

Capital Improvement 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.

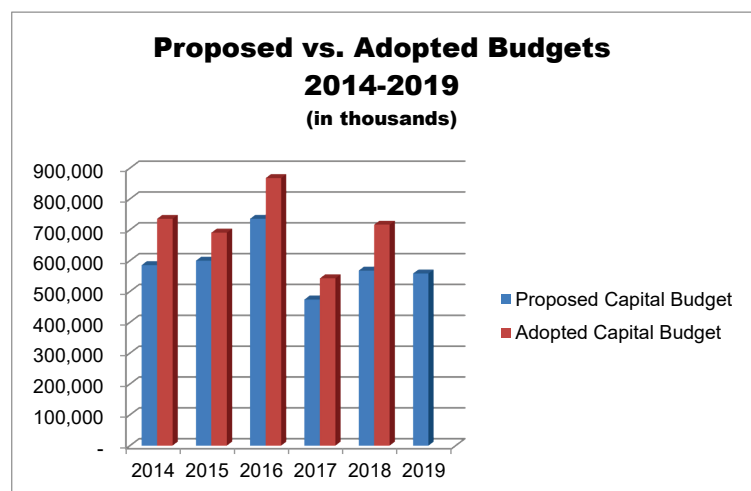
To be eligible for capital improvements funding (i.e. from the issuance of debt), a capital project must result in the acquisition of an asset with a useful life of at least five years and be considered non-operational in nature. The asset should have a cost of \$5,000 or more. In addition to acquisition,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



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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.

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 three to five 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.

The most recently approved bond package was on the November 8, 2016 ballot. The voters approved four separate bond issues totaling \$950 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 and Health, Recreation and Parks, Public Service, and Public Utilities. The city has utilized \$388 million of the 2016 voted authority. In addition, the city also has \$152 million remaining authority from the 2013 voted bond package. The tables below show the remaining voted authority, by purpose, as of October 25, 2018.

Voted Bond Packages				
(000's omitted)				
Purpose	2013		2016	
	Amount Authorized	Amount Remaining	Amount Authorized	Amount Remaining
Safety and Health	\$ 52,500	\$ -	\$ 70,000	\$ 30,900
Recreation and Parks	123,910	-	110,000	60,265
Public Service	220,300	-	310,000	30,370
Public Utilities	445,295	151,925	460,000	440,405
Total	\$ 842,005	\$ 151,925	\$ 950,000	\$ 561,940

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

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.

Funding the Capital Improvement Program

The city deposits 25 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 2019, SIT income tax deposits are currently projected at approximately \$230.0 million. This amount will be revised when the final 2018 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 \$16.8 million for 2019.

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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 2018 to 2027.

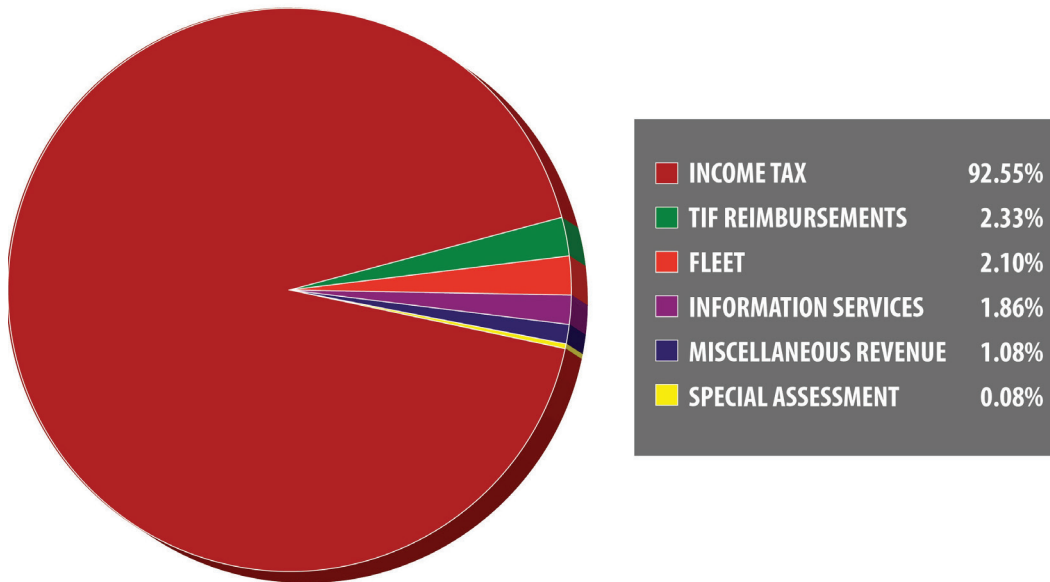
Capital projects for enterprise agencies are funded primarily through user fees. The determination of the ability to fund enterprise projects is done at the department level. These debt service projections are included in the individual department pro formas.

Coverage Factor

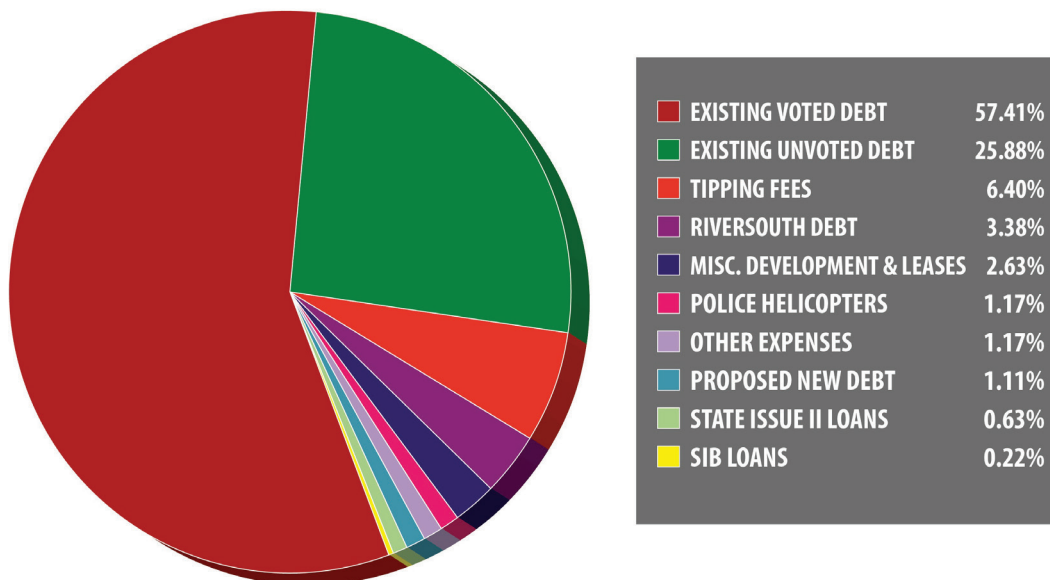
The SIT fund's available capacity for new debt, and its ability to service existing debt, is expressed as its coverage factor. Coverage, depicted within the SIT analysis, is a ratio of revenues to expenditures and provides a minimum level at which a fund balance should be maintained for contingency purposes. 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 a 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 2019 BUDGET

Revenues



Expenditures



Debt Limitations and Obligations

The following explanation of “Debt Limitations” has been extracted from the city’s Official Statement dated October 17, 2018.

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 (5.5%) 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 (10.5%) 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 Franklin County Budget Commission pursuant to

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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 unvoted general obligation debt is expected to be paid from special assessments, utility earnings or other non-tax revenue sources. However, revenue bonds and notes and other special obligations of an issuer, payable solely from specifically pledged revenues, are not included in calculating debt subject to the ten mill limitation because the debt is not general obligation indebtedness of the issuer and the full faith and credit of the issuer is not 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.

The following table represents the estimated inside millage requirements for the City and its overlapping subdivisions as of October 17, 2018 for Franklin, Fairfield, and Delaware Counties. Other political subdivisions within Franklin, Fairfield or Delaware County may issue unvoted general obligation debt which would cause the requirements below to change. However, any such issues, including those of the City, will not exceed the indirect debt limit under Ohio law. Currently, the city has \$520.32 million of outstanding debt subject to the indirect debt limitation.

Political Subdivision of State of Ohio	Mills Required		
	Franklin County	Fairfield County	Delaware County
Direct			
City of Columbus	3.1162	4.5464	4.5464
Overlapping			
County	0.7814	1.6682	0.4422
School District	2.5686	-	0.2173
Joint Vocational School District	-	0.0455	-
Solid Waste Authority of Central Ohio	0.2575	0.2571	0.2864
Township	2.1310	-	-
Total Millage Required	8.8546	6.5172	5.4923
Maximum Millage Permitted	10.0000	10.0000	10.0000
Remaining Millage Capacity	1.1454	3.4828	4.5077

Debt Service Payments

During fiscal year 2018, the city will have retired approximately \$248.1 million in principal of general obligation debt and issued an additional \$405.8 million in general obligation bonds and notes. Along with issuing new debt, the city refunds existing debt to try and achieve the maximum amount of savings possible. As of October 17, 2018, beginning with fiscal year 2019, approximately 69.02 percent of the principal payments on the city's outstanding general obligation and revenue bonds will fully mature within the next ten years. The table below demonstrates the debt service schedule for existing general obligation bonds and revenue bonds and is exclusive of OWDA outstanding balances.

EXISTING DEBT SERVICE GENERAL OBLIGATION AND REVENUE BONDS			
Period Ending	Principal	Interest	Total
2019	\$ 248,916,092	\$ 135,866,846	\$ 384,782,938
2020	264,221,092	126,750,962	390,972,054
2021	254,696,091	116,636,901	371,332,992
2022	245,391,091	105,864,390	351,255,481
2023	234,123,271	95,947,669	330,070,940
2024	232,253,271	84,701,128	316,954,399
2025	238,528,271	75,517,859	314,046,130
2026	212,948,271	65,250,798	278,199,069
2027	195,933,271	54,758,342	250,691,613
2028	207,708,270	45,854,803	253,563,073
2029	211,885,000	37,329,544	249,214,544
2030	201,840,000	28,448,551	230,288,551
2031	192,505,000	20,471,344	212,976,344
2032	172,205,000	13,924,545	186,129,545
2033	85,910,000	9,424,348	95,334,348
2034	63,700,000	6,388,937	70,088,937
2035	46,435,000	4,052,549	50,487,549
2036	30,980,000	2,554,516	33,534,516
2037	23,940,000	1,432,354	25,372,354
2038	12,505,000	570,924	13,075,924
2039	6,200,000	155,000	6,355,000
Total	\$ 3,382,823,991	\$ 1,031,902,310	\$ 4,414,726,301
Note: Interest payments associated with variable rate debt are not included.			

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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	2019	2020	2021	2022	2023	Total
SIT Fund Supported	\$ 208,617,250	\$ 217,928,195	\$ 205,817,263	\$ 193,804,788	\$ 173,736,179	\$ 999,903,675
Non-Enterprise Sub Total	\$ 208,617,250	\$ 217,928,195	\$ 205,817,263	\$ 193,804,788	\$ 173,736,179	\$ 999,903,675
Enterprise Funds						
Water	\$ 76,437,506	\$ 74,126,386	\$ 70,222,261	\$ 65,243,586	\$ 60,554,311	\$ 346,584,050
Sanitary Sewer	74,429,405	74,807,934	73,353,557	71,852,835	76,826,133	371,269,864
Storm	14,926,941	13,989,652	12,714,701	12,044,298	11,376,463	65,052,055
Electricity	681,920	797,156	773,075	753,993	734,661	3,740,805
Enterprise Sub Total	\$ 166,475,772	\$ 163,721,128	\$ 157,063,594	\$ 149,894,712	\$ 149,491,568	\$ 786,646,774
Internal Service Funds						
Fleet Management	\$ 5,200,387	\$ 4,752,105	\$ 4,533,465	\$ 4,414,701	\$ 4,283,936	\$ 23,184,594
Information Services	4,489,529	4,570,626	3,918,670	3,141,280	2,559,257	18,679,362
Internal Service Sub Total	\$ 9,689,916	\$ 9,322,731	\$ 8,452,135	\$ 7,555,981	\$ 6,843,193	\$ 41,863,956
Total	\$ 384,782,938	\$ 390,972,054	\$ 371,332,992	\$ 351,255,481	\$ 330,070,940	\$ 1,828,414,405
* Interest payments associated with variable rate debt are not included.						

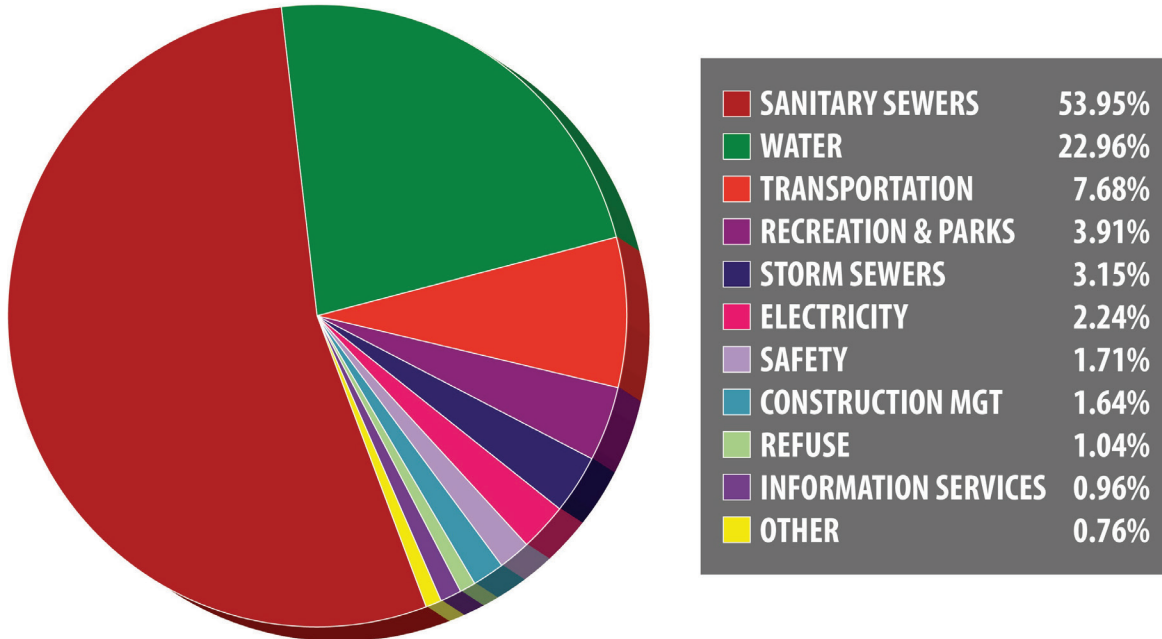
The Proposed 2019-2024 Capital Improvement Program

The proposed Capital Improvement Program provides approximately \$3.50 billion in funding for various capital improvements for the period of 2019-2024. Of this amount, \$583.11 million is to be supported by the SIT while \$2.87 billion will be supported by the enterprise agencies of the city. The proposed 2019-2024 CIP represents a 13.6 percent increase over the adopted 2018-2023 CIP. The proposed 2019 CIB totals approximately \$558.16 million.

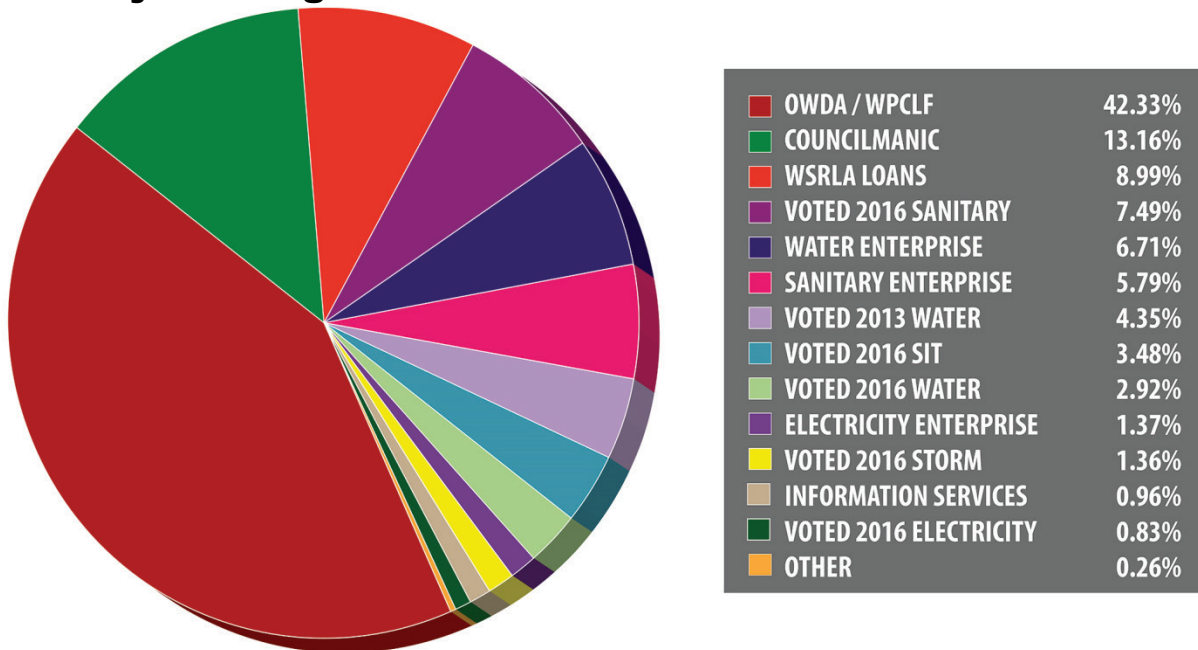
The administration intends to continue to review the proposed CIP through the end of the year. It is possible that adjustments to the proposed plan could occur to accommodate changes in priorities and financial assumptions.

PROPOSED 2019-2024 CAPITAL IMPROVEMENTS PROGRAM

CIP % by Division



CIP % by Funding Source



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2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM									
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source	
PUBLIC SAFETY									
POLICE									
30-03 Police Facility Renovation	\$ -	\$ -	\$ -	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 5,040,000	Councilmanic SIT Supported	
30-03 Police Facility Renovation	1,680,000	1,680,000	1,680,000	-	-	-	5,040,000	Voted 2016 Debt SIT Supported	
Real Time Crime Center	1,000,000	-	-	-	-	-	1,000,000	Voted 2016 Debt SIT Supported	
Subtotal - POLICE	\$ 2,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 11,080,000		
FIRE									
30-04 Fire Facility Renovation	-	-	-	1,320,000	1,320,000	1,320,000	3,960,000	Councilmanic SIT Supported	
30-04 Fire Facility Renovation	1,320,000	1,320,000	1,320,000	-	-	-	3,960,000	Voted 2016 Debt SIT Supported	
Fire Apparatus Replacement - Medics	-	-	1,780,000	2,000,000	2,000,000	2,000,000	7,780,000	Councilmanic SIT Supported	
Fire Apparatus Replacement - Medics	2,000,000	2,000,000	220,000	-	-	-	4,220,000	Voted 2016 Debt SIT Supported	
Fire Apparatus Replacement - Platform Ladders	-	-	-	2,000,000	2,000,000	2,000,000	6,000,000	Councilmanic SIT Supported	
Fire Apparatus Replacement - Platform Ladders	2,000,000	2,000,000	2,000,000	-	-	-	6,000,000	Voted 2016 Debt SIT Supported	
Fire Apparatus Replacement - Engines	-	-	-	2,000,000	2,000,000	2,000,000	6,000,000	Councilmanic SIT Supported	
Fire Apparatus Replacement - Engines	2,000,000	2,000,000	2,000,000	-	-	-	6,000,000	Voted 2016 Debt SIT Supported	
Fire Station #16	4,680,000	-	-	-	-	-	4,680,000	Voted 2016 Debt SIT Supported	
Subtotal - FIRE	\$ 12,000,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 7,320,000	\$ 48,600,000		
DEVELOPMENT									
DEVELOPMENT ADMINISTRATION									
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 - DEVELOPMENT ADMINISTRATION	\$ 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									
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	5,278,000	2,748,000	2,748,000	2,748,000	2,748,000	2,748,000	19,018,000	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	5,172,000	2,642,000	2,642,000	2,642,000	2,642,000	2,642,000	18,382,000	Councilmanic SIT Supported	
Municipal Court - Phased Renovations	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	13,200,000	Councilmanic SIT Supported	
Subtotal - CONSTRUCTION MANAGEMENT	\$ 13,750,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 57,200,000		
FLEET MANAGEMENT									
Fleet Automated Fuel Location Upgrades	100,000	100,000	100,000	100,000	100,000	100,000	600,000	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	300,000	600,000	600,000	600,000	600,000	600,000	3,300,000	Fleet Management (Unvoted)	
Fleet Vehicle Pooling	300,000	-	-	-	-	-	300,000	Fleet Management (Unvoted)	
Subtotal - FLEET MANAGEMENT	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 4,800,000		
TECHNOLOGY									
TECHNOLOGY ADMINISTRATION									
47-02 Data Center Facility Upgrades	1,460,000	1,490,000	1,200,000	140,000	200,000	250,000	4,740,000	Information Services	
47-02 Disaster Recovery Project	100,000	-	325,000	100,000	-	-	525,000	Information Services	
47-02 Connectivity Project Fiber/Wireless	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	Information Services	
47-02 CTSS Fiber Purchase B,C,D	-	900,000	-	1,000,000	-	1,500,000	3,400,000	Information Services	
47-02 Enterprise System Upgrades	425,000	400,000	375,000	1,000,000	650,000	1,300,000	4,150,000	Information Services	
Enterprise System Upgrades - Security Program	290,000	200,000	200,000	100,000	300,000	-	1,090,000	Information Services	
Enterprise System Upgrades - GIS	250,000	90,000	90,000	90,000	90,000	250,000	860,000	Information Services	
Enterprise System Upgrades - Applications	400,000	500,000	-	550,000	500,000	-	1,950,000	Information Services	
E-Gov Initiatives	100,000	450,000	-	250,000	250,000	-	1,050,000	Information Services	

