avenue Circuit Upgrade	-	1,375,000	-	-	-	-	1,375,000	Electricity Enterprise (Unvoted)
Dublin Avenue Substation Security Fence	400,000	-	-	-	-	-	400,000	Voted 2013 Debt - Electricity
Alternate 69 KV Feed to W Substat	2,860,000	-	-	-	-	-	2,860,000	Voted 2013 Debt - Electricity
Conversion to 3 Wire	-	300,000	300,000	300,000	300,000	300,000	1,500,000	Electricity Enterprise (Unvoted)
Forest Hills Street Lighting	-	-	-	-	-	430,650	430,650	Electricity Enterprise (Unvoted)
Valleyview Street Lighting	360,640	-	-	-	-	-	360,640	Voted 2013 Debt - Electricity
Transformer Conversions	-	-	1,900,000	-	-	-	1,900,000	Electricity Enterprise (Unvoted)
New Jackson Pike Substation Transformer	1,777,636	-	-	-	-	-	1,777,636	Electricity Enterprise (Unvoted)
New Jackson Pike Substation Transformer	222,364	-	-	-	-	-	222,364	Voted 2013 Debt - Electricity
Jackson Pike Substation DT-2M Transformer	-	-	-	-	-	2,000,000	2,000,000	Electricity Enterprise (Unvoted)
Jackson Pike Substation DT-1E Transformer Replacement	-	-	-	2,000,000	-	-	2,000,000	Electricity Enterprise (Unvoted)
7200V Circuit Upgrade & Reconductoring Phase I	-	215,000	-	1,562,000	-	-	1,777,000	Electricity Enterprise (Unvoted)
7200V Circuit Upgrade & Reconductoring Phase II	-	200,000	-	-	1,617,000	-	1,817,000	Electricity Enterprise (Unvoted)
Convert Circuit 7220 to 14.4KV	-	-	-	220,000	-	1,760,000	1,980,000	Electricity Enterprise (Unvoted)
Convert Circuit 7221 to 14.4KV	-	-	-	-	-	260,000	260,000	Electricity Enterprise (Unvoted)
Convert Circuit 7222 to 14.4KV	-	-	-	130,000	-	-	130,000	Electricity Enterprise (Unvoted)
Convert Circuit 7223 to 14.4KV	-	-	-	-	-	220,000	220,000	Electricity Enterprise (Unvoted)
Circuit Upgrades (4th to Hudson/Arcadia)	-	-	-	-	75,000	-	75,000	Electricity Enterprise (Unvoted)
Circuit Upgrades (4th to Chittenden/Hudson) Circuits 7221 & 7223	-	833,254	-	-	-	-	833,254	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2017	120,000	-	-	-	-	-	120,000	Voted 2013 Debt - Electricity
Oil Switch Replacement Program 2019	-	-	120,000	-	-	-	120,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2020	-	-	-	120,000	-	-	120,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2021	-	-	-	-	120,000	-	120,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2022	-	-	-	-	-	120,000	120,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2018	-	120,000	-	-	-	-	120,000	Electricity Enterprise (Unvoted)
Reconductoring Circuit 14115 on Steel (Wheatland to Hague)	-	-	-	237,000	-	-	237,000	Electricity Enterprise (Unvoted)
Hall Rd Street Lighting	891,957	-	-	-	-	-	891,957	Voted 2013 Debt - Electricity
Hamilton Rd Street Lighting	-	165,750	-	-	-	-	165,750	Electricity Enterprise (Unvoted)
Freeway & Kingshill Street Lighting	-	-	90,650	-	471,380	-	562,030	Electricity Enterprise (Unvoted)
Fitzroy & Morse Rd Street Lighting	-	-	70,000	-	362,000	-	432,000	Electricity Enterprise (Unvoted)
Cherry Creek & Cherryhurst Street Lighting	-	-	50,000	-	250,000	-	300,000	Electricity Enterprise (Unvoted)
Broad Street & Noe Bixby Street Lighting	-	-	250,000	-	-	-	250,000	Electricity Enterprise (Unvoted)
Broad Street & Noe Bixby Street Lighting	50,000	-	-	-	-	-	50,000	Voted 2013 Debt - Electricity
Sancus & Whitewater Street Lighting	-	-	70,000	-	362,000	-	432,000	Electricity Enterprise (Unvoted)
Jasonway & Knightsbridge Street Lighting	-	69,375	-	360,750	-	-	430,125	Electricity Enterprise (Unvoted)
Clime Rd. Street Lighting	-	80,000	-	415,000	-	-	495,000	Electricity Enterprise (Unvoted)
Brookfield & Tupsfield Street Lighting	-	96,000	445,000	-	-	-	541,000	Electricity Enterprise (Unvoted)
Sawmill & Summitview Street Lighting	-	124,225	-	645,970	-	-	770,195	Electricity Enterprise (Unvoted)
Riverview & Stinchcomb Street Lighting	-	50,000	-	255,000	-	-	305,000	Electricity Enterprise (Unvoted)
Morningsstar & North Forty Street Lighting	-	-	399,230	-	-	-	399,230	Electricity Enterprise (Unvoted)
Morningsstar & North Forty Street Lighting	76,775	-	-	-	-	-	76,775	Voted 2013 Debt - Electricity
Cleveland Avenue Street Lighting	-	-	220,480	-	-	-	220,480	Electricity Enterprise (Unvoted)
Cleveland Avenue Street Lighting	50,000	-	-	-	-	-	50,000	Voted 2013 Debt - Electricity
Westerville Road Street Lighting	-	-	300,000	-	-	-	300,000	Electricity Enterprise (Unvoted)
Westerville Road Street Lighting	65,000	-	-	-	-	-	65,000	Voted 2013 Debt - Electricity
Smokey Row Street Lighting	-	-	317,460	-	-	-	317,460	Electricity Enterprise (Unvoted)
Smokey Row Street Lighting	61,050	-	-	-	-	-	61,050	Voted 2013 Debt - Electricity
Dublin-Granville Rd / Deewood / Maple Street Lighting	972,214	-	-	-	-	-	972,214	Voted 2013 Debt - Electricity
General Engineering Services - Power	-	100,000	-	-	-	-	100,000	Electricity Enterprise (Unvoted)
General Engineering Contract 2019 - 2022	-	-	100,000	100,000	100,000	-	300,000	Electricity Enterprise (Unvoted)
General Engineering Contract 2022-2025	-	-	-	-	-	100,000	100,000	Electricity Enterprise (Unvoted)

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
General CACI - Power	-	50,000	-	-	-	-	50,000	Electricity Enterprise (Unvoted)
General CACI - Power	50,000	-	-	-	-	-	50,000	Voted 2013 Debt - Electricity
GENERAL CACI - POWER 2019-2022	-	-	50,000	50,000	50,000	-	150,000	Electricity Enterprise (Unvoted)
GENERAL CACI - POWER 2022-2025	-	-	-	-	-	50,000	50,000	Electricity Enterprise (Unvoted)
Circuit 237 Street Lighting Improvement Upgrade	-	175,000	985,000	-	-	-	1,160,000	Electricity Enterprise (Unvoted)
Circuit 30 Street Lighting Improvement Upgrade	-	1,059,500	-	-	-	-	1,059,500	Electricity Enterprise (Unvoted)
Security & Emergency Preparedness - Power	-	25,000	25,000	25,000	-	-	75,000	Electricity Enterprise (Unvoted)
Security & Emergency Preparedness - Power	25,000	-	-	-	-	-	25,000	Voted 2013 Debt - Electricity
DPU Hazardous Energy Control (Power)	50,000	-	-	-	-	-	50,000	Voted 2013 Debt - Electricity
Subtotal - PUBLIC UTILITIES/ELECTRICITY 60- 07	\$ 9,417,636	\$ 10,950,904	\$ 6,907,570	\$ 7,622,720	\$ 6,783,380	\$ 6,465,650	\$ 48,147,860	
PUBLIC UTILITIES/WATER 60- 09								
Hoover Reservoir Erosion Control	-	200,000	-	1,700,000	-	-	1,900,000	Voted 2013 Debt - Water
Miscellaneous Water Facilities	-	200,000	200,000	200,000	200,000	-	800,000	Voted 2013 Debt - Water
Miscellaneous Water Facilities	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
Indianola Exterior Site Imp's	4,300,000	-	-	-	-	-	4,300,000	Voted 2013 Debt - Water
Indianola Facility Improvements	-	2,500,000	-	30,000,000	-	-	32,500,000	Voted 2013 Debt - Water
Rinehart Public Utilities Complex Exterior Site Improvements	1,000,000	6,325,000	-	500,000	-	-	7,825,000	Voted 2013 Debt - Water
Rinehart Public Utilities Complex Exterior Site Improvements	-	-	-	-	-	6,200,000	6,200,000	Water Enterprise (Unvoted)
Indianola Facility Restroom Renovation	566,000	-	-	-	-	-	566,000	Voted 2013 Debt - Water
Distribution Maintenance Area Imp's	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Water
910 Dublin Road Garage Roof Replacement	-	-	-	1,500,000	-	-	1,500,000	Voted 2013 Debt - Water
Home Road Property Demolition	4,000,000	-	-	-	-	-	4,000,000	Voted 2013 Debt - Water
910 Dublin Road Windows & EIFS Improvements	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Water
Water Main Rehabilitation	500,000	500,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
Water Main Rehabilitation	-	-	3,000,000	3,000,000	21,000,000	30,000,000	57,000,000	WSRLA Loan
Main St. & James Rd. W.L. Imp's	-	1,600,000	-	-	-	-	1,600,000	Voted 2013 Debt - Water
Silver Dr. Area WL Imp's	3,800,000	-	-	-	-	-	3,800,000	WSRLA Loan
South Broadleigh Road Area WL Imp's	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Water
South Broadleigh Road Area WL Imp's	4,300,000	-	-	-	-	-	4,300,000	WSRLA Loan
Maize Road Area Water Line Improvements	3,500,000	-	-	-	-	-	3,500,000	WSRLA Loan
Shattuck Avenue Area Water Line Imp's	3,500,000	-	-	-	-	-	3,500,000	WSRLA Loan
Smith Rd. Water Line Imp's	830,000	-	-	-	-	-	830,000	Voted 2013 Debt - Water
Argyle Dr. Area WL Imp's (fka #36)	3,000,000	-	-	-	-	-	3,000,000	WSRLA Loan
Scottwood Ave. Area WL Imp's (fka #37)	-	375,000	-	-	-	-	375,000	Voted 2013 Debt - Water
Scottwood Ave. Area WL Imp's (fka #37)	-	3,750,000	-	-	-	-	3,750,000	WSRLA Loan
Dewberry Dr. Area WL Imp's (fka #38)	-	450,000	-	-	-	-	450,000	Voted 2013 Debt - Water
Dewberry Dr. Area WL Imp's (fka #38)	-	5,000,000	-	-	-	-	5,000,000	WSRLA Loan
Noe-Bixby Rd. Area WL Imp's (fka #39)	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
Noe-Bixby Rd. Area WL Imp's (fka #39)	-	4,500,000	-	-	-	-	4,500,000	WSRLA Loan
Sale Rd. Area WL Imp's (fka #40)	-	375,000	-	-	-	-	375,000	Voted 2013 Debt - Water
Sale Rd. Area WL Imp's (fka #40)	-	3,500,000	-	-	-	-	3,500,000	WSRLA Loan
Stephen Dr. Area WL Imp's (fka # 41)	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
Stephen Dr. Area WL Imp's (fka # 41)	-	3,600,000	-	-	-	-	3,600,000	WSRLA Loan
Union Ave. Area WL Imp's (fka #42)	-	-	375,000	-	-	-	375,000	Voted 2013 Debt - Water
Union Ave. Area WL Imp's (fka #42)	-	-	3,500,000	-	-	-	3,500,000	WSRLA Loan
Dundee Ave Area W L Imp's (fka #43)	-	-	375,000	-	-	-	375,000	Voted 2013 Debt - Water
Dundee Ave Area W L Imp's (fka #43)	-	-	3,500,000	-	-	-	3,500,000	WSRLA Loan
E. Franklinton WL Imp's	-	600,000	-	-	-	-	600,000	Voted 2013 Debt - Water
Livingston Avenue Area 12" WL Imp's	-	650,000	-	-	-	-	650,000	Voted 2013 Debt - Water
Dawnlight Ave. Area WL Imp's	300,000	-	-	-	-	-	300,000	Voted 2013 Debt - Water
Dresden St. Area WL Imp's	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Dresden St. Area WL Imp's	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Harrington Ct. Area WL Imp's	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Harrington Ct. Area WL Imp's	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
S. Hampton Rd. Area WL Imp's (fka #46)	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
S. Hampton Rd. Area WL Imp's (fka #46)	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 47 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 47 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 48 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 48 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 49 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 49 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 50 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 50 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 51 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 51 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 52 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 52 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 53 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 53 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 54 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 54 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 55 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 55 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 56 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 56 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 57 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 57 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 58 W.M. Replacement	-	250,000	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 58 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 59 W.M. Replacement	-	-	250,000	-	300,000	-	550,000	Voted 2013 Debt - Water
Project No. 59 W.M. Replacement	-	-	-	-	2,700,000	-	2,700,000	WSRLA Loan
Project No. 60 W.M. Replacement	-	-	250,000	-	300,000	-	550,000	Voted 2013 Debt - Water
Project No. 60 W.M. Replacement	-	-	-	-	2,700,000	-	2,700,000	WSRLA Loan
Project No. 61 W.M. Replacement	-	-	250,000	-	300,000	-	550,000	Voted 2013 Debt - Water
Project No. 61 W.M. Replacement	-	-	-	-	2,700,000	-	2,700,000	WSRLA Loan
Livingston Ave Phase B W.L. Imp's	-	750,000	-	-	-	-	750,000	Voted 2013 Debt - Water
O'Shaughnessy Hydroelectric - FERC	725,000	-	-	-	-	-	725,000	Voted 2013 Debt - Water
O'Shaughnessy Dam FERC Independent Consultant Review 2020	-	-	150,000	250,000	250,000	-	650,000	Voted 2013 Debt - Water
DRWP Miscellaneous Improvements	-	500,000	200,000	200,000	200,000	-	1,100,000	Voted 2013 Debt - Water
DRWP Miscellaneous Improvements	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
DRWP Misc. Imp's - Floc Drive Replacement - Part 2	750,000	-	-	-	-	-	750,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Exterior Door and Window Replacement	-	1,500,000	-	-	-	-	1,500,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Educational Signage & Displays	-	150,000	-	-	-	-	150,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin Clarifier Rehab	200,000	400,000	1,200,000	400,000	400,000	-	2,600,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin 2 Clarifier Rehab	-	-	-	800,000	-	-	800,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin 3 Clarifier Rehab	-	-	-	-	800,000	-	800,000	Voted 2013 Debt - Water
HCWP Misc. Improvements	-	200,000	200,000	200,000	200,000	-	800,000	Voted 2013 Debt - Water
HCWP Misc. Improvements	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements - Concrete Improvements	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Water
HCWP Misc Imp's - Raw Water Screen Replacement	-	-	1,000,000	-	-	-	1,000,000	Voted 2013 Debt - Water
HCWP Misc Imp's - Restroom Imp's	-	-	-	350,000	-	-	350,000	Voted 2013 Debt - Water
HCWP Misc Imp's - HSP Monitoring Imp's	-	-	150,000	-	-	-	150,000	Voted 2013 Debt - Water
Comprehensive Master Plan Update	-	-	3,000,000	-	-	-	3,000,000	Voted 2013 Debt - Water