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2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Media Services Equipment and Infrastructure	200,000	50,000	-	150,000	25,000	50,000	475,000	Information Services
Network Improvements	430,000	400,000	400,000	630,000	600,000	1,700,000	4,160,000	Information Services
Data Management Services	-	520,000	-	-	-	500,000	1,020,000	Information Services
Telephony and I/R Infrastructure	930,000	545,000	300,000	500,000	830,000	1,200,000	4,305,000	Information Services
Subtotal - TECHNOLOGY ADMINISTRATION	\$ 5,585,000	\$ 6,545,000	\$ 3,890,000	\$ 5,510,000	\$ 4,445,000	\$ 7,750,000	\$ 33,725,000	
RECREATION AND PARKS								
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51 Urban Infra.- Rec & Parks	-	-	-	753,200	753,200	753,200	2,259,600	Councilmanic SIT Supported
51 Urban Infra.- Rec & Parks	753,200	753,200	753,200	-	-	-	2,259,600	Voted 2016 Debt SIT Supported
51-01 Swimming Facilities	-	-	-	2,318,000	2,318,000	2,318,000	6,954,000	Councilmanic SIT Supported
51-01 Swimming Facilities	2,318,000	2,318,000	2,318,000	-	-	-	6,954,000	Voted 2016 Debt SIT Supported
HVAC Improvements - Various Facilities	-	-	3,150,000	3,150,000	3,150,000	3,150,000	12,600,000	Councilmanic SIT Supported
HVAC Improvements - Various Facilities	3,150,000	3,150,000	-	-	-	-	6,300,000	Voted 2016 Debt SIT Supported
Street Trees - Green Initiative	-	-	-	400,000	400,000	400,000	1,200,000	Councilmanic SIT Supported
Street Trees - Green Initiative	400,000	400,000	400,000	-	-	-	1,200,000	Voted 2016 Debt SIT Supported
Maintenance Equipment - Parks	250,000	-	-	-	-	-	250,000	Voted 2016 Debt SIT Supported
Bikeway Trail Safety - General	-	-	-	433,800	433,800	433,800	1,301,400	Councilmanic SIT Supported
Bikeway Trail Safety - General	433,800	433,800	433,800	-	-	-	1,301,400	Voted 2016 Debt SIT Supported
51-01 Greenways Projects	-	-	1,279,600	3,000,000	3,000,000	3,000,000	10,279,600	Councilmanic SIT Supported
51-01 Greenways Projects	3,000,000	3,000,000	1,720,400	-	-	-	7,720,400	Voted 2016 Debt SIT Supported
Watercourse Bike Path Development & Connection Improvements	-	-	-	1,000,000	1,000,000	1,000,000	3,000,000	Councilmanic SIT Supported
Watercourse Bike Path Development & Connection Improvements	1,000,000	1,000,000	1,000,000	-	-	-	3,000,000	Voted 2016 Debt SIT Supported
51-01 Safe Playgrounds	500,000	-	-	-	-	-	500,000	Voted 2016 Debt SIT Supported
Renovation - Misc.	-	-	3,645,400	3,645,400	3,645,400	3,645,400	14,581,600	Councilmanic SIT Supported
Renovation - Misc.	1,545,400	3,645,400	-	-	-	-	5,190,800	Voted 2016 Debt SIT Supported
Renovation - Cost Allocation	-	-	-	440,000	440,000	440,000	1,320,000	Councilmanic SIT Supported
Renovation - Cost Allocation	440,000	440,000	440,000	-	-	-	1,320,000	Voted 2016 Debt SIT Supported
Hard Surface Improvements	800,000	-	-	-	-	-	800,000	Voted 2016 Debt SIT Supported
Roof Improvements	800,000	-	-	-	-	-	800,000	Voted 2016 Debt SIT Supported
New Development - Misc.	-	-	-	1,011,200	1,011,200	1,011,200	3,033,600	Councilmanic SIT Supported
New Development - Misc.	661,200	1,011,200	1,011,200	-	-	-	2,683,600	Voted 2016 Debt SIT Supported
New Development - Cost Allocation	-	-	-	250,000	250,000	250,000	750,000	Councilmanic SIT Supported
New Development - Cost Allocation	250,000	250,000	250,000	-	-	-	750,000	Voted 2016 Debt SIT Supported
Blueways Development	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported
Acquisition - Misc.	-	-	-	1,742,400	1,742,400	1,742,400	5,227,200	Councilmanic SIT Supported
Acquisition - Misc.	1,742,400	1,742,400	1,742,400	-	-	-	5,227,200	Voted 2016 Debt SIT Supported
Acquisition - Cost Allocation	-	-	-	80,000	80,000	80,000	240,000	Councilmanic SIT Supported
Acquisition - Cost Allocation	80,000	80,000	80,000	-	-	-	240,000	Voted 2016 Debt SIT Supported
Small Capital Improvements - Cost Allocation	-	-	-	70,000	70,000	70,000	210,000	Councilmanic SIT Supported
Small Capital Improvements - Cost Allocation	70,000	70,000	70,000	-	-	-	210,000	Voted 2016 Debt SIT Supported
Small Capital Improvements - Golf Misc.	-	-	-	762,300	762,300	762,300	2,286,900	Councilmanic SIT Supported
Small Capital Improvements - Golf Misc.	762,300	762,300	762,300	-	-	-	2,286,900	Voted 2016 Debt SIT Supported
Small Capital Improvements - Sports Misc.	-	-	-	518,364	518,364	518,364	1,555,092	Councilmanic SIT Supported
Small Capital Improvements - Sports Misc.	518,364	518,364	518,364	-	-	-	1,555,092	Voted 2016 Debt SIT Supported
Small Capital Improvements - Permits Misc.	-	-	-	243,936	243,936	243,936	731,808	Councilmanic SIT Supported
Small Capital Improvements - Permits Misc.	243,936	243,936	243,936	-	-	-	731,808	Voted 2016 Debt SIT Supported
Large Scale Capital Improvements - Misc.	-	-	-	1,089,000	1,089,000	1,089,000	3,267,000	Councilmanic SIT Supported
Large Scale Capital Improvements - Misc.	1,089,000	1,089,000	1,089,000	-	-	-	3,267,000	Voted 2016 Debt SIT Supported
Large Scale Capital Improvements - Cost Allocation	-	-	-	50,000	50,000	50,000	150,000	Councilmanic SIT Supported
Large Scale Capital Improvements - Cost Allocation	50,000	50,000	50,000	-	-	-	150,000	Voted 2016 Debt SIT Supported
Emergency Repair - Misc.	-	-	-	1,089,000	1,089,000	1,089,000	3,267,000	Councilmanic SIT Supported
Emergency Repair - Misc.	1,089,000	1,089,000	1,089,000	-	-	-	3,267,000	Voted 2016 Debt SIT Supported

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)									
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source	
Emergency Repair - Cost Allocation	-	-	-	50,000	50,000	50,000	150,000	Councilmanic SIT Supported	
Emergency Repair - Cost Allocation	50,000	50,000	50,000	-	-	-	150,000	Voted 2016 Debt SIT Supported	
Quick Strike - Misc.	-	-	-	643,400	643,400	643,400	1,930,200	Councilmanic SIT Supported	
Quick Strike - Misc.	643,400	643,400	643,400	-	-	-	1,930,200	Voted 2016 Debt SIT Supported	
Quick Strike - Cost Allocation	-	-	-	40,000	40,000	40,000	120,000	Councilmanic SIT Supported	
Quick Strike - Cost Allocation	40,000	40,000	40,000	-	-	-	120,000	Voted 2016 Debt SIT Supported	
Subtotal - RECREATION AND PARKS	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 22,780,000	\$ 136,680,000		
Public Service									
TRANSPORTATION									
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	
UIRF - Milo Grogan Second Avenue Improvements	860,000	-	-	-	-	-	860,000	Councilmanic SIT Supported	
Street Equipment - Traffic Management	263,397	428,397	428,397	428,397	428,397	428,397	2,405,382	Councilmanic SIT Supported	
Street Equipment - Traffic Management	165,000	-	-	-	-	-	165,000	Voted 2016 Debt 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	
Intersection Improvements - James Road at Livingston Avenue	560,000	-	-	-	-	-	560,000	Councilmanic SIT Supported	
ADA Ramp Projects - 2018 General Engineering	250,000	-	-	-	-	-	250,000	Voted 2016 Debt SIT Supported	
Alley Rehabilitation - Misc.	850,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	8,350,000	Councilmanic SIT Supported	
Alley Rehabilitation - Misc.	1,500,000	-	-	-	-	-	1,500,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - SCMRF reimbursements	-	2,550,000	2,550,000	2,550,000	2,550,000	2,550,000	12,750,000	Councilmanic SIT Supported	
Roadway Improvements - SCMRF reimbursements	2,550,000	-	-	-	-	-	2,550,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Utility Relocation Reimbursements	-	100,000	100,000	100,000	100,000	100,000	500,000	Councilmanic SIT Supported	
Roadway Improvements - Utility Relocation Reimbursements	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Miscellaneous Construction Inspection	-	100,000	100,000	100,000	100,000	100,000	500,000	Councilmanic SIT Supported	
Roadway Improvements - Miscellaneous Construction Inspection	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Miscellaneous Right of Way Acquisition	-	100,000	100,000	100,000	100,000	100,000	500,000	Councilmanic SIT Supported	
Roadway Improvements - Miscellaneous Right of Way Acquisition	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Lazelle Road Phase C	1,300,000	-	-	-	-	-	1,300,000	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	1,500,000	-	-	-	-	-	1,500,000	Voted 2016 Debt SIT Supported	
Resurfacing - Resurfacing Projects	560,160	18,095,700	18,450,000	18,450,000	18,450,000	18,450,000	92,455,860	Councilmanic SIT Supported	
Resurfacing - Resurfacing Projects	11,040,000	-	-	-	-	-	11,040,000	Voted 2016 Debt SIT Supported	
Resurfacing -- West Broad Street Urban Paving (PID 86645)	57,000	-	-	-	-	-	57,000	Councilmanic SIT Supported	
Resurfacing -- West Broad Street Urban Paving (PID 86645)	930,000	-	-	-	-	-	930,000	Voted 2016 Debt SIT Supported	
Resurfacing - Asset Management	1,500,000	-	-	-	-	-	1,500,000	Voted 2016 Debt SIT Supported	
Resurfacing - Resurfacing Coordination with future DPU projects	2,500,000	-	-	-	-	-	2,500,000	Voted 2016 Debt SIT Supported	
Resurfacing - Urban Paving-FRA 23-18.53 (Morse Rd and High St)	423,540	-	-	-	-	-	423,540	Councilmanic SIT Supported	
Resurfacing - Urban Paving-FRA 23-18.53 (Morse Rd and High St)	480,000	-	-	-	-	-	480,000	Voted 2016 Debt SIT Supported	
Resurfacing-Urban Paving-FRA 62-12.44 (Town St/Glenwood Av/Rich St)	274,300	354,300	-	-	-	-	628,600	Councilmanic SIT Supported	
Resurfacing-Urban Paving-FRA 62-12.44 (Town St/Glenwood Av/Rich St)	130,000	-	-	-	-	-	130,000	Voted 2016 Debt SIT Supported	
Resurfacing-Urban Paving-FRA 62DC-1.61 (Town St)	80,000	-	-	-	-	-	80,000	Councilmanic SIT Supported	
Resurfacing - In House Design Right of Way Fund	-	50,000	50,000	50,000	50,000	50,000	250,000	Councilmanic SIT Supported	
Resurfacing - In House Design Right of Way Fund	50,000	-	-	-	-	-	50,000	Voted 2016 Debt SIT Supported	
Resurfacing - Urban Paving - FRA-62-8.53 (Harrisburg Pike)	100,000	-	-	-	-	-	100,000	Councilmanic SIT Supported	
Resurfacing - Urban Paving - FRA33-4.27 Riverside Drive (Martin Rd to River Park Rd)	120,000	-	-	-	-	-	120,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - General Engineering Bridges	-	300,000	-	300,000	-	-	600,000	Councilmanic SIT Supported	
Bridge Rehabilitation - Annual Citywide Contract	1,500,000	1,751,393	3,371,393	3,071,393	3,371,393	3,371,393	16,436,965	Councilmanic SIT Supported	
Bridge Rehabilitation - SR 315 Median Barrier Wall – Contribution to OhioHealth Project	951,393	-	-	-	-	-	951,393	Councilmanic SIT Supported	
Bridge Rehabilitation -Lehman Road Bridge Replacement	10,000	1,320,000	-	-	-	-	1,330,000	Councilmanic SIT Supported	
Bridge Rehabilitation - Calumet St. (o) Glen Echo Fence	50,000	-	-	-	-	-	50,000	Councilmanic SIT Supported	
Housing Initiatives - Roadway	1,600,000	800,000	800,000	800,000	800,000	800,000	5,600,000	Councilmanic SIT Supported	
Bikeway Development	-	1,689,700	-	1,900,000	1,900,000	1,900,000	7,389,700	Councilmanic SIT Supported	
Bikeway Development - Bikeway Resurfacing Contributions	67,000	100,000	100,000	100,000	100,000	100,000	567,000	Councilmanic SIT Supported	
Bikeway Development - Norton Road Shared Use Path	655,000	-	-	-	-	-	655,000	Councilmanic SIT Supported	

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Bikeway Development - Olentangy River Rd SUP-N Broadway to Garrett	-	51,900	605,500	-	-	-	657,400	Councilmanic SIT Supported
Bikeway Development-Refugee Rd over Big Walnut Creek Shared Use Path	750,000	-	-	-	-	-	750,000	Councilmanic SIT Supported
Bikeway Development - Trabue Rd Renner Rd SUP	528,000	158,400	1,294,500	-	-	-	1,980,900	Councilmanic SIT Supported
59-04 School Flashers	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	4,750,000	Councilmanic SIT Supported
Traffic Signal Installation - Commodities	950,000	-	-	-	-	-	950,000	Voted 2016 Debt SIT Supported
Sign Upgrading/Streetname Signs - Commodities	-	325,000	325,000	325,000	325,000	325,000	1,625,000	Councilmanic SIT Supported
Sign Upgrading/Streetname Signs - Commodities	325,000	-	-	-	-	-	325,000	Voted 2016 Debt 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	217,082	-	200,000	3,500,000	3,500,000	3,500,000	10,917,082	Councilmanic SIT Supported
Pedestrian Safety Improvement - Sidewalk Replacement (Tree Root)	650,000	600,000	500,000	500,000	500,000	500,000	3,250,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Sidewalk Design III	195,737	-	-	-	-	-	195,737	Councilmanic SIT Supported
Pedestrian Safety Improvements - Refugee Road - Winchester Pike to Hamilton Road	833,628	-	-	-	-	-	833,628	Councilmanic SIT Supported
Pedestrian Safety Improvements - Third Avenue Sidewalks	550,000	-	-	-	-	-	550,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Kingsford Road Sidewalks	120,000	261,899	-	-	-	-	381,899	Councilmanic SIT Supported
Pedestrian Safety Improvements - Worthington Woods Boulevard Sidewalks	144,000	1,423,537	-	-	-	-	1,567,537	Councilmanic SIT Supported
Pedestrian Safety Improvements-Maize Road Sidewalks	254,263	84,754	988,800	-	-	-	1,327,817	Councilmanic SIT Supported
SRTS Toronto Street Sidewalks	25,000	-	-	-	-	-	25,000	Councilmanic SIT Supported
Pedestrian Safety - Courtright Rd Sidewalks	369,630	123,210	390,400	-	-	-	883,240	Councilmanic SIT Supported
Pedestrian Safety - Godown Rd Sidewalks - West Case Rd to Bethel Rd	297,400	89,220	1,040,900	-	-	-	1,427,520	Councilmanic SIT Supported
Pedestrian Safety -Walford St and Sharbot Dr Sidewalks	226,260	50,280	879,900	-	-	-	1,156,440	Councilmanic SIT Supported
Pedestrian Safety Improvements-Maple Canyon Avenue Sidewalks	117,000	1,367,100	-	-	-	-	1,484,100	Councilmanic SIT Supported
Subtotal - TRANSPORTATION	\$ 48,910,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 43,905,000	\$ 268,435,000	
REFUSE COLLECTION								
59-02 Mechanized Collection Equipment	-	4,930,000	4,930,000	4,930,000	4,930,000	4,930,000	24,650,000	Councilmanic SIT Supported
59-02 Mechanized Collection Equipment	4,930,000	-	-	-	-	-	4,930,000	Voted 2016 Debt SIT Supported
Alum Creek Remediation - Facility Improvements	-	100,000	100,000	100,000	100,000	100,000	500,000	Councilmanic SIT Supported
Alum Creek Remediation - Facility Improvements	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Containers	-	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Containers	1,050,000	-	-	-	-	-	1,050,000	Voted 2016 Debt SIT Supported
Subtotal - REFUSE COLLECTION	\$ 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								
Fountain Square Stormwater System Improvements	4,000,000	-	-	-	-	-	4,000,000	WPCLF/OWDA
Storm Sewer Large Diameter Condition Assessment Phase 1	1,500,000	-	-	-	-	-	1,500,000	Voted 2016 Debt - Storm
General Construction Contract (Storm)	-	-	-	-	-	1,150,000	1,150,000	Storm Sewer Enterprise (Unvoted)
General Construction Contract (Storm)	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	-	5,750,000	Voted 2016 Debt - Storm
Storm Sewer Large Diameter Condition Assessment Phase 2	-	1,500,000	-	-	-	-	1,500,000	Voted 2016 Debt - Storm
Storm Sewer Large Diameter Condition Assessment Phase 4	-	-	-	1,500,000	1,500,000	-	3,000,000	Voted 2016 Debt - Storm
Storm Sewer Large Diameter Condition Assessment Phase 6	-	-	-	-	-	1,500,000	1,500,000	Storm Sewer Enterprise (Unvoted)
60-15 Petzinger Rd Stormwater Imps	150,000	-	-	-	-	-	150,000	Voted 2016 Debt - Storm
60-15 Petzinger Rd Stormwater Imps	-	1,100,000	-	-	-	-	1,100,000	WPCLF/OWDA
2021 General Engineering Svcs. - Storm	400,000	400,000	-	-	-	-	800,000	Voted 2016 Debt - Storm
2022 General Engineering Svcs. - Storm	-	-	400,000	400,000	400,000	400,000	1,600,000	Voted 2016 Debt - Storm
60-15 Linworth Rd/Meeklynn Dr Storm Sewer	150,000	-	-	-	-	-	150,000	Voted 2016 Debt - Storm
60-15 Linworth Rd/Meeklynn Dr Storm Sewer	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
Linden Neighborhood Stormwater System Improvements Phase 2	150,000	-	-	-	-	-	150,000	Voted 2016 Debt - Storm
Linden Neighborhood Stormwater System Improvements Phase 2	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
Summit View Detention Basin Modifications	650,000	-	-	-	-	-	650,000	WPCLF/OWDA
Detention Basin Modifications III	100,000	-	100,000	-	-	-	200,000	Voted 2016 Debt - Storm
Detention Basin Modifications III	-	-	650,000	-	-	-	650,000	WPCLF/OWDA
Detention Basin Modifications IV	-	-	100,000	100,000	-	-	200,000	Voted 2016 Debt - Storm
Detention Basin Modifications IV	-	-	-	650,000	-	-	650,000	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Detention Basin Modifications V	-	-	-	100,000	100,000	-	200,000	Voted 2016 Debt - Storm
Detention Basin Modifications V	-	-	-	-	650,000	-	650,000	WPCLF/OWDA
Detention Basin Modifications VI	-	-	-	-	100,000	100,000	200,000	Voted 2016 Debt - Storm
Detention Basin Modifications VI	-	-	-	-	-	650,000	650,000	WPCLF/OWDA
Olde Beechwood Area Stormwater System Improvements	380,000	-	-	-	-	-	380,000	Voted 2016 Debt - Storm
Olde Beechwood Area Stormwater System Improvements	2,500,000	-	-	-	-	-	2,500,000	WPCLF/OWDA
Franklinton Area Stormwater System Improvements	2,000,000	-	5,000,000	2,000,000	-	-	9,000,000	Voted 2016 Debt - Storm
Franklinton Area Stormwater System Improvements	-	-	-	15,000,000	-	-	15,000,000	WPCLF/OWDA
Holt Avenue / Somersworth Drive Stormwater System Improvements	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
Holton Park and Eureka Avenue Green Infrastructure Improvements	65,000	-	-	-	-	-	65,000	Voted 2016 Debt - Storm
Holton Park and Eureka Avenue Green Infrastructure Improvements	400,000	-	-	-	-	-	400,000	WPCLF/OWDA
ST-21, ST-22, ST-23 Improvements	1,500,000	150,000	-	3,000,000	-	-	4,650,000	Voted 2016 Debt - Storm
ST-21, ST-22, ST-23 Improvements	-	-	-	-	20,000,000	-	20,000,000	WPCLF/OWDA
Stormwater Strategic Plan, Phase 2	150,000	150,000	150,000	-	-	-	450,000	Voted 2016 Debt - Storm
Central Avenue Underpass Stormwater System Improvements	180,000	-	-	-	-	-	180,000	Voted 2016 Debt - Storm
Central Avenue Underpass Stormwater System Improvements	1,257,000	-	-	-	-	-	1,257,000	WPCLF/OWDA
SMOC SCADA Modernization at Remote Stormwater Facilities	1,350,000	450,000	-	-	-	-	1,800,000	Voted 2016 Debt - Storm
SMOC SCADA Modernization at Remote Stormwater Facilities	-	3,000,000	-	-	-	-	3,000,000	WPCLF/OWDA
Krieger Court Stormwater Improvements	400,000	100,000	375,000	-	-	-	875,000	Voted 2016 Debt - Storm
Krieger Court Stormwater Improvements	-	-	2,500,000	-	-	-	2,500,000	WPCLF/OWDA
Tw in Lakes Upper Dam and Greenlaw n Low Head Dam Improvements	195,000	2,530,000	-	-	-	-	2,725,000	Voted 2016 Debt - Storm
Barnett Road Stormwater Improvements Project	200,000	-	25,000	110,000	-	-	335,000	Voted 2016 Debt - Storm
Barnett Road Stormwater Improvements Project	-	-	-	1,100,000	-	-	1,100,000	WPCLF/OWDA
Storm Sewer Assessment - North Linden 2 Blueprint Area	-	-	2,000,000	-	-	-	2,000,000	Voted 2016 Debt - Storm
Storm Sewer Assessment - Hilltop 2 Blueprint Area	-	2,000,000	-	-	2,000,000	-	4,000,000	Voted 2016 Debt - Storm
Storm Sewer Assessment - James Livingston 5 Blueprint Area	2,000,000	-	-	-	-	-	2,000,000	Voted 2016 Debt - Storm
Storm Sewer Assessment - James Livingston 3 Blueprint Area	-	-	-	-	-	1,365,000	1,365,000	Storm Sewer Enterprise (Unvoted)
Storm Sewer Assessment - James Livingston 3 Blueprint Area	-	-	-	2,000,000	-	-	2,000,000	Voted 2016 Debt - Storm
Storm Sewer Assessment - James Livingston 2	-	-	-	-	-	480,000	480,000	Storm Sewer Enterprise (Unvoted)
Storm Sewer Assessment - James Livingston 2	-	-	-	-	155,000	-	155,000	Voted 2016 Debt - Storm
Storm Sewer Assessment - Plum Ridge Blueprint Area	-	-	500,000	-	-	-	500,000	Voted 2016 Debt - Storm
Bethel Road Culvert Rehabilitation Project	450,000	-	-	-	-	-	450,000	WPCLF/OWDA
Cooke Rd. Culvert Improvements Project	200,000	210,000	65,000	-	-	-	475,000	Voted 2016 Debt - Storm
Cooke Rd. Culvert Improvements Project	-	-	650,000	-	-	-	650,000	WPCLF/OWDA
FRA-70 Pump Station ST-8 Rehab	450,000	-	-	-	-	-	450,000	Voted 2016 Debt - Storm
Subtotal - STORM SEWER	\$ 24,927,000	\$ 12,740,000	\$ 13,665,000	\$ 27,110,000	\$ 26,055,000	\$ 5,645,000	\$ 110,142,000	
SANITARY SEWERS								
Real Time Control - Alum Creek Storm Tanks	127,500	-	-	-	-	-	127,500	Voted 2016 Debt - Sanitary Sewer
Real Time Control - Alum Creek Storm Tanks	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
Real Time Control - Sewer System Optimization	425,000	-	-	-	-	-	425,000	Voted 2016 Debt - Sanitary Sewer
DOSD Security & Emergency Preparedness	85,000	-	-	-	-	-	85,000	Voted 2016 Debt - Sanitary Sewer
SSES Overall Engineering Consultant (OEC) Services	-	-	-	300,000	300,000	300,000	900,000	Sanitary Sewer Enterprise (Unvoted)
SSES Overall Engineering Consultant (OEC) Services	255,000	255,000	300,000	-	-	-	810,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	-	-	-	1,000,000	-	-	1,000,000	Sanitary Sewer Enterprise (Unvoted)
Big Walnut Sanitary Trunk Extension, Phase 2	850,000	-	1,000,000	-	-	-	1,850,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	-	-	68,200,000	-	-	-	68,200,000	WPCLF/OWDA
Central College Subtrunk Extension Phase 3	-	30,000,000	-	-	-	-	30,000,000	WPCLF/OWDA
Big Walnut Trunk Extension Phase 2 - Construction Management	-	-	-	3,000,000	-	-	3,000,000	Sanitary Sewer Enterprise (Unvoted)
Big Walnut Trunk Extension Phase 2 - Construction Management	-	4,250,000	-	-	-	-	4,250,000	Voted 2016 Debt - Sanitary Sewer
Central College Subtrunk Extension Phase 3 - Construction Management	3,187,500	-	-	-	-	-	3,187,500	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Interceptor	212,500	-	-	-	-	-	212,500	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Sanitary Interceptor Sewer CA/CI	3,400,000	1,700,000	-	-	-	-	5,100,000	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Interceptor Air Quality Facility Improvements	-	297,500	350,000	-	-	-	647,500	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Interceptor Air Quality Facility Improvements	-	-	3,500,000	-	-	-	3,500,000	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
60-05 Rocky Fork-Blacklick Connector Sewer	-	-	-	-	-	3,600,000	3,600,000	Sanitary Sewer Enterprise (Unvoted)
60-05 General Engineering Svcs Contract	-	-	-	200,000	200,000	200,000	600,000	Sanitary Sewer Enterprise (Unvoted)
60-05 General Engineering Svcs Contract	170,000	170,000	200,000	-	-	-	540,000	Voted 2016 Debt - Sanitary Sewer
DOSD Roof Replacements, No. 2	2,690,250	2,690,250	3,125,000	2,380,000	-	-	10,885,500	Voted 2016 Debt - Sanitary Sewer
DOSD Roof Replacements, No. 3	-	-	-	250,000	2,600,000	2,600,000	5,450,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Digester Improvements	-	-	-	2,365,000	3,311,000	4,300,000	9,976,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Biosolids Land Application Improvements	1,040,400	-	-	-	-	-	1,040,400	Voted 2016 Debt - Sanitary Sewer
JPWWTP Biosolids Land Application Improvements	15,300,000	-	-	-	-	-	15,300,000	WPCLF/OWDA
JPWWTP, Support Facilities	-	-	-	-	-	284,000	284,000	Sanitary Sewer Enterprise (Unvoted)
Jackson Pike WWTP Aeration Optimization	-	-	-	-	-	2,640,000	2,640,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Sludge Dewatering Improvements	-	-	-	-	1,045,000	1,463,000	2,508,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Cogeneration Facility	-	2,595,560	-	-	-	-	2,595,560	Voted 2016 Debt - Sanitary Sewer
JPWWTP Cogeneration Facility	-	20,911,854	-	-	-	-	20,911,854	WPCLF/OWDA
JPWWTP Screening Improvements	467,500	654,500	1,000,000	880,000	-	-	3,002,000	Voted 2016 Debt - Sanitary Sewer
JPWWTP Screening Improvements	-	-	-	10,000,000	-	-	10,000,000	WPCLF/OWDA
JPWWTP Power Monitoring System	-	-	-	-	128,000	180,000	308,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Power Monitoring System	-	-	-	-	-	1,000,000	1,000,000	WPCLF/OWDA
6005 Facilities & Equip Upgrade for WSST	1,122,000	-	-	-	-	-	1,122,000	Voted 2016 Debt - Sanitary Sewer
6005 Facilities & Equip Upgrade for WSST	12,000,000	-	-	-	-	-	12,000,000	WPCLF/OWDA
Whittier Street Storm Tanks, Part 2	-	-	-	-	2,100,000	12,100,000	14,200,000	Sanitary Sewer Enterprise (Unvoted)
Short Circuit, Coordination, and Arc Flash Studies #1	850,000	425,000	500,000	500,000	-	-	2,275,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #3	425,000	425,000	-	-	-	-	850,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #4	425,000	425,000	500,000	500,000	-	-	1,850,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #5	-	-	-	500,000	500,000	500,000	1,500,000	Sanitary Sewer Enterprise (Unvoted)
DPU General Engineering Consultant Services (GEC) #5	-	-	500,000	-	-	-	500,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #6	-	-	-	-	500,000	500,000	1,000,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Small Capital Projects	-	-	-	1,100,000	1,100,000	1,100,000	3,300,000	Sanitary Sewer Enterprise (Unvoted)
JPWWTP Small Capital Projects	143,992	935,000	1,100,000	-	-	-	2,178,992	Voted 2016 Debt - Sanitary Sewer
JPWWTP FIBER OPTIC INSTALLATION	365,500	-	-	-	-	-	365,500	Voted 2016 Debt - Sanitary Sewer
JPWWTP Digester Gas Piping Replacement	474,300	-	-	-	-	-	474,300	Voted 2016 Debt - Sanitary Sewer
JPWWTP DC2 HVAC Replacement	425,508	-	-	-	-	-	425,508	Voted 2016 Debt - Sanitary Sewer
SWWTP Small Capital Projects	-	-	-	1,100,000	1,100,000	1,100,000	3,300,000	Sanitary Sewer Enterprise (Unvoted)
SWWTP Small Capital Projects	680,000	935,000	1,100,000	-	-	-	2,715,000	Voted 2016 Debt - Sanitary Sewer
SWWTP Building Heating Improvements - Boiler Revisions (RFP 011A)	3,355,122	-	-	-	-	-	3,355,122	Voted 2016 Debt - Sanitary Sewer
SWWTP Boiler System Operational Improvements (S81 Boiler TSFs) (RFP 015)	1,180,115	-	-	-	-	-	1,180,115	Voted 2016 Debt - Sanitary Sewer
SWWTP Service Drive Lighting Improvements	255,000	-	-	-	-	-	255,000	Voted 2016 Debt - Sanitary Sewer
Fairwood Building Facilities Small Capital Projects	-	-	-	350,000	350,000	350,000	1,050,000	Sanitary Sewer Enterprise (Unvoted)
Fairwood Building Facilities Small Capital Projects	297,500	297,500	350,000	-	-	-	945,000	Voted 2016 Debt - Sanitary Sewer
Fairwood Facility Methane Detector Replacement	170,000	-	-	-	-	-	170,000	Voted 2016 Debt - Sanitary Sewer
WWTFs Professional Construction Management Services #2	297,500	297,500	350,000	-	-	-	945,000	Voted 2016 Debt - Sanitary Sewer
WWTFs Professional Construction Management Services #3	-	-	-	737,000	737,000	737,000	2,211,000	Sanitary Sewer Enterprise (Unvoted)
DOSD HVAC and Air Purification System Replacements, No. 1	2,295,000	2,295,000	2,600,000	2,400,000	-	-	9,590,000	Voted 2016 Debt - Sanitary Sewer
DOSD HVAC and Air Purification System Replacements, No. 2	-	-	-	300,000	2,600,000	2,600,000	5,500,000	Sanitary Sewer Enterprise (Unvoted)
Land Acquisition	-	-	-	7,500,000	-	-	7,500,000	Sanitary Sewer Enterprise (Unvoted)
DPU Hazardous Energy Control	-	-	-	50,000	50,000	-	100,000	Sanitary Sewer Enterprise (Unvoted)
DPU Hazardous Energy Control	42,500	170,000	50,000	-	-	-	262,500	Voted 2016 Debt - Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming Part 2	425,000	425,000	500,000	-	-	-	1,350,000	Voted 2016 Debt - Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming #3	-	-	-	500,000	500,000	500,000	1,500,000	Sanitary Sewer Enterprise (Unvoted)
60-05 SWWTP Sludge Dewatering Improvements	-	-	-	-	1,045,000	3,363,000	4,408,000	Sanitary Sewer Enterprise (Unvoted)
SWWTP Digestion Process Expansion	1,522,350	-	-	-	-	-	1,522,350	Voted 2016 Debt - Sanitary Sewer
SWWTP Digestion Process Expansion	22,479,107	-	-	-	-	-	22,479,107	WPCLF/OWDA
SWWTP Cogeneration Facility	-	-	-	1,519,000	755,700	-	2,274,700	Sanitary Sewer Enterprise (Unvoted)
SWWTP Cogeneration Facility	-	-	-	-	8,582,538	-	8,582,538	WPCLF/OWDA
SWWTP Post Aeration Diffuser Replacement	605,200	300,900	-	-	-	-	906,100	Voted 2016 Debt - Sanitary Sewer
SWWTP Post Aeration Diffuser Replacement	-	4,022,000	-	-	-	-	4,022,000	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
SWWTP Power Monitoring System	-	-	-	-	160,000	260,000	420,000	Sanitary Sewer Enterprise (Unvoted)
SWWTP Power Monitoring System	-	-	-	-	-	1,250,000	1,250,000	WPCLF/OWDA
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	1,609,900	1,609,900	1,894,000	-	-	-	5,113,800	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment: Preliminary Treatment	1,110,200	-	-	-	-	-	1,110,200	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT): Clarification	1,168,000	-	-	-	-	-	1,168,000	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT): Disinfection	1,097,240	-	-	-	-	-	1,097,240	Voted 2016 Debt - Sanitary Sewer
SWWTP Aeration Optimization	-	-	-	-	-	3,960,000	3,960,000	Sanitary Sewer Enterprise (Unvoted)
60-05 Compost Facility Odor Control Improvements	3,787,260	-	-	-	-	-	3,787,260	Voted 2016 Debt - Sanitary Sewer
60-05 Compost Facility Odor Control Improvements	23,700,000	-	-	-	-	-	23,700,000	WPCLF/OWDA
Compost Facility Odor Reduction Improvements - Part 2	-	-	-	-	1,851,800	-	1,851,800	Sanitary Sewer Enterprise (Unvoted)
Compost Facility Odor Reduction Improvements - Part 2	-	85,000	758,450	-	-	-	843,450	Voted 2016 Debt - Sanitary Sewer
Compost Facility Odor Reduction Improvements - Part 2	-	-	-	-	10,000,000	-	10,000,000	WPCLF/OWDA
2018 Annual Lining Contract	722,500	-	-	-	-	-	722,500	Voted 2016 Debt - Sanitary Sewer
2018 Annual Lining Contract	5,000,000	-	-	-	-	-	5,000,000	WPCLF/OWDA
2020 Annual Lining Contract	-	722,500	-	-	-	-	722,500	Voted 2016 Debt - Sanitary Sewer
2020 Annual Lining Contract	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
2021 Annual Lining Contract	-	-	850,000	-	-	-	850,000	Voted 2016 Debt - Sanitary Sewer
2021 Annual Lining Contract	-	-	5,000,000	-	-	-	5,000,000	WPCLF/OWDA
2022 Annual Lining Contract	-	-	-	850,000	-	-	850,000	Sanitary Sewer Enterprise (Unvoted)
2022 Annual Lining Contract	-	-	-	5,000,000	-	-	5,000,000	WPCLF/OWDA
2023 Annual Lining Contract	-	-	-	-	850,000	-	850,000	Sanitary Sewer Enterprise (Unvoted)
2023 Annual Lining Contract	-	-	-	-	5,000,000	-	5,000,000	WPCLF/OWDA
2024 Annual Lining Contract	-	-	-	-	-	850,000	850,000	Sanitary Sewer Enterprise (Unvoted)
2024 Annual Lining Contract	-	-	-	-	-	5,000,000	5,000,000	WPCLF/OWDA
Cleveland Avenue Sanitary Sewer Extension	-	875,000	-	-	-	-	875,000	WPCLF/OWDA
Walnut Street Sanitary Sewer Extension	-	-	-	-	750,000	100,000	850,000	Sanitary Sewer Enterprise (Unvoted)
Sewer System Capacity Model update 2018	-	-	-	-	-	2,000,000	2,000,000	Sanitary Sewer Enterprise (Unvoted)
Sewer System Capacity Model update 2018	-	1,700,000	-	2,000,000	-	-	3,700,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Interceptor Lockbourne Subtrunk Canal Road Area	-	-	625,000	-	-	-	625,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Interceptor Lockbourne Subtrunk Canal Road Area	-	-	-	3,500,000	-	-	3,500,000	WPCLF/OWDA
Lockbourne Subtrunk Air Quality Improvements	408,000	-	-	-	-	-	408,000	Voted 2016 Debt - Sanitary Sewer
Lockbourne Subtrunk Air Quality Improvements	3,200,000	-	-	-	-	-	3,200,000	WPCLF/OWDA
Intermodal Sanitary Subtrunk Extension	-	-	20,000,000	-	-	-	20,000,000	WPCLF/OWDA
Rickenbacker Intermodal Sanitary Extension	637,500	-	625,000	-	-	-	1,262,500	Voted 2016 Debt - Sanitary Sewer
Rickenbacker Intermodal Sanitary Extension	-	-	-	3,500,000	-	-	3,500,000	WPCLF/OWDA
Intermodal Sanitary Subtrunk Extension - Construction Management	-	2,125,000	-	-	-	-	2,125,000	Voted 2016 Debt - Sanitary Sewer
Hayden Run Aerial Sewer Improvements	76,500	-	-	-	-	-	76,500	Voted 2016 Debt - Sanitary Sewer
Hayden Run Aerial Sewer Improvements	500,000	-	-	-	-	-	500,000	WPCLF/OWDA
Upper Scioto West Subtrunk, Hayden Run Area, West of Cosgray Rd	892,500	637,500	-	-	-	-	1,530,000	Voted 2016 Debt - Sanitary Sewer
Upper Scioto West Subtrunk, Hayden Run Area, West of Cosgray Rd	-	-	7,500,000	-	-	-	7,500,000	WPCLF/OWDA
DPU Archive and Records Storage	327,250	799,000	5,000,000	-	-	-	6,126,250	Voted 2016 Debt - Sanitary Sewer
East Franklinton Phase 1	1,318,100	-	-	-	-	-	1,318,100	WPCLF/OWDA
East Franklinton Phase 3	-	170,000	-	-	-	-	170,000	Voted 2016 Debt - Sanitary Sewer
East Franklinton Phase 3	-	-	3,000,000	-	-	-	3,000,000	WPCLF/OWDA
Woodward Avenue Sanitary Sewers	525,000	-	-	-	-	-	525,000	WPCLF/OWDA
Ohio State University Area Utility Easement Project	318,750	-	-	-	-	-	318,750	Voted 2016 Debt - Sanitary Sewer
Franklin Main Interceptor Rehabilitation, Sec. 6	-	-	300,000	-	-	-	300,000	Voted 2016 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)	1,486,710	-	-	-	-	-	1,486,710	Voted 2016 Debt - Sanitary Sewer
60-05 Portage Grove Area Assessment	2,100,000	-	-	-	-	-	2,100,000	WPCLF/OWDA
Big Walnut Outfall Rehabilitation	-	1,105,000	50,000	-	-	-	1,155,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Outfall Rehabilitation	-	-	-	13,000,000	-	-	13,000,000	WPCLF/OWDA
Lower Olentangy River Ecosystem Restoration, Fifth Ave. Dam Removal	42,500	-	-	-	-	-	42,500	Voted 2016 Debt - Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	4,695,400	-	-	-	-	-	4,695,400	Voted 2016 Debt - Sanitary Sewer

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Lower Olentangy Tunnel - Phase 1	-	-	244,200,000	-	-	-	244,200,000	WPCLF/OWDA
Lower Olentangy Tunnel Construction Management	-	-	-	3,500,000	3,500,000	3,500,000	10,500,000	Sanitary Sewer Enterprise (Unvoted)
Lower Olentangy Tunnel Construction Management	-	6,800,000	3,500,000	-	-	-	10,300,000	Voted 2016 Debt - Sanitary Sewer
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South Section/Deshler Tunnel	-	-	-	-	-	500,000	500,000	Sanitary Sewer Enterprise (Unvoted)
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South Section/Deshler Tunnel	85,000	425,000	-	500,000	-	-	1,010,000	Voted 2016 Debt - Sanitary Sewer
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South Section/Deshler Tunnel	-	5,000,000	-	5,000,000	-	5,000,000	15,000,000	WPCLF/OWDA
OSIS Large Diameter Sewer Rehabilitation	1,020,000	1,020,000	500,000	-	-	-	2,540,000	Voted 2016 Debt - Sanitary Sewer
OSIS Large Diameter Sewer Rehabilitation	-	-	5,000,000	-	-	-	5,000,000	WPCLF/OWDA
Center Large Diameter Rehabilitation	637,500	-	-	-	-	-	637,500	Voted 2016 Debt - Sanitary Sewer
Center Large Diameter Rehabilitation	5,000,000	-	-	-	-	-	5,000,000	WPCLF/OWDA
West Side Trunk Rehabilitation	340,000	637,500	-	-	-	-	977,500	Voted 2016 Debt - Sanitary Sewer
West Side Trunk Rehabilitation	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Large Diameter - Blacklick Creek Main Trunk	467,500	4,250,000	-	-	-	-	4,717,500	Voted 2016 Debt - Sanitary Sewer
Large Diameter - Blacklick Creek Main Trunk	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Large Diameter - Scioto Main Trunk	1,105,000	-	790,000	-	-	-	1,895,000	Voted 2016 Debt - Sanitary Sewer
Large Diameter - Scioto Main Trunk	-	-	5,300,000	-	-	-	5,300,000	WPCLF/OWDA
Near North & East Area Large Diameter Assessment	-	-	-	-	-	675,000	675,000	Sanitary Sewer Enterprise (Unvoted)
Near North & East Area Large Diameter Assessment	127,500	318,750	-	675,000	-	-	1,121,250	Voted 2016 Debt - Sanitary Sewer
Near North & East Area Large Diameter Assessment	-	2,500,000	-	4,750,000	-	4,750,000	12,000,000	WPCLF/OWDA
Alum Creek Trunk (Middle) Rehabilitation - Phase C	935,000	-	-	-	-	-	935,000	Voted 2016 Debt - Sanitary Sewer
Alum Creek Trunk (Middle) Rehabilitation - Phase C	7,000,000	-	-	-	-	-	7,000,000	WPCLF/OWDA
Brimfield Area Sanitary System Repair Project	1,300,000	-	-	-	-	-	1,300,000	WPCLF/OWDA
2019 General Construction Contract	1,955,000	-	-	-	-	-	1,955,000	Voted 2016 Debt - Sanitary Sewer
2020 General Construction Contract	-	1,955,000	-	-	-	-	1,955,000	Voted 2016 Debt - Sanitary Sewer
2021 General Construction Contract	-	-	2,300,000	-	-	-	2,300,000	Voted 2016 Debt - Sanitary Sewer
2022 General Construction Contract	-	-	-	2,300,000	-	-	2,300,000	Sanitary Sewer Enterprise (Unvoted)
2023 General Construction Contract	-	-	-	-	2,300,000	-	2,300,000	Sanitary Sewer Enterprise (Unvoted)
2024 General Construction Contract	-	-	-	-	-	2,300,000	2,300,000	Sanitary Sewer Enterprise (Unvoted)
Third Avenue CSO Increased Capture and Green Infrastructure	3,015,000	-	-	-	-	-	3,015,000	WPCLF/OWDA
Moler Street Overflow Intercepting Sewer	-	247,095	2,092,722	-	-	-	2,339,817	Voted 2016 Debt - Sanitary Sewer
Moler Street Overflow Intercepting Sewer	-	-	13,951,480	-	-	-	13,951,480	WPCLF/OWDA
Third Ave Relief Sewer, Phase 3	561,000	-	-	-	-	-	561,000	Voted 2016 Debt - Sanitary Sewer
Third Ave Relief Sewer, Phase 3	3,000,000	-	-	-	-	-	3,000,000	WPCLF/OWDA
SMOC SCADA Modernization at Remote Sanitary Facilities	1,105,000	319,430	-	-	-	-	1,424,430	Voted 2016 Debt - Sanitary Sewer
SMOC SCADA Modernization at Remote Sanitary Facilities	-	2,500,000	-	-	-	-	2,500,000	WPCLF/OWDA
SMOC SCADA Communication Network Modernization	1,530,000	510,000	-	-	-	-	2,040,000	Voted 2016 Debt - Sanitary Sewer
SMOC SCADA Communication Network Modernization	-	4,000,000	-	-	-	-	4,000,000	WPCLF/OWDA
Inflow Redirection - Noble & 4th St	-	25,500	50,000	-	-	-	75,500	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Noble & 4th St	-	-	450,000	-	-	-	450,000	WPCLF/OWDA
Inflow Redirection - Kerr / Russell	680,000	-	115,765	115,765	-	-	911,530	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Kerr / Russell	-	-	-	1,504,941	-	-	1,504,941	WPCLF/OWDA
3rd Ave. Blocked Sewer	-	70,890	-	-	-	-	70,890	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Markison	-	816,000	1,400,000	-	-	-	2,216,000	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Markison	-	-	13,800,000	-	-	-	13,800,000	WPCLF/OWDA
Hydraulic Modification to CSO Regulator - Markison	-	15,860	24,300	-	-	-	40,160	Voted 2016 Debt - Sanitary Sewer
Hydraulic Modification to CSO Regulator - Markison	-	-	242,572	-	-	-	242,572	WPCLF/OWDA
General CA/CI	-	-	-	-	100,000	100,000	200,000	Sanitary Sewer Enterprise (Unvoted)
General CA/CI	85,000	85,000	100,000	100,000	-	-	370,000	Voted 2016 Debt - Sanitary Sewer
DSR 147 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	11,206	84,045	-	95,251	Sanitary Sewer Enterprise (Unvoted)
DSR 148 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	11,206	84,045	-	95,251	Sanitary Sewer Enterprise (Unvoted)
DSR 149 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	11,206	84,045	-	95,251	Sanitary Sewer Enterprise (Unvoted)
DSR 150 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	11,206	84,045	-	95,251	Sanitary Sewer Enterprise (Unvoted)
Flow Split Reconfiguration - 5th by Northwest Blueprint Area	-	-	-	9,419	70,641	-	80,060	Sanitary Sewer Enterprise (Unvoted)
Bulkhead of Oxley Road Relief Pipe - 5th by Northwest Blueprint Area	-	-	-	-	83,203	-	83,203	Sanitary Sewer Enterprise (Unvoted)
DSR 109 Closure - 5th by Northwest Blueprint Area	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
DSR 111 Closure - 5th by Northwest Blueprint Area	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)
DSR 146 Closure - 5th by Northwest Blueprint Area	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)
New Relief Pipe to the Olen tangy Scioto Interceptor Sewer - Clintonville 2	-	-	-	-	1,850,000	673,974	2,523,974	Sanitary Sewer Enterprise (Unvoted)
New Relief Pipe to the Olen tangy Scioto Interceptor Sewer - Clintonville 2	-	-	-	-	8,761,311	-	8,761,311	WPCLF/OWDA
DSR 873 New Relief Sewer	-	-	-	12,208	-	85,456	97,664	Sanitary Sewer Enterprise (Unvoted)
DSR 328 Closure - Clintonville 3	-	-	-	-	-	95,251	95,251	Sanitary Sewer Enterprise (Unvoted)
Remove Weir - Project ID 1 - North Linden 2	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)
Remove Weir - Project ID 2 - North Linden 2	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)
Remove Weir - Project ID 3 - North Linden 2	-	-	-	-	95,251	-	95,251	Sanitary Sewer Enterprise (Unvoted)
Upsizing Sewer Pipes (Project ID 2) - Hilltop 2	-	-	-	73,920	-	36,960	110,880	Sanitary Sewer Enterprise (Unvoted)
Upsizing Sewer Pipes (Project ID 3) - Hilltop 2	-	-	-	29,754	-	244,465	274,219	Sanitary Sewer Enterprise (Unvoted)
Upsizing Sewer Pipes (Project ID 3) - Hilltop 2	-	-	-	459,176	-	-	459,176	Voted 2016 Debt - Sanitary Sewer
2nd Barrel Interconnector Augmentation	1,530,000	85,000	3,000,000	-	-	-	4,615,000	Voted 2016 Debt - Sanitary Sewer
2nd Barrel Interconnector Augmentation	-	-	18,000,000	-	-	-	18,000,000	WPCLF/OWDA
DSR 177 Closure - Miller Kelton Blueprint Area	-	-	95,251	-	-	-	95,251	Voted 2016 Debt - Sanitary Sewer
Flow Redirection - Plum Ridge	-	-	-	134,000	-	67,000	201,000	Sanitary Sewer Enterprise (Unvoted)
Blueprint Clintonville Professional Construction Management Services	637,500	-	-	-	-	-	637,500	Voted 2016 Debt - Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	365,500	-	-	-	-	-	365,500	Voted 2016 Debt - Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	4,294,201	-	-	-	-	-	4,294,201	WPCLF/OWDA
Blueprint Linden - Oakland Park / Medina	382,500	-	-	-	-	-	382,500	Voted 2016 Debt - Sanitary Sewer
Blueprint Linden - Oakland Park / Medina	3,000,000	-	-	-	-	-	3,000,000	WPCLF/OWDA
Blueprint Linden - Agler / Berrell	531,250	-	-	-	-	-	531,250	Voted 2016 Debt - Sanitary Sewer
Blueprint Linden - Agler / Berrell	3,500,000	-	-	-	-	-	3,500,000	WPCLF/OWDA
Blueprint Linden - Artane / Parkwood	340,000	-	-	-	-	-	340,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Linden - Artane / Parkwood	4,000,000	-	-	-	-	-	4,000,000	WPCLF/OWDA
Blueprint Hilltop - Palmetto/Westgate	807,500	-	-	-	-	-	807,500	Voted 2016 Debt - Sanitary Sewer
Blueprint Hilltop - Palmetto/Westgate	12,000,000	-	-	-	-	-	12,000,000	WPCLF/OWDA
Blueprint Hilltop - Eureka/Fremont	768,549	-	-	-	-	-	768,549	Voted 2016 Debt - Sanitary Sewer
Blueprint Hilltop - Eureka/Fremont	10,303,527	-	-	-	-	-	10,303,527	WPCLF/OWDA
Blueprint Miller Kelton - Newton/Bedford	1,038,054	-	-	-	-	-	1,038,054	Voted 2016 Debt - Sanitary Sewer
Blueprint Miller Kelton - Newton/Bedford	6,007,000	-	-	-	-	-	6,007,000	WPCLF/OWDA
Blueprint Miller Kelton - Kelton/Fairwood	935,000	-	-	-	-	-	935,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Miller Kelton - Kelton/Fairwood	3,000,000	-	-	-	-	-	3,000,000	WPCLF/OWDA
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	148,750	484,500	-	-	-	-	633,250	Voted 2016 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	127,500	527,000	-	-	-	-	654,500	Voted 2016 Debt - Sanitary Sewer
Blueprint 5th Ave by Northwest - Edgehill / Meadow	-	4,450,000	-	-	-	-	4,450,000	WPCLF/OWDA
Blueprint Winthrop / Milton Area Integrated Solutions	595,000	-	-	-	-	-	595,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Winthrop / Milton Area Integrated Solutions	-	3,700,000	-	-	-	-	3,700,000	WPCLF/OWDA
Blueprint Dorris / Weber Area Integrated Solutions	170,000	561,000	-	-	-	-	731,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Dorris / Weber Area Integrated Solutions	-	6,600,000	-	-	-	-	6,600,000	WPCLF/OWDA
Blueprint Fredonia / Piedmont Area Integrated Solutions	-	692,750	-	-	-	-	692,750	Voted 2016 Debt - Sanitary Sewer
Blueprint Fredonia / Piedmont Area Integrated Solutions	-	4,100,000	-	-	-	-	4,100,000	WPCLF/OWDA
Blueprint Tulane / Findley Area Integrated Solutions	170,000	595,000	-	-	-	-	765,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Tulane / Findley Area Integrated Solutions	-	6,000,000	-	-	-	-	6,000,000	WPCLF/OWDA
Blueprint Milford / Summit Area Integrated Solutions	191,250	541,875	-	-	-	-	733,125	Voted 2016 Debt - Sanitary Sewer
Blueprint Milford / Summit Area Integrated Solutions	-	4,250,000	-	-	-	-	4,250,000	WPCLF/OWDA
Blueprint Olde Beechwood Area - Integrated Solutions	153,000	-	-	-	-	-	153,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Olde Beechwood Area - Integrated Solutions	1,200,000	-	-	-	-	-	1,200,000	WPCLF/OWDA
Leland / Highland Area Integrated Solutions	427,308	-	169,156	858,885	-	-	1,455,349	Voted 2016 Debt - Sanitary Sewer
Leland / Highland Area Integrated Solutions	-	-	-	-	4,225,900	-	4,225,900	WPCLF/OWDA
Charleston / Kanawha Area Integrated Solutions	456,964	-	237,900	918,375	-	-	1,613,239	Voted 2016 Debt - Sanitary Sewer
Charleston / Kanawha Area Integrated Solutions	-	-	-	-	4,622,500	-	4,622,500	WPCLF/OWDA
Croswell / Beaumont Area Integrated Solutions	943,223	-	725,634	1,340,453	-	-	3,009,310	Voted 2016 Debt - Sanitary Sewer
Croswell / Beaumont Area Integrated Solutions	-	-	-	-	7,436,350	-	7,436,350	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Jeffrey / Sellers Area Integrated Solutions	1,075,678	-	704,704	1,322,340	-	-	3,102,722	Voted 2016 Debt - Sanitary Sewer
Jeffrey / Sellers Area Integrated Solutions	-	-	-	-	7,315,600	-	7,315,600	WPCLF/OWDA
Green Infrastructure - North Linden 2 Blueprint Area	-	-	-	3,362,746	-	1,480,473	4,843,219	Sanitary Sewer Enterprise (Unvoted)
Green Infrastructure - South Linden	-	-	-	-	-	3,087,923	3,087,923	Sanitary Sewer Enterprise (Unvoted)
Blueprint Hilltop 4 - Highland / Harris	845,750	-	-	-	-	-	845,750	Voted 2016 Debt - Sanitary Sewer
Blueprint Hilltop 4 - Highland / Harris	-	5,300,000	-	-	-	-	5,300,000	WPCLF/OWDA
Green Infrastructure - Hilltop 2 Blueprint Area	-	-	-	-	1,521,936	1,521,936	3,043,872	Sanitary Sewer Enterprise (Unvoted)
Green Infrastructure - Hilltop 2 Blueprint Area	-	-	3,606,972	-	-	-	3,606,972	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - Hilltop 2 Blueprint Area	-	-	-	-	-	19,785,168	19,785,168	WPCLF/OWDA
Blueprint W. Franklinton - Yale / Edwin	42,500	807,500	200,000	-	-	-	1,050,000	Voted 2016 Debt - Sanitary Sewer
Blueprint W. Franklinton - Yale / Edwin	-	3,000,000	-	-	-	-	3,000,000	WPCLF/OWDA
Blueprint W. Franklinton - Green / Glenwood	1,423,750	425,000	200,000	-	-	-	2,048,750	Voted 2016 Debt - Sanitary Sewer
Blueprint W. Franklinton - Green / Glenwood	-	4,800,000	-	-	-	-	4,800,000	WPCLF/OWDA
West Franklinton Sewer Improvements	112,200	-	-	-	-	-	112,200	Voted 2016 Debt - Sanitary Sewer
West Franklinton Sewer Improvements	486,003	-	-	-	-	-	486,003	WPCLF/OWDA
Green Infrastructure - James Livingston 5 Blueprint Area	-	-	-	-	-	1,374,291	1,374,291	Sanitary Sewer Enterprise (Unvoted)
Green Infrastructure - James Livingston 5 Blueprint Area	-	2,441,548	-	981,637	-	-	3,423,185	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - James Livingston 5 Blueprint Area	-	-	-	-	13,742,912	-	13,742,912	WPCLF/OWDA
Green Infrastructure - James Livingston 3 Blueprint Area	-	-	-	-	-	2,592,657	2,592,657	Sanitary Sewer Enterprise (Unvoted)
Green Infrastructure - Plum Ridge Blueprint Area	-	-	-	-	-	242,522	242,522	Sanitary Sewer Enterprise (Unvoted)
Green Infrastructure - Plum Ridge Blueprint Area	-	339,935	-	173,230	-	-	513,165	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - Plum Ridge Blueprint Area	-	-	-	-	2,425,220	-	2,425,220	WPCLF/OWDA
Blueprint Near South - Morrill/Ann Area Integrated Solutions	594,269	212,500	355,665	-	-	-	1,162,434	Voted 2016 Debt - Sanitary Sewer
Blueprint Near South - Morrill/Ann Area Integrated Solutions	-	-	3,556,650	-	-	-	3,556,650	WPCLF/OWDA
Blueprint Near South - Champion/Roberts Area Integrated Solutions	594,269	212,500	403,350	-	-	-	1,210,119	Voted 2016 Debt - Sanitary Sewer
Blueprint Near South - Champion/Roberts Area Integrated Solutions	-	-	4,033,500	-	-	-	4,033,500	WPCLF/OWDA
Roof Redirection - 5th by Northwest Blueprint Area	-	-	891,135	-	-	-	891,135	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - 5th by Northwest Blueprint Area	-	-	5,940,900	-	-	-	5,940,900	WPCLF/OWDA
Roof Redirection - Clintonville 1 Blenheim / Glencoe	913,474	-	-	-	-	-	913,474	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - Clintonville 1 Blenheim / Glencoe	7,164,500	-	-	-	-	-	7,164,500	WPCLF/OWDA
Roof Redirection - Clintonville 3 Blueprint Area	-	-	-	-	-	5,875,000	5,875,000	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Clintonville 3 Blueprint Area	-	-	-	-	-	39,000,000	39,000,000	WPCLF/OWDA
Roof Redirection - Clintonville 2 Blueprint Area	-	-	-	-	-	3,274,740	3,274,740	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Clintonville 2 Blueprint Area	-	-	-	-	-	21,831,600	21,831,600	WPCLF/OWDA
Roof Redirection - North Linden 1 Blueprint Area	-	3,603,602	-	-	-	-	3,603,602	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - North Linden 1 Blueprint Area	-	28,263,550	-	-	-	-	28,263,550	WPCLF/OWDA
Roof Redirection - Hilltop 1 Blueprint Area	-	-	-	4,860,000	-	-	4,860,000	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Hilltop 1 Blueprint Area	-	-	-	24,300,000	8,100,000	-	32,400,000	WPCLF/OWDA
Roof Redirection - Hilltop 4 Blueprint Area	-	-	1,979,093	-	-	-	1,979,093	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - Hilltop 4 Blueprint Area	-	-	13,193,950	-	-	-	13,193,950	WPCLF/OWDA
Roof Redirection - West Franklinton Blueprint Area	-	-	2,596,125	-	-	-	2,596,125	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - West Franklinton Blueprint Area	-	-	17,307,500	-	-	-	17,307,500	WPCLF/OWDA
Roof Redirection - James Livingston 5 Blueprint Area	-	-	-	-	-	3,719,100	3,719,100	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - James Livingston 5 Blueprint Area	-	-	-	-	-	24,794,000	24,794,000	WPCLF/OWDA
Roof Redirection - Plum Ridge Blueprint Area	-	-	-	-	-	546,998	546,998	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Plum Ridge Blueprint Area	-	-	-	-	-	3,646,650	3,646,650	WPCLF/OWDA
Roof Redirection - Miller Kelton Blueprint Area	-	-	-	-	2,100,000	-	2,100,000	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Miller Kelton Blueprint Area	-	-	-	-	14,000,000	-	14,000,000	WPCLF/OWDA
Roof Redirection - Near South Blueprint Area	-	-	-	-	-	2,079,315	2,079,315	Sanitary Sewer Enterprise (Unvoted)
Roof Redirection - Near South Blueprint Area	-	-	-	-	-	13,862,100	13,862,100	WPCLF/OWDA
Lateral Lining - 5th by Northwest Blueprint Area	-	-	827,483	-	-	-	827,483	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - 5th by Northwest Blueprint Area	-	-	5,516,550	-	-	-	5,516,550	WPCLF/OWDA
Lateral Lining - Clintonville 1 Blenheim / Glencoe	848,225	-	-	-	-	-	848,225	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - Clintonville 1 Blenheim / Glencoe	6,652,750	-	-	-	-	-	6,652,750	WPCLF/OWDA
Lateral Lining - Clintonville 1 Schreyer / Springs	2,000,000	-	-	-	-	-	2,000,000	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Lateral Lining - Clintonville 3 Blueprint area	-	-	-	-	-	5,800,000	5,800,000	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Clintonville 3 Blueprint area	-	-	-	-	-	29,000,000	29,000,000	WPCLF/OWDA
Lateral Lining - Clintonville 2 Blueprint area	-	-	-	-	-	3,040,830	3,040,830	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Clintonville 2 Blueprint area	-	-	-	-	-	20,272,200	20,272,200	WPCLF/OWDA
Lateral Lining - North Linden 1 Blueprint Area	-	3,346,202	-	-	-	-	3,346,202	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - North Linden 1 Blueprint Area	-	26,244,725	-	-	-	-	26,244,725	WPCLF/OWDA
Lateral Lining - Hilltop 1 Blueprint Area	-	-	-	4,560,000	-	-	4,560,000	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Hilltop 1 Blueprint Area	-	-	-	22,800,000	7,600,000	-	30,400,000	WPCLF/OWDA
Lateral Lining - Hilltop 4 Blueprint Area	-	1,562,070	-	-	-	-	1,562,070	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - Hilltop 4 Blueprint Area	-	12,251,525	-	-	-	-	12,251,525	WPCLF/OWDA
Lateral Lining - West Franklinton Blueprint Area	-	2,049,084	-	-	-	-	2,049,084	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - West Franklinton Blueprint Area	-	16,071,250	-	-	-	-	16,071,250	WPCLF/OWDA
Lateral Lining - James Livingston 5 Blueprint area	-	-	-	-	-	3,453,450	3,453,450	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - James Livingston 5 Blueprint area	-	-	-	-	-	23,023,000	23,023,000	WPCLF/OWDA
Lateral Lining - Plum Ridge Blueprint area	-	-	-	-	-	507,926	507,926	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Plum Ridge Blueprint area	-	-	-	-	-	3,386,175	3,386,175	WPCLF/OWDA
Lateral Lining - Miller Kelton Blueprint Area	-	-	-	-	1,950,000	-	1,950,000	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Miller Kelton Blueprint Area	-	-	-	-	13,000,000	-	13,000,000	WPCLF/OWDA
Lateral Lining - Near South Blueprint area	-	-	-	-	-	1,930,794	1,930,794	Sanitary Sewer Enterprise (Unvoted)
Lateral Lining - Near South Blueprint area	-	-	-	-	-	12,871,950	12,871,950	WPCLF/OWDA
Mainline Lining - Clintonville 2 Blueprint Area	-	374,000	440,000	-	-	-	814,000	Voted 2016 Debt - Sanitary Sewer
Mainline Lining - Clintonville 2 Blueprint Area	-	2,894,243	2,894,243	-	-	-	5,788,486	WPCLF/OWDA
Mainline Lining - North Linden 2 Blueprint Area	-	-	-	-	550,000	550,000	1,100,000	Sanitary Sewer Enterprise (Unvoted)
Mainline Lining - North Linden 2 Blueprint Area	-	-	-	-	7,456,448	7,456,448	14,912,896	WPCLF/OWDA
Mainline Lining - Hilltop 2 Blueprint Area	-	-	-	-	550,000	550,000	1,100,000	Sanitary Sewer Enterprise (Unvoted)
Mainline Lining - Hilltop 2 Blueprint Area	-	-	-	7,635,302	7,635,302	-	15,270,604	WPCLF/OWDA
Mainline Lining - James Livingston 5 Blueprint Area	-	-	1,368,948	-	-	-	1,368,948	Voted 2016 Debt - Sanitary Sewer
Mainline Lining - James Livingston 5 Blueprint Area	-	-	13,689,481	-	-	-	13,689,481	WPCLF/OWDA
Mainline Lining - James Livingston 3 Blueprint Area	-	-	-	-	-	2,258,960	2,258,960	Sanitary Sewer Enterprise (Unvoted)
Mainline Lining - James Livingston 3 Blueprint Area	-	-	-	-	-	22,589,605	22,589,605	WPCLF/OWDA
Mainline Lining - Plum Ridge Blueprint Area	-	-	228,909	-	-	-	228,909	Voted 2016 Debt - Sanitary Sewer
Mainline Lining - Plum Ridge Blueprint Area	-	-	2,289,097	-	-	-	2,289,097	WPCLF/OWDA
Mainline Lining - Near South Blueprint Area	1,989,276	1,989,276	-	-	-	-	3,978,552	Voted 2016 Debt - Sanitary Sewer
Mainline Lining - Near South Blueprint Area	7,020,974	7,020,974	-	-	-	-	14,041,948	WPCLF/OWDA
Volunteer Sump Pump Program - 5th by Northwest Blueprint Area	1,455,742	-	-	-	-	-	1,455,742	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Clintonville 3 Blueprint Area	1,832,600	1,832,600	2,156,000	2,156,000	-	-	7,977,200	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Clintonville 2 Blueprint Area	-	-	6,276,585	-	-	-	6,276,585	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Blueprint North Linden 1, Phase 2	1,727,218	-	-	-	-	-	1,727,218	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Blueprint North Linden 1, Phase 3	-	1,727,218	-	-	-	-	1,727,218	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Blueprint North Linden 1, Phase 4	-	-	2,032,021	-	-	-	2,032,021	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - North Linden 2 Blueprint Area	-	-	-	-	-	2,032,119	2,032,119	Sanitary Sewer Enterprise (Unvoted)
Volunteer Sump Pump Program - Hilltop 1 Blueprint Area	1,700,000	1,700,000	2,000,000	2,000,000	-	-	7,400,000	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Hilltop 4 Blueprint Area	850,000	850,000	1,000,000	1,000,000	-	-	3,700,000	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Hilltop 2 Blueprint Area	-	-	-	-	1,561,680	1,561,680	3,123,360	Sanitary Sewer Enterprise (Unvoted)
Volunteer Sump Pump Program - West Franklinton Blueprint Area	-	-	-	1,000,000	1,000,000	-	2,000,000	Sanitary Sewer Enterprise (Unvoted)
Volunteer Sump Pump Program - West Franklinton Blueprint Area	-	850,000	1,000,000	-	-	-	1,850,000	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - James Livingston 5 Blueprint Area	-	-	-	-	-	7,128,275	7,128,275	Sanitary Sewer Enterprise (Unvoted)
Volunteer Sump Pump Program - Plum Ridge Blueprint Area	-	-	-	-	-	1,046,098	1,046,098	Sanitary Sewer Enterprise (Unvoted)
Volunteer Sump Pump Program - Miller Kelton Blueprint Area	850,000	1,700,000	2,000,000	1,000,000	-	-	5,550,000	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Near South Blueprint Area	-	-	-	-	-	3,989,984	3,989,984	Sanitary Sewer Enterprise (Unvoted)
Upsizing Sewer Pipes - Project ID 5a, 5b, 5c - North Linden 2	-	-	-	-	-	175,350	175,350	Sanitary Sewer Enterprise (Unvoted)
Scioto Peninsula Improvements	-	2,720,430	-	-	-	-	2,720,430	Voted 2016 Debt - Sanitary Sewer
Scioto Peninsula Improvements	-	2,200,506	-	-	-	-	2,200,506	WPCLF/OWDA
Scioto Main Sanitary Pump Stations	510,000	-	4,500,000	-	-	-	5,010,000	Voted 2016 Debt - Sanitary Sewer
Scioto Main Sanitary Pump Stations	-	-	30,000,000	-	-	-	30,000,000	WPCLF/OWDA