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
PAWP Facility Misc. Improvements	-	200,000	200,000	200,000	200,000	-	800,000	Voted 2013 Debt - Water
PAWP Facility Misc. Improvements	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
PAWP Misc. Imp's - Lime Slaker and Soda Ash Feeder Replacement	-	3,500,000	-	-	-	-	3,500,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Control Room Renovation	-	-	-	300,000	2,800,000	-	3,100,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Chemical Storage Tank Imp's	-	-	-	500,000	-	-	500,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Laboratory Renovation	-	-	1,750,000	-	-	-	1,750,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Roof Renovations - Part 1	-	-	-	-	400,000	-	400,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Roof Renovations - Part 2	-	-	-	-	-	400,000	400,000	Water Enterprise (Unvoted)
PAWP Lime Slurry Pumping Improvements	-	-	-	-	400,000	-	400,000	Voted 2013 Debt - Water
McKinley Avenue Quarry Misc. Improvements 2017	-	-	1,100,000	-	-	-	1,100,000	Voted 2013 Debt - Water
Automatic Meter Reading	-	26,000,000	26,000,000	26,000,000	26,000,000	25,000,000	129,000,000	WSRLA Loan
South Wellfield Expansion - RWL Pickaway Co.	-	-	-	-	-	11,500,000	11,500,000	Water Enterprise (Unvoted)
South Wellfield Expansion - CW-201/202 & VW's	-	-	-	-	-	17,800,000	17,800,000	Water Enterprise (Unvoted)
Watershed Road Improvements	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
Watershed Road Imp's-Part IV Hoover Reservoir	-	-	1,650,000	-	-	-	1,650,000	Voted 2013 Debt - Water
HCWP Basin Concrete Rehab.	12,600,000	-	-	-	-	-	12,600,000	Voted 2013 Debt - Water
HCWP A & B Raw & Fin. Water	-	200,000	-	-	-	-	200,000	Voted 2013 Debt - Water
Water Meter Renewal	-	3,250,000	3,500,000	3,500,000	-	-	10,250,000	Voted 2013 Debt - Water
Water Meter Renewal	-	-	-	-	3,500,000	3,500,000	7,000,000	Water Enterprise (Unvoted)
Valve Renewal Program	-	-	2,000,000	-	2,000,000	-	4,000,000	Voted 2013 Debt - Water
Watershed Misc. Improv. Facilities	-	200,000	200,000	200,000	200,000	-	800,000	Voted 2013 Debt - Water
Watershed Misc. Improv. Facilities	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
Watershed Misc. Improv. - Hoover Dam Misc. Imp.	750,000	-	-	-	-	-	750,000	Voted 2013 Debt - Water
Watershed Misc. Improv. - Hoover Material Storage Area	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Watershed Misc. Imp's - Boat Launch Imp's	300,000	-	1,750,000	250,000	250,000	-	2,550,000	Voted 2013 Debt - Water
Watershed Misc. Imp's - Hoover Boat Launch Imp's	-	-	-	-	1,250,000	-	1,250,000	Water Enterprise (Unvoted)
Griggs Dam - Spillway, Abutment and Scour Mitigation Imp's	-	425,000	2,700,000	-	-	-	3,125,000	Voted 2013 Debt - Water
Griggs Dam Stilling Basin	-	-	-	600,000	-	-	600,000	Voted 2013 Debt - Water
Griggs Dam Stilling Basin	-	-	-	-	-	5,900,000	5,900,000	Water Enterprise (Unvoted)
Hoover Dam Imp's - Part 1	350,000	5,100,000	-	-	-	-	5,450,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	-	500,000	-	-	-	500,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	-	-	-	5,500,000	-	5,500,000	Water Enterprise (Unvoted)
Watershed Misc. Imp. - Griffiths Lane Erosion Control	400,000	-	-	-	-	-	400,000	Voted 2013 Debt - Water
PAWP Sludge Removal - Land Acquisition	425,000	4,000,000	-	-	-	-	4,425,000	Voted 2013 Debt - Water
Watershed Protection Easements	-	200,000	200,000	200,000	200,000	-	800,000	Voted 2013 Debt - Water
Watershed Protection Easements	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
Alum Creek Pump Station - Exterior Repairs	-	250,000	-	-	-	-	250,000	Voted 2013 Debt - Water
O'Shaughnessy Hydroelectric Imps	2,200,000	400,000	-	-	-	-	2,600,000	Voted 2013 Debt - Water
Gen'l Engin. Svcs - Supply Group	-	-	-	800,000	-	-	800,000	Voted 2013 Debt - Water
Gen'l Engin. Svcs - Supply Group	-	-	-	-	800,000	800,000	1,600,000	Water Enterprise (Unvoted)
Gen'l Eng Svcs - Supply Group 2015A	350,000	-	-	-	-	-	350,000	Voted 2013 Debt - Water
Gen'l Eng Svcs - Supply Group 2015B	350,000	-	-	-	-	-	350,000	Voted 2013 Debt - Water
Gen'l Eng Svcs - Supply Group 2018A	-	400,000	400,000	400,000	-	-	1,200,000	Voted 2013 Debt - Water
Gen'l Eng Svcs - Supply Group 2018B	-	400,000	400,000	400,000	-	-	1,200,000	Voted 2013 Debt - Water
Mound District Booster Station 20" Discharge Line	-	3,000,000	-	-	-	-	3,000,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	200,000	550,000	400,000	1,000,000	-	-	2,150,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	-	-	-	-	1,000,000	500,000	1,500,000	Water Enterprise (Unvoted)
Misc. Water Tank Overflow Imp's	150,000	500,000	-	-	-	-	650,000	Voted 2013 Debt - Water
Water Storage Tank Painting	-	2,000,000	750,000	1,000,000	-	-	3,750,000	Voted 2013 Debt - Water
Water Storage Tank Painting	-	-	-	-	1,500,000	500,000	2,000,000	Water Enterprise (Unvoted)
Security Enhancements (incl. all eng. & constr. @ Hoover)	600,000	-	1,200,000	1,200,000	-	-	3,000,000	Voted 2013 Debt - Water
Security Enhancements (incl. all eng. & constr. @ Hoover)	-	-	-	-	600,000	-	600,000	Water Enterprise (Unvoted)

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Security Enhancements - 910 Dublin Road	2,600,000	-	-	-	-	-	2,600,000	Voted 2013 Debt - Water
Security Enhancements - HCWP	-	-	5,000,000	-	-	-	5,000,000	Voted 2013 Debt - Water
Security Enhancements - DRWP	-	-	-	-	5,000,000	-	5,000,000	Water Enterprise (Unvoted)
Security Enhancements - PAWP	-	-	-	-	5,000,000	-	5,000,000	Water Enterprise (Unvoted)
HCWP Hypochlorite Disinfection Improvements	1,200,000	-	-	-	-	-	1,200,000	Voted 2013 Debt - Water
HCWP Hypochlorite Disinfection Improvements	-	-	13,200,000	-	-	-	13,200,000	WSRLA Loan
PAWP Hypochlorite Disinfection Improvements	622,487	-	-	-	-	-	622,487	Voted 2013 Debt - Water
PAWP Hypochlorite Disinfection Improvements	-	-	11,500,000	-	-	-	11,500,000	WSRLA Loan
PAWP Treatment Upgrades	1,800,000	-	-	-	-	-	1,800,000	Voted 2013 Debt - Water
HCWP Window Replacement	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Water
PAWP Automation Upgrade - 2019	-	-	2,500,000	-	-	-	2,500,000	Voted 2013 Debt - Water
HCWP & DRWP Coating Projects	-	-	250,000	1,800,000	-	-	2,050,000	Voted 2013 Debt - Water
HCWP Floc and Lime Basin Eqpt. Reconstruction	-	200,000	-	-	-	-	200,000	Voted 2013 Debt - Water
HCWP Sludge Disposal Line Imp's	-	2,500,000	-	-	-	-	2,500,000	Voted 2013 Debt - Water
HCWP Intake Structure & Low Head Dam Rehabilitation	500,000	4,400,000	-	-	-	-	4,900,000	Voted 2013 Debt - Water
PAWP HVAC Improvements	250,000	-	1,100,000	-	-	-	1,350,000	Voted 2013 Debt - Water
Water Treatment Plant Environmental Upgrades	-	-	400,000	2,400,000	-	-	2,800,000	Voted 2013 Debt - Water
Water Quality Assurance Lab Renovations	-	2,000,000	-	-	-	-	2,000,000	Voted 2013 Debt - Water
Professional Construction Mgmt.- Supply Group	-	1,000,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
HCWP Standby Power	325,000	-	-	-	-	-	325,000	Voted 2013 Debt - Water
HCWP Standby Power	13,750,000	-	-	-	-	-	13,750,000	WSRLA Loan
DRWP Standby Power	1,200,000	-	-	-	-	-	1,200,000	Voted 2013 Debt - Water
DRWP Standby Power	12,000,000	-	-	-	-	-	12,000,000	WSRLA Loan
Water Main Repair	900,000	-	900,000	-	-	-	1,800,000	Voted 2013 Debt - Water
Water Main Repair	-	-	-	-	900,000	-	900,000	Water Enterprise (Unvoted)
Large Diameter Valve Replacement	-	2,200,000	-	2,200,000	-	-	4,400,000	Voted 2013 Debt - Water
Large Diameter Valve Replacement	-	-	-	-	-	2,200,000	2,200,000	Water Enterprise (Unvoted)
DRWP Laboratory Upgrades	-	500,000	-	-	-	-	500,000	Voted 2013 Debt - Water
DRWP Central Maintenance Shop	-	-	-	200,000	-	-	200,000	Voted 2013 Debt - Water
DRWP Central Maintenance Shop	-	-	-	-	4,800,000	-	4,800,000	Water Enterprise (Unvoted)
Watershed Facilities Improvements	-	300,000	4,300,000	-	-	-	4,600,000	Voted 2013 Debt - Water
Fire Hydrant Repairs (non R & R)	1,000,000	1,000,000	1,000,000	1,000,000	-	-	4,000,000	Voted 2013 Debt - Water
Fire Hydrant Repairs (non R & R)	-	-	-	-	1,000,000	1,000,000	2,000,000	Water Enterprise (Unvoted)
Gen'l Engineering Services - Distribution Group	500,000	500,000	500,000	600,000	-	-	2,100,000	Voted 2013 Debt - Water
Gen'l Engineering Services - Distribution Group	-	-	-	-	600,000	600,000	1,200,000	Water Enterprise (Unvoted)
PAWP Well Pump Replacement - CWs #101, #104, and #115	-	4,250,000	-	-	-	-	4,250,000	Voted 2013 Debt - Water
DRWP UV Disinfection	-	19,500,000	-	-	-	-	19,500,000	WSRLA Loan
HCWP UV Disinfection	14,500,000	-	-	-	-	-	14,500,000	WSRLA Loan
Karl Road Water Tank	-	-	-	-	-	500,000	500,000	Water Enterprise (Unvoted)
Condition Assessment Program	-	-	1,500,000	-	-	-	1,500,000	Voted 2013 Debt - Water
Condition Assessment Program	-	-	-	-	1,500,000	-	1,500,000	Water Enterprise (Unvoted)
Reservoirs Bathymetric Study	270,000	-	-	-	-	-	270,000	Voted 2013 Debt - Water
General Architectural Services - Division of Water 2017	300,000	300,000	300,000	-	-	-	900,000	Voted 2013 Debt - Water
General Architectural Services - Division of Water 2019	-	-	300,000	300,000	-	-	600,000	Voted 2013 Debt - Water
General Architectural Services - Division of Water 2019	-	-	-	-	300,000	-	300,000	Water Enterprise (Unvoted)
Wellfield Protection Boundary Update	-	-	-	100,000	-	-	100,000	Voted 2013 Debt - Water
HCWP Lime Dust Collection System	-	-	100,000	250,000	-	-	350,000	Voted 2013 Debt - Water
HCWP Lime Dust Collection System	-	-	-	-	600,000	-	600,000	Water Enterprise (Unvoted)
General Construction (CA-CI)	-	600,000	600,000	600,000	-	-	1,800,000	Voted 2013 Debt - Water
General Construction (CA-CI)	-	-	-	-	600,000	600,000	1,200,000	Water Enterprise (Unvoted)
Hoover Reservoir Erosion Study	-	300,000	-	-	-	-	300,000	Voted 2013 Debt - Water
WTP Building Drain Improvements	-	150,000	300,000	1,800,000	-	-	2,250,000	Voted 2013 Debt - Water