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Scioto Main Sanitary Trunk Sewer Rehabilitation	85,000	637,500	-	-	-	-	722,500	Voted 2016 Debt - Sanitary Sewer
Scioto Main Sanitary Trunk Sewer Rehabilitation	-	10,000,000	-	-	-	-	10,000,000	WPCLF/OWDA
Meeklynn Drive Area Sanitary Sewer	255,000	-	-	-	-	-	255,000	Voted 2016 Debt - Sanitary Sewer
Meeklynn Drive Area Sanitary Sewer	2,000,000	-	-	-	-	-	2,000,000	WPCLF/OWDA
HSTS Elimination Program	-	-	-	250,000	250,000	250,000	750,000	Sanitary Sewer Enterprise (Unvoted)
HSTS Elimination Program	-	-	200,000	-	-	-	200,000	Voted 2016 Debt - Sanitary Sewer
HSTS Elimination Program	-	-	-	300,000	300,000	300,000	900,000	WPCLF/OWDA
Williams / Behm HSTS Elimination Project	-	318,750	-	-	-	-	318,750	Voted 2016 Debt - Sanitary Sewer
Williams / Behm HSTS Elimination Project	-	3,933,278	-	-	-	-	3,933,278	WPCLF/OWDA
Dyer / Lazar HSTS Elimination Project	85,000	344,250	-	-	-	-	429,250	Voted 2016 Debt - Sanitary Sewer
Dyer / Lazar HSTS Elimination Project	-	2,700,000	-	-	-	-	2,700,000	WPCLF/OWDA
Brooklyn / Cleveland HSTS Elimination Project	46,750	-	50,000	63,750	-	-	160,500	Voted 2016 Debt - Sanitary Sewer
Brooklyn / Cleveland HSTS Elimination Project	-	-	-	425,000	-	-	425,000	WPCLF/OWDA
Community Park / Maple Canyon HSTS Elimination Project	85,000	-	100,000	121,500	-	-	306,500	Voted 2016 Debt - Sanitary Sewer
Community Park / Maple Canyon HSTS Elimination Project	-	-	-	500,000	-	-	500,000	WPCLF/OWDA
Barnett / E Deshler HSTS Elimination Project	85,000	-	-	212,500	-	-	297,500	Voted 2016 Debt - Sanitary Sewer
Barnett / E Deshler HSTS Elimination Project	-	-	-	750,000	-	-	750,000	WPCLF/OWDA
Olentangy River Rd / Snouffer Rd HSTS Elimination Project	-	-	-	-	60,000	60,000	120,000	Sanitary Sewer Enterprise (Unvoted)
Subtotal - SANITARY SEWERS	\$ 265,072,658	\$ 321,813,630	\$ 582,411,091	\$ 169,275,725	\$ 172,986,727	\$ 374,708,423	\$ 1,886,268,254	
ELECTRICITY								
60 UIRF Funded Street Lighting Projects (Urban Infrastructure Recovery Fund)	-	-	-	505,000	505,000	505,000	1,515,000	Councilmanic SIT Supported
60 UIRF Funded Street Lighting Projects (Urban Infrastructure Recovery Fund)	-	505,000	505,000	-	-	-	1,010,000	Voted 2016 Debt - Electricity
South High Street Decorative Lighting - 2126	302,490	-	-	-	-	-	302,490	Voted 2016 Debt - Electricity
South High Street Decorative Lighting - 2140	241,800	-	-	-	-	-	241,800	Voted 2016 Debt - Electricity
Parsons Avenue Underpass Lighting - 2125	6,500	-	-	-	-	-	6,500	Voted 2016 Debt - Electricity
Mock Road Street Lighting - 1940	85,000	-	-	-	-	-	85,000	Voted 2016 Debt - Electricity
North Central Standard Lighting - 1938	295,000	-	-	-	-	-	295,000	Voted 2016 Debt - Electricity
Innis Road Standard Lighting - 1941	70,000	-	-	-	-	-	70,000	Voted 2016 Debt - Electricity
East Fifth Avenue Decorative Street Lighting	118,750	-	-	-	-	-	118,750	Voted 2016 Debt - Electricity
UIRF Cleveland Ave. - Chittenden to Hudson	1,086,930	-	-	-	-	-	1,086,930	Voted 2016 Debt - Electricity
DOP Streetlight Program	-	-	-	500,000	500,000	500,000	1,500,000	Electricity Enterprise (Unvoted)
DOP Streetlight Program	-	500,000	500,000	-	-	-	1,000,000	Voted 2016 Debt - Electricity
Morse Rd. (Ph. II) System Improvements, Circuit 7221	-	-	-	290,000	-	-	290,000	Electricity Enterprise (Unvoted)
Morse Rd. (Ph. III & IV) System Improvements	-	-	-	350,000	5,088,439	-	5,438,439	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2020	-	197,000	-	-	-	-	197,000	Voted 2016 Debt - Electricity
Substation 69 & 138KV OCB Replacement to SF6 2021	-	-	213,000	-	-	-	213,000	Voted 2016 Debt - Electricity
Substation 69 & 138KV OCB Replacement to SF6 2022	-	-	-	220,000	-	-	220,000	Electricity Enterprise (Unvoted)
Conversion to 3 Wire	-	-	300,000	300,000	300,000	300,000	1,200,000	Electricity Enterprise (Unvoted)
Forest Hills Street Lighting	-	-	-	469,260	-	-	469,260	Electricity Enterprise (Unvoted)
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)
Furnace St. Substation DT-1 Transformer Replacement	-	2,000,000	-	-	-	-	2,000,000	Voted 2016 Debt - Electricity
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	-	200,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2019	-	120,000	-	-	-	-	120,000	Voted 2016 Debt - Electricity
Oil Switch Replacement Program 2020	-	-	120,000	-	-	-	120,000	Voted 2016 Debt - Electricity
Oil Switch Replacement Program 2021	-	-	-	120,000	-	-	120,000	Electricity Enterprise (Unvoted)
Oil Switch Replacement Program 2022	-	-	-	-	120,000	-	120,000	Electricity Enterprise (Unvoted)
Tw in Rivers - Vine Street Lighting	-	-	40,000	-	200,000	-	240,000	Electricity Enterprise (Unvoted)
Fitzroy & Morse Rd Street Lighting	-	-	-	537,280	-	-	537,280	Electricity Enterprise (Unvoted)
Fitzroy & Morse Rd Street Lighting	-	116,800	-	-	-	-	116,800	Voted 2016 Debt - Electricity
Cherry Creek & Cherryhurst Street Lighting	-	-	50,000	-	250,000	-	300,000	Electricity Enterprise (Unvoted)
Sancus & Whitewater Street Lighting	-	-	70,000	362,000	-	-	432,000	Electricity Enterprise (Unvoted)
Jasonway & Knightsbridge Street Lighting	-	312,000	-	-	-	-	312,000	Voted 2016 Debt - Electricity