Capital Improvements Program

2017 - 2022 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2017	2018	2019	2020	2021	2022	Total Budget	Funding Source
Professional Construction Management (PCM) - Part II	6,150,000	-	7,000,000	3,000,000	-	-	16,150,000	Voted 2013 Debt - Water
Laboratory Upgrades	-	700,000	-	-	-	-	700,000	Voted 2013 Debt - Water
Dam Engineering Services (DES)	-	-	-	150,000	-	-	150,000	Voted 2013 Debt - Water
Security & Emergency Preparedness - DOW	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2013 Debt - Water
Land Stewardship Update	250,000	750,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
DPU Hazardous Energy Control (DOW)	-	100,000	50,000	-	-	-	150,000	Voted 2013 Debt - Water
HCWP Sludge Removal – Lagoon 1 & 2	-	1,650,000	1,650,000	-	-	-	3,300,000	Voted 2013 Debt - Water
HCWP Sludge Removal – Lagoon 1 & 2	-	-	-	-	1,980,000	1,980,000	3,960,000	Water Enterprise (Unvoted)
DRWP Clearwell Improvements	-	-	-	-	1,200,000	-	1,200,000	Water Enterprise (Unvoted)
DRWP Auxiliary Pump Station Imp's	-	-	-	-	-	400,000	400,000	Water Enterprise (Unvoted)
PAWP Building Improvements	-	-	-	-	350,000	-	350,000	Water Enterprise (Unvoted)
Ozone-BAF Optimization Study	250,000	-	-	-	-	-	250,000	Voted 2013 Debt - Water
HCWP AOP Improvements	-	-	-	-	-	250,000	250,000	Water Enterprise (Unvoted)
HCWP Clearwell Improvements	-	-	-	-	100,000	-	100,000	Voted 2013 Debt - Water
HCWP Clearwell Improvements	-	-	-	-	-	300,000	300,000	Water Enterprise (Unvoted)
PAWP Lagoon Sludge Removal	-	-	-	-	6,350,000	6,350,000	12,700,000	Water Enterprise (Unvoted)
DRWP Automation Upgrade	-	-	-	-	-	2,600,000	2,600,000	Water Enterprise (Unvoted)
PAWP Remote Site Improvements	-	-	-	-	-	400,000	400,000	Water Enterprise (Unvoted)
Freight Elevator Improvements	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
Watershed Signage Master Plan	-	-	300,000	100,000	971,513	-	1,371,513	Voted 2013 Debt - Water
Watershed Signage Master Plan	-	-	-	-	821,513	-	821,513	Water Enterprise (Unvoted)
Subtotal - PUBLIC UTILITIES/WATER 60- 09	\$ 110,613,487	\$ 134,550,000	\$ 133,450,000	\$ 117,250,000	\$ 110,723,026	\$ 120,680,000	\$ 727,266,513	
GRAND TOTAL	\$ 473,880,751	\$ 466,086,421	\$ 444,328,647	\$ 486,052,720	\$ 354,063,406	\$ 543,784,650	\$ 2,768,196,595	

Capital Improvements Program

2017-2022 CAPITAL IMPROVEMENTS PROGRAM FUNDING SUMMARY BY DIVISION							
DIVISION	2017	2018	2019	2020	2021	2022	Total Budget
Dev Administration	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 21,600,000
Construction Management	8,690,000	8,690,000	8,690,000	8,690,000	8,690,000	8,690,000	52,140,000
Fleet Management	1,700,000	800,000	800,000	800,000	800,000	800,000	5,700,000
Police	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	10,080,000
Fire	7,320,000	7,320,000	7,320,000	7,320,000	7,320,000	7,320,000	43,920,000
Transportation	43,905,000	43,905,000	43,905,000	43,905,000	43,905,000	43,905,000	263,430,000
Refuse Collection	6,080,000	6,080,000	6,080,000	6,080,000	6,080,000	6,080,000	36,480,000
Storm Sewer	14,087,145	14,962,500	4,800,000	3,350,000	2,350,000	2,000,000	41,549,645
Sanitary Sewers	240,362,483	205,043,017	200,201,077	257,750,000	135,002,000	314,044,000	1,352,402,577
Electricity	9,417,636	10,950,904	6,907,570	7,622,720	6,783,380	6,465,650	48,147,860
Water	110,613,487	134,550,000	133,450,000	117,250,000	110,723,026	120,680,000	727,266,513
Recreation and Parks	22,780,000	22,780,000	22,780,000	22,780,000	22,780,000	22,780,000	136,680,000
DoT Administration	3,645,000	5,725,000	4,115,000	5,225,000	4,350,000	5,740,000	28,800,000
Total	\$ 473,880,751	\$ 466,086,421	\$ 444,328,647	\$ 486,052,720	\$ 354,063,406	\$ 543,784,650	\$ 2,768,196,595

Capital Improvements Program

2017-2022 CAPITAL IMPROVEMENTS PROGRAM FUNDING SUMMARY BY SOURCE							
FUNDING SOURCE	2017	2018	2019	2020	2021	2022	Total Budget
WSRLA Loan	\$ 58,350,000	\$ 65,850,000	\$ 76,900,000	\$ 53,300,000	\$ 55,100,000	\$ 55,000,000	\$ 364,500,000
Storm Sewer Enterprise (Unvoted)	1,507,145	12,462,500	4,800,000	3,350,000	2,350,000	2,000,000	26,469,645
Voted 2013 Debt - Water	52,263,487	68,700,000	56,550,000	63,950,000	10,471,513	-	251,935,000
Voted 2013 Debt - Storm	11,580,000	-	-	-	-	-	11,580,000
Fleet Management (Unvoted)	1,700,000	800,000	800,000	800,000	800,000	800,000	5,700,000
WPCLF/OWDA	161,419,735	124,345,940	117,021,000	169,595,000	60,000,000	243,000,000	875,381,675
Electricity Enterprise (Unvoted)	1,777,636	10,445,904	6,402,570	7,117,720	6,278,380	5,960,650	37,982,860
Sanitary Sewer Enterprise (Unvoted)	-	39,024,825	83,180,077	88,155,000	75,002,000	71,044,000	356,405,902
Voted 2008 Debt - Sanitary Sewer	79,942,748	44,172,252	-	-	-	-	124,115,000
Councilmanic SIT Supported	75,450,000	94,560,000	94,560,000	94,560,000	94,560,000	94,560,000	548,250,000
Water Enterprise (Unvoted)	-	-	-	-	45,151,513	65,680,000	110,831,513
Voted 2013 Debt SIT Supported	18,605,000	-	-	-	-	-	18,605,000
Voted 2013 Debt - Electricity	7,640,000	-	-	-	-	-	7,640,000
Information Services	3,645,000	5,725,000	4,115,000	5,225,000	4,350,000	5,740,000	28,800,000
Total	\$ 473,880,751	\$ 466,086,421	\$ 444,328,647	\$ 486,052,720	\$ 354,063,406	\$ 543,784,650	\$ 2,768,196,595

PROPOSED 2017 CAPITAL IMPROVEMENT BUDGET

Public Safety

Police

Project Name: Police Facility Renovations
Type: Recurring
Estimated 2017 Cost: \$1,680,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Continued renovation of existing facilities to maximize their use. When possible funds are used to reduce operating costs of the facility.

Police subtotal - \$1,680,000

Fire

Project Name: Fire Facility Renovation
Type: Recurring
Estimated 2017 Cost: \$1,320,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Continued renovation and improvements to existing fire facilities. When possible funds are used to reduce operating costs of the facility.

Project Name: Fire Apparatus Replacement
Type: Recurring
Estimated 2017 Cost: \$6,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Funds used to replace aging fleet of heavy fire equipment. Apparatus eligible for capital replacement includes platform ladders, medic vehicles, and fire engines.

Fire subtotal - \$7,320,000

Public Safety Total - \$9,000,000

Development

Project Name: Green Columbus Projects
Type: Recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funds used as grant dollars for brownfield clean-up areas. Funds may also be used as the city match element for additional grants.

Project Name: Economic & Community Development
Type: Recurring
Estimated 2017 Cost: \$250,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funds used for land acquisition and infrastructure redevelopment in various areas of the city to promote business growth and spur additional community investment.

Project Name: Housing Preservation
Type: Recurring
Estimated 2017 Cost: \$2,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funds used to aid in the prevention, acquisition, rehabilitation, and demolition components of the Home Again Initiative. Funds are limited to low and moderate income households.

Project Name: Emergency Shelter Repair
Type: Recurring
Estimated 2017 Cost: \$350,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funds granted to aid homeless shelters throughout the city with various capital repairs. Shelters are selected on an annual basis.

Development Total - \$3,600,000

Finance and Management

Construction Management

Project Name: Facility Renovations – Project Cost Allocations

Type: Recurring

Estimated 2017 Cost: \$600,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: None

Project Description: Funding to aid in the allocation of resources to various projects.

Project Name: Facility Renovations – Various

Type: Recurring

Estimated 2017 Cost: \$1,248,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal Reduction

Project Description: Funding to provide for capital improvements on city owned buildings. Funds may be used, but are not limited to, building infrastructure upgrades and interior and exterior facility renovations.

Project Name: Construction Management – Design Services

Type: Recurring

Estimated 2017 Cost: \$250,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: None

Project Description: Funding for architectural design services for current and future construction projects.

Project Name: Construction Management – Project Management

Type: Recurring

Estimated 2017 Cost: \$250,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal Reduction

Project Description: Funding for additional project management needs when construction projects arise.

Project Name: City Hall Renovations – Various

Type: Recurring

Estimated 2017 Cost: \$542,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal reduction due to savings in energy costs and preventative maintenance services

Project Description: Renovation of the City Hall building to increase energy efficiency and replace aging infrastructure.

Project Name: Municipal Court – Phased Renovations

Type: Recurring

Estimated 2017 Cost: \$2,300,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal reduction due to savings in preventative maintenance services

Project Description: Funding for the ongoing renovations to the municipal court facility.

Capital Improvements Program

Project Name: Central Safety Building – Elevator Modernization
Type: Non-recurring
Estimated 2017 Cost: \$2,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal reduction due to savings in annual repair and maintenance services
Project Description: Renovations to the existing elevators at the Police Central Safety Building to ensure proper functionality and code compliance.

Project Name: 77 North Front Street Renovations - Various
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Continued interior and exterior renovations as they arise.

Project Name: 1111 E. Broad Street Renovations
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal reduction due to savings in energy costs
Project Description: Update, modernize, and renovate the 1111 E. Broad Street facility to ensure the building remains compliant with all applicable codes and increase energy efficiency.

Project Name: 1111 E. Broad Street Renovations – Elevator Modernization
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal reduction due to savings in energy costs
Project Description: Renovations to the existing elevators at 1111 E. Broad Street to ensure proper functionality and code compliance.

Construction Management subtotal - \$8,690,000

Capital Improvements Program

Fleet Management

Project Name: Fleet Equipment Replacement
Type: Recurring
Estimated 2017 Cost: \$100,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal reduction due to savings in preventative maintenance
Project Description: Annual replacement of equipment due to aging.

Project Name: Fuel Tank Management
Type: Recurring
Estimated 2017 Cost: \$600,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal reduction due to savings in preventative maintenance
Project Description: Renovation, remediation, removal, and/or replacement of citywide fueling infrastructure, including fuel tanks, fuel storage, and dispensing units.

Project Name: Fleet Smart Cities Infrastructure
Type: Recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal increase
Project Description: Grant match required to implement additional electric fueling infrastructure to city sites.

Fleet Management subtotal - \$1,700,000

Finance and Management Total - \$10,390,000

Technology

Project Name: Data Center Facility Upgrades
Type: Recurring
Estimated 2017 Cost: \$200,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Various repairs and upgrades to the city's main data center building. Improvements are both to the interior and exterior of the building and surrounding area.

Project Name: Disaster Recovery Project
Type: Recurring
Estimated 2017 Cost: \$100,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: The expansion and rehabilitation of the city data centers as needed to meet the recovery and availability demands in the event of an emergency.

Project Name: Connectivity Project Fiber/Wireless
Type: Recurring
Estimated 2017 Cost: \$750,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Funds to continue installing fiber optic laterals which will connect the city facilities to the fiber network backbone.

Project Name: Routing Equipment Upgrade
Type: Recurring
Estimated 2017 Cost: \$300,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of end of life routing and switching equipment which provides connectivity to all city locations.

Project Name: Uninterruptible Power Supply
Type: Recurring
Estimated 2017 Cost: \$90,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of end of life parts of the uninterruptible power supply network that provides protection of critical network assets from electrical outages.

Project Name: Wireless Local Area Network (LAN)
Type: Recurring
Estimated 2017 Cost: \$80,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued replacement of the infrastructure associated with the city's wireless network.

Capital Improvements Program

Project Name: Enterprise System Upgrades
Type: Recurring
Estimated 2017 Cost: \$375,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of the technology infrastructure that includes the upgrade or replacement of servers, backup recording storage, and professional services.

Project Name: Enterprise System Upgrades – Security Programs
Type: Recurring
Estimated 2017 Cost: \$250,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued replacement of equipment and professional review of security controls to provide additional cybersecurity to protect city systems.

Project Name: Asset Management
Type: Recurring
Estimated 2017 Cost: \$190,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Implementation of an integrated system for the management of assets across various city divisions for service and operations management.

Project Name: Enterprise System Upgrades – GIS
Type: Recurring
Estimated 2017 Cost: \$50,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued review and replacement of equipment associated with the city's GIS network.

Project Name: Enterprise System Upgrades – Applications
Type: Recurring
Estimated 2017 Cost: \$150,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Design and development testing for upgrades related to software applications used throughout the city.

Project Name: E-Gov Initiatives - SharePoint
Type: Recurring
Estimated 2017 Cost: \$100,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Creation and implementation of a coordinated document sharing system for all city departments.

Capital Improvements Program

Project Name: Telephony Upgrade – Voice Over Internet Protocol (VOIP)
Type: Recurring
Estimated 2017 Cost: \$370,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of end of life equipment and expansion of the telephony infrastructure.

Project Name: Interactive Voice Response (IVR) Telephony Enhancements
Type: Recurring
Estimated 2017 Cost: \$40,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued upgrades to the existing platform to increase operating functionality and efficiency.

Project Name: Unified Communications
Type: Recurring
Estimated 2017 Cost: \$600,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Upgrade and expand the telephony infrastructure and functionality throughout the city.

Technology Total - \$3,645,000

Recreation and Parks

Project Name: Urban Infrastructure Projects
Type: Recurring
Estimated 2017 Cost: \$753,200
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Funds used for park improvements and development in urban locations. Specific parks and projects are selected for funding on an annual basis.

Project Name: Swimming Facilities
Type: Recurring
Estimated 2017 Cost: \$2,318,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: \$42,000
Project Description: Continued improvement to the city's existing swimming facilities. Funds are used for renovation and equipment replacement as well as potential construction of a new swimming facility.

Project Name: Park & Playground Development
Type: Recurring
Estimated 2017 Cost: \$856,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: \$50,000
Project Description: Continued improvement and development of existing parks. Improvements may include replacement or renovation of aging facilities and grounds.

Project Name: Park & Playground Miscellaneous Improvements & Cost Allocations
Type: Recurring
Estimated 2017 Cost: \$425,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding for unanticipated improvements or renovations of park facilities throughout the city. Funding is also allocated to eligible project management costs as improvements are needed.

Project Name: Hard Surface Improvements
Type: Recurring
Estimated 2017 Cost: \$800,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Annual improvement and replacement of existing hard surface areas. These can include but are not limited to parking lots, walking trails, tennis courts, and basketball courts.

Capital Improvements Program

Project Name: Facility Renovations, Contingencies, & Cost Allocations
Type: Recurring
Estimated 2017 Cost: \$2,150,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds; Councilmanic SIT Supported G.O. Bonds
Operating Impact: \$0 - \$45,000 annual increase
Project Description: Improvements to aging facilities as well as funding for construction of new recreation facilities. Funding is also allocated to eligible project management costs as improvements are needed.

Project Name: HVAC Improvements
Type: Recurring
Estimated 2017 Cost: \$3,150,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding to continue the replacement of outdated and inefficient HVAC equipment to various athletic complexes throughout the city.

Project Name: Facility Roof Improvements
Type: Recurring
Estimated 2017 Cost: \$800,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Replacement of roofs located at aging existing facilities.

Project Name: Street Tree Initiative
Type: Recurring
Estimated 2017 Cost: \$400,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Continued effort to plant new or replacement street trees each year. Costs include the planting of 2,000 to 2,500 trees annually.

Project Name: Maintenance Equipment
Type: Recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of new equipment to replace aging fleet. This allows for the continued maintenance of existing parkland and sporting facilities.

Project Name: Park Acquisition
Type: Recurring
Estimated 2017 Cost: \$774,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: Minimal increase in maintenance costs
Project Description: Purchase of land in underserved areas to expand the existing park system.

Capital Improvements Program

Project Name: Central Maintenance Zone Headquarters
Type: Non-recurring
Estimated 2017 Cost: \$4,500,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds; Councilmanic SIT Supported G.O. Bonds
Operating Impact: \$37,000 annual increase
Project Description: Construction of a new facility to house maintenance equipment used in the upkeep of parks in the central city areas.

Project Name: Bikeway Trail Safety
Type: Recurring
Estimated 2017 Cost: \$433,800
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Continuation of the bikeway trail safety program. Annual allocation for paving improvements, fencing, and implementation of safety equipment along the existing bikeway trails.

Project Name: Greenways Projects
Type: Recurring
Estimated 2017 Cost: \$3,000,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds
Operating Impact: Minimal increase in maintenance costs
Project Description: Funding dedicated to building new trails and protecting stream corridors throughout the city. Funds may also be used to acquire expanded preservation corridors along the city's waterways.

Project Name: Watercourse Bike Path Development & Connection Improvements
Type: Recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Improvements and upgrades to improve waterway and boat launch areas.

Project Name: Safe Playgrounds
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding to provide safe and accessible playgrounds throughout the city. Funds are used in the construction of new playgrounds and the replacement of older equipment. Playgrounds that do not meet current safety or accessibility standards are the highest priority for replacement.

Project Name: Golf – Equipment Replacement
Type: Recurring
Estimated 2017 Cost: \$200,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Annual replacement of equipment related to the golf course operations.

Capital Improvements Program

Project Name: Golf – Hard Surface Improvements
Type: Recurring
Estimated 2017 Cost: \$70,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Renovations and replacements of the cart paths, walkways, and parking areas related to city golf courses.

Project Name: Golf – Facility and Miscellaneous Improvements
Type: Recurring
Estimated 2017 Cost: \$350,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Improvements to aging facilities which includes but is not limited to electrical, plumbing, and roof replacements.

Recreation and Parks Total - \$22,780,000

Public Service

Transportation

Project Name:	Urban Infrastructure Recovery
Type:	Recurring
Estimated 2017 Cost:	\$5,651,813
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Increase
Project Description:	Funding established for capital improvements targeted in the older commercial and residential areas of the city. Improvements may include street rehabilitation, alley improvements, curb installations, sidewalk installations and replacements, street lighting, and resurfacing.
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Project Name:	Street Equipment
Type:	Recurring
Estimated 2017 Cost:	\$856,794
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Reduction
Project Description:	Annual replacement of aging equipment for the Division of Traffic Management and the Division of Infrastructure Management.
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Project Name:	Neighborhood Commercial Revitalization (NCR)
Type:	Recurring
Estimated 2017 Cost:	\$2,500,000
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Increase
Project Description:	Funds used to identify commercial areas that are eligible for capital improvement funding. Improvements may include, but are not limited to, replacement of sidewalks, intersection improvements, installation of street trees and installation of street lighting.
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Project Name:	Alley Rehabilitation
Type:	Recurring
Estimated 2017 Cost:	\$1,500,000
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Reduction
Project Description:	Rehabilitation of alleys throughout the city. Alleys are chosen based upon field assessments and inspections by the maintenance engineering staff and input from citizens.
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Project Name:	Roadway Improvements
Type:	Recurring
Estimated 2017 Cost:	\$2,850,000
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Reduction
Project Description:	Project management costs related to the reconstruction of existing streets and roadway extensions. Costs also include utility relocations, construction inspection costs, and right of way acquisitions necessary for roadway projects.

Capital Improvements Program

Project Name: Curb Reconstruction
Type: Recurring
Estimated 2017 Cost: \$50,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of longitudinal channelizers for the purpose of traffic control.

Project Name: Resurfacing
Type: Recurring
Estimated 2017 Cost: \$18,500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Funding for resurfacing of roadways to restore surfaces to like new conditions. Resurfacing priorities are determined based on pavement management reports and public input. Funding is also included for several urban paving sites where resurfacing projects are joint endeavors with the Ohio Department of Transportation. The following sites are related to the urban paving program:

- State Route 33 Dublin Road/Spring Street
- State Route 315
- West Broad Street
- Riverside Drive

Project Name: Bridge Rehabilitation
Type: Recurring
Estimated 2017 Cost: \$3,371,393
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding for design and construction work associated with the replacement of expansion joints, full and partial bridge deck replacement, sidewalk and curb reconstruction, and other rehabilitation work to city bridges. The following sites are included for 2017:

- Godown Road Bridge
- Broad Street Bridge Lighting
- 5th Avenue under Conrail and Norfolk Southern Railroad

Project Name: Housing Initiatives
Type: Recurring
Estimated 2017 Cost: \$800,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Funding established to aid in the development of roadway infrastructure in areas where local developers seek to build housing units.