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
Clime Rd. Street Lighting	89,305	440,000	-	-	-	-	529,305	Voted 2016 Debt - Electricity
Capitol & Fulton Street Lighting	-	-	100,000	-	316,250	-	416,250	Electricity Enterprise (Unvoted)
Brookfield & Tupsfield Street Lighting	-	-	445,000	-	-	-	445,000	Voted 2016 Debt - Electricity
Sharbot & Tamarack Street Lighting	-	-	-	-	-	22,750	22,750	Electricity Enterprise (Unvoted)
Saw mill & Summitview Street Lighting	129,225	-	645,970	-	-	-	775,195	Voted 2016 Debt - Electricity
Riverview & Stinchcomb Street Lighting	50,000	-	221,250	-	-	-	271,250	Voted 2016 Debt - Electricity
Cleveland Avenue Street Lighting	-	-	140,775	-	-	-	140,775	Electricity Enterprise (Unvoted)
Cleveland Avenue Street Lighting	-	42,400	140,775	-	-	-	183,175	Voted 2016 Debt - Electricity
Cherry & Lazelle Rd Street Lighting	-	-	-	-	135,000	-	135,000	Electricity Enterprise (Unvoted)
GENERAL ENGINEERING CONTRACT 2019 - 2022	-	-	150,000	-	-	-	150,000	Electricity Enterprise (Unvoted)
GENERAL ENGINEERING CONTRACT 2022-2025	-	-	-	100,000	100,000	100,000	300,000	Electricity Enterprise (Unvoted)
Circuit 237 Street Lighting Improvement Upgrade	-	1,017,750	-	-	-	-	1,017,750	Voted 2016 Debt - Electricity
Circuit 30 Street Lighting Improvement Upgrade	-	-	1,059,500	-	-	-	1,059,500	Electricity Enterprise (Unvoted)
Security & Emergency Preparedness - Power	25,000	-	-	-	-	-	25,000	Voted 2016 Debt - Electricity
SMART Streetlighting	-	-	-	7,000,000	7,000,000	7,000,000	21,000,000	Electricity Enterprise (Unvoted)
SMART Streetlighting	-	7,000,000	7,000,000	-	-	-	14,000,000	Voted 2016 Debt - Electricity
Underground / Overhead Service Contract	-	-	500,000	500,000	500,000	500,000	2,000,000	Electricity Enterprise (Unvoted)
60' Line Truck, Heavy Duty	-	-	450,000	-	-	-	450,000	Voted 2016 Debt - Electricity
System Neutral and Grounding Improvements	-	-	116,945	200,000	200,000	200,000	716,945	Electricity Enterprise (Unvoted)
System Neutral and Grounding Improvements	-	200,000	83,055	-	-	-	283,055	Voted 2016 Debt - Electricity
Voltage Conversions and Reconductoring	-	-	-	1,000,000	1,000,000	1,000,000	3,000,000	Electricity Enterprise (Unvoted)
Voltage Conversions and Reconductoring	-	1,250,000	1,000,000	-	-	-	2,250,000	Voted 2016 Debt - Electricity
System Protection Improvements	-	-	-	500,000	500,000	500,000	1,500,000	Electricity Enterprise (Unvoted)
System Protection Improvements	-	500,000	500,000	-	-	-	1,000,000	Voted 2016 Debt - Electricity
Cutout and Lightning Arrester Replacements	-	-	-	200,000	200,000	200,000	600,000	Electricity Enterprise (Unvoted)
Cutout and Lightning Arrester Replacements	-	200,000	200,000	-	-	-	400,000	Voted 2016 Debt - Electricity
Subtotal - ELECTRICITY	\$ 2,500,000	\$ 14,400,950	\$ 14,551,270	\$ 15,153,540	\$ 17,329,689	\$ 14,389,750	\$ 78,325,199	
WATER								
Hoover Reservoir Erosion Control	180,000	1,700,000	-	-	-	-	1,880,000	Voted 2013 Debt - Water
Misc. Erosion Control	90,000	100,000	-	-	-	-	190,000	Voted 2013 Debt - Water
Misc. Erosion Control	-	-	100,000	90,000	-	-	190,000	Voted 2016 Debt - Water
Misc. Erosion Control	-	-	-	-	90,000	100,000	190,000	Water Enterprise (Unvoted)
Miscellaneous Water Facilities	90,000	100,000	-	-	-	-	190,000	Voted 2013 Debt - Water
Miscellaneous Water Facilities	-	-	100,000	90,000	-	-	190,000	Voted 2016 Debt - Water
Miscellaneous Water Facilities	-	-	-	-	90,000	100,000	190,000	Water Enterprise (Unvoted)
Indianola Facility Improvements	540,000	400,000	2,500,000	-	-	-	3,440,000	Voted 2013 Debt - Water
Indianola Facility Improvements	-	-	-	7,000,000	-	-	7,000,000	Voted 2016 Debt - Water
Indianola Facility Improvements	-	-	-	18,000,000	-	-	18,000,000	Water Enterprise (Unvoted)
Rinehart Public Utilities Complex Exterior Site Improvements	5,692,500	-	-	-	-	-	5,692,500	Voted 2013 Debt - Water
Rinehart Public Utilities Complex Exterior Site Improvements	-	-	-	-	450,000	-	450,000	Water Enterprise (Unvoted)
Distribution Maintenance Area Imp's	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
910 Dublin Road Garage Roof Replacement	-	-	712,000	-	-	-	712,000	Voted 2013 Debt - Water
910 Dublin Road Garage Roof Replacement	-	-	788,000	-	-	-	788,000	Voted 2016 Debt - Water
910 Dublin Road Standby Power Improvements	-	150,000	-	-	-	-	150,000	Voted 2013 Debt - Water
Water Main Rehabilitation	4,500,000	6,000,000	-	-	-	-	10,500,000	Voted 2013 Debt - Water
Water Main Rehabilitation	-	-	24,000,000	-	-	-	24,000,000	Voted 2016 Debt - Water
Water Main Rehabilitation	-	-	-	27,000,000	30,000,000	30,000,000	87,000,000	Water Enterprise (Unvoted)
Main St. & James Rd. W.L. Imp's	1,440,000	-	-	-	-	-	1,440,000	Voted 2013 Debt - Water
South Broadleigh Road Area WL Imp's	540,000	-	-	-	-	-	540,000	Voted 2013 Debt - Water
South Broadleigh Road Area WL Imp's	4,300,000	-	-	-	-	-	4,300,000	WSRLA Loan
Dresden St. Area WL Imp's	405,000	-	-	-	-	-	405,000	Voted 2013 Debt - Water
Harrington Ct. Area WL Imp's	270,000	-	-	-	-	-	270,000	Voted 2013 Debt - Water
Harrington Ct. Area WL Imp's	2,700,000	-	-	-	-	-	2,700,000	WSRLA Loan
East Gates Street Area Water Line Imp's	297,000	-	-	-	-	-	297,000	Voted 2013 Debt - Water

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
East Gates Street Area Water Line Imp's	3,300,000	-	-	-	-	-	3,300,000	WSRLA Loan
Thomas Lane Area Water Line Imp's	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Thomas Lane Area Water Line Imp's	2,600,000	-	-	-	-	-	2,600,000	WSRLA Loan
Valleyview Drive Area Water Line Imp's	405,000	-	-	-	-	-	405,000	Voted 2013 Debt - Water
Valleyview Drive Area Water Line Imp's	4,000,000	-	-	-	-	-	4,000,000	WSRLA Loan
Ziegler Ave. Area WL Imp's	-	270,000	-	-	-	-	270,000	Voted 2013 Debt - Water
Ziegler Ave. Area WL Imp's	-	2,700,000	-	-	-	-	2,700,000	WSRLA Loan
South Weyant Ave. Area WL Imp's	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
South Weyant Ave. Area WL Imp's	-	3,300,000	-	-	-	-	3,300,000	WSRLA Loan
Chestershire Rd. Area WL Imp's	-	300,000	-	-	-	-	300,000	Voted 2013 Debt - Water
Chestershire Rd. Area WL Imp's	-	2,700,000	-	-	-	-	2,700,000	WSRLA Loan
Atwood Terrace Area WL Imp's	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
Atwood Terrace Area WL Imp's	-	3,000,000	-	-	-	-	3,000,000	WSRLA Loan
Greenway Ave. Area WL Imp's	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
Greenway Ave. Area WL Imp's	-	3,000,000	-	-	-	-	3,000,000	WSRLA Loan
Woodland Ave. Area WL Imp's	-	400,000	-	-	-	-	400,000	Voted 2013 Debt - Water
Woodland Ave. Area WL Imp's	-	3,000,000	-	-	-	-	3,000,000	WSRLA Loan
Project No. 56 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 56 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Project No. 57 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 57 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Project No. 58 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 58 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Project No. 59 W.M. Replacement	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Project No. 59 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 59 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Project No. 60 W.M. Replacement	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Project No. 60 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 60 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Project No. 61 W.M. Replacement	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Project No. 61 W.M. Replacement	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Project No. 61 W.M. Replacement	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Livingston Ave Phase B W.L. Imp's	-	-	100,000	-	-	-	100,000	Voted 2016 Debt - Water
Transite Pipe Replacement	270,000	-	-	-	-	-	270,000	Voted 2013 Debt - Water
Transite Pipe Replacement	2,000,000	-	-	-	-	-	2,000,000	WSRLA Loan
Manchester Avenue WL Imp's	1,035,000	-	-	-	-	-	1,035,000	Voted 2013 Debt - Water
E. Franklinton WL Imp's (2017) - Constr. Phase 1	900,000	-	-	-	-	-	900,000	Voted 2013 Debt - Water
E. Franklinton WL Imp's (2017) - Constr. Phase 1	-	-	3,000,000	-	-	-	3,000,000	Voted 2016 Debt - Water
Oakland Park / Medina WL Imp's	1,035,000	-	-	-	-	-	1,035,000	Voted 2013 Debt - Water
Sunrise Glenn WL Imp's	-	550,000	-	-	-	-	550,000	Voted 2013 Debt - Water
Central College Road 16-Inch Waterline Extension	90,000	-	-	-	-	-	90,000	Voted 2013 Debt - Water
New ton/Bedford WL Imp's	594,000	-	-	-	-	-	594,000	Voted 2013 Debt - Water
O'Shaughnessy Dam FERC Independent Consultant Review	135,000	250,000	-	-	-	-	385,000	Voted 2013 Debt - Water
O'Shaughnessy Dam FERC Independent Consultant Review	-	-	250,000	-	-	-	250,000	Voted 2016 Debt - Water
DRWP Miscellaneous Improvements	90,000	100,000	-	-	-	-	190,000	Voted 2013 Debt - Water
DRWP Miscellaneous Improvements	-	-	110,000	103,500	-	-	213,500	Voted 2016 Debt - Water
DRWP Miscellaneous Improvements	-	-	-	-	108,000	120,000	228,000	Water Enterprise (Unvoted)
DRWP Misc. Imp's - Exterior Door and Window Replacement	-	-	-	-	-	1,500,000	1,500,000	Water Enterprise (Unvoted)
DRWP Misc. Imp's - Educational Signage & Displays	-	-	150,000	-	-	-	150,000	Voted 2016 Debt - Water
DRWP Misc. Imp's - Basin Clarifier Rehab	540,000	-	-	-	-	-	540,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin Clarifier Rehab	6,000,000	-	-	-	-	-	6,000,000	WSRLA Loan
DRWP Alum Feed Improvements	-	-	-	-	-	250,000	250,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements	90,000	110,000	-	-	-	-	200,000	Voted 2013 Debt - Water
HCWP Misc. Improvements	-	-	115,000	108,000	-	-	223,000	Voted 2016 Debt - Water
HCWP Misc. Improvements	-	-	-	-	108,000	120,000	228,000	Water Enterprise (Unvoted)

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
HCWP Misc. Improvements - HCWP Clearwell Actuator Replacement	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
HCWP Misc. Imp's - Raw Water Screen Replacement	-	450,000	-	-	-	-	450,000	Voted 2013 Debt - Water
HCWP Misc. Imp's - Raw Water Screen Replacement	-	-	-	315,000	-	-	315,000	Voted 2016 Debt - Water
HCWP Misc. Imp's - Raw Water Screen Replacement	-	-	-	3,000,000	-	-	3,000,000	WSRLA Loan
HCWP Misc. Imp's - Restroom Imp's	-	-	350,000	-	-	-	350,000	Voted 2016 Debt - Water
HCWP Misc. Improvements - Misc. Concrete Improvements	-	-	-	-	-	350,000	350,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements - Plant Roadway Improvements	-	-	-	-	540,000	-	540,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements - Roof Improvements	-	-	-	-	-	300,000	300,000	Water Enterprise (Unvoted)
Distribution Imp's - 2019 Water Audit	450,000	-	-	-	-	-	450,000	Voted 2013 Debt - Water
New Technologies in Leak Detection	90,000	100,000	-	-	-	-	190,000	Voted 2013 Debt - Water
New Technologies in Leak Detection	-	-	100,000	90,000	-	-	190,000	Voted 2016 Debt - Water
New Technologies in Leak Detection	-	-	-	-	90,000	100,000	190,000	Water Enterprise (Unvoted)
PAWP Facility Misc. Improvements	99,000	110,000	-	-	-	-	209,000	Voted 2013 Debt - Water
PAWP Facility Misc. Improvements	-	-	115,000	108,000	-	-	223,000	Voted 2016 Debt - Water
PAWP Facility Misc. Improvements	-	-	-	-	108,000	120,000	228,000	Water Enterprise (Unvoted)
PAWP Misc. Imp's - Lime Slaker and Soda Ash Feeder Replacement	-	700,000	-	-	-	-	700,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Lime Slaker and Soda Ash Feeder Replacement	-	6,000,000	-	-	-	-	6,000,000	WSRLA Loan
PAWP Misc. Imp's - Control Room Renovation	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Control Room Renovation	-	-	350,000	-	-	-	350,000	Voted 2016 Debt - Water
PAWP Misc. Imp's - Control Room Renovation	-	-	2,500,000	-	-	-	2,500,000	WSRLA Loan
PAWP Misc. Imp's - Chemical Storage Tank Imp's	-	-	500,000	-	-	-	500,000	WSRLA Loan
PAWP Misc. Imp's - Laboratory Renovation	-	1,500,000	-	-	-	-	1,500,000	WSRLA Loan
PAWP Misc. Imp's - Roof Renovations - Part 1	-	-	800,000	-	-	-	800,000	Voted 2016 Debt - Water
PAWP Misc. Imp's - Roof Renovations - Part 2	-	-	-	-	720,000	-	720,000	Water Enterprise (Unvoted)
McKinley Avenue Quarry Misc. Improvements 2021	-	-	1,100,000	-	-	-	1,100,000	Voted 2016 Debt - Water
Automatic Meter Reading	900,000	1,000,000	-	-	-	-	1,900,000	Voted 2013 Debt - Water
Automatic Meter Reading	-	-	1,000,000	900,000	-	-	1,900,000	Voted 2016 Debt - Water
Automatic Meter Reading	30,000,000	25,000,000	25,000,000	25,000,000	25,000,000	-	130,000,000	WSRLA Loan
Automatic Meter Reading	-	-	-	-	900,000	-	900,000	Water Enterprise (Unvoted)
South Wellfield Expansion - RWL Pickaway Co.	-	-	800,000	-	-	-	800,000	Voted 2016 Debt - Water
South Wellfield Expansion - RWL Pickaway Co.	-	-	-	-	10,000,000	-	10,000,000	Water Enterprise (Unvoted)
South Wellfield Expansion - CW-201/202 & VW's	-	-	1,200,000	-	-	-	1,200,000	Voted 2016 Debt - Water
South Wellfield Expansion - CW-201/202 & VW's	-	-	-	-	16,000,000	-	16,000,000	Water Enterprise (Unvoted)
HCWP Basin Concrete Rehab.	1,080,000	-	-	-	-	-	1,080,000	Voted 2013 Debt - Water
HCWP Basin Concrete Rehab.	6,000,000	-	-	-	-	-	6,000,000	WSRLA Loan
HCWP Basin Concrete Rehabilitation Part 2	-	9,000,000	-	-	-	-	9,000,000	WSRLA Loan
HCWP A & B Raw & Fin. Water	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Water
Water Meter Renewal	2,025,000	2,250,000	-	-	-	-	4,275,000	Voted 2013 Debt - Water
Water Meter Renewal	-	-	2,500,000	2,000,000	-	-	4,500,000	Voted 2016 Debt - Water
Water Meter Renewal	-	-	-	-	2,250,000	2,500,000	4,750,000	Water Enterprise (Unvoted)
Valve Renewal Program	2,250,000	-	-	-	-	-	2,250,000	Voted 2013 Debt - Water
Valve Renewal Program	-	-	2,500,000	-	-	-	2,500,000	Voted 2016 Debt - Water
Valve Renewal Program	-	-	-	-	2,250,000	-	2,250,000	Water Enterprise (Unvoted)
Watershed Misc. Improv. Facilities	99,000	110,000	-	-	-	-	209,000	Voted 2013 Debt - Water
Watershed Misc. Improv. Facilities	-	-	115,000	108,000	-	-	223,000	Voted 2016 Debt - Water
Watershed Misc. Improv. Facilities	-	-	-	-	108,000	120,000	228,000	Water Enterprise (Unvoted)
Watershed Misc. Imp's - Griggs Boat Launch Imp's	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Griggs Dam - Spillway, Abutment and Scour Mitigation Imp's	-	-	-	-	-	400,000	400,000	Water Enterprise (Unvoted)
Hoover Dam Imp's - Part 1	-	14,400,000	-	-	-	-	14,400,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	500,000	-	-	-	-	500,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	-	-	4,000,000	-	-	4,000,000	Voted 2016 Debt - Water
Watershed Misc. Imp's - Hoover Maintenance Complex Fuel System	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
Watershed Protection Easements	99,000	110,000	-	-	-	-	209,000	Voted 2013 Debt - Water
Watershed Protection Easements	-	-	115,000	108,000	-	-	223,000	Voted 2016 Debt - Water
Watershed Protection Easements	-	-	-	-	108,000	120,000	228,000	Water Enterprise (Unvoted)

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
O'Shaughnessy Hydroelectric Imps	11,970,000	-	-	-	-	-	11,970,000	Voted 2013 Debt - Water
Gen'l Eng. Svcs - Supply Group 2018A	360,000	400,000	-	-	-	-	760,000	Voted 2013 Debt - Water
Gen'l Eng. Svcs - Supply Group 2018B	360,000	400,000	-	-	-	-	760,000	Voted 2013 Debt - Water
Gen'l Eng. Svcs - Supply Group 2021A	-	-	400,000	360,000	-	-	760,000	Voted 2016 Debt - Water
Gen'l Eng. Svcs - Supply Group 2021A	-	-	-	-	360,000	-	360,000	Water Enterprise (Unvoted)
Gen'l Eng. Svcs - Supply Group 2021B	-	-	400,000	360,000	-	-	760,000	Voted 2016 Debt - Water
Gen'l Eng. Svcs - Supply Group 2021B	-	-	-	-	400,000	-	400,000	Water Enterprise (Unvoted)
Gen'l Eng. Svcs - Supply Group 2024A	-	-	-	-	-	450,000	450,000	Water Enterprise (Unvoted)
Gen'l Eng. Svcs - Supply Group 2024B	-	-	-	-	-	450,000	450,000	Water Enterprise (Unvoted)
O'Shaughnessy Gatehouse Misc. Imp's	-	1,000,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	720,000	1,000,000	-	-	-	-	1,720,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	-	-	1,000,000	900,000	-	-	1,900,000	Voted 2016 Debt - Water
Misc. Booster Station and Water Tank Imp's	-	-	-	-	900,000	1,000,000	1,900,000	Water Enterprise (Unvoted)
Water Storage Tank Painting	1,350,000	1,250,000	-	-	-	-	2,600,000	Voted 2013 Debt - Water
Water Storage Tank Painting	-	-	2,000,000	2,000,000	-	-	4,000,000	Voted 2016 Debt - Water
Water Storage Tank Painting	-	-	-	-	1,350,000	2,000,000	3,350,000	Water Enterprise (Unvoted)
Security Enhancements - 910 Dublin Road	2,340,000	-	-	-	-	-	2,340,000	Voted 2013 Debt - Water
Security Enhancements - PAWP	-	-	-	-	-	5,000,000	5,000,000	Water Enterprise (Unvoted)
HCWP Hypochlorite Disinfection Improvements	-	1,505,000	-	-	-	-	1,505,000	Voted 2013 Debt - Water
HCWP Hypochlorite Disinfection Improvements	-	13,200,000	-	-	-	-	13,200,000	WSRLA Loan
PAWP Hypochlorite Disinfection Improvements	-	1,000,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
PAWP Hypochlorite Disinfection Improvements	-	10,500,000	-	-	-	-	10,500,000	WSRLA Loan
HCWP Window Replacement	-	500,000	-	-	-	-	500,000	Voted 2013 Debt - Water
PAWP Automation Upgrade - 2019	2,250,000	-	-	-	-	-	2,250,000	Voted 2013 Debt - Water
HCWP, DRWP, & PAWP Coating Project	-	-	-	90,000	-	-	90,000	Voted 2016 Debt - Water
HCWP, DRWP, & PAWP Coating Project	-	-	-	-	765,000	-	765,000	Water Enterprise (Unvoted)
Dublin Road 30" Water Line	-	700,000	-	-	-	-	700,000	Voted 2013 Debt - Water
Dublin Road 30" Water Line	-	7,000,000	-	-	-	-	7,000,000	WSRLA Loan
HCWP Sludge Disposal Line Imp's	-	600,000	-	-	-	-	600,000	Voted 2013 Debt - Water
HCWP Sludge Disposal Line Imp's	-	7,500,000	-	-	-	-	7,500,000	WSRLA Loan
HCWP Intake Structure & Low Head Dam Rehabilitation	-	5,750,000	-	-	-	-	5,750,000	Voted 2013 Debt - Water
PAWP HVAC Improvements	4,657,500	-	-	-	-	-	4,657,500	Voted 2013 Debt - Water
Water Treatment Plant Environmental Upgrades	-	350,000	-	-	-	-	350,000	Voted 2013 Debt - Water
Water Treatment Plant Environmental Upgrades	-	-	-	225,000	-	-	225,000	Voted 2016 Debt - Water
Water Treatment Plant Environmental Upgrades	-	-	-	2,000,000	-	-	2,000,000	WSRLA Loan
Water Quality Assurance Lab Renovations	8,280,000	-	-	-	-	-	8,280,000	Voted 2013 Debt - Water
Lead Water Tap Replacement Program	-	1,500,000	-	-	-	-	1,500,000	Voted 2013 Debt - Water
Lead Water Tap Replacement Program	-	-	-	1,350,000	-	-	1,350,000	Voted 2016 Debt - Water
Lead Water Tap Replacement Program	-	-	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000	WSRLA Loan
Lead Water Tap Replacement Program	-	-	-	-	-	1,000,000	1,000,000	Water Enterprise (Unvoted)
Water Distribution System SCADA Improvements	-	-	-	-	-	2,000,000	2,000,000	WSRLA Loan
Water Distribution System SCADA Improvements	-	-	-	225,000	-	250,000	475,000	Water Enterprise (Unvoted)
DRWP Laboratory Upgrades	-	1,500,000	-	-	-	-	1,500,000	Voted 2013 Debt - Water
DRWP Central Maintenance Shop	-	-	-	-	-	750,000	750,000	Water Enterprise (Unvoted)
Watershed Facilities Improvements	-	-	2,250,000	225,000	-	-	2,475,000	Voted 2016 Debt - Water
Watershed Facilities Improvements	-	-	-	-	-	1,250,000	1,250,000	Water Enterprise (Unvoted)
Fire Hydrant Repairs (non R & R)	900,000	-	-	-	-	-	900,000	Voted 2013 Debt - Water
Fire Hydrant Repairs (non R & R)	-	-	1,000,000	-	-	-	1,000,000	Voted 2016 Debt - Water
Fire Hydrant Repairs (non R & R)	-	-	-	-	900,000	-	900,000	Water Enterprise (Unvoted)
Gen'l Engineering Services - Distribution Group	450,000	600,000	-	-	-	-	1,050,000	Voted 2013 Debt - Water
Gen'l Engineering Services - Distribution Group	-	-	600,000	540,000	-	-	1,140,000	Voted 2016 Debt - Water
Gen'l Engineering Services - Distribution Group	-	-	-	-	540,000	600,000	1,140,000	Water Enterprise (Unvoted)
PAWP Well Pump Replacement - CWs #101, #104, and #115	315,000	-	-	-	-	-	315,000	Voted 2013 Debt - Water
PAWP Well Pump Replacement - CWs #101, #104, and #115	3,900,000	-	-	-	-	-	3,900,000	WSRLA Loan
DRWP UV Disinfection	1,260,000	-	-	-	-	-	1,260,000	Voted 2013 Debt - Water