Project Name: Bikeway Development
Type: Recurring
Estimated 2017 Cost: \$2,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Funding to expand and renovate the existing bikeway system, including the creation and addition of shared use paths. Bikeway development included for 2017 includes the following:

- Olentangy River Road Shared Use Path – Kinnear to Lane
- Cleveland Avenue Shared Use Path – Community Park Drive to I-270
- Norton Road Shared Use Path
- Waggoner Road Shared Use Path

Capital Improvements Program

Project Name: School Flashers – 20 MPH – Commodities
Type: Recurring
Estimated 2017 Cost: \$50,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reductions
Project Description: Installation of new and replacement “School Speed Limit 20 MPH” signs throughout the city to meet current safety standards.

Project Name: Traffic Signal Installation – Commodities
Type: Recurring
Estimated 2017 Cost: \$950,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Installation of new and replacement traffic signals throughout the city.

Project Name: Sign Upgrading/Street name Signs - Commodities
Type: Recurring
Estimated 2017 Cost: \$325,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Installation of new and replacement street name signs and traffic control signs throughout the city.

Project Name: Permanent Pavement Markings
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Installation of thermoplastic pavement markings on streets throughout the city. Project increases the safety and visibility of motorists during nighttime hours.

Project Name: Pedestrian Safety Improvements
Type: Recurring
Estimated 2017 Cost: \$4,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Installation of new and replacement sidewalks based on public input. Pedestrian safety improvements for 2017 include the following:

- Mound Street Sidewalks – Binns Boulevard to Wayne Avenue
- Eakin Road Sidewalks – Salisbury to Hague
- Refugee Road – Winchester Pike to Hamilton Road
- Third Avenue Sidewalks
- Worthington Woods Boulevard Sidewalks

Transportation subtotal - \$43,905,000

Refuse

Project Name: Mechanized Collection Equipment – 96-Gallon Containers
Type: Recurring
Estimated 2017 Cost: \$300,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Project Name: Mechanized Collection Equipment – 300-Gallon Containers
Type: Recurring
Estimated 2017 Cost: \$725,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Project Name: Mechanized Collection Equipment – Automated Side Loader Trucks
Type: Recurring
Estimated 2017 Cost: \$3,000,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Front-Box Loader Trucks
Type: Recurring
Estimated 2017 Cost: \$900,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Semi-Automated Trucks
Type: Recurring
Estimated 2017 Cost: \$550,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Flatbed Trucks
Type: Recurring
Estimated 2017 Cost: \$230,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Capital Improvements Program

Project Name: Mechanized Collection Equipment – Compactor Trucks
Type: Recurring
Estimated 2017 Cost: \$250,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Dumpsters
Type: Recurring
Estimated 2017 Cost: \$25,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Project Name: Alum Creek Remediation – Facility Improvements
Type: Recurring
Estimated 2017 Cost: \$100,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Remediation of the Alum Creek Transfer station as required by the Ohio Environmental Protection Agency.

Refuse subtotal - \$6,080,000

Public Service Total - \$49,985,000

Public Utilities

Storm Sewer

Project Name: Petzinger Road Stormwater Improvements
Type: Non-recurring
Estimated 2017 Cost: \$1,250,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Stormwater system improvements on Petzinger Road from Glenbrook Drive East to Courtright Road.

Project Name: General Engineering Services - Storm
Type: Recurring
Estimated 2017 Cost: \$200,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding set up for various project engineering services as needed.

Project Name: Linworth Road/ Meeklynn Drive Storm Sewer
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Storm Sewer Enterprise Unvoted G.O. Bonds
Operating Impact: None
Project Description: Hydraulic and hydrologic analysis of the stormwater system from Godown Road to the Olentangy River and from contributing areas of Meeklynn Drive to the Olentangy River.

Project Name: Lehnert Farms/Bolton Field Stormwater System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Analysis and design of stormwater system improvements from the Lehnert Farms detention basin through the Bolton Field Golf Course to Bausch Road.

Project Name: Detention Basin Modifications
Type: Recurring
Estimated 2017 Cost: \$1,400,000
Funding Source: Ohio Water Development Authority Loans; Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Engineering services to modify existing detention basins to improve water quality features and reduce maintenance costs. Detention basin modifications for 2017 include funding for the following:

- Woodward Avenue Detention Basin
- Summit View Detention Basin

Capital Improvements Program

Project Name: Olde Beechwold Area Stormwater System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design of stormwater system improvements to mitigate street and yard flooding within the Olde Beechwold historic neighborhood.

Project Name: Storm Sewer Contingencies
Type: Recurring
Estimated 2017 Cost: \$2,700,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds; Storm Sewer Enterprise Unvoted G.O. Bonds
Operating Impact: None
Project Description: Construction inspection costs associated with the various stormwater system construction projects as well as joint projects under construction with the Department of Public Service.

Project Name: Woodward, Wildwood, and Woodnell Avenue Storm System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$2,750,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design and construction of improvements to the existing stormwater conveyance system along Woodward Avenue, Wildwood Avenue, and Woodnell Avenue. Project will mitigate street, yard, and structural flooding and reduce roadside drainage issues.

Project Name: Joyce Avenue Improvements
Type: Non-recurring
Estimated 2017 Cost: \$807,145
Funding Source: Voted 2013 Public Utilities G.O. Bonds; Storm Sewer Enterprise Unvoted G.O. Bonds
Operating Impact: None
Project Description: Design and construction of improvements to the existing stormwater conveyance system along Joyce Avenue from 17th Avenue to Hudson Street. Project will mitigate street, yard, and structural flooding and reduce roadside drainage issues.

Project Name: Stormwater Master Plan
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to update the current stormwater master plan to manage compliance and permit requirements for stormwater construction projects.

Project Name: Holton Park and Eureka Avenue Green Infrastructure Improvements
Type: Non-recurring
Estimated 2017 Cost: \$350,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Design and construction green infrastructure on vacant parcels located along the North Eureka Avenue corridor as well as Holton Park. Project will allow for the installation of regional facilities to achieve higher treatment levels.

Capital Improvements Program

Project Name: Pump Stations, ST-21, ST-22, ST-23 Improvements
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Evaluation and design of infrastructure improvements to the existing storm system pump stations located along Spring Street that may be necessary to ensure access and operation during the 100-year river flood event.

Project Name: Stormwater Strategic Plan, Phase 2
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to improve the efficiency of the identification, design, and construction of stormwater infrastructure projects.

Project Name: Central Avenue Underpass Stormwater System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$80,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design and construction of storm sewer improvements along Central Ave between Mound Street and Union Avenue. Project will mitigate flooding of Central Avenue at the railroad bridge.

Project Name: Windsor Avenue Stormwater System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$100,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design and construction of stormwater improvements along the Windsor Avenue service road. Project will replace the existing storm sewer pipe with an upsized sanitary grade pipe.

Project Name: Sanitary Maintenance and Operations Center (SMOC) Supervisory Control and Data Acquisition (SCADA) Modernization at Remote Stormwater Facilities
Type: Non-recurring
Estimated 2017 Cost: \$950,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of legacy communication equipment at remote stormwater facilities. Current equipment is at the end of its useful life and replacement parts are no longer available.

Stormwater subtotal - \$14,087,145

Capital Improvements Program

Sanitary Sewers

Project Name: Poindexter Village Phase II
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction of necessary improvements to the sanitary sewer system in the Poindexter Village area.

Project Name: Public Information Outreach
Type: Non-recurring
Estimated 2017 Cost: \$2,100,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Public information outreach associated with the integrated solution, or the Blueprint Columbus project, for the EPA Consent Order requirements.

Project Name: Real Time Control – Alum Creek Storm Tanks
Type: Non-recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Installation of flow control structures and real time control devices to mitigate combined sewer overflows.

Project Name: Real Time Control – Sewer System Optimization
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to determine how additional real time control strategies can be implemented within the wastewater collection and treatment system to ultimately reduce overflows.

Project Name: Department of Sewers and Drains (DOSD) Security & Emergency Preparedness
Type: Recurring
Estimated 2017 Cost: \$100,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Development and installation of a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.

Project Name: Sanitary Sewer Engineering Section (SSES) Overall Engineering Consultant (OEC) Services
Type: Recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to provide for engineering consultants to assist the city in execution of large capital improvements for the wastewater collection system.

Capital Improvements Program

Project Name: Central College Subtrunk Extension Phase 3
Type: Non-recurring
Estimated 2017 Cost: \$350,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Extension of the existing 30" sanitary subtrunk sewer approximately 5,800 linear feet along Central College Road towards New Albany

Project Name: Blacklick Creek Interceptor Sewer
Type: Non-recurring
Estimated 2017 Cost: \$7,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Extension of the existing Blacklick Sanitary Interceptor from its existing terminus just south of Blacklick Creek Boulevard north to Morse Road along Reynoldsburg New Albany Road. Funding includes construction administration and inspection costs

Project Name: General Engineering Services Contract
Type: Recurring
Estimated 2017 Cost: \$400,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for engineering services for sanitary sewer projects throughout the city on an as needed basis

Project Name: Jackson Pike Waste Water Treatment Plant (JPWWTP) Primary Clarifiers Electrical Upgrades
Type: Non-recurring
Estimated 2017 Cost: \$7,739,735
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Replacement of the electrical system that is necessary to operate the A and B Plant Primary Clarifiers. The electrical systems are at the end of their useful life.

Project Name: Roof Replacements for Department of Public Utilities Facilities
Type: Recurring
Estimated 2017 Cost: \$2,990,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Replacement of roofs in existing facilities to prevent infrastructure damage due to water leaks

Project Name: JPWWTP Biosolids Land Application Improvements
Type: Non-recurring
Estimated 2017 Cost: \$16,200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Expansion of the Biosolids land application program as recommended by the 2009 Solids Treatment and Utilization Master Plan. Funds also include rehabilitation of existing storage tanks.

Capital Improvements Program

Project Name: JPWWTP Cogeneration Facility
Type: Non-recurring
Estimated 2017 Cost: \$855,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Implementation of a cogeneration facility that uses digester biogas to provide approximately half of the plant's electricity. Project will also replace boilers that are at the end of their useful life.

Project Name: Facilities & Equipment Upgrade for Whittier Street Storm Tanks
Type: Non-recurring
Estimated 2017 Cost: \$16,581,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Upgrading of processing, electrical, and metering equipment for the Whittier Street stormwater control tanks.

Project Name: Department of Public Utilities General Engineering Consultant Services (GEC) #2 and #3
Type: Recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Engineering and technical services to provide inspections and evaluations of existing conditions, architectural drawings, and specifications and bid documents for various sanitary projects throughout the city.

Project Name: JPWWTP Small Capital Projects
Type: Recurring
Estimated 2017 Cost: \$700,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for JPWWTP Plant projects submitted through the General Engineering Consultant Service contracts.

Project Name: Southerly Waste Water Treatment Plant (SWWTP) Small Capital Projects
Type: Recurring
Estimated 2017 Cost: \$350,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for SWWTP projects submitted through the General Engineering Consultant Service contracts.

Project Name: SWWTP Building Heating Improvements – Boiler Revisions
Type: Non-recurring
Estimated 2017 Cost: \$1,227,020
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to analyze and determine heating alternatives available for the replacement of three oil fired systems located at the SWWTP.

Capital Improvements Program

Project Name: SWWTP Building Heating Improvements – Fuel Oil UST Closure
Type: Non-recurring
Estimated 2017 Cost: \$359,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Removal of three underground fuel oil storage tanks to comply with the Wellfield Protection Chapter of the Columbus City Code.

Project Name: SWWTP Boiler System Operational Improvements
Type: Non-recurring
Estimated 2017 Cost: \$1,295,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Rehabilitation of the existing service building steam plant at the SWWTP.

Project Name: SMOC Small Capital Projects
Type: Recurring
Estimated 2017 Cost: \$450,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for SMOC projects submitted through the General Engineering Consultant Service contracts.

Project Name: Fairwood Avenue Building Facilities Small Capital Projects
Type: Recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for projects submitted through the General Engineering Consultant Service contracts located at the Department of Public Utilities Fairwood Avenue building.

Project Name: Fairwood Avenue Fueling Station Compliance Upgrade
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Design and construction of a drainage system for the fueling station located at the Fairwood Avenue facility that includes an oil/water separator.

Project Name: Waste Water Treatment Facilities Professional Construction Management for Small Capital Projects
Type: Recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Construction management services for various capital projects to provide specialized expertise, coordination, and implementation of multiple small capital projects at once throughout the various Department of Public Utilities facilities.

Capital Improvements Program

Project Name: Department of Public Utilities Hazardous Energy Control
Type: Recurring
Estimated 2017 Cost: \$150,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Audit and energy control procedure development service for multiple facilities to assist with providing safe working conditions to meet safety requirements.

Project Name: Waste Water Treatment Facilities Instrumentation and Control (I&C) Integration and Programming Part 2
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Upgrading of the existing Plant Wide Process Control System at each treatment plant.

Project Name: Waste Water Treatment Facilities Renovations and Rehabilitations
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for various renovations and rehabilitations at the city waste water treatment facilities on an as needed basis.

Project Name: SWWTP Cogeneration Facility
Type: Non-recurring
Estimated 2017 Cost: \$587,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Implementation of a cogeneration facility that uses digester biogas to provide approximately half of the plant's electricity. Project will also examine existing boilers and provide an engineering study of ways to increase biogas production for increased electrical production.

Project Name: Waste Water Treatment Facilities Upgrade – General Program #4
Type: Recurring
Estimated 2017 Cost: \$2,700,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Continuation of the general overall engineering consultant contract which provides assistance in the execution of large capital improvement projects for the division.

Project Name: SWWTP Chemically Enhanced Primary Treatment Preliminary Treatment
Type: Non-recurring
Estimated 2017 Cost: \$40,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority
Operating Impact: Undetermined at this time
Project Description: Renovation and replacement of various systems at SWWTP to provide additional capacity for preliminary treatment of waste water and increase treatment of additional wet weather flows.

Capital Improvements Program

Project Name: SWWTP Chemically Enhanced Primary Treatment (CEPT): Clarification
Type: Non-recurring
Estimated 2017 Cost: \$39,418,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority
Operating Impact: Undetermined at this time
Project Description: Renovation and replacement of various systems at SWWTP to provide additional capacity for clarification of waste water and increase treatment of additional wet weather flows.

Project Name: SWWTP Chemically Enhanced Primary Treatment (CEPT): Disinfection
Type: Non-recurring
Estimated 2017 Cost: \$25,380,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority
Operating Impact: Undetermined at this time
Project Description: Renovation and replacement of various systems at SWWTP to provide additional capacity for disinfection of waste water and increase treatment of additional wet weather flows.

Project Name: Compost Facility Odor Control Improvements
Type: Non-recurring
Estimated 2017 Cost: \$834,687
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction of the third aeration pad located at the compost facility.

Project Name: Sewer System Capacity Model Update 2012
Type: Non-recurring
Estimated 2017 Cost: \$1,500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Continuation of the development of the city's Sewer System Capacity Model which evaluates capacity deficiencies and aids the division in ensuring continued compliance with EPA Consent Orders.

Project Name: Big Walnut/Rickenbacker Sanitary Interceptor
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Design and construction of a sanitary subtrunk sewer to service the western portion of the former Air National Guard Base and will service the Village of Lockbourne.

Project Name: Intermodal Sanitary Sewer Extension
Type: Non-recurring
Estimated 2017 Cost: \$1,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Extension of sanitary sewer service further into the Northern Pickaway Joint Economic Development District by constructing a new sanitary subtrunk sewer.

Capital Improvements Program

Project Name: Upper Scioto West Shaft
Type: Non-recurring
Estimated 2017 Cost: \$1,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: Inspection of all 14 shafts for degradation and possible remediation actions. Funding will also include design of final remediation actions.

Project Name: Woodward Avenue Sanitary Sewers
Type: Non-recurring
Estimated 2017 Cost: \$525,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction of sanitary sewers in a currently unsewered area.

Project Name: Joyce Ave Sanitary Sewer Improvements
Type: Non-recurring
Estimated 2017 Cost: \$70,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction of a sanitary sewer along Joyce Avenue.

Project Name: Big Run/Hellbranch Subtrunk
Type: Non-recurring
Estimated 2017 Cost: \$1,009,671
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Extension of the Big Run Trunk Sewer from the intersection of Galloway Road and Sullivant Avenue west and north approximately 3,000 feet to Broad Street.

Project Name: Olentangy-Scioto-Interceptor-Sewer (OSIS) Augment Relief Sewer, Henry St. – JPWWTP
Type: OSIS Augmentation Relief Sewer (OARS)
Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Continuation of funding to aid in the relief structure that will divert high flows from the OSIS to the new tunnel.

Project Name: Lower Olentangy River Ecosystem Restoration, Fifth Avenue Dam Removal
Type: Non-recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Continuation of the removal of the Fifth Avenue dam and restoration of the Olentangy River at this site.

Project Name: Lower Olentangy Tunnel – Phase 1
Type: Non-recurring
Estimated 2017 Cost: \$5,524,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Design and construction of a relief sewer in the Olentangy sewer area.

Project Name: Large Diameter Sewer Rehabilitation – Alum Creek Trunk North Section/Alum Creek Subtrunk Sewer
Type: Non-recurring
Estimated 2017 Cost: \$5,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Large Diameter Sewer Rehabilitation – Alum Creek Trunk Middle Section/Alum Creek Interceptor Sewer
Type: Non-recurring
Estimated 2017 Cost: \$8,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Big Walnut Trunk Sewer – North
Type: Non-recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Large Diameter Sewer Rehabilitation – Big Walnut Middle Trunk Section Sewer
Type: Non-recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure and to rehabilitate it as necessary.

Project Name: Big Walnut Trunk Sewer – South
Type: Non-recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Capital Improvements Program

Project Name: Center Large Diameter Rehabilitation
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: West Side Trunk Rehabilitation
Type: Non-recurring
Estimated 2017 Cost: \$1,500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Large Diameter – Blacklick Creek Main Trunk
Type: Non-recurring
Estimated 2017 Cost: \$1,200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Large Diameter – Scioto Main Trunk
Type: Non-recurring
Estimated 2017 Cost: \$2,400,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Near North & East Area Large Diameter Assessments
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Assessments of existing systems to determine the amount of rehabilitation required and reduce the risk of asset failures.

Project Name: Brimfield Area Sanitary System Repair Project
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Design and construction of improvements to the sanitary sewer system in the area of Brimfield Road, Beechcroft Road, Tamarack Boulevard, and Forest Village Lane.

Capital Improvements Program

Project Name: 2017 General Construction Contract
Type: Recurring
Estimated 2017 Cost: \$1,500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction and replacement of the older existing sewer infrastructure on an as needed basis.

Project Name: Rickenbacker Area Pump Station (SA-15)
Type: Non-recurring
Estimated 2017 Cost: \$344,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Replacement of the existing 20 year old sanitary pump station.

Project Name: SMOC SCADA Modernization at Remote Sanitary Facilities
Type: Non-recurring
Estimated 2017 Cost: \$700,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Replacement of legacy communication equipment and infrastructure at remote sanitary facilities.

Project Name: SMOC SCADA Communication Network Modernization
Type: Non-recurring
Estimated 2017 Cost: \$1,200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Replacement of legacy network communication equipment to handle increased data demand for real time control of approximately 40 remote facilities.

Project Name: General Construction Administration and Inspection
Type: Recurring
Estimated 2017 Cost: \$12,500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Funding to ensure that construction of all various sanitary sewer projects are consistent with and conform to all construction plans.

Project Name: Lower Olentangy River Ecosystem Construction Administration/Construction Inspection (CA/CI)
Type: Non-recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction administration and inspections costs associated with the Fifth Avenue dam removal and Lower Olentangy Ecosystem Restoration project.

Capital Improvements Program

Project Name: Weisheimer/Indian Springs Integrated Solution
Type: Non-recurring
Estimated 2017 Cost: \$2,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Clintonville area.

Project Name: Morse/Dominion Integrated Solution
Type: Non-recurring
Estimated 2017 Cost: \$3,500,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Clintonville area.

Project Name: Blueprint Clintonville Professional Construction Management Services
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction management services for the installation of green infrastructure in the Clintonville pilot area of the city's Blueprint Columbus Initiative.

Project Name: Blueprint Linden
Type: Non-recurring
Estimated 2017 Cost: \$519,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Linden area at the following locations:

- Hudson Street/McGuffey Road
- Oakland Park Avenue/Medina Avenue
- Agler Road/Berrell Avenue

Project Name: Blueprint Hilltop
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Hilltop area at the following locations:

- Palmetto Street/Westgate Avenue
- Eureka Avenue/Fremont Street

Project Name: Blueprint Miller Kelton
Type: Non-recurring
Estimated 2017 Cost: \$700,000
Funding Source: Voted 2008 Sanitary G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Miller Kelton bound area at the following locations:

- Newton Street/Bedford Avenue
- Kelton Avenue/Fairwood Avenue

Project Name: Blueprint 5th Avenue by Northwest
Type: Non-recurring
Estimated 2017 Cost: \$1,294,370
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Fifth Avenue by Northwest Avenue bound area at the following locations:

- Sunrise Avenue/Glenn Avenue
- Edgehill Road/Meadow Road

Project Name: Blueprint Olde Beechwold Area
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers in the Olde Beechwold area.

Project Name: Blueprint Columbus: Sump Pump Program
Type: Recurring
Estimated 2017 Cost: \$3,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Installation of sump pumps in homes within Blueprint Columbus project areas. Installation will redirect foundation drainage away from sanitary sewer lateral lines.

Project Name: Blueprint Inflow/Infiltration (I/I) Reduction Monitoring
Type: Recurring
Estimated 2017 Cost: \$310,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Funding to monitor storm water and potential overflows during and after construction of green infrastructures in the Blueprint Columbus project areas.

Capital Improvements Program

Project Name: Scioto Main Sanitary Pump Stations
Type: Non-recurring
Estimated 2017 Cost: \$400,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Improvements to the Scioto Main sanitary trunk and selected tributary sewers to fully operate facilities constructed as part of the West Columbus Local Protection Project (WCLPP) - Dry Run Levee.

Project Name: Meeklynn Drive Area Sanitary Sewer
Type: Non-recurring
Estimated 2017 Cost: \$2,000,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Construction of a sanitary sewer in the area of Meeklynn Drive.

Project Name: Home Sewage Treatment System (HSTS) Elimination Program
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Continuation of funding to provide centralized sanitary sewers to developed areas that are currently served by on-lot systems.

Sanitary subtotal - \$240,362,483

Electricity

Project Name: Urban Infrastructure Recovery Fund Street Lighting Projects
Type: Recurring
Estimated 2017 Cost: \$505,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: Minimal
Project Description: Design and construction of street lighting in urban areas of the city.

Project Name: Morse Rd (Phase II) System Improvements, Circuit 7221
Type: Non-recurring
Estimated 2017 Cost: \$350,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Construction of overhead electrical lines on both the north and south sides of Morse Road from Karl Road to Cleveland Avenue.

Project Name: Morse Rd (Phase III & IV) System Improvements
Type: Non-recurring
Estimated 2017 Cost: \$350,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Construction of overhead electrical lines near Morse Road from High Street to Indianola Avenue.

Project Name: Substation Kilovolts (kV) 69 kV & 138 kV Oil Circuit Breakers (OCB) Replacement to SF6 2017
Type: Non-recurring
Estimated 2017 Cost: \$180,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Replacement of obsolete 69 kV oil circuit breakers to improve the overall city electrical system.

Project Name: Dublin Avenue Substation Security Fence
Type: Non-recurring
Estimated 2017 Cost: \$400,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Replacement of the existing chain link fencing around the Dublin Avenue substation.

Project Name: Alternate kilovolts (kV) 69 kV Feed to West Substation
Type: Non-recurring
Estimated 2017 Cost: \$2,860,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Acquisition and engineering related to providing an alternate 69 kV transmission line to the west substation to improve reliability.

Capital Improvements Program

Project Name: Valleyview Street Lighting
Type: Non-recurring
Estimated 2017 Cost: \$360,640
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Installation of 98 overhead street lights in Valleyview Heights.

Project Name: New Jackson Pike Substation Transformer
Type: Non-recurring
Estimated 2017 Cost: \$2,000,000
Funding Source: Voted 2013 Electricity G.O. Bonds; Councilmanic Electricity G.O. Bonds
Operating Impact: None
Project Description: Replacement of the existing Jackson Pike Substation Transformer that is at the end of its projected life.

Project Name: Oil Switch Replacement Program 2017
Type: Recurring
Estimated 2017 Cost: \$120,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of all downtown 4-way and 5-way oil switches with 5-way SF6 gas switches.

Project Name: Hall Road Street Lighting
Type: Non-recurring
Estimated 2017 Cost: \$891,957
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Installation of approximately 64 street lights along Hall Road.

Project Name: Broad Street & Noe Bixby Street Lighting
Type: Non-recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights in the Broad Street/Noe Bixby Road area.

Project Name: Morningstar & North Forty Street Lighting
Type: Non-recurring
Estimated 2017 Cost: \$76,775
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights in the area bounded by Sullivant Avenue, Galloway Road, Corral Gate Court, and Countrie View Court.