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
HCWP UV Disinfection	900,000	-	-	-	-	-	900,000	Voted 2013 Debt - Water
Karl Road Water Tank	-	-	-	450,000	-	-	450,000	Voted 2016 Debt - Water
Karl Road Water Tank	-	-	-	-	-	6,000,000	6,000,000	Water Enterprise (Unvoted)
Condition Assessment Program	-	-	-	1,350,000	-	-	1,350,000	Voted 2016 Debt - Water
Condition Assessment Program	-	-	-	-	-	1,500,000	1,500,000	Water Enterprise (Unvoted)
General Architectural Services - Division of Water 2018	270,000	300,000	-	-	-	-	570,000	Voted 2013 Debt - Water
General Architectural Services - Division of Water 2018	-	-	300,000	270,000	-	-	570,000	Voted 2016 Debt - Water
General Architectural Services - Division of Water 2018	-	-	-	-	270,000	300,000	570,000	Water Enterprise (Unvoted)
Wellfield Protection Boundary Update	-	100,000	-	-	-	-	100,000	Voted 2013 Debt - Water
HCWP Lime Dust Collection System	90,000	850,000	-	-	-	-	940,000	Voted 2013 Debt - Water
General Construction (CA-CI)	360,000	800,000	400,000	-	-	-	1,560,000	Voted 2013 Debt - Water
General Construction (CA-CI)	-	-	-	360,000	-	-	360,000	Voted 2016 Debt - Water
General Construction (CA-CI)	-	-	-	-	360,000	400,000	760,000	Water Enterprise (Unvoted)
Hoover Reservoir Erosion Study	270,000	-	-	-	-	-	270,000	Voted 2013 Debt - Water
Plant Drain & Water System Imp's	135,000	2,600,000	-	-	-	-	2,735,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - Part II	4,410,000	2,000,000	-	-	-	-	6,410,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - Part II	-	-	1,000,000	-	-	-	1,000,000	Voted 2016 Debt - Water
Laboratory Upgrades	1,035,000	450,000	-	-	-	-	1,485,000	Voted 2013 Debt - Water
Dam Engineering Services (DES)	-	-	150,000	135,000	-	-	285,000	Voted 2016 Debt - Water
Dam Engineering Services (DES)	-	-	-	-	135,000	150,000	285,000	Water Enterprise (Unvoted)
Security & Emergency Preparedness - DOW	90,000	-	-	-	-	-	90,000	Voted 2013 Debt - Water
Land Stewardship Update	-	250,000	-	-	-	-	250,000	Voted 2013 Debt - Water
DPJ Hazardous Energy Control (DOW)	90,000	75,000	-	-	-	-	165,000	Voted 2013 Debt - Water
DPJ Hazardous Energy Control (DOW)	-	-	-	-	3,200,000	-	3,200,000	Water Enterprise (Unvoted)
HCWP Sludge Removal - Lagoon 1 & 2	1,485,000	-	-	-	-	-	1,485,000	Voted 2013 Debt - Water
HCWP Sludge Removal - Lagoon 1 & 2	-	-	1,980,000	1,782,000	-	-	3,762,000	Voted 2016 Debt - Water
HCWP Sludge Removal - Lagoon 1 & 2	-	-	-	-	-	1,650,000	1,650,000	Water Enterprise (Unvoted)
DRWP Clearwell Improvements	-	-	-	-	-	20,000,000	20,000,000	WSRLA Loan
DRWP Clearwell Improvements	-	-	-	270,000	1,530,000	1,000,000	2,800,000	Water Enterprise (Unvoted)
DRWP Auxiliary Pump Station Imp's	-	-	-	-	-	500,000	500,000	Water Enterprise (Unvoted)
PAWP Building Improvements	-	-	250,000	1,575,000	-	-	1,825,000	Voted 2016 Debt - Water
HCWPAOP Improvements	-	-	-	-	-	500,000	500,000	Water Enterprise (Unvoted)
HCWP Clearwell Improvements	-	-	-	-	-	3,000,000	3,000,000	WSRLA Loan
HCWP Clearwell Improvements	-	-	-	-	315,000	200,000	515,000	Water Enterprise (Unvoted)
PAWP Lagoon Sludge Removal	-	-	-	5,040,000	5,040,000	5,600,000	15,680,000	Water Enterprise (Unvoted)
DRWP Automation Upgrade	-	-	-	2,000,000	-	-	2,000,000	Voted 2016 Debt - Water
PAWP Remote Site Improvements	-	-	350,000	270,000	-	-	620,000	Voted 2016 Debt - Water
Elevator Improvements	-	-	-	360,000	-	-	360,000	Voted 2016 Debt - Water
Watershed Signage Master Plan	-	100,000	-	-	-	-	100,000	Voted 2013 Debt - Water
Watershed Signage Master Plan	-	-	-	225,000	-	-	225,000	Voted 2016 Debt - Water
Watershed Signage Master Plan	-	-	-	-	135,000	-	135,000	Water Enterprise (Unvoted)
DOW Risk Mitigation Measure Upgrades	-	-	600,000	900,000	-	-	1,500,000	Voted 2016 Debt - Water
DOW Risk Mitigation Measure Upgrades	-	-	-	-	900,000	500,000	1,400,000	Water Enterprise (Unvoted)
DOW LIMS Upgrade	540,000	-	-	-	-	-	540,000	Voted 2013 Debt - Water
Electrical Power System Studies	405,000	200,000	-	-	-	-	605,000	Voted 2013 Debt - Water
Electrical Power System Studies	-	-	225,000	202,500	-	-	427,500	Voted 2016 Debt - Water
Electrical Power System Studies	-	-	-	-	225,000	-	225,000	Water Enterprise (Unvoted)
RTU Replacement	-	-	200,000	90,000	-	-	290,000	Voted 2016 Debt - Water
RTU Replacement	-	-	-	-	585,000	-	585,000	Water Enterprise (Unvoted)
DOW Safety Improvements	-	-	300,000	1,215,000	-	-	1,515,000	Voted 2016 Debt - Water
DRWP Intake Screen Replacement	-	-	-	-	-	1,250,000	1,250,000	WSRLA Loan
DRWP Intake Screen Replacement	-	-	-	180,000	-	150,000	330,000	Water Enterprise (Unvoted)
DRWP Caustic Feed Improvements	-	150,000	-	-	-	-	150,000	Voted 2013 Debt - Water
DRWP Caustic Feed Improvements	-	-	150,000	3,562,000	-	-	3,712,000	Voted 2016 Debt - Water
DRWP Caustic Feed Improvements	-	-	500,000	-	-	-	500,000	WSRLA Loan

Capital Improvements Program

2019 - 2024 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2019	2020	2021	2022	2023	2024	Total Budget	Funding Source
DRWP Caustic Feed Improvements	-	-	-	438,000	2,500,000	500,000	3,438,000	Water Enterprise (Unvoted)
PAWP Sludge Disposal Improvements	1,080,000	800,000	-	-	-	-	1,880,000	Voted 2013 Debt - Water
PAWP Sludge Disposal Improvements	-	-	10,000,000	-	-	-	10,000,000	WSRLA Loan
PAWP Wellfield Development	-	-	-	-	720,000	8,300,000	9,020,000	Water Enterprise (Unvoted)
DOW Perimeter Fence Improvements	-	-	-	675,000	-	-	675,000	Voted 2016 Debt - Water
DOW Perimeter Fence Improvements	-	-	-	-	360,000	-	360,000	Water Enterprise (Unvoted)
Large Diameter Valve Replacement	-	-	-	-	-	2,000,000	2,000,000	WSRLA Loan
PAWP Backwash Pump Replacement	-	-	-	-	225,000	250,000	475,000	Water Enterprise (Unvoted)
Upground Reservoir Embankment Repairs - 2019	270,000	-	-	-	-	-	270,000	Voted 2013 Debt - Water
Upground Reservoir Embankment Repairs - 2023	-	-	-	-	450,000	-	450,000	Water Enterprise (Unvoted)
Watershed Boathouse Improvements	-	-	-	-	202,500	600,000	802,500	Water Enterprise (Unvoted)
Professional Construction Management (PCM) - 2018	4,500,000	4,500,000	-	-	-	-	9,000,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - 2018	-	-	3,000,000	900,000	-	-	3,900,000	Voted 2016 Debt - Water
Professional Construction Management (PCM) - 2020	-	3,000,000	-	-	-	-	3,000,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - 2020	-	-	4,000,000	-	-	-	4,000,000	Voted 2016 Debt - Water
Professional Construction Management (PCM) - 2020	-	-	-	4,000,000	2,000,000	-	6,000,000	Water Enterprise (Unvoted)
Professional Construction Management (PCM) - 2022	-	-	-	2,000,000	4,000,000	4,000,000	10,000,000	Water Enterprise (Unvoted)
Professional Construction Management (PCM) - 2024	-	-	-	-	-	2,000,000	2,000,000	Water Enterprise (Unvoted)
Olentangy River Rd. 24" Water Main (Phase 1)	225,000	-	-	-	-	-	225,000	Voted 2013 Debt - Water
Olentangy River Rd. 24" Water Main (Phase 1)	1,600,000	-	-	-	-	-	1,600,000	WSRLA Loan
Olentangy River Road 24-Inch Water Main (Phase 2)	360,000	-	-	-	-	-	360,000	Voted 2013 Debt - Water
Olentangy River Road 24-Inch Water Main (Phase 2)	2,800,000	-	-	-	-	-	2,800,000	WSRLA Loan
Large Diameter Valve Replacement Program	-	1,000,000	-	-	-	-	1,000,000	Voted 2013 Debt - Water
Large Diameter Valve Replacement Program	-	-	1,000,000	900,000	-	-	1,900,000	Voted 2016 Debt - Water
Large Diameter Valve Replacement Program	-	-	-	-	900,000	1,000,000	1,900,000	Water Enterprise (Unvoted)
Large Diameter Valve Replacement Part 2	900,000	-	-	-	-	-	900,000	Voted 2013 Debt - Water
PAWP Filter Console Replacement	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
PAWP Quarry Demolition	-	-	400,000	-	-	-	400,000	Voted 2016 Debt - Water
Subtotal - WATER	\$ 149,473,000	\$ 165,440,000	\$ 125,825,000	\$ 127,445,000	\$ 120,187,500	\$ 114,500,000	\$ 802,870,500	
Grand Total	\$ 558,157,658	\$ 615,794,580	\$ 835,197,361	\$ 439,349,265	\$ 435,858,916	\$ 611,848,173	\$ 3,496,205,953	

Capital Improvements Program

2019-2024 CAPITAL IMPROVEMENTS PROGRAM							
FUNDING SUMMARY BY DIVISION							
DIVISION	2019	2020	2021	2022	2023	2024	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	13,750,000	8,690,000	8,690,000	8,690,000	8,690,000	8,690,000	57,200,000
Fleet Management	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000
Police	2,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	11,080,000
Fire	12,000,000	7,320,000	7,320,000	7,320,000	7,320,000	7,320,000	48,600,000
Transportation	48,910,000	43,905,000	43,905,000	43,905,000	43,905,000	43,905,000	268,435,000
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	24,927,000	12,740,000	13,665,000	27,110,000	26,055,000	5,645,000	110,142,000
Sanitary Sewers	265,072,658	321,813,630	582,411,091	169,275,725	172,986,727	374,708,423	1,886,268,254
Electricity	2,500,000	14,400,950	14,551,270	15,153,540	17,329,689	14,389,750	78,325,199
Water	149,473,000	165,440,000	125,825,000	127,445,000	120,187,500	114,500,000	802,870,500
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	5,585,000	6,545,000	3,890,000	5,510,000	4,445,000	7,750,000	33,725,000
Total	\$ 558,157,658	\$ 615,794,580	\$ 835,197,361	\$ 439,349,265	\$ 435,858,916	\$ 611,848,173	\$ 3,496,205,953

Capital Improvements Program

2019-2024 CAPITAL IMPROVEMENTS PROGRAM							
FUNDING SUMMARY BY SOURCE							
FUNDING SOURCE	2019	2020	2021	2022	2023	2024	Total Budget
Sanitary Sewer Enterprise (Unvoted)	\$ -	\$ -	\$ -	\$ 43,651,871	\$ 42,782,646	\$ 115,889,527	\$ 202,324,044
Voted 2013 Debt - Water	80,273,000	68,040,000	3,612,000	-	-	-	151,925,000
Voted 2016 Debt - Electricity	2,500,000	14,400,950	12,024,050	-	-	-	28,925,000
Voted 2016 Debt - Storm	12,670,000	8,640,000	9,865,000	10,360,000	5,405,000	500,000	47,440,000
Voted 2016 Debt SIT Supported	67,830,000	31,780,000	21,925,000	-	-	-	121,535,000
Fleet Management (Unvoted)	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000
Electricity Enterprise (Unvoted)	-	-	2,527,220	14,648,540	16,824,689	13,884,750	47,885,199
Storm Sewer Enterprise (Unvoted)	-	-	-	-	-	4,495,000	4,495,000
WPCLF/OWDA	191,323,162	246,388,905	512,365,923	119,715,243	150,854,081	259,468,896	1,480,116,210
Water Enterprise (Unvoted)	-	-	-	57,153,000	93,187,500	84,250,000	234,590,500
Councilmanic SIT Supported	41,970,000	62,275,000	72,130,000	94,560,000	94,560,000	94,560,000	460,055,000
Voted 2016 Debt - Sanitary Sewer	86,006,496	79,524,725	73,845,168	22,658,611	-	-	262,035,000
WSRLA Loan	69,200,000	97,400,000	58,500,000	32,000,000	27,000,000	30,250,000	314,350,000
Voted 2016 Debt - Water	-	-	63,713,000	38,292,000	-	-	102,005,000
Information Services	5,585,000	6,545,000	3,890,000	5,510,000	4,445,000	7,750,000	33,725,000
Total	\$ 558,157,658	\$ 615,794,580	\$ 835,197,361	\$ 439,349,265	\$ 435,858,916	\$ 611,848,173	\$ 3,496,205,953

PROPOSED 2019 CAPITAL IMPROVEMENT BUDGET

Public Safety

Police

Project Name: Police Facility Renovations
Type: Recurring
Estimated 2019 Cost: \$1,680,000
Funding Source: Voted 2016 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.

Project Name: Real Time Crime Center
Type: Non-recurring
Estimated 2019 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: To be determined
Project Description: Funding for the design of a real time crime center to provide up to date information to Public Safety forces.

Police subtotal - \$2,680,000

Fire

Project Name: Fire Facility Renovation
Type: Recurring
Estimated 2019 Cost: \$1,320,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Continued renovation and improvements to existing fire facilities.

Project Name: Fire Apparatus Replacement
Type: Recurring
Estimated 2019 Cost: \$6,000,000
Funding Source: Voted 2016 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.

Capital Improvements Program

Project Name: Fire Station #16
Type: Non-Recurring
Estimated 2019 Cost: \$4,680,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Relocation and construction of a new fire station #16. Due to changes in EMS/Fire practices, the existing Fire Station 16 is nearing the end of its useful life as a fire station. A new site has been identified on Oakland Park Avenue that is of adequate size to accommodate construction of a modern Fire/EMS facility to serve the North Linden Neighborhood.

Fire subtotal - \$12,000,000

Public Safety Total - \$14,680,000

Development

Project Name: Green Columbus Projects
Type: Recurring
Estimated 2019 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 2019 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 2019 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 Housing Preservation programs.

Project Name: Emergency Shelter Repair
Type: Recurring
Estimated 2019 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 2019 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 2019 Cost: \$5,278,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal to moderate reduction in preventative maintenance costs

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 and Project Management Services

Type: Recurring

Estimated 2019 Cost: \$500,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: None

Project Description: Funding for architectural design services for current and future construction projects as well as additional project management needs.

.....
Project Name: City Hall Renovations – Various

Type: Recurring

Estimated 2019 Cost: \$5,172,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

Operating Impact: Minimal to moderate reduction in preventative maintenance costs

Project Description: Renovation of the City Hall building to replace aging infrastructure. Funds may be used, but are not limited to, building infrastructure upgrades and interior and exterior facility renovations.

.....
Project Name: Municipal Court – Phased Renovations

Type: Recurring

Estimated 2019 Cost: \$2,200,000

Funding Source: Councilmanic SIT Supported G.O. Bonds

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

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

Construction Management subtotal - \$13,750,000

Capital Improvements Program

Fleet Management

Project Name: Fleet Automated Fuel Location Upgrades
Type: Recurring
Estimated 2019 Cost: \$100,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: None
Project Description: Renovation, remediation, removal, and/or replacement of citywide fueling infrastructure, including fuel tanks, fuel storage, and dispensing units.

Project Name: Fleet Equipment Replacement
Type: Recurring
Estimated 2019 Cost: \$100,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal reduction due to savings on preventative maintenance services
Project Description: Periodic replacement of aging equipment.

Project Name: Fuel Tank Management
Type: Recurring
Estimated 2019 Cost: \$300,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: None
Project Description: Remediation, removal, and/or replacement of fuel tanks.

Project Name: Fleet Vehicle Pooling
Type: Non-Recurring
Estimated 2019 Cost: \$300,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal to moderate reduction due to increased efficiency in vehicle usage
Project Description: Infrastructure to allow for more efficient pooling of city vehicles.

Fleet Management subtotal - \$800,000

Finance and Management Total - \$14,550,000

Technology

Project Name: Data Center Facility Upgrades
Type: Recurring
Estimated 2019 Cost: \$1,460,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Funds to upgrade the city's data centers infrastructures required to move from Tier I to Tier II service level status.

Project Name: Disaster Recovery Project
Type: Recurring
Estimated 2019 Cost: \$100,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continue assessment of rehabilitation of the city data centers as needed to meet the recovery and availability demands in the event of an emergency/Disaster Avoidance Plan.

Project Name: Connectivity Project Fiber/Wireless
Type: Recurring
Estimated 2019 Cost: \$1,000,000
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: Enterprise System Upgrades
Type: Recurring
Estimated 2019 Cost: \$425,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Continued 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 2019 Cost: \$290,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Continued replacement of equipment and professional review of security controls to provide additional cybersecurity to protect city systems.

Project Name: Enterprise System Upgrades – GIS
Type: Recurring
Estimated 2019 Cost: \$250,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Assessment of the city's GIS system architecture and database schema design. Purchase of GIS software and application upgrades.

Capital Improvements Program

Project Name: Enterprise System Upgrades – Applications
Type: Recurring
Estimated 2019 Cost: \$400,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continue upgrades to various software applications used throughout the city.

Project Name: E-Gov Initiatives
Type: Recurring
Estimated 2019 Cost: \$100,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continue system upgrades to the content management system that generate data for the city's websites.

Project Name: Media Service Equipment and Infrastructure
Type: Recurring
Estimated 2019 Cost: \$200,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of obsolete/end of life control room studio equipment associated with City meetings/events requiring media coverage services.

Project Name: Network Improvements
Type: Recurring
Estimated 2019 Cost: \$430,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment and system upgrades associated with the citywide data network.

Project Name: Telephony and Interactive Voice Response (IVR) Infrastructure Improvements
Type: Recurring
Estimated 2019 Cost: \$930,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Purchase of additional equipment/software to upgrade the Call Manager/Unified Communications system and telephone equipment refresh.

Technology Total - \$5,585,000

Recreation and Parks

Project Name:	Urban Infrastructure Projects
Type:	Recurring
Estimated 2019 Cost:	\$753,200
Funding Source:	Voted 2016 SIT Supported G.O. Bonds
Operating Impact:	Minimal increase for maintenance of new amenities
Project Description:	Funds used for park improvements and development in urban locations. Specific parks and projects are selected for funding on an annual basis via community requests.
<hr/>	
Project Name:	Swimming Facilities
Type:	Recurring
Estimated 2019 Cost:	\$2,318,000
Funding Source:	Voted 2016 SIT Supported G.O. Bonds
Operating Impact:	\$42,000 increase for large scale pool improvements including added amenities
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.
<hr/>	
Project Name:	HVAC Improvements
Type:	Recurring
Estimated 2019 Cost:	\$3,150,000
Funding Source:	Voted 2016 SIT Supported G.O. Bonds
Operating Impact:	\$50,000 increase for new HVAC additions
Project Description:	Funding to continue the replacement of outdated and inefficient HVAC equipment in various recreational facilities throughout the city. Funding is also used to add HVAC capabilities in various recreational facilities throughout the city.
<hr/>	
Project Name:	Street Tree Initiative
Type:	Recurring
Estimated 2019 Cost:	\$400,000
Funding Source:	Voted 2016 SIT Supported G.O. Bonds
Operating Impact:	Minimal increase for care of new trees
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.
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Project Name:	Maintenance Equipment - Parks
Type:	Non-recurring
Estimated 2019 Cost:	\$250,000
Funding Source:	Voted 2016 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.
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Project Name:	Bikeway Trail Safety
Type:	Recurring
Estimated 2019 Cost:	\$433,800
Funding Source:	Voted 2016 SIT Supported G.O. Bonds
Operating Impact:	Minimal increase for maintenance of new amenities
Project Description:	Continuation of the bikeway trail safety program. Annual allocation for paving improvements, fencing, and implementation of safety equipment along the existing system.

Capital Improvements Program

Project Name: Greenways Projects
Type: Recurring
Estimated 2019 Cost: \$3,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
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 2019 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Improvements and upgrades to waterway and boat launch areas.

Project Name: Safe Playgrounds
Type: Non-recurring
Estimated 2019 Cost: \$500,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new playground equipment
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: Renovations – Miscellaneous Improvements & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$1,985,400
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Improvements and renovations to existing parks, facilities, and amenities. Yearly determinations to be made.

Project Name: Hard Surface Improvements
Type: Recurring
Estimated 2019 Cost: \$800,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Annual improvement and replacement of existing hard surface areas. Funding also is used to add new hard surface amenities. These can include, but are not limited to, sidewalks, parking lots, walking trails, tennis courts, and basketball courts.

Project Name: Facility Roof Improvements
Type: Non-recurring
Estimated 2019 Cost: \$800,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Replacement and extensive renovation of roofs located at aging existing facilities.

Capital Improvements Program

Project Name: New Development - Miscellaneous Improvements & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$911,200
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$30,000 for maintenance of new parks, facilities, and amenities
Project Description: Funding dedicated to the implementation of the development of new parks, facilities, and amenities that are new to the system and/or have not existed previously.

Project Name: Blueways Development
Type: Non-recurring
Estimated 2019 Cost: \$100,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Funding for the development of public access points on waterways for recreational use.

Project Name: Acquisition – Miscellaneous Acquisition & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$1,822,400
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$25,000 for maintenance of new land
Project Description: Purchase of land and property in underserved areas, for conservation, and/or to expand the existing park system.

Project Name: Small Capital Improvements – Golf, Sports, Permits & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$1,594,600
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Small improvements to existing golf, sports, and permitted rental facilities to keep them safe, user friendly, and competitive in the marketplace.

Project Name: Large Scale Capital Investments & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$1,139,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$25,000 for maintenance of new amenities and facilities
Project Description: Large scale improvements to existing golf, sports, and permitted rental facilities. Funding is also used for construction of new golf, sports, and permitted rental facilities.

Project Name: Emergency Improvements & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$1,139,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding for unforeseen items such as fixing of a design flaw, replacing a major component, repairing a major structural part of an asset, increasing capacity/efficiency of an asset, or adapting something to a new use as a result of the repairs.

Capital Improvements Program

Project Name: Quick Strike Projects & Cost Allocations
Type: Recurring
Estimated 2019 Cost: \$683,400
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase for maintenance of new amenities
Project Description: Funding for high priority opportunities that are unanticipated and time-sensitive, aligning with strategic goals.

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

Public Service

Transportation

Project Name: Urban Infrastructure Recovery
Type: Recurring
Estimated 2019 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.

Project Name: Urban Infrastructure Recovery – Milo Grogan Second Avenue Improvements
Type: Non-recurring
Estimated 2019 Cost: \$860,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Design and construction of improvements along 2nd Avenue in Milo Grogan area.

Project Name: Street Equipment – Traffic and Infrastructure Management
Type: Recurring
Estimated 2019 Cost: \$856,794
Funding Source: Voted 2016 SIT Supported G.O. Bonds; 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.

Project Name: Neighborhood Commercial Revitalization (NCR)
Type: Recurring
Estimated 2019 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.

Project Name: Intersection Improvements – James Road at Livingston Avenue
Type: Non-recurring
Estimated 2019 Cost: \$560,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Addition of turn lanes and traffic signal upgrades to the intersection as safety measures. Project includes upgrades to the storm sewer capacity on Livingston Avenue.

Capital Improvements Program

Project Name: ADA Ramp Projects – 2018 General Engineering
Type: Recurring
Estimated 2019 Cost: \$250,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Installation and reconstruction of curb ramps throughout the city.

Project Name: Alley Rehabilitation
Type: Recurring
Estimated 2019 Cost: \$2,350,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds; 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.

Project Name: Roadway Improvements
Type: Recurring
Estimated 2019 Cost: \$2,850,000
Funding Source: Voted 2016 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.

Project Name: Roadway Improvements – Lazelle Road Phase C
Type: Non-recurring
Estimated 2019 Cost: \$1,300,000
Funding Source: Councilmanic SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Roadway improvements from Sancus Boulevard to Worthington-Galena Road. Project will widen for a center two way left turn lane, provide for sidewalks on the south side of Lazelle Road, and for a shared use path on the north side of the street as well as a drainage system and lighting.