Capital Improvements Program

Project Name:	Cleveland Avenue Street Lighting
Type:	Non-recurring
Estimated 2017 Cost:	\$50,000
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Design for potential installation of street lights on Cleveland Avenue from Minerva Lake Road to Community Park Drive.
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Project Name:	Westerville Road Street Lighting
Type:	Non-recurring
Estimated 2017 Cost:	\$65,000
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Design for potential installation of street lights on Westerville Road from Johnny Appleseed Court to SR-161.
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Project Name:	Smoky Row Street Lighting
Type:	Non-recurring
Estimated 2017 Cost:	\$61,050
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Design for potential installation of street lights on Smoky Row Road from Worthington Woods Boulevard to Snouffer Road.
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Project Name:	Dublin-Granville Road/Deewood/Maple Street Lighting
Type:	Non-recurring
Estimated 2017 Cost:	\$972,214
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Installation of approximately 127 street lights in the area bounded by Cleveland Avenue, Dublin Granville Road, Maple Canyon Avenue, and Jewett Drive.
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Project Name:	General Construction Administration and Inspection – Power
Type:	Recurring
Estimated 2017 Cost:	\$50,000
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Construction administration and inspection costs related to various power projects on an as needed basis.
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Project Name:	Security & Emergency Preparedness – Power
Type:	Recurring
Estimated 2017 Cost:	\$25,000
Funding Source:	Voted 2013 Electricity G.O. Bonds
Operating Impact:	None
Project Description:	Development of a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.

Capital Improvements Program

Project Name: Department of Public Utilities Hazardous Energy Control (Power)
Type: Non-recurring
Estimated 2017 Cost: \$50,000
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Funding for audit and energy control procedure development for multiple facilities.

Electricity subtotal - \$9,417,636

Water

Project Name: Indianola Exterior Site Improvements
Type: Non-recurring
Estimated 2017 Cost: \$4,300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Construction of site improvements at the 3500 and 3568 Indianola Avenue facilities, including pavement, drainage, lighting, security, and parking improvements.

Project Name: Rinehart Public Utilities Complex Exterior Site Improvements
Type: Non-recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design of exterior site improvements located at 910 Dublin Road.

Project Name: Indianola Facility Restroom Renovation
Type: Non-recurring
Estimated 2017 Cost: \$566,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Renovation of the restrooms at the 3500 and 3568 Indianola Avenue facilities.

Project Name: Distribution Maintenance Area Improvements
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Construction of recommended improvements to provide a safe working environment.

Project Name: Home Road Property Demolition
Type: Non-recurring
Estimated 2017 Cost: \$4,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Demolition of city owned structures and remediation of land located on Home Road for eventual re-development purposes.

Project Name: 910 Dublin Road Windows & Exterior Insulation Finishing System (EIFS) Improvements
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Exterior window improvements at the 910 Dublin Road location. Windows are damaged and past their useful life.

Capital Improvements Program

Project Name: Water Main Rehabilitation
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for general rehabilitation of water distribution lines to eliminate poor fire flow capabilities and poor water quality.

Project Name: Silver Drive Area Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$3,800,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Silver Drive to eliminate poor fire flow capabilities and improve water quality.

Project Name: South Broadleigh Road Area Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$4,800,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of South Broadleigh Road to eliminate poor fire flow capabilities and improve water quality.

Project Name: Maize Road Area Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$3,500,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Maize Road to eliminate poor fire flow capabilities and improve water quality.

Project Name: Shattuck Avenue Area Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$3,500,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Shattuck Avenue to eliminate poor fire flow capabilities and improve water quality.

Project Name: Smith Road Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$830,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of the waterline on Smith Road between Lockbourne Road and Fairwood Avenue.

Capital Improvements Program

Project Name: Argyle Drive Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$3,000,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Argyle Drive to eliminate poor fire flow capabilities and improve water quality.

Project Name: Dawnlight Avenue Area Waterline Improvements
Type: Non-recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Dawnlight Avenue to eliminate poor fire flow capabilities and improve water quality.

Project Name: O'Shaughnessy Hydroelectric – Federal Energy Regulatory Committee
Type: Non-recurring
Estimated 2017 Cost: \$725,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering review of the O'Shaughnessy Hydroelectric facility and any related improvements mandated by the Federal Energy Regulatory Committee.

Project Name: Dublin Road Water Plant (DRWP) Miscellaneous Improvements – Flocculation Drive Replacement Part 2
Type: Non-recurring
Estimated 2017 Cost: \$750,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Replacements of the flocculation basin drive mechanism at the two sedimentation floc tanks and the two softening flocculation tanks.

Project Name: DRWP Miscellaneous Improvements – Basin Clarifier Rehab
Type: Non-recurring
Estimated 2017 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design of clarifier improvements for several basins in which the clarifier drives are past their useful life.

Project Name: Hap Cremean Water Plant (HCWP) Miscellaneous Improvements – Concrete Improvements
Type: Non-recurring
Estimated 2017 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replacement of concrete steps, ramps, and walkways at the HCWP.

Capital Improvements Program

Project Name: HCWP Basin Concrete Rehab
Type: Non-recurring
Estimated 2017 Cost: \$12,600,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design and construction of the rehabilitation of deteriorated concrete and replacement of handrail and basin gates.

Project Name: Watershed Misc. Improvements – Hoover Dam Improvements
Type: Non-recurring
Estimated 2017 Cost: \$750,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Construction of improvements identified in the Independent Consultant Inspection.

Project Name: Watershed Misc. Improvements – Boat Launch Improvements
Type: Non-recurring
Estimated 2017 Cost: \$300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design of improvements to the boat launch facilities at Griggs Reservoir, Hoover Reservoir, and O'Shaughnessy Reservoir.

Project Name: Hoover Dam Improvements Part 1
Type: Non-recurring
Estimated 2017 Cost: \$350,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Various improvements at the Hoover Dam location which include, but are not limited to HVAC and dehumidifier replacement, electrical repair, and electrical upgrades to address existing conditions.

Project Name: Watershed Misc. Improvements – Griffiths Lane Erosion Control
Type: Non-recurring
Estimated 2017 Cost: \$400,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Installation of erosion control measure in the O'Shaughnessy Reservoir to mitigate shoreline erosion.

Project Name: Parsons Avenue Water Plant (PAWP) Sludge Removal – Land Acquisition
Type: Non-recurring
Estimated 2017 Cost: \$425,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Purchase of land for the disposal of sludge removed from the lagoons at PAWP.

Capital Improvements Program

Project Name: O'Shaughnessy Hydroelectric Improvements
Type: Non-recurring
Estimated 2017 Cost: \$2,200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Improvements associated with the turbines located at the O'Shaughnessy Hydroelectric Plant.

Project Name: General Engineering Services – Supply Group 2015A; 2015B
Type: Recurring
Estimated 2017 Cost: \$700,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for general engineering on various capital projects when needed.

Project Name: Booster Station and Water Tank Improvements
Type: Recurring
Estimated 2017 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for booster station and tank improvements to allow for timely replacement of mechanisms to ensure water tanks continue to operate safely.

Project Name: Water Tank Overflow Improvements
Type: Recurring
Estimated 2017 Cost: \$150,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design and construction of overflow modifications on various water tanks as required by the Ohio Environmental Protection Agency.

Project Name: Security Enhancements
Type: Recurring
Estimated 2017 Cost: \$3,200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Security enhancements necessary at various water facilities throughout the city.

Project Name: HCWP Hypochlorite Disinfection Improvements
Type: Non-recurring
Estimated 2017 Cost: \$1,200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design and construction of improvements to the disinfection storage and feed facilities to provide for an alternate disinfectant.

Capital Improvements Program

Project Name: PAWP Hypochlorite Disinfection Improvements
Type: Non-recurring
Estimated 2017 Cost: \$622,487
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design and construction of improvements to the disinfection storage and feed facilities to provide for an alternate disinfectant.

Project Name: PAWP Treatment Upgrades
Type: Non-recurring
Estimated 2017 Cost: \$1,800,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replacement of equipment that has reached the end of its useful life.

Project Name: HCWP Window Replacement
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replacement of windows at the pump building, chemical feed building, and the filter building at HCWP.

Project Name: HCWP Intake Structure & Low Head Dam Rehabilitation
Type: Non-recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering assessment and construction needed to ensure continued functionality.

Project Name: PAWP HVAC Improvements
Type: Non-recurring
Estimated 2017 Cost: \$250,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Engineering and design of HVAC improvements at PAWP.

Project Name: HCWP Standby Power
Type: Non-recurring
Estimated 2017 Cost: \$14,075,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Undetermined at this time
Project Description: Design and construction of standby power systems at the HCWP to ensure the ability to provide a reliable supply of water during power outages.

Capital Improvements Program

Project Name: DRWP Standby Power
Type: Non-recurring
Estimated 2017 Cost: \$13,200,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Undetermined at this time
Project Description: Design and construction of standby power systems at the DRWP to ensure the ability to provide a reliable supply of water during power outages.

Project Name: Water Main Repair
Type: Recurring
Estimated 2017 Cost: \$900,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for emergency replacement of water mains if necessary.

Project Name: Fire Hydrant Replacements
Type: Recurring
Estimated 2017 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation and replacement of fire hydrants to ensure there is adequate volumes for fire protection.

Project Name: General Engineering Services – Distribution Group
Type: Recurring
Estimated 2017 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering services on an as needed basis for capital projects.

Project Name: HCWP UV Disinfection
Type: Non-recurring
Estimated 2017 Cost: \$14,500,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Undetermined at this time
Project Description: To provide for the addition of ultraviolet disinfection in the water treatment process.

Project Name: Reservoirs Bathymetric Study
Type: Non-recurring
Estimated 2017 Cost: \$270,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Evaluation of the existing reservoirs to establish storage capacity and current underwater depth.

Capital Improvements Program

Project Name:	General Architectural Services
Type:	Recurring
Estimated 2017 Cost:	\$300,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Architectural and design services on an as needed basis for various capital improvement projects.
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Project Name:	Professional Construction Management (PCM) Part II
Type:	Recurring
Estimated 2017 Cost:	\$6,150,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Construction management costs associated with the Division of Water capital improvement projects.
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Project Name:	Security & Emergency Preparedness – Division of Water
Type:	Recurring
Estimated 2017 Cost:	\$100,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	Undetermined at this time
Project Description:	Development of a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.
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Project Name:	Land Stewardship Update
Type:	Recurring
Estimated 2017 Cost:	\$250,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Redesign of the current land stewardship program and establishment of specifications to address identified issues and concerns.
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Project Name:	Ozone-Biologically Active Filtration (BAF) Optimization Study
Type:	Non-recurring
Estimated 2017 Cost:	\$250,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Detailed evaluation of the DRWP and the HCWP to evaluate current processes and determine ways to best optimize monitoring, control, and water quality.

Water subtotal - \$110,613,487

Public Utilities Total - \$374,480,751

2017 Capital Improvement Budget Total - \$473,880,751

Significant Non-Recurring Projects

Fire Station #2

Department: Public Safety
Construction Management
Planning Area: Downtown
Start Date: February 2016
Est. Completion Date: April 2017
Est. Cost: \$9,694,000
Est. Operating Impact: \$3,500,000 increase

This project included the demolition of the existing facility that housed both Fire Station #2 and Fire Station #3. Construction of a new fire station, the Mitchell J. Brown Fire Station #3, located at 222 Greenlawn Avenue was completed in 2015. This station currently houses personnel for both stations #2 and #3.

Construction of the new Fire Station #2, located at 150 East Fulton Street, began in February 2016. The redevelopment of this fire station will allow for additional medic personnel and reduced response times.



Architectural rendering of Fire Station #2. Construction is currently underway.

Fire Station #35

Department: Public Safety
Construction Management
Planning Area: Far East
Start Date: August 2017
Est. Completion Date: October 2018
Est. Cost: \$8,520,000
Est. Operating Impact: \$3,500,000 increase

As the population of the City of Columbus continues to grow, it was determined that the addition of a fire station was necessary to provide for the safety and well-being of citizens. On the far east side of the city, construction of a new fire station located at 711 Waggoner Road is scheduled to begin during the fall of 2017. The addition of a fire station will aid in reducing response times. This fire station will include four apparatus bays to house medic and fire engine vehicles.



Architectural rendering of Fire Station #35. Finalized design plans are currently underway.