Project Name: Curb Reconstruction
Type: Recurring
Estimated 2019 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 2019 Cost:	\$19,745,000
Funding Source:	Voted 2016 SIT Supported G.O. Bonds; Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Reduction
Project Description:	<p>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:</p> <ul style="list-style-type: none">• West Broad Street• Morse Road and High Street• Town Street/Glenwood Avenue/Rich Street• Town Street• Harrisburg Pike• Riverside Drive – Martin Road to River Park Road
<hr/>	
Project Name:	Bridge Rehabilitation
Type:	Recurring
Estimated 2019 Cost:	\$2,511,393
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	None
Project Description:	<p>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 2019:</p> <ul style="list-style-type: none">• State Route 315 Median Barrier Wall• Lehman Road• Calumet Street
<hr/>	
Project Name:	Housing Initiatives
Type:	Recurring
Estimated 2019 Cost:	\$1,600,000
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Increase
Project Description:	<p>Funding established to aid in the development of roadway infrastructure in areas where local developers seek to build housing units.</p>
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Project Name:	Bikeway Development
Type:	Recurring
Estimated 2019 Cost:	\$2,000,000
Funding Source:	Councilmanic SIT Supported G.O. Bonds
Operating Impact:	Minimal Increase
Project Description:	<p>Funding to expand and renovate the existing bikeway system, including the creation and addition of shared use paths. Bikeway development included for 2018 includes the following:</p> <ul style="list-style-type: none">• Norton Road Shared Use Path• Olentangy River Road Shared Use Path – North Broadway to Garrett• Refugee Road over Big Walnut Creek Shared Use Path• Trabue Road/Renner Road Shared Use Path

Capital Improvements Program

Project Name: School Flashers
Type: Recurring
Estimated 2019 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 2019 Cost: \$950,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reductions
Project Description: Installation of new and replacement traffic signals throughout the city.

Project Name: Sign Upgrading/Street Name Signs – Commodities
Type: Recurring
Estimated 2019 Cost: \$325,000
Funding Source: Voted 2016 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 2019 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 2019 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 2019 include the following:

- Refugee Road – Winchester Pike to Hamilton Road
- Third Avenue Sidewalks
- Kingsford Road Sidewalks
- Worthington Woods Boulevard Sidewalks
- Maize Road Sidewalks
- Toronto Street Sidewalks
- Courtright Road Sidewalks
- Godown Road Sidewalks – West Case Road to Bethel Road
- Walford Street and Sharbot Drive Sidewalks
- Maple Canyon Avenue Sidewalks

Transportation subtotal - \$48,910,000

Refuse

Project Name: Mechanized Collection Equipment
Type: Recurring
Estimated 2019 Cost: \$4,930,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Annual replacement of aging equipment for the Division of Refuse Collection.

Project Name: Alum Creek Remediation – Facility Improvements
Type: Recurring
Estimated 2019 Cost: \$100,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation of existing collection facilities.

Project Name: Mechanized Collection Equipment – Containers
Type: Recurring
Estimated 2019 Cost: \$1,050,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of collection containers.

Refuse subtotal - \$6,080,000

Public Service Total - \$54,990,000

Public Utilities

Storm Sewer

Project Name: Fountain Square Stormwater System Improvements
Type: Non-recurring
Estimated 2019 Cost: \$4,000,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Mitigation efforts for street flooding along the Morse Road service road in the Fountain Square area.

Project Name: Storm Sewer Large Diameter Condition Assessment Phase 1
Type: Non-recurring
Estimated 2019 Cost: \$1,500,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for the systematic assessment and rehabilitation of the large diameter storm sewer infrastructure.

Project Name: General Construction Contract - Storm
Type: Recurring
Estimated 2019 Cost: \$1,150,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project makes improvements to existing storm infrastructure including sewers, inlets, culverts, and associated appurtenances that may have failed unexpectedly or require immediate attention.

Project Name: Petzinger Road Stormwater Improvements
Type: Non-recurring
Estimated 2019 Cost: \$150,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will construct storm system improvements along Petzinger Road from Glenbrook Drive east to Courtright Road.

Project Name: General Engineering Services - Storm
Type: Recurring
Estimated 2019 Cost: \$400,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds; Voted 2016 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 2019 Cost: \$1,150,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project would mitigate street and yard flooding, and reduce roadside drainage problems.

Capital Improvements Program

Project Name: Linden Neighborhood Stormwater System Improvements Phase 2
Type: Non-recurring
Estimated 2019 Cost: \$1,150,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Mitigation of street and yard flooding, and the reduction of drainage issues in the Linden Neighborhood.

Project Name: Detention Basin Modifications
Type: Recurring
Estimated 2019 Cost: \$750,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 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 2019 include funding for the following:

- Summit View Detention Basin

Project Name: Olde Beechwood Area Stormwater System Improvements
Type: Non-recurring
Estimated 2019 Cost: \$2,880,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Stormwater system improvements to mitigate street and yard flooding within the Olde Beechwood historic neighborhood.

Project Name: Franklinton Area Stormwater System Improvements
Type: Non-recurring
Estimated 2019 Cost: \$2,000,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Mitigation of street flooding, yard flooding, and water in basement occurrences in the Franklinton area.

Project Name: Holt Avenue/Somersworth Drive Stormwater System Improvements
Type: Non-recurring
Estimated 2019 Cost: \$1,000,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Design and construction of stormwater improvements along Holt Road, through the Brentnell Avenue Parkland to Somersworth Drive.

Project Name: Holton Park and Eureka Avenue Green Infrastructure Improvements
Type: Non-recurring
Estimated 2019 Cost: \$465,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: This project will design and construct green infrastructure on vacant parcels along the N. Eureka Ave corridor as well as at the Holton Park site in an effort to provide the water quality treatment for CIP 611009 - Terrace/Broad Stormwater System Improvements.

Capital Improvements Program

Project Name: Pump Stations, ST-21, ST-22, ST-23 Improvements
Type: Recurring
Estimated 2019 Cost: \$1,500,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Funding for the design and construction of the storm system and flood protection improvements for the area southwest of the Arena District.

Project Name: Stormwater Strategic Plan, Phase 2
Type: Recurring
Estimated 2019 Cost: \$150,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: The work to be performed under this contract will improve the efficiency of the identification, design, and construction of stormwater infrastructure, which in turn can be expected to reduce construction and long-term maintenance costs.

Project Name: Central Avenue Underpass Stormwater System Improvements
Type: Non-recurring
Estimated 2019 Cost: \$1,437,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 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: SMOG SCADA Modernization at Remote Stormwater Facilities
Type: Non-recurring
Estimated 2019 Cost: \$1,350,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replace legacy communication equipment at remote stormwater facilities.

Project Name: Krieger Court Stormwater Improvements
Type: Non-recurring
Estimated 2019 Cost: \$400,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Engineering services to analyze drainage issues upstream and downstream of the Kreiger Court Stormwater Basin.

Project Name: Twin Lakes Upper Dam and Greenlawn Low Head Dam Improvements
Type: Non-recurring
Estimated 2019 Cost: \$195,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will investigate action items identified by ODNR's 2016 inspection and report of the Twin Lakes Upper Dam and the Greenlawn Avenue Low Head Dam. Repair recommendations, design and services during construction will be performed.

Capital Improvements Program

Project Name: Barnett Road Stormwater Improvements
Type: Non-recurring
Estimated 2019 Cost: \$200,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will investigate drainage issues along Barnett Road, between Main Street and Livingston Avenue, as drainage issues have been reported in this area. Following the investigation, this project will allow for design recommendation to alleviate standing water and stormwater drainage issues.

Project Name: Storm Sewer Assessment – James Livingston 5 Blueprint Area
Type: Non-recurring
Estimated 2019 Cost: \$2,000,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project involves assessing and cleaning sewers in the James Livingston 5 Blueprint Area.

Project Name: Bethel Road Culvert Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$450,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: This project will allow the city to repair the existing 84" and 24" culverts.

Project Name: Cooke Road Culvert Improvements
Type: Non-recurring
Estimated 2019 Cost: \$200,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will allow the city to repair the existing 24" storm culvert.

Project Name: Pump Station ST-8 Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$450,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Installation of new electrical equipment, refurbishing the existing pumps, and making improvements to the wet well along with the addition of a new duty pump.

Stormwater subtotal - \$24,927,000

Sanitary Sewers

Project Name: Real Time Control – Alum Creek Storm Tanks
Type: Non-recurring
Estimated 2019 Cost: \$1,127,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: Project to address the combined sewer overflow volume and frequency at the Alum Creek storm tank.

Project Name: Real Time Control – Sewer System Optimization
Type: Non-recurring
Estimated 2019 Cost: \$425,000
Funding Source: Voted 2016 Public Utilities 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: Non-recurring
Estimated 2019 Cost: \$85,000
Funding Source: Voted 2016 Public Utilities 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: SSES Overall Engineering Consultant Services
Type: Recurring
Estimated 2019 Cost: \$255,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This contract is essential to the conceptualization and execution of large capital improvements for the sewer collection system and all related infrastructures.

Project Name: Big Walnut Sanitary Trunk Extension, Phase 2
Type: Recurring
Estimated 2019 Cost: \$850,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Project to provide sanitary sewer service for the developing area between Hoover Reservoir and the Village of New Albany.

Project Name: Central College Subtrunk Extension Phase 3
Type: Non-recurring
Estimated 2019 Cost: \$3,187,500
Funding Source: Voted 2016 Public Utilities 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.

Capital Improvements Program

Project Name: Blacklick Creek Interceptor Sewer
Type: Non-recurring
Estimated 2019 Cost: \$3,612,500
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$170,000
Funding Source: Voted 2016 Public Utilities 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: Roof Replacements for Department of Public Utilities Facilities
Type: Recurring
Estimated 2019 Cost: \$2,690,250
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replacement of roofs at existing facilities to prevent infrastructure damage due to water leaks.

Project Name: Jackson Pike Waste Water Treatment Plant (JPWWTP) Biosolids Land Application Improvements
Type: Non-recurring
Estimated 2019 Cost: \$16,340,400
Funding Source: Voted 2016 Public Utilities 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.

Project Name: JPWWTP Screening Improvements
Type: Recurring
Estimated 2019 Cost: \$467,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will upgrade the current Jackson Pike mechanical screen dewatering and disposal systems and identify improvements to the existing screen building to increase reliability.

Project Name: Facilities & Equipment Upgrade for Whittier Street Storm Tanks
Type: Non-recurring
Estimated 2019 Cost: \$13,122,000
Funding Source: Ohio Water Development Authority Loan; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Upgrading of processing, electrical, and metering equipment for the Whittier Street stormwater control tanks.

Capital Improvements Program

Project Name: Short Circuit, Coordination, and Arc Flash Studies #1
Type: Recurring
Estimated 2019 Cost: \$850,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Engineering services to reduce incorrect tripping of electrical equipment and provide a safer working environment.

Project Name: Department of Public Utilities General Engineering Consultant Services (GEC) #3 and #4
Type: Recurring
Estimated 2019 Cost: \$850,000
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$143,992
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for JPWWTP Plant projects submitted through the General Engineering Consultant Service contracts.

Project Name: JPWWTP Fiber Optic Installation
Type: Non-recurring
Estimated 2019 Cost: \$365,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will provide the Southerly WWTP and Compost Facility with a fiber optic internet connection through the City of Columbus MetroNet system. This project will also provide a means to connect other City of Columbus facilities south of JPWWTP.

Project Name: JPWWTP Digester Gas Piping Replacement
Type: Non-recurring
Estimated 2019 Cost: \$474,300
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will replace the existing digester piping with new piping.

Project Name: JPWWTP HVAC Replacement
Type: Non-recurring
Estimated 2019 Cost: \$425,508
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of the Incinerator Building HVAC unit.

Capital Improvements Program

Project Name: Southerly Waste Water Treatment Plant (SWWTP) Small Capital Projects
Type: Recurring
Estimated 2019 Cost: \$680,000
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$3,355,122
Funding Source: Voted 2016 Public Utilities 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.

Project Name: SWWTP Boiler System Operational Improvements
Type: Non-recurring
Estimated 2019 Cost: \$1,180,115
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Rehabilitation of the existing service building steam plant at the SWWTP.

Project Name: SWWTP Service Drive Lighting Improvements
Type: Non-recurring
Estimated 2019 Cost: \$255,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Replace the poles and traffic light at the south entrance of the SWWTP. Provide lighting along the south drive.

Project Name: Fairwood Avenue Building Facilities Small Capital Projects
Type: Recurring
Estimated 2019 Cost: \$297,500
Funding Source: Voted 2016 Public Utilities 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 Facility Methane Detector Replacement
Type: Non-recurring
Estimated 2019 Cost: \$170,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will replace the current methane detection system with a new, more robust system.

Capital Improvements Program

Project Name: WWTF Professional Construction Management Services #2
Type: Recurring
Estimated 2019 Cost: \$297,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: This contract is for Professional Construction Management services for the Division of Sewerage and Drainage Wastewater Treatment Facilities projects.

Project Name: HVAC & Air Purification System Replacement
Type: Recurring
Estimated 2019 Cost: \$2,295,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replacement of equipment that is currently at the end of its useful life.

Project Name: Department of Public Utilities Hazardous Energy Control
Type: Recurring
Estimated 2019 Cost: \$42,500
Funding Source: Voted 2016 Public Utilities 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: WWTF Instrumentation and Control Integration and Programming Part 2
Type: Recurring
Estimated 2019 Cost: \$425,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Wastewater Treatment Facilities Instrumentation and Control (I&C) System Upgrade.

Project Name: SSWWTP Digestion Process Expansion
Type: Non-recurring
Estimated 2019 Cost: \$24,001,457
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Power usage and maintenance cost increases in 2020
Project Description: Expansion of plant infrastructure to provide for additional facilities needed for the anaerobic digestion of biosolids.

Project Name: SSWWTP Post Aeration Diffuser Replacement
Type: Non-recurring
Estimated 2019 Cost: \$605,200
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Replacement of the aeration diffuser that has reached the end of its useful life.

Capital Improvements Program

Project Name: Waste Water Treatment Facilities Upgrade – General Program #4
Type: Recurring
Estimated 2019 Cost: \$1,609,900
Funding Source: Voted 2016 Public Utilities 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, Clarification, and Disinfection
Type: Non-recurring
Estimated 2019 Cost: \$3,375,440
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: The project will provide a Chemically Enhanced Primary Treatment (CEPT) facility to treat additional wet weather flows at the SWWTP.

Project Name: Compost Facility Odor Control Improvements
Type: Non-recurring
Estimated 2019 Cost: \$27,487,260
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Continued improvements to further reduce the odors generated by the composting process.

Project Name: 2018 Annual Lining Contract
Type: Recurring
Estimated 2019 Cost: \$5,722,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Rehabilitation of existing sanitary sewers using cured-in-place pipe.

Project Name: Lockbourne Subtrunk Air Quality Improvements
Type: Non-recurring
Estimated 2019 Cost: \$3,608,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Design and construction of two active air quality systems along the Lockbourne Intermodal subtrunk alignment.

Project Name: Rickenbacker Intermodal Sanitary Extension
Type: Non-recurring
Estimated 2019 Cost: \$637,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Extension of the gravity sanitary sewer main from the existing Military Pump Station along Rickenbacker Parkway.

Capital Improvements Program

Project Name: Hayden Run Aerial Sewer Improvements
Type: Non-recurring
Estimated 2019 Cost: \$576,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: This project will provide rehabilitation to a section of an elevated, 42" aerial sewer that has developed leaks along the midpoints of the pipe spans.

Project Name: Upper Scioto West Subtrunk - Hayden Run Area West of Cosgray Road
Type: Non-recurring
Estimated 2019 Cost: \$892,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This sanitary sewer extension will begin on the east side of Cosgray Road and extend northwesterly to the vicinity of Rings and Houchard Roads.

Project Name: DPU Archive and Records Storage
Type: Non-recurring
Estimated 2019 Cost: \$327,250
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will centralize project records for ease of access and control.

Project Name: East Franklinton Phase 1
Type: Non-recurring
Estimated 2019 Cost: \$1,318,100
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Rehabilitation of the current sewer infrastructure in the Dodge Park area.

Project Name: Woodward Avenue Sanitary Sewers
Type: Non-recurring
Estimated 2019 Cost: \$525,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Construction of sanitary sewers in a currently unsewered area.

Project Name: Ohio State University (OSU) Area Utility Easement Project
Type: Non-recurring
Estimated 2019 Cost: \$318,750
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: This project will update/renew or obtain new easements around OSU owned areas. Utility easements allow for maintenance and operation of existing city-owned utilities.

Capital Improvements Program

Project Name: Big Run/Hellbranch Subtrunk
Type: Non-recurring
Estimated 2019 Cost: \$1,486,710
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project will extend the Big Run Trunk Sewer from the intersection of Galloway Road and Sullivant Avenue west and north approximately 3000 feet to Broad Street.

Project Name: Portage Grove Area Assessment
Type: Non-recurring
Estimated 2019 Cost: \$2,100,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Extension of the existing infrastructure to the developed areas that are currently served by on-lot systems.

Project Name: Lower Olentangy River Ecosystem Restoration, Fifth Avenue Dam Removal
Type: Non-recurring
Estimated 2019 Cost: \$42,500
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$4,695,400
Funding Source: Voted 2016 Public Utilities 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 South Section/Deshler Tunnel
Type: Recurring
Estimated 2019 Cost: \$85,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Perform condition assessment of sanitary trunk line sewer through video inspection in accordance with the requirements of the OEPA Consent Order.

Project Name: Olentangy-Scioto-Interceptor-Sewer (OSIS) Large Diameter Sewer Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$1,020,000
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$5,637,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Systematic rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: West Side Trunk Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$340,000
Funding Source: Voted 2016 Public Utilities 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 2019 Cost: \$467,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Funding to allow for the systematic inspection and rehabilitation of the city's large diameter sewer infrastructure.

Project Name: Large Diameter – Scioto Main Trunk
Type: Non-recurring
Estimated 2019 Cost: \$1,105,000
Funding Source: Voted 2016 Public Utilities 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: Recurring
Estimated 2019 Cost: \$127,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Required rehabilitation that will restore the hydraulic capacity of the existing system to extend the useful life of the sewer infrastructure.

Project Name: Alum Creek Trunk (Middle) Rehabilitation – Phase C
Type: Non-recurring
Estimated 2019 Cost: \$7,935,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Rehabilitation of the current infrastructure to extend the useful life.

Capital Improvements Program

Project Name: Brimfield Area Sanitary System Repair Project
Type: Non-recurring
Estimated 2019 Cost: \$1,300,000
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.

Project Name: 2019 General Construction Contract
Type: Recurring
Estimated 2019 Cost: \$1,955,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Construction and replacement of the older existing sewer infrastructure on an as needed basis.

Project Name: Third Avenue Combined Sewer Overflows Increased Capture and Green Infrastructure
Type: Non-recurring
Estimated 2019 Cost: \$3,015,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Project to mitigate flooding and sewer overflows at the Third Avenue railway underpass.

Project Name: Third Avenue Relief Sewer, Phase 3
Type: Non-recurring
Estimated 2019 Cost: \$3,561,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Construction of a sanitary relief sewer at three locations on Third Avenue between Edgehill Road and Northwest Boulevard.

Project Name: SMOC SCADA Modernization at Remote Sanitary Facilities
Type: Non-recurring
Estimated 2019 Cost: \$1,105,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Replace legacy communication equipment at remote sanitary facilities.

Project Name: SMOC SCADA Communication Network Modernization
Type: Non-recurring
Estimated 2019 Cost: \$1,530,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Update legacy network communication equipment to handle increased data demand for real time control of approximately 40 remote facilities.

Capital Improvements Program

Project Name: Inflow Redirection – Kerr/Russell
Type: Non-recurring
Estimated 2019 Cost: \$680,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Redirection of stormwater in the Kerr/Russell sewer-shed by installing three new storm sewers near the intersection of Warren St. and 4th St., one in an alley between Warren and Lincoln St., and one downstream of the Kerr/Russell Combined Sewer Overflow (CSO).

Project Name: General Construction Administration and Construction Inspection
Type: Recurring
Estimated 2019 Cost: \$85,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for construction administration and inspection services during the construction of various sanitary sewer projects.

Project Name: 2nd Barrel Interconnector Augmentation
Type: Non-recurring
Estimated 2019 Cost: \$1,530,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: This project reduces the peak hydraulic grade line along the interconnector sewer and upstream tributary sewers during large flow events, providing a 10 year level of service for DSR 95 and reducing water in basement events within the West Franklinton area.

Project Name: Blueprint Clintonville Professional Construction Management Services
Type: Non-recurring
Estimated 2019 Cost: \$637,500
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 2019 Cost: \$16,413,451
Funding Source: Voted 2016 Public Utilities G.O. Bonds; 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 Linden area at the following locations:

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

Capital Improvements Program

Project Name: Blueprint Hilltop
Type: Non-recurring
Estimated 2019 Cost: \$23,879,576
Funding Source: Voted 2016 Public Utilities G.O. Bonds; 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 Hilltop area at the following locations:

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

Project Name: Blueprint Miller Kelton
Type: Non-recurring
Estimated 2019 Cost: \$10,980,054
Funding Source: Voted 2016 Public Utilities G.O. Bonds; 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 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 2019 Cost: \$276,250
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: This project upgrades the collection system in the 5th by Northwest Blueprint area by upsizing the existing sanitary sewer along Third Ave. to convey more wastewater from the area. This will help to reduce sanitary sewer overflows and sewer backups into basements.

Project Name: Blueprint Integrated Solutions
Type: Non-recurring
Estimated 2019 Cost: \$5,382,423
Funding Source: Voted 2016 Public Utilities G.O. Bonds; 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 at the following locations:

- Winthrop/Milton Area
- Dorris/Weber Area
- Fredonia/Piedmont Area
- Tulane/Findley Area
- Milford/Summit Area
- Olde Beechwold Area
- Leland/Highland Area
- Charleston/Kanawha Area
- Croswell/Beaumont Area
- Jeffrey/Sellers Area

Project Name: Blueprint Hilltop 4 – Highland/Harris
Type: Non-recurring
Estimated 2019 Cost: \$845,750
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Project will address various green solutions to relieve water in basement occurrences in the Hilltop area.

Capital Improvements Program

Project Name: Blueprint West Franklinton
Type: Non-recurring
Estimated 2019 Cost: \$1,466,250
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers at the following locations:

- Yale/Edwin Area
- Green/Glenwood Area

Project Name: West Franklinton Sewer Improvements
Type: Non-recurring
Estimated 2019 Cost: \$598,203
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Upgrades to the current collection systems in the West Franklinton Blueprint areas to reduce the occurrence of sewer backups.

Project Name: Blueprint Near South
Type: Non-recurring
Estimated 2019 Cost: \$1,188,538
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers at the following locations:

- Morrill/Ann Area
- Champion/Roberts Area

Project Name: Roof Redirection – Clintonville 1
Type: Non-recurring
Estimated 2019 Cost: \$8,077,974
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Redirection of downspouts from homes to discharge to the street to remove excess stormwater from the sanitary sewer system.

Project Name: Lateral Lining – Clintonville 1
Type: Non-recurring
Estimated 2019 Cost: \$9,500,975
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Lining sanitary laterals to prevent excess stormwater from entering the sanitary sewer system in the following areas:

- Blenheim/Glencoe Area
- Schreyer/Springs Area

Project Name: Near South Blueprint Area – Mainline Lining
Type: Recurring
Estimated 2019 Cost: \$9,010,250
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Lining of all the mainline sanitary sewers and manholes in this area to reduce the amount of rainwater entering the sanitary sewer system.

Project Name: Volunteer Sump Pump Program
Type: Recurring
Estimated 2019 Cost: \$8,415,560
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Installation of sump pumps in residential basements to reduce excess stormwater entering the city's sanitary system in the following areas:

- 5th by Northwest Blueprint Area
- Clintonville 3 Blueprint Area
- North Linden 1 Phase 2 Area
- Hilltop 1 Blueprint Area
- Hilltop 4 Blueprint Area
- Miller Kelton Blueprint Area

Project Name: Scioto Main Sanitary Pump Stations
Type: Recurring
Estimated 2019 Cost: \$510,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
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: Scioto Main Sanitary Trunk Sewer Rehabilitation
Type: Recurring
Estimated 2019 Cost: \$85,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Design and construction of the rehabilitation of approximately 7,600 linear feet of a 120" diameter sewer.

Project Name: Meeklynn Drive Area Sanitary Sewer
Type: Non-recurring
Estimated 2019 Cost: \$2,255,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
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.

Project Name: HSTS Elimination Projects
Type: Non-recurring
Estimated 2019 Cost: \$301,750
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Design and construction of a new sanitary sewer extension to serve the developed area that is currently served by home treatment systems in the following areas:

- Dyer/Lazar Area
- Brooklyn/Cleveland Area
- Community Park/Maple Canyon Area
- Barnett/East Deshler Area

Sanitary subtotal - \$265,072,658

Capital Improvements Program

Electricity

Project Name: Urban Infrastructure Recovery Fund Street Lighting Projects
Type: Recurring
Estimated 2019 Cost: \$2,206,470
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Design and construction of street lighting in urban areas of the city.

- South High Street Decorative Lighting
- Parsons Avenue Underpass Lighting
- Mock Road Street Lighting
- North Central Standard Lighting
- Innis Road Standard Lighting
- East Fifth Avenue Decorative Street Lighting
- Cleveland Avenue – Chittenden to Hudson

Project Name: Clime Road Street Lighting
Type: Non-recurring
Estimated 2019 Cost: \$89,305
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Provide street lighting in response to the 2014 Street Lighting Prioritization Plan.

Project Name: Sawmill and Summitview Street Lighting
Type: Non-recurring
Estimated 2019 Cost: \$129,225
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Provide street lighting in response to the 2014 Street Lighting Prioritization Plan.

Project Name: Riverview and Stinchcomb Street Lighting
Type: Non-recurring
Estimated 2019 Cost: \$50,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Provide street lighting in response to the 2014 Street Lighting Prioritization Plan.

Project Name: Security and Emergency Preparedness - Power
Type: Non-recurring
Estimated 2019 Cost: \$25,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: DOP is developing a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.

Electricity subtotal - \$2,500,000

Water

Project Name: Hoover Reservoir Erosion Control
Type: Non-recurring
Estimated 2019 Cost: \$180,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Ongoing land purchases in the area near the reservoir due to continual erosion along the shorelines from wave and ice damage.

Project Name: Miscellaneous Erosion Control
Type: Recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding to provide for unanticipated projects that may arise.

Project Name: Miscellaneous Water Facilities
Type: Recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding to provide for unanticipated projects that may arise.

Project Name: Indianola Facility Improvements
Type: Recurring
Estimated 2019 Cost: \$540,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Improvements are needed to address the building condition, to modify the facility to accommodate the planned use of CNG vehicles, and to extend the life of the facility.

Project Name: Rinehart Public Utilities Complex Exterior Site Improvements
Type: Non-recurring
Estimated 2019 Cost: \$5,692,500
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Construction of exterior site improvements located at 910 Dublin Road.

Project Name: Water Main Rehabilitation
Type: Recurring
Estimated 2019 Cost: \$4,500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for general rehabilitation of water distribution lines to eliminate poor fire flow capabilities and poor water quality.

Capital Improvements Program

Project Name: Area Waterline Improvements
Type: Non-recurring
Estimated 2019 Cost: \$24,136,000
Funding Source: Voted 2013 Water G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines to eliminate poor fire flow capabilities and improve water quality in the following areas:

- Main Street and James Road Area
- South Broadleigh Road Area
- Dresden Street Area
- Harrington Court Area
- East Gates Street Area
- Thomas Lane Area
- Valleyview Drive Area
- East Franklinton Area
- Oakland Park/Medina Area
- Central College Road Area
- Newton/Bedford Area

Project Name: Watermain Replacement Projects
Type: Recurring
Estimated 2019 Cost: \$675,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design funding to provide for the general rehabilitation of the water distribution system in areas yet to be determined.

Project Name: Transite Pipe Replacement
Type: Non-recurring
Estimated 2019 Cost: \$2,270,000
Funding Source: Voted 2013 Water G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Construction of new and replacement transite watermain.

Project Name: O'Shaughnessy Hydroelectric – Federal Energy Regulatory Committee (FERC)
Type: Recurring
Estimated 2019 Cost: \$135,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering services related to projects mandated by the Federal Energy Regulatory Committee.

Project Name: Dublin Road Water Plant (DRWP) Miscellaneous Improvements
Type: Recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Capital Improvements Program

Project Name: DRWP Miscellaneous Improvements – Basin Clarifier Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$6,540,000
Funding Source: Voted 2013 Water G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Replacement of aging clarifier and flocculation equipment and repair / replacement of miscellaneous appurtenances relates to the clarifier and flocculation basins.

Project Name: Hap Cremean Water Plan (HCWP) Miscellaneous Improvements
Type: Recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Project Name: Distribution Improvements – 2019 Water Audit
Type: Non-recurring
Estimated 2019 Cost: \$450,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Comprehensive Water Audit of the water distribution system to identify and quantify sources of water loss.

Project Name: New Technologies in Leak Detection
Type: Recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design of new leak detection technologies that will better locate water losses in the distribution system.

Project Name: Parsons Avenue Water Plant (PAWP) Facility Miscellaneous Improvements
Type: Recurring
Estimated 2019 Cost: \$99,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Project Name: Automatic Meter Reading
Type: Non-recurring
Estimated 2019 Cost: \$30,900,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Establishment of an automatic meter reading system to lower current meter reading costs, allow for more frequent readings, and enhance customer service capabilities.

Capital Improvements Program

Project Name: HCWP Basin Concrete Rehabilitation
Type: Non-recurring
Estimated 2019 Cost: \$7,080,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: None
Project Description: Rehabilitation of the deteriorated concrete and handrail replacement in the basin area of the water plant.

Project Name: HCWP A & B Raw and Finished Water
Type: Non-recurring
Estimated 2019 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of equipment to significantly reduce energy consumption, unnecessary downtime, and maintenance expenses.

Project Name: Water Meter Renewal
Type: Recurring
Estimated 2019 Cost: \$2,025,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Removal and replacement of domestic water meters which are no longer accurately measuring customer usage.

Project Name: Valve Renewal Program
Type: Non-recurring
Estimated 2019 Cost: \$2,250,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Broken valves are to be removed from the distribution system and replaced with new valves. Approximately 500 valves will be scheduled for replacement each year.

Project Name: Watershed Miscellaneous Improvements Facilities
Type: Non-recurring
Estimated 2019 Cost: \$99,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Ongoing funding for small capital improvements at the existing dams and reservoirs.

Project Name: Watershed Miscellaneous Improvements – Griggs Boat Launch Improvements
Type: Non-recurring
Estimated 2019 Cost: \$225,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design of improvements related to the boat launch facility at Griggs Reservoir.

Capital Improvements Program

Project Name:	Watershed Protection Easements
Type:	Non-recurring
Estimated 2019 Cost:	\$99,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Purchase of land to provide buffer zones along streams within the watershed of the supply reservoirs to limit degradation of water quality.
<hr/>	
Project Name:	O'Shaughnessy Hydroelectric Improvements
Type:	Non-recurring
Estimated 2019 Cost:	\$11,970,000
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.
<hr/>	
Project Name:	General Engineering Services – Supply Group 2018A; 2018B
Type:	Recurring
Estimated 2019 Cost:	\$720,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Funding for general engineering on various capital projects when needed.
<hr/>	
Project Name:	Booster Station and Water Tank Improvements
Type:	Recurring
Estimated 2019 Cost:	\$720,000
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.
<hr/>	
Project Name:	Water Storage Tank Painting
Type:	Recurring
Estimated 2019 Cost:	\$1,350,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Recoating of the interior and exterior of water storage tanks to keep tanks in optimal condition.
<hr/>	
Project Name:	Security Enhancements – 910 Dublin Road
Type:	Non-recurring
Estimated 2019 Cost:	\$2,340,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	Minimal
Project Description:	Improvements to access control, cameras, and life safety elements of the 910 Dublin Road facility. Will need ongoing service contract to maintain camera/access systems.

Capital Improvements Program

Project Name: PAWP Automation Upgrade - 2019
Type: Non-recurring
Estimated 2019 Cost: \$2,250,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replace computer hardware and software associated with the plant's Supervisory Control and Data Acquisition System that is past its expected design life.

Project Name: PAWP HVAC Improvements
Type: Non-recurring
Estimated 2019 Cost: \$4,657,500
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replace aging HVAC equipment and address heating and cooling performance issues to improve system reliability and environmental conditions.

Project Name: Water Quality Assurance Lab Renovations
Type: Non-recurring
Estimated 2019 Cost: \$8,280,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Renovate the WQAL to meet current building codes, meet functional needs of staff and the laboratory equipment, and address ergonomic issues with the outdated, existing space.

Project Name: Fire Hydrant Replacements
Type: Recurring
Estimated 2019 Cost: \$900,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation and replacement of fire hydrants to ensure there is adequate volume for fire protection.

Project Name: General Engineering Services – Distribution Group
Type: Recurring
Estimated 2019 Cost: \$450,000
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: PAWP Well Pump Replacement
Type: Non-recurring
Estimated 2019 Cost: \$4,215,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: This project will rehabilitate and/or replace the original well pumps and motors at collector wells.

Capital Improvements Program

Project Name: DRWP Ultraviolet (UV) Disinfection
Type: Non-recurring
Estimated 2019 Cost: \$1,260,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Moderate
Project Description: To provide for the design and construction of ultraviolet disinfection in the water treatment process.

Project Name: HCWP UV Disinfection
Type: Non-recurring
Estimated 2019 Cost: \$900,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Moderate
Project Description: To provide for the addition of ultraviolet disinfection in the water treatment process.

Project Name: General Architectural Services
Type: Recurring
Estimated 2019 Cost: \$270,000
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.

Project Name: HCWP Lime Dust Collection System
Type: Non-recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Make improvements to reduce the discharge of lime dust into working areas that can occur with the unloading and handling of lime.

Project Name: General Construction Administration and Construction Inspection
Type: Recurring
Estimated 2019 Cost: \$360,000
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.

Project Name: Hoover Reservoir Erosion Study
Type: Non-recurring
Estimated 2019 Cost: \$270,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering services to assess shoreline erosion rates and determine projects necessary to manage erosion along Hoover Reservoir.

Capital Improvements Program

Project Name: Plant Drain and Water System Improvements
Type: Recurring
Estimated 2019 Cost: \$135,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Modify drain piping to improve handling and disposal of discharges from chemical containment areas and replace and/or repair piping / valving associated with plant water systems.

Project Name: Professional Construction Management (PCM) Part II
Type: Recurring
Estimated 2019 Cost: \$4,410,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Professional management services to monitor the numerous current and future projects during construction.

Project Name: Laboratory Upgrades
Type: Recurring
Estimated 2019 Cost: \$1,035,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design and engineering services to renovate the 910 Dublin Road Water Quality Assurance Lab, the DRWP Lab, and the PAWP Lab.

Project Name: Security & Emergency Preparedness – Division of Water
Type: Non-recurring
Estimated 2019 Cost: \$90,000
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.

Project Name: Department of Public Utilities (DPU) Hazardous Energy Control – Division of Water
Type: Non-recurring
Estimated 2019 Cost: \$90,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Project to allow for audit and energy control procedure development services for multiple facilities. This will ensure that hazardous energy is properly controlled prior to working on equipment.

Project Name: HCWP Sludge Removal – Lagoon 1 & 2
Type: Non-recurring
Estimated 2019 Cost: \$1,485,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Project to allow for the removal of sludge at the HCWP to extend the useful life of the lagoons.

Capital Improvements Program

Project Name:	DOW LIMS Upgrade
Type:	Non-recurring
Estimated 2019 Cost:	\$540,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Replace outdated software to improve management of laboratory information.
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Project Name:	Electrical Power System Studies
Type:	Recurring
Estimated 2019 Cost:	\$405,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Evaluation and analysis of electrical systems at various DOW facilities to determine proper equipment settings and labelling to comply with regulatory safety requirements.
<hr/>	
Project Name:	PAWP Sludge Disposal Improvements
Type:	Non-recurring
Estimated 2019 Cost:	\$1,080,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	Minimal
Project Description:	Design and construct improvements needed to address treatment residuals disposal needs.
<hr/>	
Project Name:	Upground Reservoir Embankment Repairs - 2019
Type:	Non-recurring
Estimated 2019 Cost:	\$270,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Perform embankment repairs and install erosion control measures.
<hr/>	
Project Name:	Professional Construction Management - 2018
Type:	Recurring
Estimated 2019 Cost:	\$4,500,000
Funding Source:	Voted 2013 Water G.O. Bonds
Operating Impact:	None
Project Description:	Professional services to assist Division of Water with managing and monitoring capital improvement projects.
<hr/>	
Project Name:	Olentangy River Road – 24" Water Main Phase 1 & 2
Type:	Non-recurring
Estimated 2019 Cost:	\$4,985,000
Funding Source:	Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact:	Minimal
Project Description:	This project provides for the replacement of the existing 20-inch water main in Olentangy River Road with a new 24-inch water main, abandoning the existing 20-inch main, potential fire hydrant installations, and transferring of water service lines.

Capital Improvements Program

Project Name: PAWP Filter Console Replacement
Type: Non-recurring
Estimated 2019 Cost: \$900,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Replace outdated filter control consoles.

Water subtotal - \$149,473,000

Public Utilities Total - \$441,972,658

2019 Capital Improvement Budget Total - \$558,157,658

Significant Non-Recurring Projects

Police Substation 1

Department: Public Safety
Construction Management
Planning Area: Northland
Start Date: September 2018
Est. Completion Date: November 2019
Est. Cost: \$7,400,000
Est. Operating Impact: To be determined

Police Substation 1 is an important step in the modernization of facilities for the Division of Police and its strategic roll out of facilities in north Columbus.

Located at 8118 Sancus Boulevard, this substation will serve a densely populated and growing region of Columbus. It will accommodate all new and existing law enforcement systems and programs, meet all contemporary code requirements, and exceed energy and sustainability expectations.



Architectural rendering of the police Substation.

Fire Station #35

Department: Public Safety
Construction Management
Planning Area: Far East
Start Date: September 2018
Est. Completion Date: November 2019
Est. Cost: \$10,600,000
Est. Operating Impact: \$3,500,000 increase

Fire Station #35 will be located on the far-east side of the city at 711 Waggoner Road. This fire station will include four apparatus bays to house medic and fire engine vehicles, and is designed with the specific intent to keep the living quarters free of the harmful contaminants that could be introduced to the building following a call for service involving a fire or other hazardous material. Also of note, this is the first fire station that will be built under a Community Benefits Agreement, a collaborative effort among labor, the NAACP, and the city.



Architectural rendering of Fire Station #35.

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: 2018
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.

Indian Mound Recreation Center

Department: Recreation and Parks
Planning Area: Far South
Start Date: Spring 2018
Est. Completion Date: Fall 2019
Est. Cost: \$7,500,000
Est. Operating Impact: \$96,000 annual increase

This project will remodel the existing 10,000 sq. ft. facility and add an additional 18,000 sq. ft. which will include an updated gymnasium, a fitness room, kitchen, classrooms, art and ceramics rooms, game room, restrooms, a multi-purpose room, lobby, and office area. This project is currently in design, and construction is estimated to finish during the fall of 2019.



Photograph of the current Indian Mound Recreation Center.

Linden Community Center and Park Renovation

Department: Recreation and Parks
Planning Area: North Linden
Design Start Date: January 2018
Completion Date: Fall 2020
Est. Construction Cost: \$28,000,000 (pending the final project scope)
Est. Operating Impact: \$317,500 annual increase

This project includes the replacement of the existing 24,000 sq. ft. facility with a brand new 50,000 sq. ft. community center. The new center improvements include a full size gymnasium, elevated track, fitness center, game room, teaching kitchen, music studio, partnership spaces, and other program spaces.

Along with the new center, the surrounding 19.5 acre park will be completely renovated to include a new fishing pond, performance space, loop walks, play areas, sprayground, sports courts, parking, lighting, and landscape as determined through public meetings.



Conceptual site plan for Linden Park.

Franklin Park Cascades

Department: Recreation and Parks
Planning Area: Near East
Start Date: Winter 2018
Est. Completion Date: Fall 2019
Est. Cost: \$2,500,000
Est. Operating Impact: Minimal

Phase I included replacement of the existing pond pumps in a new above ground structure to allow the pumping of water from the lower pond to the upper pond.

Phase II includes the study and analysis of the existing cascades now that the water has been restored to the cascades in order to inventory leaks and conditions. The entire cascades area between the ponds will be completely revamped, restoring it into a natural and sustainable water feature for the future of the park.

Other Phase II modifications being negotiated include upper pond edge repairs, deepening of the pond, and relining. The lower pond will be addressed with overall cleanup. Pond improvements in conjunction with the cascade project will provide a more uniform and healthier system.

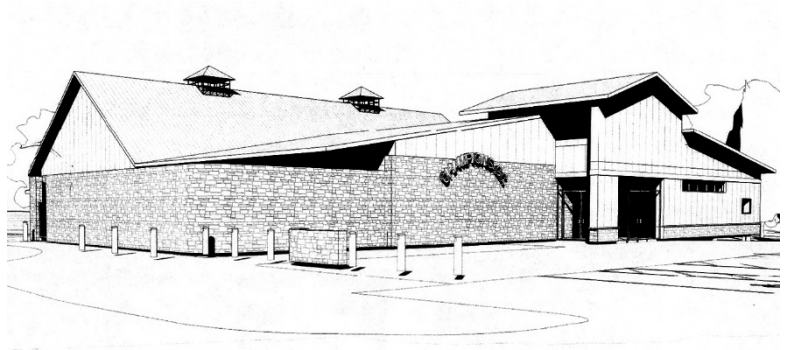


Photograph of the existing cascade between ponds.

Champions Clubhouse

Department: Recreation and Parks
Planning Area: North Linden
Start Date: February 2019
Est. Completion Date: March 2020
Est. Cost: \$4,500,000
Est. Operating Impact: \$20,000 Annual Increase

When completed, this new building will be approximately 11,000 sq. ft. and will feature a golf pro shop, dining area, and commercial kitchen. Additionally, it will also have a 3,800 sq. ft. event room that will be available for rent and will be capable of hosting more than 250 guests. The project will also improve the parking lot, entry drive, and address drainage issues. This new facility will encourage greater use of the Champions Golf Course by individual visitors to both the golf course and tennis courts. It will also provide a premier event facility that will be available for use by the community to host weddings, meetings, or other events.



Conceptual rendering of Champions Clubhouse.

Davis Center

Department: Recreation and Parks
Planning Area: Near East
Start Date: January 2019
Est. Completion Date: December 2019
Est. Cost: \$2,500,000
Est. Operating Impact: \$35,000 Annual Increase

The Davis Center was originally constructed as a shelter house in 1914. In 1992, the building was converted to a performance space as part of the Ameriflora exhibition and then later closed in 2008. This project will renovate the building to allow year round use as a reservable shelter house. The upper floor of the building will be used for events and weddings while the lower floor will be used for the building mechanicals and storage. The deteriorated porches will be demolished and new porch slabs on grade will be provided. The building steps and entry will be redesigned to allow visitors an upgraded approach to the building. The project will also replace windows and new mechanical, electrical, plumbing, and technology improvements will be provided.



Davis Center existing exterior.

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 the completed construction of the N. Hamilton Road “S” curve at State Route 161.

CelebrateOne Sidewalks

Department: Public Service
Planning Area: Hilltop, South Linden, Near South
Start Date: September 2017
Est. Completion Date: Various
Est. Cost: \$8,085,000
Est. Operating Impact: Minimal

This project consists of building sidewalks, crosswalks, and on-street bicycle facilities to continue to provide safe passage for pedestrians and bicyclists to residents of CelebrateOne areas concentrating in the Hilltop, South Linden and Near South areas.



New sidewalk filling in the gaps at Mound and Clark

Mound Street Sidewalks – Binns Blvd. to Wayne Ave.

Department: Public Service
Planning Area: Hilltop
Start Date: June 2017
Est. Completion Date: May 2018
Est. Cost: \$4,100,000
Est. Operating Impact: Minimal

This project adjusts curb lines on Mound Street to accommodate sidewalks while including some traffic signal work, along with drainage improvements and the installation of LED street lighting. Mound Street will be reduced to two traffic lanes from Binns Boulevard to South Hague Avenue with a 5-foot sidewalk, and reduced to three traffic lanes from South Hague Avenue to Wayne Avenue with a 7-foot sidewalk. Mound Street will be resurfaced for the limits of the project.



Installing sidewalk on W. Mound Street near S. Terrace Ave.

Livingston Ave. Phase C

Department: Public Service
Planning Area: Hilltop
Start Date: September 2015
Est. Completion Date: November 2019
Est. Cost: \$11,900,000
Est. Operating Impact: Minimal

The roadway will be reconstructed and widened from 5th street to Kennedy. Grant Avenue will also be widened to accommodate a second southbound left turn lane at Livingston Avenue and will be resurfaced from Livingston Avenue to the southern limit of the approach slab of the bridge over I-70/I-71. Additional improvements include bike lanes, curb extensions where parking is permitted, new sidewalk, intersection upgrades, and streetscape improvements. New storm sewer and street lighting will be installed. All aerial utilities will be relocated underground.



Preparing to deploy orange barrels on Livingston Avenue so project work can begin.

Short North Phase 2

Department: Public Service
Planning Area: Short North
Start Date: December 2016
Est. Completion Date: November 2018
Est. Cost: \$10,820,000
Est. Operating Impact: Minimal

This project consists of replacing the sidewalk and curb on both sides of North High Street between West Poplar Avenue and West Starr Avenue, installing landscaping planter beds and street trees, overlaying North High Street, installing mast arm traffic signal facilities, implementing other traffic control improvements, replacing street and pedestrian light fixtures within the project limits, relocating storm sewer inlets to accommodate curb modifications, and relocating all overhead utilities along North High Street within the project limits underground.



Roadway work along N. High Street.

Creative Campus Phase I

Department: Public Service
Planning Area: Downtown
Start Date: March 2012
Est. Completion Date: 2018
Est. Cost: \$7,275,000
Est. Operating Impact: Minimal

The Creative Campus project consists of two phases. Phase 1A will reconstruct East Gay Street from Cleveland Avenue to North Washington Avenue. Phase 1B will upgrade Cleveland Avenue, Ninth Street and Washington Avenue. Improvements will include pavement reconstruction and resurfacing, curbs, sidewalks, street trees, street lighting, water line, storm water facilities, brick/pavers and landscape elements.



Roadwork along Cleveland Ave.

DRWP Capacity Increase Project

Department: Public Utilities
Planning Area: Citywide
Start Date: 2013
Est. Completion Date: 2019
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, a new sludge pump station, a new sludge force main, a new ozone-biologically active filtration process, and a new ion exchange process. Once this project is completed in 2019, 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 of the new ion exchange facility.

DRWP UV Disinfection Facility

Department: Public Utilities
Planning Area: Citywide
Start Date: 2018
Est. Completion Date: 2021
Est. Cost: \$23,800,000
Est. Operating Impact: Minimal increase

The DRWP UV Disinfection Facility project will install a new treatment process at the plant that uses ultraviolet (UV) light to disinfect the water. With UV disinfection in place, the plant will have a multi-barrier disinfection scheme (chlorine + UV) that enhances public health protection and helps the City comply with upcoming regulatory requirements.



Excavation begins for the new DRWP UV Disinfection Facility

PAWP Treatment Upgrades Project

Department: Public Utilities
Planning Area: Citywide
Start Date: 2016
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 re-carbonation equipment, filter media replacements, new chemical handling systems, and a new electrical substation.



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

SWWTP Chemically Enhanced Primary Treatment (CEPT) – Preliminary Treatment

Department: Public Utilities – Sanitary
Planning Area: Citywide
Start Date: September 2017
Est. Completion Date: October 2020
Est. Cost: \$25,604,141
Est. Operating Impact: None

The CEPT facility will treat the additional wet weather flows at the Southerly Wastewater Treatment Plant (SWWTP). The contract will add a treatment train to the plant and will increase plant capacity from 330 MGD to 440 MGD. The facility will be constructed with three construction contracts.

The CEPT - Preliminary Treatment construction contract will expand the plant's headworks facility, which includes replacing four existing raw sewerage pumps, adding two additional raw sewage pumps, and adding two fine screens. This contract will also add a gravity thickener for the solids that will be produced by the facility. Funding for this project is being provided through a WPCLF loan.



Photograph of the construction of the new Gravity Thickener at the Southerly Wastewater Treatment Plant.

SWWTP Chemically Enhanced Primary Treatment (CEPT) – Clarification

Department: Public Utilities – Sanitary
Planning Area: Citywide
Start Date: September 2017
Est. Completion Date: May 2020
Est. Cost: \$27,769,639
Est. Operating Impact: None

The CEPT facility will treat the additional wet weather flows at the Southerly Wastewater Treatment Plant (SWWTP). The contract will add a treatment train to the plant and will increase plant capacity from 330 MGD to 440 MGD. The facility will be constructed with three construction contracts.

The CEPT - Clarification construction contract will add two primary clarifiers and chemical storage and feed facilities. Funding for this project is being provided through a WPCLF loan.



Photograph of the construction of a CEPT Chemical Building and Primary Clarifier at the Southerly Wastewater Treatment Plant.

SWWTP Chemically Enhanced Primary Treatment (CEPT) – Disinfection

Department: Public Utilities – Sanitary
Planning Area: Citywide
Start Date: September 2017
Est. Completion Date: June 2020
Est. Cost: \$17,633,252
Est. Operating Impact: None

The CEPT facility will treat the additional wet weather flows at the Southerly Wastewater Treatment Plant (SWWTP). The contract will add a treatment train to the plant and will increase plant capacity from 330 MGD to 440 MGD. The facility will be constructed with three construction contracts.

The CEPT - Disinfection construction contract will install effluent piping and construct chlorine disinfection and de-chlorination facilities. Funding for this project is being provided through a WPCLF loan.



Photograph of the construction of the CEPT effluent pipeline at the Southerly Wastewater Treatment Plant.

Capital Improvements Program

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