Poindexter Village

Department: Development
Public Service
Public Utilities
Planning Area: Near East
Start Date: 2014
Est. Completion Date: 2019
Est. Cost: \$24,000,000
Est. Operating Impact: Minimal

Named after Reverend James P. Poindexter, pastor of the Second Baptist Church and the first African-American elected to Columbus City Council in 1880, Poindexter Village was one of the nation's first public housing projects. Poindexter Village is located on the city's near east side and is bounded by Mt. Vernon Avenue to the north, Ohio Avenue to the west, Long Street to the south, and Hughes Street to the east.

In 2014, the City of Columbus received a \$30 million Choice Neighborhood Implementation grant to develop additional housing in the area. The grant, along with the city matching funds, includes the addition of 104 senior living units and 345 mixed-income housing units.

In addition to housing, the project provides for the construction of new water mains to ensure water quality and safety, storm sewers, new sidewalks, improved roadways, street trees, and new street lighting.



Photograph of the newly added housing units in the Poindexter Village area, currently under construction.

American Addition

Department: Development
Public Service
Planning Area: South Linden
Start Date: June 2011
Est. Completion Date: Fall 2017
Est. Cost: \$10,440,000
Est. Operating Impact: Minimal

American Addition is an older neighborhood in the City of Columbus and spans 55-acres in size with 237 parcels. A partnership with the city and Homeport, a non-profit organization, was formed and will produce 100-150 new housing units on the vacant parcels. Infrastructure improvements to the 8 streets in this neighborhood will be constructed by the city and include new roadway surfaces, new curbs, gutters, curb ramps, sidewalks, rain gardens, street trees and street lights. Alley surfaces will also be reconstructed as new concrete.

Funding for the housing portion of the project was available from the Affordable Housing Trust, The Enterprise Foundation, The Ohio Community Development Finance Fund, and NeighborWorks of America.



Reconstructed sidewalks and roadways along with added housing available from the American Addition project.

Driving Park Recreation Center

Department: Recreation and Parks
Planning Area: Near South
Start Date: June 2015
Completion Date: September 2016
Est. Cost: \$10,200,000
Est. Operating Impact: \$98,000 annual increase

This project included the facility renovations that increased the size of the recreation center by 16,000 sq. ft. for a total of 28,473 sq. ft. Improvements included the addition of a new full size gymnasium, fitness center, game room, office, restrooms, kitchen, and lobby. The existing gym was converted into a smaller gym that includes storage and an additional classroom. The existing classrooms were also upgraded.

Along with the improvements to the recreation center, a new 8,000 sq. ft. swimming pool was added which features a six lane competition area, zero entry, two slides, spray structures, a dive well, and two shade structures.

The facility had its grand re-opening on September 10, 2016.



Photograph of the completed Driving Park Recreation Center. Construction completed in 2016.

Indian Village – Wyandot Lodge

Department: Recreation and Parks
Planning Area: West Scioto
Start Date: July 2016
Est. Completion Date: May 2017
Est. Cost: \$3,070,000
Est. Operating Impact: Minimal

This project includes the construction of a new facility that will total approximately 5,000 sq. ft. This facility will operate as a 'net-zero energy' facility for the Recreation and Parks Department Outdoor Education Program. The building will feature geo-thermal heat pumps, increased insulation, and photo-voltaic solar panels. The building will feature a central activity room as well as a pair of classrooms, offices, and storage. This will allow for the expansion of year round natural resource education and programs. In addition to the indoor facility, an outdoor programming area with a fireplace will also be provided.



Architectural rendering of the finished Indian Village – Wyandot Lodge facility

Lashutka Event Center

Department: Recreation and Parks
Planning Area: West Olentangy
Start Date: December 2015
Est. Completion Date: November 2016
Est. Cost: \$2,160,000
Est. Operating Impact: \$26,000 annual increase

Renovation and expansion of the approximately 200 year old historic structure. The renovation will allow it to function as a facility that will be available for rent for public use. The facility will feature a large event room that will have space to accommodate approximately 50 people at tables and chairs as well as a meeting room that will accommodate approximately 15 people. In addition to the facility, there is also an outdoor patio space with views of the Griggs Reservoir. An additional \$700,000 of capital funding for this project was available from the Public Utilities department. The Lashutka Event Center is expected to open in the Fall of 2016.



Lashutka Event Center, currently under construction. Projected completion date of November 2016.

Indian Mound Recreation Center

Department: Recreation and Parks
Planning Area: Far South
Start Date: Summer 2017
Est. Completion Date: Fall 2018
Est. Cost: \$7,200,000
Est. Operating Impact: \$96,000 annual increase

This project will replace the existing 10,000 sq. ft. facility with a new building that will include a large gymnasium with bleachers, a fitness room, kitchen, classroom, art and ceramics room, game room, restrooms, a multi-purpose room, reconstructed lobby, and a new office area. This project is currently in design, and construction is estimated to start during the summer of 2017.



Photograph of the current Indian Mound Recreation Center. This facility is scheduled to be updated and replaced beginning in 2017.

Hague Avenue Rehabilitation – Broad Street to Sullivant Avenue

Department: Public Service
Planning Area: Hilltop
Start Date: May 2016
Est. Completion Date: May 2017
Est. Cost: \$3,500,000
Est. Operating Impact: Minimal

This project consists of reconstructing Hague Avenue between Broad Street and Sullivant Avenue and providing improvements to pavement, curb, sidewalk, bike facilities, accessible crossings, traffic control, and stormwater facilities. Curb extensions will be added at several intersections. Trees in the right-of-way will be planted where feasible.



Removal of existing roadway to prepare for improvements along Hague Avenue.

Hamilton Road “S” Curve

Department: Public Service
Planning Area: Rocky Fork - Blacklick
Start Date: April 2016
Est. Completion Date: May 2018
Est. Cost: \$7,806,000
Est. Operating Impact: Minimal

This project consists of the realignment of N. Hamilton Road from a point along existing N. Hamilton Road approximately 500' north of Menerey Lane/Preserve Boulevard to the easternmost Hamilton/Dublin-Granville Road intersection. The existing roadway network does not have the capacity to support significant development. This project will provide a new roadway that can support the development and will provide a more direct route for N. Hamilton Road traffic traveling to and from State Route 161. This project is consistent with the Columbus Thoroughfare Plan, the Mid-Ohio Regional Planning Commission's Metropolitan Transportation Plan, and the Northland Plan Volume II. It will also advance the Preliminary Engineering Source Document completed in 2013.



Aerial photograph of construction in progress of a new round-about for the N. Hamilton Road “S” curve at State Route 161.

Joyce Avenue Rehabilitation

Department: Public Service
Public Utilities
Planning Area: South Linden
Start Date: March 2012
Est. Completion Date: Summer 2017
Est. Cost: \$23,275,000
Est. Operating Impact: Minimal

The Joyce Avenue rehabilitation project is a multi-phase project that began in 1997. Phase 1 included the reconstruction of East Hudson Street from east of Cleveland Avenue to east of Joyce Avenue. Joyce Avenue was reconstructed from north of East Hudson Street to north of Kenmore Avenue. A shared use path, sidewalks, curbs, new waterlines, and storm sewer system were also included. Phase 2 consisted of additional reconstruction of Joyce Avenue from north of 17th Avenue to 12th Avenue as well as reconstruction of portions of 17th Avenue. Shared use paths, sidewalks, curb ramps, and waterlines and storm sewer improvements were also included. The final Phase 3 consists of the reconstruction of Joyce Avenue from north of 17th to Kenmore Avenue. This phase of the project will include a shared use path, curbs, and a bike path.

Additional grant funding, totaling approximately \$6,000,000, was available for the various phases of this project from the Ohio Public Works Commission.



Photograph of the newly rehabbed Joyce Avenue, along with new sidewalks and street trees.

Hard Road Phase A – Sawmill to Smoky Row

Department: Public Service
Planning Area: Far Northwest
Start Date: May 2015
Est. Completion Date: October 2016
Est. Cost: \$16,562,000
Est. Operating Impact: Minimal

This project will widen Hard Road from two lanes to five lanes. The length of the project is approximately 1.2 miles from Sawmill Road to 387 feet west of Smoky Row Road. This project will include full depth roadway replacement, sidewalks, provisions for bicycle traffic, curb, storm sewer, traffic signals, street lighting and landscaping. The construction of this project will receive federal funding. This remaining phase will match this segment with the other 2 segments that have already been or are in the construction phase of widening.



Photograph of roadwork preparation for the Hard Road project.

Fifth Avenue Bridge

Department: Public Service
Planning Area: West Scioto
Start Date: May 2015
Est. Completion Date: May 2016
Est. Cost: \$9,725,000
Est. Operating Impact: Minimal

This project included the replacement of the existing four lane bridge for Fifth Avenue over the Scioto River. The project also included an extension of the Scioto Trail between Dublin Road and McKinley Avenue on the south side of Fifth Avenue. Additional improvements include a shared use path, sidewalks, curbs, curb ramps, signal improvements, lighting, and street trees.

Additional funding for this project was available through a grant from the Ohio Department of Transportation in the amount of \$2,495,000 and from the Mid-Ohio Regional Planning Commission in the amount of \$2,231,000.



The newly constructed Fifth Avenue bridge over the Scioto River.

SWWTP Biosolids Land Application Facility

Department: Public Utilities – Sanitary
Planning Area: Citywide
Start Date: June 2015
Est. Completion Date: December 2016
Est. Cost: \$38,500,000
Est. Operating Impact: None

Facility improvements located at the SWWTP provide a biosolids land application program that was originally recommended by the 2009 Solids Treatment and Utilization Master Plan. This project will facilitate the maximum beneficial agricultural use by land application of the plant's biosolids. This project provides for the construction of new liquid storage tanks, pumping equipment, piping, a load-out facility, and an odor control system. Funding for this project was provided through a WPCLF loan.



Photograph of the Truck load-out portion of the Southerly Waste Water Treatment Plant.

Dublin Avenue Substation Control/Switchgear Building

Department: Public Utilities
Planning Area: Downtown
Start Date: May 2013
Est. Completion Date: May 2016
Est. Cost: \$6,640,000
Est. Operating Impact: Minimal

During two phases, this project incorporated the construction of the Control / Switchgear building vault and foundation, construction of underground concrete electrical duct banks, along with manholes and vaults at the substation site and within Spring Street, Long Street, and the Lower Scioto greenway. In addition, the purchase and installation of the control wire and power cable to be able to replace the existing obsolete 15 kV switchgear. This project provided a new prefabricated Control/Switchgear building that will help the reliability of power to DRWP and city electricity customers.



Crews work through the night to install the new foundation for the Dublin Avenue Substation.

DRWP Capacity Increase Project

Department: Public Utilities
Planning Area: Citywide
Start Date: 2013
Est. Completion Date: 2018
Est. Cost: \$200,000,000
Est. Operating Impact: \$500,000 - \$750,000 annual increase

Broken into five phases, the DRWP Capacity Increase project includes the construction of a new electrical substation, new sludge pump station, new sludge force main, and new underdrains and new Granular Activated Carbon (GAC) media that currently has nine of 18 filters online. Once this project is completed in 2017, the plant capacity will increase to 80 million gallons of water per day and provide new treatment processes that will enhance water quality and increase treatment reliability.



Construction on the new ion exchange treatment portion of the DRWP Capacity Increase.

HCWP Treatment Improvements Project

Department: Public Utilities
Planning Area: Citywide
Start Date: 2012
Est. Completion Date: 2017
Est. Cost: \$74,000,000
Est. Operating Impact: \$750,000 - \$1,000,000
annual increase

The HCWP Treatment Improvements project adds new treatment processes to enhance water quality and improve process control. Treatment improvements include softening, recarbonation, ozone facilities improvements, and new biological filters. Once completed, the project will enhance compliance with the Stage 2 Disinfectants Byproduct Rule and taste-and-odor control. The new facilities will be LEED certified.



Construction of a portion of the water treatment improvements located at HCWP.

PAWP Treatment Upgrades Project

Department: Public Utilities
Planning Area: Citywide
Start Date: 2015
Est. Completion Date: 2018
Est. Cost: \$65,000,000
Est. Operating Impact: Minimal increase

Construction began in 2016 on the PAWP Treatment Upgrades project, which will renovate or replace aging treatment structures, equipment, and systems to improve treatment process reliability. Reliability improvements include the replacement and rehabilitation of clarifier mechanisms, new recarbonation equipment, filter media replacements, new chemical handling systems, and a new electrical substation. Construction also includes the replacement of two aging well pumps and the addition of one new pump that will increase capacity.



Installation of a new clearwell at PAWP. This will increase the reliability of the water supply system.

Capital Improvements Program

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